

# EDITO



Welcome to the modec world

modec vane air motors have been used for more than 30 years as an alternative to traditional electric motors for many heavy duty applications, particularly in chemical, petrochemical and automotive industries.

Our team's technical expertise and business flexibility enable us to develop and provide innovative, robust and powerful air motors as well as specific solutions such as portable valve actuators, tapping machines and nut runners in a short and reliable lead time.

Carefully assembled by our experienced fitters in our factory based in Valence, France, made of parts designed by our engineers and manufactured by thoroughly selected French and European suppliers, our products offer the highest quality standards.

Our technical team is at your disposal for any definition, design and realization of pneumatic solution that will meet your specific needs and requirements.

Welcome to a world of INNOVATION, EXPERTISE and FLEXIBILITY.  
Welcome to the modec world !



Ex II 2 G D  
Ex h IIC T6...T4 Gb  
Ex h IIIC T80°C...T135 Db

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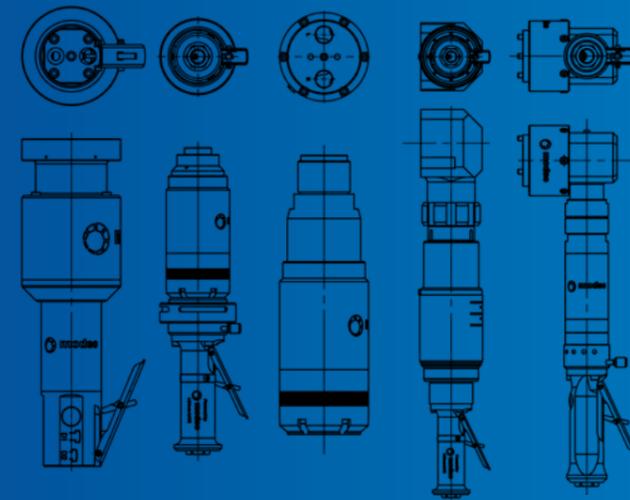
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PART 1  
**GENERAL  
INFORMATION**



# 1 | WHY CHOOSE AN AIR MOTOR ?

## FLEXIBILITY

The Power / Weight output of an air motor is 5 to 6 times higher than that of an electric motor. This makes it ideal for portable applications and / or in cases of space constraints.

Air motors deliver a wide speed span that automatically adapts to the required load.

Rotation direction, speed and torque are easy to control and adjust, even while motor is running.

Remote control is easy to implement.

Air motors work in any position.

Operating temperature range: -30°C → +150°C

## SAFETY

No spark, no hot spot, hence no risk of fire or explosion in sensitive environments.

All our motors can be ATEX certified on request.

No electromagnetic compatibility (EMC) issue.

## RELIABILITY

When starting or reaching the stall torque, air motors neither heat up nor deteriorate, even with a high frequency cycle.

Air motors can be used in almost any condition and environment, even the most demanding.

Air motors are continuously cooled by air expansion. This avoids overheating even at high speed.

## PRODUCTIVITY

Low installation costs. No sophisticated protection and control system (switchgears, contactors, variable speed drives ...). A simple air pressure & flow regulator is required.

Low maintenance costs. Robust design, available parts, no specific skill and certification required for staff.

Easy recycling.

# 2 | WHICH APPLICATIONS ?



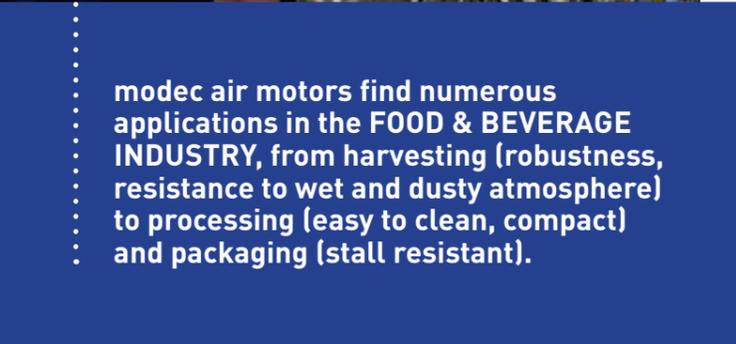
.....  
 ATEX compliant, compact and withstanding dusty atmosphere, modec air motors meet the TEXTILE INDUSTRY requirements.  
 .....



.....  
 Reliable, powerful, compact and resistant to many chemicals, modec air motors are widely used in the PRINTING INDUSTRY.  
 .....



.....  
 Reliable, able to run without lubrication and non-sensitive to electromagnetic fields and radiations, modec motors are much appreciated in the NUCLEAR INDUSTRY.  
 .....



.....  
 modec air motors find numerous applications in the FOOD & BEVERAGE INDUSTRY, from harvesting (robustness, resistance to wet and dusty atmosphere) to processing (easy to clean, compact) and packaging (stall resistant).  
 .....



.....  
 Easy to clean and sterilize, resistant to high temperature and to many chemical products, modec motors are perfect for PHARMACEUTICAL & CHEMICAL INDUSTRIES. They can be stainless steel on request.  
 .....



.....  
 ATEX, robust, and easy to maintain, modec motors fit perfectly in the OIL & GAS INDUSTRY explosive environment.  
 .....



.....  
 Compact, wet-air resistant, powerful and easy to maintain, modec motors easily adapt to the MARINE & SHIPYARD INDUSTRY constraints.  
 .....





**PRODUCTIVITY**



**FLEXIBILITY**



**SAFETY**

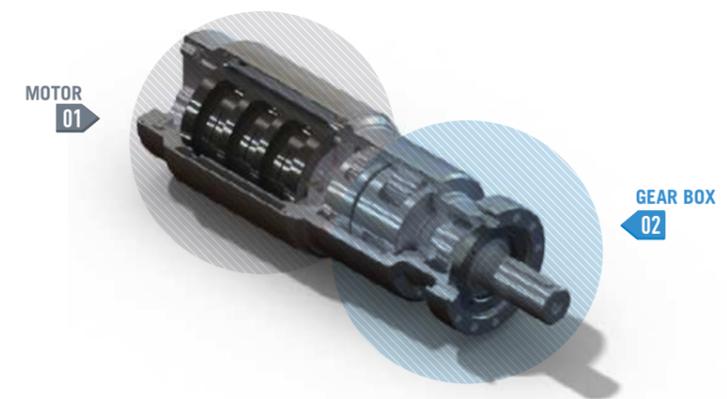


**RELIABILITY**



# 3 | HOW DOES IT WORK ?

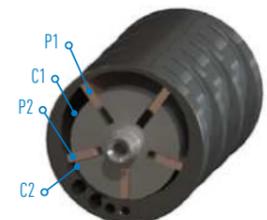
An air motor gets its mechanical power from a gas expansion (usually compressed air). Its main characteristics are safety, reliability & compactness. It is easy to use, transport and store.  
 Modec geared air motors are made of a vane air motor and a planetary gear box



## 01 VANE AIR MOTOR

It consists of a cylinder called stator containing an off-center rotor and closed with two flanges at both ends. The space created between the stator and the rotor has a crescent shape. The rotor has notches in which vanes can move freely.  
 When the rotor is rotating, the centrifugal force drives the vanes that stick to the inner wall of the stator, dividing the space into compression chambers with different volumes.

Pressurized air (4 to 6 bars) is injected into the multi-vane air motor through the injection point (I). It gets into the first compression chamber (C1) which is thus put under pressure. This pressure applies on each side of the chamber a force which will be proportional to its surface.



This rotation motion then brings the chamber (C1) into exhaust position, releasing the air outside of the motor.



Since the two sides of the chamber made of the two vanes (P1) and (P2) have different surfaces, the force applied onto each of them is different and a rotation motion is generated on the rotor.  
 The volume of the chamber (C1) increases and the air inside expands. The chamber (C2) is now put under pressure and the same phenomenon starts again, keeping the rotation constant.



Changing the injection point will make the rotor turn the other way around. Thus, changing rotation from clockwise to counterclockwise is possible by simply changing the injection point on the motor.  
 The rotation direction of the modec air vane motor output shaft is defined when looking at it from the back (air inlet side).

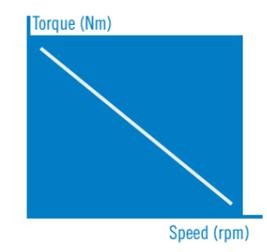


## 02 PLANETARY GEARED REDUCTION

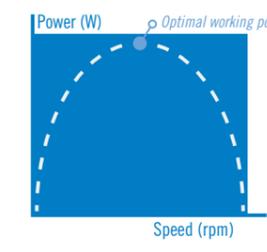
Under a 6 bars pressure, the rotor rotates at a 10000 to 20000 rpm speed depending on the motor. A planetary geared reduction is used to adjust the motion to the required application.  
 These reductions allow to reduce speed and to increase output torque. Thanks to different sizes of planetary gears and different combinations, modec vane air motors can offer a wide range of speeds and torques.



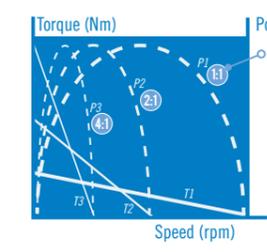
## HOW DOES IT WORK ?



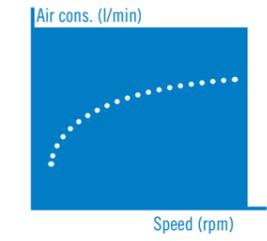
Air motor power first depends on the air (or any other inert gas) supply pressure and flow. For a given supply, there is an inverse relation between speed and torque.



Air motor power (in Watt) is equal to the speed (in revolutions per minute) multiplied by the torque (in Newton Meters) divided by a constant (9.55). The maximum power is reached for a speed roughly equal to half the free speed (speed without any load on the motor). That combination is called the "optimum working point".

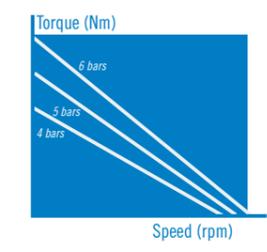


The use of planetary gear enables to change speed and torque for a given power, in order to get the required characteristics.

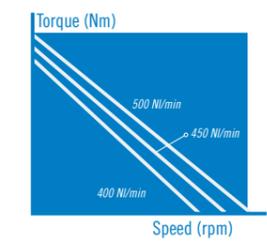


The air consumption depends on the motor speed.

## CONTROL OF AN AIR MOTOR

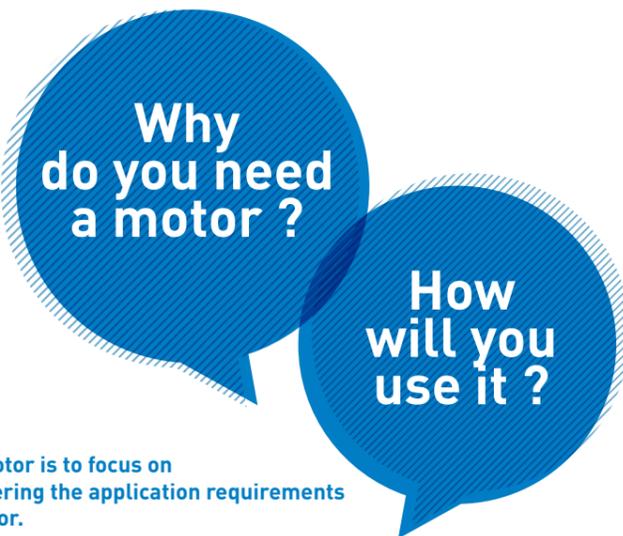


Controlling an air motor consists in adjusting its rotation direction, torque and speed. This can be done through air pressure and flow control, using pressure and flow regulators.  
 For a reversible motor, changing rotation direction is simply done by switching air supply from one inlet to the other thanks to a 5/3 valve. Make sure you use a pneumatic valve that is able to deliver and exhaust enough air flow for a correct motor functioning.  
 For a given motor and gear ratio, one can change speed and/or torque by simply modifying the air supply.  
 Changing air pressure impacts mainly the torque. Changing air flow impacts mainly the speed.



All data (max power, free speed, speed @ Pmax, torque @ Pmax, stall torque, starting torque, air consumption @ Pmax) are indicated for each of our motors in the product data sheet.

# 4 | HOW TO CHOOSE THE RIGHT MOTOR ?



A common mistake when choosing an air motor is to focus on its main performances only, without considering the application requirements and the type of work expected from the motor.

For example, it is not correct to primarily consider the air motor power when only speed or only torque is important for a given application. Similarly, choosing the motor because of its torque at maximum power is not relevant if the application requires a specific starting torque.

The starting point of the decision process should always be "What should that motor do ?" and from there, define and adjust the technical selection criteria.

## 4.1.1 | SPEED, TORQUE, POWER

Speed (S), Torque (T) and Power (P) are related through the following equation :

$$P = (S \times T) / 9.55$$

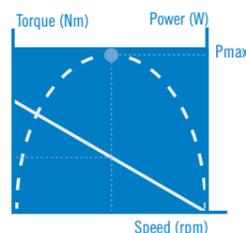
- P = Power (in Watt)
- S = Speed (in rpm)
- T = Torque (in Newton.meter)

Power is maximal when speed is equal to approx. half the free speed.

When the torque applied is equal to zero (no load), the speed is maximal (free speed) but the power is equal to zero.

When the load applied increases, torque increases and speed reduces. Power increases up to a maximum called the optimal working point and starts decreasing.

When the load applied reaches the maximum torque that can be delivered by the motor, it stalls, speed is equal to zero and so is the power. That specific torque is called the stall torque.

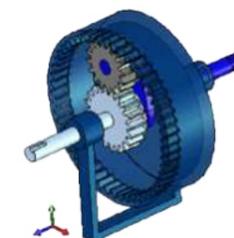


## 4.1.2 | A TOUCH OF MAGIC IN A BOX

**1** Thanks to the integrated gearbox, modec geared air motors deliver speed and torque ranges which are appropriate to different applications' requirements. And this while keeping a maximum compactness and a close to 100% efficiency.

**2** A planetary gearbox is a quite simple mechanism: One or more satellites orbit around the rotor output pinion and drive the output shaft. This leads to a speed reduction and torque increase. Piling up several planetary gears will give the required speed and torque.

**3** Without gearbox, an air motor will deliver a very high speed and very minimal torque. By applying a 2:1 reduction ratio, the speed will be divided by 2 and the torque will double. By applying a 4:1 reduction ratio, the speed will be divided by 4 and the torque will be multiplied by 4, and so on.



When selecting your motor, you need to choose a gearbox that will deliver the appropriate speed and torque for your application.

## 4.1.3 | AIR FLOW AND PRESSURE

Speed and torque can also be controlled by adjusting air flow and/or pressure.

Reducing air flow will mainly reduce output speed. It can be done by restraining air supply or (preferably) air exhaust. Plugging a progressive control handle or an air flow limiter to the air motor inlet port or pipe will slightly reduce the minimum starting torque and may create air turbulences that will make speed less stable, especially with low pressures. Plugging the air flow limiter to the exhaust port or pipe will keep a better stability.

Reducing the air supply pressure reduces the maximum torque that the motor can provide. To reduce the air pressure, simply use the pressure regulator on the FRL unit of the motor. Modec motors are designed to operate at a maximum air pressure of 6.2 bar (90 psi).

## CONCLUSION

Having a clear idea of what your air motor needs to do will help you understand the speed and torque requirements. That way, you can be sure that you are selecting a motor with the right power, speed and torque range, and the right features for the job you expect it to do.

## A COMPLETE RANGE OF MOTORS

### AIR MOTORS FAMILIES

Our air motors come in three families: Easy Duty, Standard Duty and Heavy Duty – adapted to different needs

#### Easy Duty

Compact and lightweight, these motors do not have integrated gearbox and deliver high speed / low torque output.

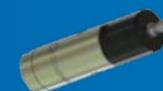
#### Standard Duty

Well balanced between speed and torque, these motors are versatile and can be used in a wide range of applications thanks to the many flanges and shafts available.

#### Heavy Duty

For applications with high torque and requiring exceptional mechanical robustness in difficult conditions, the Heavy Duty family dedicates power to torque in a minimum volume.

## TYPES OF AIR MOTORS



**STRAIGHT MOTORS** are the lightest and most compact. Easy to integrate into a machine, they can be controlled remotely.



**RIGHT ANGLE HEAD MOTORS**, equipped with a 90° head, they have a double advantage: they can sometimes be even more compact than straight motors (integration in mechanical systems), and they can have an even higher torque thanks to the additional reduction included in the right angle head.



**MOTORS EQUIPPED WITH HANDLES** can be easily and manually operated, just like portable tools. The type of handle depends on the application requirement:

- Safety handle
- Progressive control handle

These two handles can be assembled together on the motor.

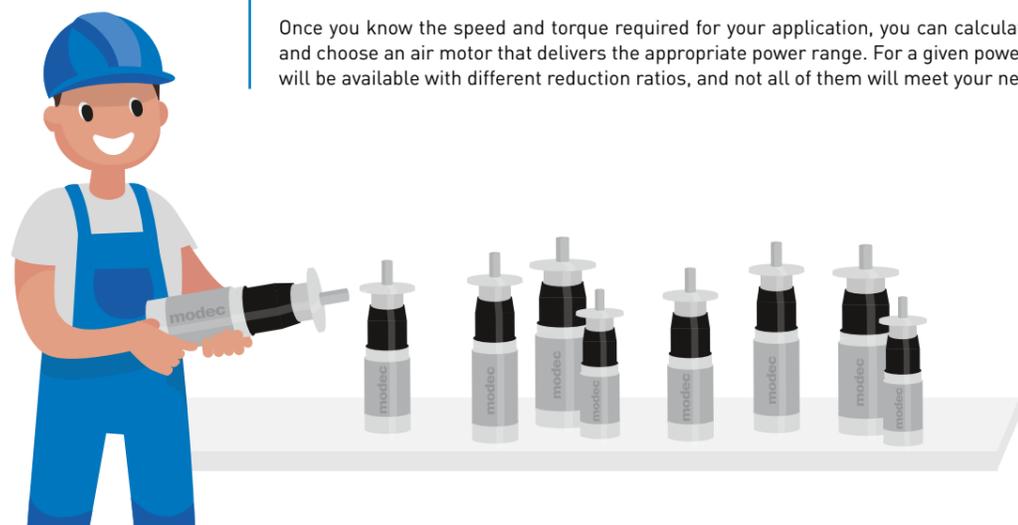
## OPTIONS AND ACCESSORIES

Our motors can also be equipped with options and accessories that improve their performance in certain environments and create better working conditions.

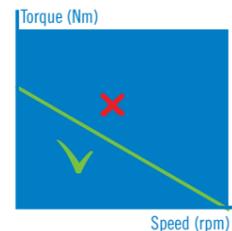
## READY TO CHOOSE THE RIGHT MOTOR ?

### CHOICE OF THE POWER RANGE

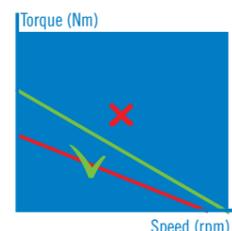
Once you know the speed and torque required for your application, you can calculate the power required and choose an air motor that delivers the appropriate power range. For a given power range, many motors will be available with different reduction ratios, and not all of them will meet your needs.



### GET THE RIGHT WORKING RANGE

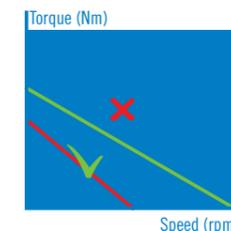


To be sure that the motor is adequate, you need not only the right power, but also the right reduction ratio. Simply plot the working point of the application (speed and torque) on the torque/speed curve of each selected motor as shown. If this point is below the torque/speed curve, the motor will be able to do the job. But if the point is above the curve, the motor will not fit your needs.



Air supply pressure adjustment

Once you have chosen a motor with the right power range and gear ratio, you can operate the motor at a specific working point by adjusting the air flow or pressure, as shown in the graph. If the torque is less critical, adjust the air pressure to obtain the correct operating point. If speed is less critical to your operation, adjust the airflow to reduce speed.



Air supply flow adjustment

## WHAT OTHER FACTORS MIGHT INFLUENCE YOUR CHOICE?

You have identified a motor - or most likely a list of motors - capable of performing the required function in terms of the power/torque/speed equation.

Now you need to consider other factors that could influence actual performance. The saying goes: «the devil is in the details», so do it right and you will be ready for a happy and lasting relationship with your air motor!

### STARTING TORQUE

The starting torque of a motor is the maximum level of torque that can be applied to the motor at the time of starting. Above this torque, the motor will not start. This can be critical in lifting applications, for example, when the motor has to start to lift a load. This torque is often less than the stall torque. The starting torque indicated for a motor is the minimum measured torque. It can sometimes be higher



### ENERGY EFFICIENCY

If you want to optimize the energy efficiency of your operations, you want your motor to run at maximum power. In this case, you need a motor with an optimum working point as close as possible to your application working point. Working at maximum power also allows you to choose the smallest motor capable of performing the required job, which can be advantageous when working in a small space and to limit costs.

### STALL TORQUE

Stall torque is the level of torque at which the motor stops, or stalls. It is important to know the stall torque to be certain that the motor will be able to handle the highest torque required by the application. Conversely, it may be important that your motor stops before it reaches a certain torque level to protect your machinery. In this case you can ensure that you have a motor with a stall torque that does not exceed this value. A torque limiter can also be used in this case.

### POWER RESERVE

For some applications, it is important to have a power reserve in case the required torque increases or changes during operation. In such cases, a motor should be selected whose optimum working point (maximum power) is on the left of the application's working point. When the load (the torque required) increases, there will be no risk of immediate stalling, on the contrary, the power delivered will increase.

### AIR CONSUMPTION REDUCTION

Under certain circumstances, the air supply flow and/or pressure may be limited. In such cases, a motor should be selected with the optimum working point on the right of the application's working point so that the rotor speed (and thus consumption) is as limited as possible.

### OTHER CRITERIA AND POSSIBLE ADAPTATIONS

#### TEMPERATURE

Our air motors can operate at temperatures as low as -30°C and as high as +150°C. However, at very low temperatures, attention must be paid to condensation or even small ice crystals caused by the additional cooling of the air in a cold environment.

#### SPECIFIC ATMOSPHERES

Whatever the working environment - dusty, radioactive, damp or explosive - our motors (which can be ATEX certified on request) operate safely. As long as you always use clean, dry and lubricated air, you won't have any problems.

#### CLEAN ENVIRONMENTS

Motors used in industries where a clean environment is required (e.g. pharmaceutical or nuclear industries) should be equipped with an integrated air exhaust collector to ensure that the air exhausted from the motor does not contaminate the laboratory or factory atmosphere.

#### SEALED MOTORS

We can make waterproof sealed motors, capable of operating several meters underwater.

## CONCLUSION

In short, if you want to choose the right air motor that gives you the best performance, safety and return on investment, start by analyzing what you want the motor to do and proceed from there. Keep in mind that we're always available if you need a little help!

# 5 | READY TO CHOOSE THE RIGHT MOTOR ?

You're almost there! Before you start your work, there are just a few steps left.

## SAFETY FIRST !

Here are some safety rules to follow before using your air motor :



### Adequate hearing protection

Air motors can be noisy when running and require adequate hearing protection (motor silencer, earplugs or earmuffs).



### Adequate masks and goggles

Excessive lubrication can cause oil to be splashed into the atmosphere around the motor. Operators must wear suitable protective masks and goggles.



### Use a SAT BOX !

In order to protect people and equipment, modec recommends the use of a SAT BOX which, in addition to filtering, regulating and lubricating the air supply, has several important safety functions:

- **An emergency stop button that instantly stops the motor** as it cuts the upstream supply circuit and purges the downstream air network. Thus, there is no risk of residual energy causing the motor to start unexpectedly.
- **A safety key lock on the emergency stop button** so that the operator cannot restart without prior agreement following such a stop.
- **An automatic shutdown system** when the circuit pressure drops below 2 bars to prevent an unexpected restart.

Pictograms and precise instructions can be found in the user manual supplied with the motor. Compliance with these instructions is mandatory for all use of our air motors.

## MOTOR COMMISSIONING

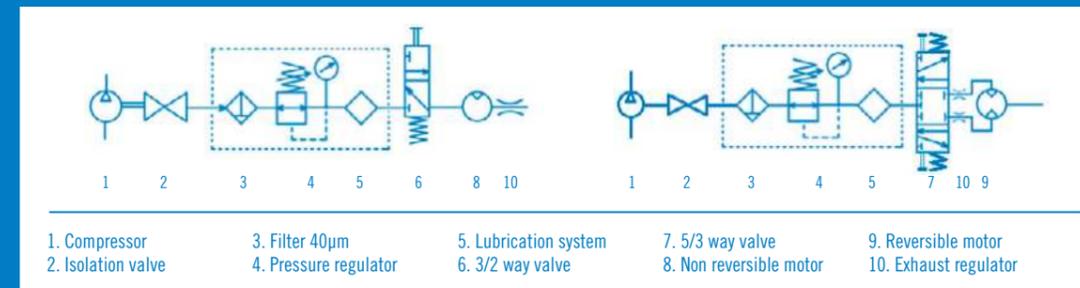
### PRELIMINARY CHECKS

- ✓ The air pressure must not exceed the motor's maximum operating pressure (6.2 bar).
- ✓ The air flow rate must be sufficient for the motor.
- ✓ The temperature should be between -30 and +150°C.
- ✓ A pneumatic safety switch must be installed to isolate the motor from the air supply. We recommend to use a SAT Box for that.
- ✓ Each hose connected to the motor must be equipped with an anti-whiplash safety cable to prevent any whiplash that could be caused by a broken or loose hose.
- ✓ Hoses should not be damaged or worn. Check them carefully before use: a broken hose can cause serious damage.
- ✓ The air supply hose must be oil and abrasion resistant and suitable for the required air pressure.
- ✓ The length of the tubes should not be excessive (pressure drop). We recommend to limit the hose length to 3m or to increase their diameter.
- ✓ For reversible motors, the port opposite to the air inlet must be connected to exhaust.
- ✓ Compressed air should have a dew point temperature of 10°C maximum.
- ✓ A filtration, regulation and lubrication unit (FRL) must be installed upstream from the motor. Filtration must be 40 microns maximum and lubrication must be compatible with the motor requirement. FRL units ensure that the air is clean, properly pressurized and lubricated.

## AIR MOTORS CONNECTION

Non reversible motor

Reversible motor



### SUPPLY & EXHAUST CONNECTION

When air supply is connected to the right (RT) port: The output shaft will rotate clockwise when looking from the back of the motor.

Exhaust goes through the exhaust port (EXH) and through the left (LT) inlet port.

Both orifices should be free.

When air supply is connected to the left (LT) port: The output shaft will rotate counter-clockwise when looking from the back of the motor.

Exhaust goes through the exhaust port (EXH) and through the right (RT) inlet port.

Both orifices should be free.



## AIR MOTORS LUBRICATION

Insufficient lubrication will result in reduced motor performance and vane service life. To maximize the durability of your motors and guarantee their full power in operation, they should be lubricated with 50 mm<sup>3</sup> of oil per m<sup>3</sup> of air (1 drop = 15 mm<sup>3</sup>), that is to say 3.4 drops per Nm<sup>3</sup>.

Example : One "07" series air motor consumes 700 Nl/min at 6.2 bars. The required lubrication for optimal performances and maximum vanes service life is : 700 / 1000 x 3.4 = 2.4 drops per minutes.

The pneumatic oil used must have a viscosity of 22 to 46 cSt depending on the ambient temperature (for example, at 40 °C, the viscosity of the oil should be between 22 and 30 cSt).

### LUBRICATION FREE AIR MOTORS

For specific applications where oil is forbidden (clean rooms), we propose "lubrication free" air motors as an option for all our air motors. These motors have specific parts (stators, bearings...) designed for this type of use. Lubrication free air motors' speed is usually 5 to 15% less than for the same but lubricated air motor. In addition, the following precautions must be taken :

- ✓ Maintenance should be more frequent (see table below)
- ✓ In case a lubrication free air motor is used with oil, it will always require lubrication afterwards except if it is dismantled and completely cleaned up before re-use.
- ✓ Lubrication free air motors are particularly sensitive to dust and impurities in air supply. Make sure you use a clean and dry air.
- ✓ These motors should not be used unloaded and at full speed.

|  | Standard motors                                     | « Lube free » motors                                |
|--|---|---|
| Lubrication<br>3.4 drops / Nm <sup>3</sup> | Speed : 100%<br>Maintenance every<br>1000 to 3000 h | Speed : 100%<br>Maintenance every<br>1000 to 3000 h |
| No Lubrication                             | Speed < 50%<br>Maintenance every<br>30 to 50 h      | Speed : 85%<br>Maintenance every<br>500 to 1000 h   |

# 6 | AIR MOTORS STORAGE AND MAINTENANCE

Modec air motors must be stored in a dry environment to avoid any corrosion of mechanical parts. Before storing a motor, introduce 10 drops of modec oil into the supply port and run the motor for a few seconds. Before restarting the motor after a long storage period or before using it for the first time, introduce 10 drops of modec oil into the inlet port.

Maintenance must be carried out by skilled technicians trained by modec, in compliance with the instructions given in the user's manual. Make sure that your working environment is clean and appropriate (particularly check that no external parts could come inside the motor). Modec can supply maintenance kits for the regular maintenance of your motors.

All modec air motors parts are recyclable, easily identifiable and do not represent any danger to humans or environment. It is therefore easy to dismantle, sort and recycle a motor at the end of its life.

# 7 | CERTIFICATION

## CE CERTIFICATION

All our products are compliant with the CE Standards (Directive 2006/42/CE of the European Parliament and of the Council of 17 May 2006). However, they should not be used before the final equipment in which they are supposed to be used is certified compliant with the Directive 2006/42/CE of the European Parliament and of the Council of 17 May 2006 or any other applicable rule.

## ATEX

All modec air motors can be ATEX certified on request, with the following characteristics :

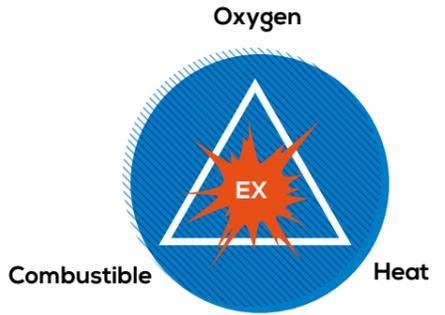
II 2 G D  
Ex h IIC T6...T4 (\*) Gb  
Ex h IIC T80°C...T135 (\*) Db

(\*) See table

| Series                 | Ambiant temperature  | Temperature Class Gas | Dust temperature |
|------------------------|----------------------|-----------------------|------------------|
| «05», «07», «08», «10» | -20°C ≤ Tamb ≤ +40°C | T6                    | T80°C            |
|                        | -20°C ≤ Tamb ≤ +55°C | T6                    | T80°C            |
|                        | -20°C ≤ Tamb ≤ +80°C | T5                    | T95°C            |
| «20», «25», «30»       | -20°C ≤ Tamb ≤ +40°C | T6                    | T80°C            |
|                        | -20°C ≤ Tamb ≤ +55°C | T5                    | T95°C            |
|                        | -20°C ≤ Tamb ≤ +80°C | T4                    | T135°C           |

Their explosion-proof nature has been certified by LCIE Bureau Veritas. An EXplosive ATmosphere (ATEX) is a mixture of air and flammable substances that can explode if a heat source is applied.

This is called the «explosion triangle»:



Modec air motors make it possible to eliminate the source of heat and therefore break this triangle, thus ensuring people and material safety.



## INGRESS PROTECTION INDEX (IP)

With a collected exhaust, our motors can be considered equivalent to IP52.

# 8 | TO GO FURTHER IN EFFICIENCY

Several methods exist to maximize the efficiency of pneumatic solutions and some industries achieve spectacular results by recycling compressed air. In this way, most of the energy used to produce compressed air can be recovered.



Air compression generates heat. Some industries use this warm air for heating purposes. They recover an important part of the energy used by the compressor.



When the compressed air expands inside the air motor, it cools down. This cooling is used to prevent the gears inside the gearbox from heating up. This ensures optimum operation and a long service life for the motor.



Some processes require large quantity of air at very high pressure. Even after use, the pressure of the exhaust air remains above atmospheric pressure. It is easy and advisable to use this compressed air with air motors to produce electricity for example.

More generally, you can recover and store any residual energy, whether mechanical or otherwise, in the form of compressed air. Compressed air is a safe, easy and efficient way to store energy everywhere.

You can also use this cold air for other purposes in your process.

You are now ready to use your air motor in a safe and efficient way.





## PART 2

# PRODUCTS DATA SHEETS

Product data sheets provide all technical and performance information. We sorted them from the smallest to the highest power range. For each range, you will find first straight motors without and with handle, then right angle drive motors without or with handle.

All information included in these data sheets comes from tests performed in our labs. These tests were carried out in very precise conditions and environment, with air pressure, flow, quality and lubrication consistent with our recommendations, and without any option or accessory.

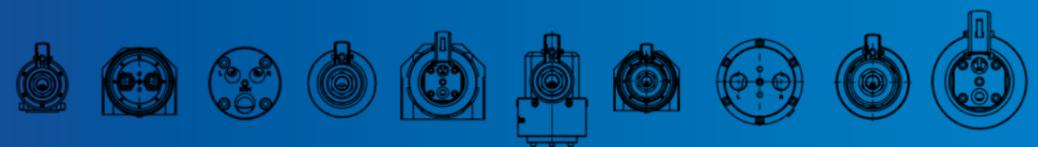
However, given the nature of pneumatics and air motors, a +/-5% accuracy must be considered.

It is also important to keep in mind that an air motor reaches its full performances after approx. 15 minutes loaded running in period only.

When using some options (collected exhaust, lubrication free, kit start, speed control...) performances are slightly reduced. The "left/Right trigger" option will give to the motor the same performances than for its "N" version (with handle). For example, a MTS10RV with the "Left/Right trigger" option will deliver the same performances than a NTS10RV.

Similarly, the use of accessories such as silencers or air flow limiters may result in performance reduction. It is important to choose the right accessory for a given motor. You will find on each air motor range introduction page a table indicating the available accessories as well as connection and lubrication instructions (air flow, fittings and hoses dimension, oil quantity). For additional information, refer to information provided in the first part of the present catalogue.

Each motor refers to a "Group" of flanges and shafts. Once you have selected the right motor for your application, report to the indicated pages and choose the appropriate flange and shaft.



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## 1

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## 2

### Products data sheets

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| Heavy duty .....                  | 32        |
| <b>Right angle motors (MR)</b>    |           |
| Heavy duty .....                  | 34        |
| Super Heavy duty .....            | 36        |
| <b>« 07 » serie (480 W)</b>       | <b>38</b> |
| <b>Straight motors (MT)</b>       |           |
| Easy duty .....                   | 40        |
| Standard duty .....               | 42        |
| Heavy duty .....                  | 44        |
| <b>Right angle motors (MR)</b>    |           |
| Heavy duty .....                  | 46        |
| Super heavy duty .....            | 48        |
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| Tapping machine TRS 08            | 70        |

|                                   |            |
|-----------------------------------|------------|
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|                                   |            |
|-----------------------------------|------------|
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| Standard duty .....               | 148        |
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|  |  |
|--|--|
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| Safety Air Treatment Boxes (SAT Box) Pneumatic oil Modec Co-16 |  |
| Motor control handles  |  |
| Filters & silencers  |  |
| Air flow (speed) controllers                                   |  |
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### Flanges & Shafts

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## 4

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# modec MOTORS REFERENCES

Proven air motors offer for **over 30 years**



POWER : **300 to 3200 W**

TORQUE : **0 to 1000 Nm**

**More than 12000 references**  
to match your need whatever your application

**Super short lead times**

**TYPE OF MOTOR**

|    |                                |
|----|--------------------------------|
| MT | Straight motor                 |
| MR | Right angled motor             |
| NT | Straight motor with handle     |
| NR | Right angled motor with handle |

**THE MOTOR COMMERCIAL REFERENCE GIVES YOU AN INSIGHT OF ITS MAIN CHARACTERISTICS**

**PRODUCT FAMILY**

|   |                  |
|---|------------------|
| E | Easy Duty        |
| S | Standard Duty    |
| H | Heavy Duty       |
| Z | Super Heavy Duty |

**REDUCTION RATIO**  
(3 digits)

**OPTIONS**  
(2 digits)



**MAX POWER (6 BARS)**

|              |        |
|--------------|--------|
| « 05 » serie | 300 W  |
| « 07 » serie | 480 W  |
| « 08 » serie | 700 W  |
| « 10 » serie | 1300 W |
| « 20 » serie | 1900 W |
| « 25 » serie | 2700 W |
| « 30 » serie | 3200 W |

**ROTATION\***

|    |                         |
|----|-------------------------|
| RT | Right (clockwise)       |
| LT | Left (counterclockwise) |
| RV | Reversible              |

**FLANGE**  
(1 to 2 digits)

**SHAFT**  
(1 to 3 digits)

\*Rotation direction is defined when looking from the back of the motor

In addition to our standard references, we can design and manufacture special motors on request.

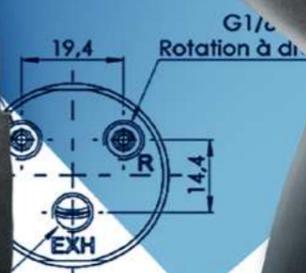
MAX POWER  
**300 W**  
MAX TORQUE  
**370 Nm**

"05" series air motors are **the lightest and most compact**.

With a 300W power in a 113 x 36,5 mm cylinder weighting half a kilogram only, **these motors fit easily in a machine**.

Like any of our motors, power and torque are easily controllable by simply adjusting air supply pressure, which allows to use them "at stall" without any additional precaution.

This makes them an ideal tool for cap screwing on bottling lines for example.



| + | ACCESSORIES FOR THIS MOTOR                                 | Reference | Information |
|---|--|-----------|-------------|
|   | Filtration, pressure Regulation and Lubrication unit (FRL) | AC106     | Page 177    |
|   | Safety Air Treatment Box (SAT Box)                         | AC118     | Page 178    |
|   | With Pedal remote control                                  | AC119     | Page 178    |
|   | With handle remote control                                 | AC120     | Page 178    |
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|   | With remote E-Stop and pedal remote control                | AC121     | Page 178    |
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|   | Maintenance kits   |           |             |
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|   | Maintenance kit for lube free "05" series                  | AC310     | Page 181    |
|   | Maintenance kit for kit start "05" series                  | AC320     | Page 181    |
|   | modec Oil Co-16  | AC149     | Page 178    |
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|   | Metallic standard exhaust silencer                         | AC168     | Page 179    |
|   | Plastic standard exhaust silencer                          | AC166     | Page 180    |
|   | Heavy duty exhaust silencer                                | AC167     | Page 180    |
|   | Speed control muffler                                      | AC170     | Page 181    |
|   | High flow air muffler                                      | AC158     | Page 180    |
|   | Exhaust silencer filter                                    | AC165     | Page 180    |

| CONNECTION AND LUBRICATION |                 |               |               |               |                          |
|----------------------------|-----------------|---------------|---------------|---------------|--------------------------|
| 🔧                          | Min. fittings Ø |               | Min. pipe Ø   |               | Lubrification (6,2 bars) |
|                            | In              | Out           | In            | Out           |                          |
|                            | 5 mm / 0,2 In   | 5 mm / 0,2 In | 6 mm / 0,2 In | 6 mm / 0,2 In | 2 drops / minute         |

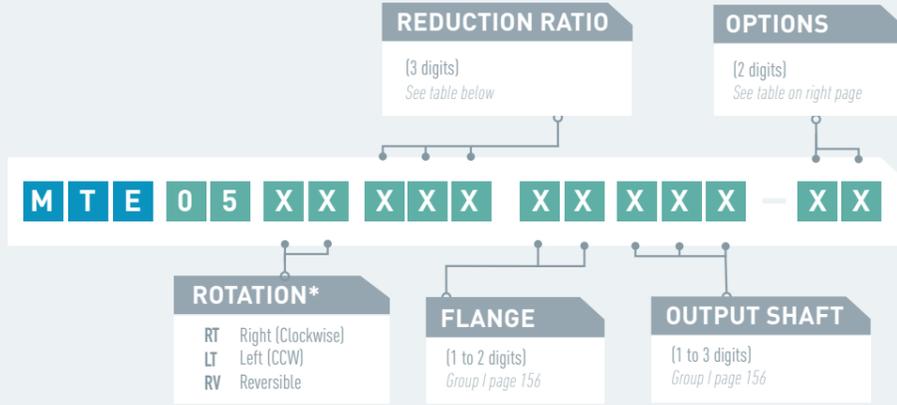
| CONVERSION TABLE            |   |                   |
|-----------------------------|---|-------------------|
| Watt ▶ Horse power          | Newton meter ▶ Pound feet                             | Millimeter ▶ Inch |
| Watt x 0,001341 = hp        | Nm x 0,7376 = lb.ft                                   | mm x 0,03937 = in |
| Bar ▶ Pound per square Inch | Normo Liter / minute ▶ Standard cubic feet per minute | Kilogram ▶ Pound  |
| Bar x 14,5 = psi            | NL / min x 0,03531 = scfm                             | Kg x 2,205 = lb   |

# MOTOR MTE 05

## POWER 300 W



MTE 05



\* rotation direction is defined when looking from the back of the motor

### OPTIONS AVAILABLE FOR THIS MOTOR

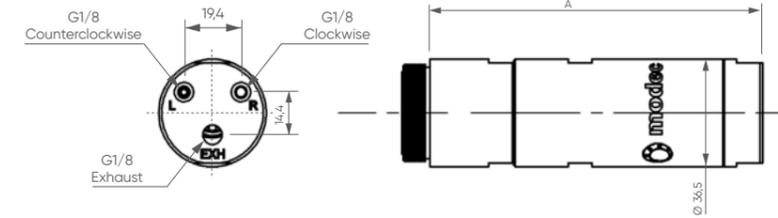
+ List of available accessories for this motor page 27

|                    |    |    |    |    |    |    |    |    |    |    |    |    |
|--------------------|----|----|----|----|----|----|----|----|----|----|----|----|
| Collected exhaust* | ▶  | ▶  | ▶  | ▶  | ▶  | ▶  | ▶  | ▶  | ▶  | ▶  |    |    |
| ATEX certification |    | ▶  |    |    | ▶  | ▶  |    |    | ▶  | ▶  |    |    |
| Lubrication free   |    |    | ▶  |    |    | ▶  |    |    | ▶  | ▶  |    |    |
| Kit start          |    |    |    | ▶  |    |    | ▶  |    |    | ▶  |    |    |
| Stainless steel    |    |    |    | ▶  |    |    | ▶  | ▶  | ▶  | ▶  |    |    |
| Code               | 01 | 07 | 09 | 10 | 11 | 21 | 22 | 23 | 27 | 28 | 36 | 37 |

\* Exhaust is always collected on "05" series air motors

### LAYOUT

MTE 05



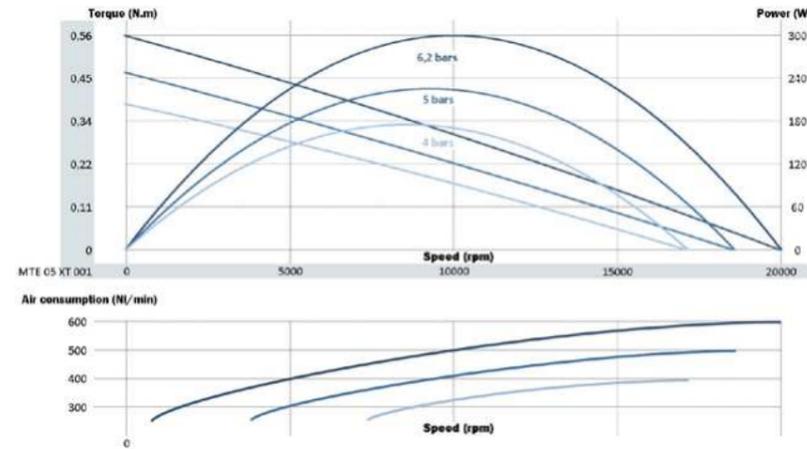
| PERFORMANCES | MTE 05 XT           |   | Reduction ratio | Air supply pressure | Speed (rpm) |      | Torque (N.m) |             |                 | Max Power (W) | Air cons (NL/min) | Dimensions |        |             |
|--------------|---------------------|---|-----------------|---------------------|-------------|------|--------------|-------------|-----------------|---------------|-------------------|------------|--------|-------------|
|              | Air motor reference |   |                 |                     | @ max Power | Free | @ max Power  | Max (stall) | Starting torque |               |                   | A (mm)     | Ø (mm) | Weight (kg) |
|              | MTE 05 XT 001       | 1 | 6,2 bars        | 10000               | 20000       | 0,28 | 0,56         | 0,49        | 300             | 500           | 113               | 36,5       | 0,5    |             |
|              |                     |   | 5 bars          | 9400                | 18800       | 0,24 | 0,44         | 0,39        | 230             | 400           |                   |            |        |             |
|              |                     |   | 4 bars          | 8400                | 16800       | 0,20 | 0,33         | 0,29        | 180             | 300           |                   |            |        |             |
|              | MTE 05 RV           |   |                 |                     |             |      |              |             |                 |               |                   |            |        |             |
|              | MTE 05 RV 001       | 1 | 6,2 bars        | 11400               | 22800       | 0,24 | 0,44         | 0,28        | 300             | 500           | 113               | 36,5       | 0,5    |             |
|              |                     |   | 5 bars          | 10400               | 20800       | 0,20 | 0,33         | 0,21        | 220             | 400           |                   |            |        |             |
|              |                     |   | 4 bars          | 9500                | 19000       | 0,17 | 0,22         | 0,14        | 170             | 300           |                   |            |        |             |

Data indicated in this table have an accuracy of +/- 5%

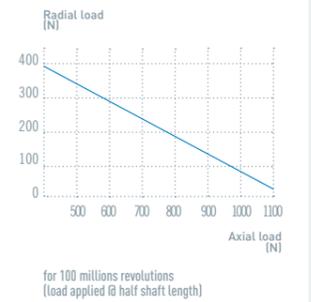
For connection and lubrication, see page 27

### POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS

MTE 05 XT

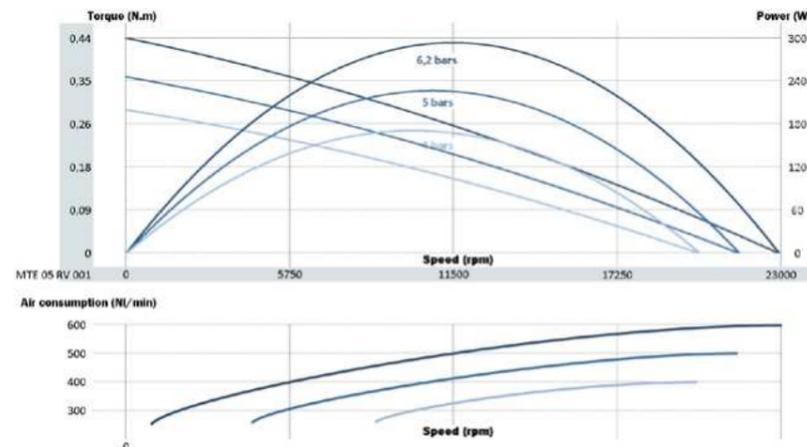


### MAXIMUM RADIAL & AXIAL LOAD



for 100 millions revolutions (load applied @ half shaft length)

MTE 05 RV



### NOTES

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

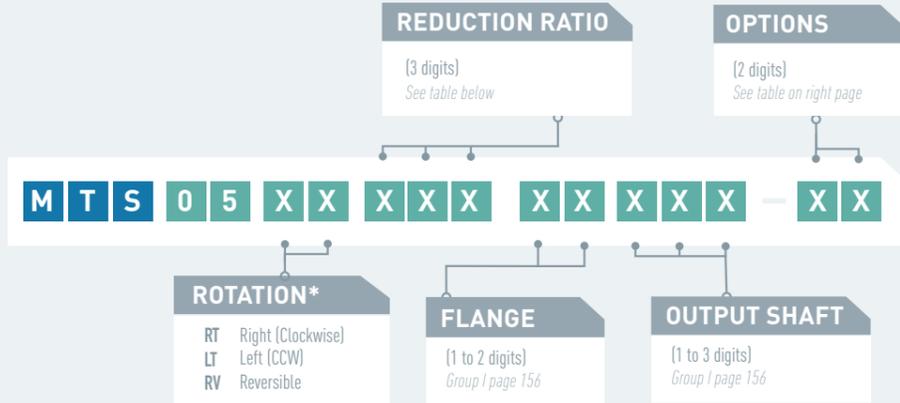
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# MOTOR MTS 05

## POWER 300 W

MTS 05



\* rotation direction is defined when looking from the back of the motor

### OPTIONS AVAILABLE FOR THIS MOTOR

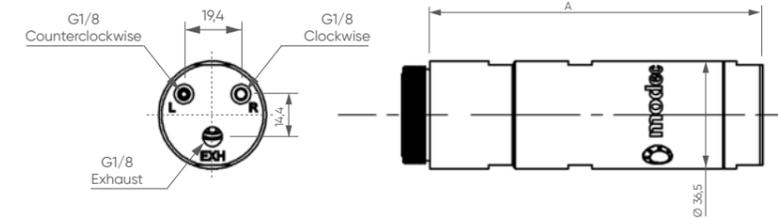
List of available accessories for this motor page 27

|                    |    |    |    |    |    |    |
|--------------------|----|----|----|----|----|----|
| Collected exhaust* | ▶  | ▶  | ▶  | ▶  | ▶  |    |
| ATEX certification | ▶  | ▶  | ▶  | ▶  | ▶  |    |
| Lubrication free   | ▶  | ▶  | ▶  | ▶  | ▶  |    |
| Kit start          | ▶  | ▶  | ▶  | ▶  | ▶  |    |
| Code               | 01 | 07 | 09 | 10 | 21 | 22 |

\* Exhaust is always collected on "05" series air motors

### LAYOUT

MTS 05



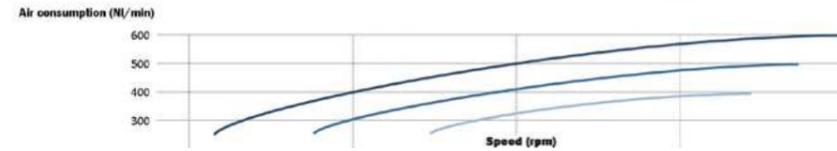
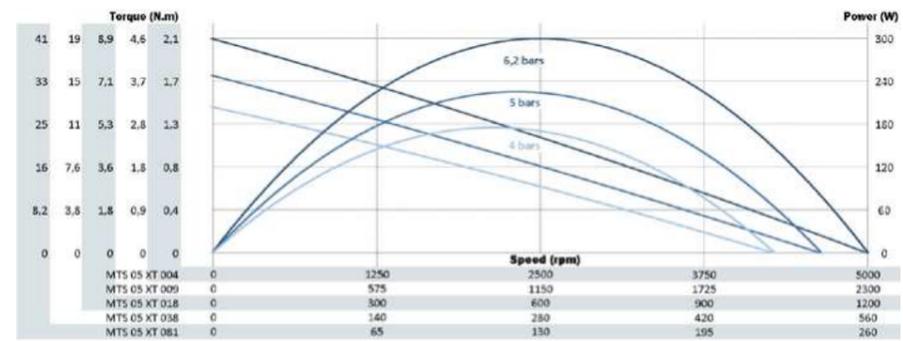
| PERFORMANCES | MTS 05 XT           |                 |                     |             |      |              |             |                 |               |                   |            |        |             |
|--------------|---------------------|-----------------|---------------------|-------------|------|--------------|-------------|-----------------|---------------|-------------------|------------|--------|-------------|
|              | Air motor reference | Reduction ratio | Air supply pressure | Speed (rpm) |      | Torque (N.m) |             |                 | Max Power (W) | Air cons (NI/min) | Dimensions |        |             |
|              |                     |                 |                     | @ max Power | Free | @ max Power  | Max (stall) | Starting torque |               |                   | A (mm)     | Ø (mm) | Weight (kg) |
|              | MTS 05 XT 004       | 004             | 6,2 bars            | 2507        | 5014 | 1,1          | 2,1         | 1,9             | 299           | 500               | 113        | 36,5   | 0,7         |
|              |                     |                 | 5 bars              | 2314        | 4629 | 0,9          | 1,8         | 1,6             | 226           | 400               |            |        |             |
|              |                     |                 | 4 bars              | 2141        | 4281 | 0,8          | 1,5         | 1,3             | 174           | 300               |            |        |             |
|              | MTS 05 XT 009       | 009             | 6,2 bars            | 1170        | 2340 | 2,4          | 4,6         | 4,0             | 299           | 500               | 113        | 36,5   | 0,7         |
|              |                     |                 | 5 bars              | 1080        | 2160 | 2,0          | 3,8         | 3,3             | 226           | 400               |            |        |             |
|              |                     |                 | 4 bars              | 999         | 1998 | 1,7          | 3,1         | 2,7             | 174           | 300               |            |        |             |
|              | MTS 05 XT 018       | 018             | 6,2 bars            | 597         | 1194 | 4,8          | 8,9         | 7,9             | 299           | 500               | 113        | 36,5   | 0,7         |
|              |                     |                 | 5 bars              | 551         | 1102 | 3,9          | 7,4         | 6,5             | 226           | 400               |            |        |             |
|              |                     |                 | 4 bars              | 510         | 1019 | 3,3          | 6,1         | 5,4             | 174           | 300               |            |        |             |
|              | MTS 05 XT 038       | 038             | 6,2 bars            | 279         | 557  | 10           | 19          | 17              | 299           | 500               | 113        | 36,5   | 0,7         |
|              |                     |                 | 5 bars              | 257         | 514  | 8,4          | 16          | 14              | 226           | 400               |            |        |             |
|              |                     |                 | 4 bars              | 238         | 476  | 7,0          | 13          | 11              | 174           | 300               |            |        |             |
|              | MTS 05 XT 081       | 081             | 6,2 bars            | 130         | 260  | 22           | 41          | 36              | 299           | 500               | 113        | 36,5   | 0,7         |
|              |                     |                 | 5 bars              | 120         | 240  | 18           | 34          | 30              | 226           | 400               |            |        |             |
|              |                     |                 | 4 bars              | 111         | 222  | 15           | 28          | 25              | 174           | 300               |            |        |             |
|              | MTS 05 RV           |                 |                     |             |      |              |             |                 |               |                   |            |        |             |
|              | MTS 05 RV 004       | 004             | 6,2 bars            | 2353        | 4706 | 1,2          | 2,0         | 1,3             | 294           | 500               | 113        | 36,5   | 0,7         |
|              |                     |                 | 5 bars              | 2199        | 4397 | 1,0          | 1,7         | 1,0             | 226           | 400               |            |        |             |
|              |                     |                 | 4 bars              | 2044        | 4089 | 0,8          | 1,3         | 0,8             | 173           | 300               |            |        |             |
|              | MTS 05 RV 009       | 009             | 6,2 bars            | 1098        | 2196 | 2,6          | 4,3         | 2,7             | 294           | 500               | 113        | 36,5   | 0,7         |
|              |                     |                 | 5 bars              | 1026        | 2052 | 2,1          | 3,6         | 2,2             | 226           | 400               |            |        |             |
|              |                     |                 | 4 bars              | 954         | 1908 | 1,7          | 2,9         | 1,8             | 173           | 300               |            |        |             |
|              | MTS 05 RV 018       | 018             | 6,2 bars            | 560         | 1120 | 5,0          | 8,5         | 5,3             | 294           | 500               | 113        | 36,5   | 0,7         |
|              |                     |                 | 5 bars              | 523         | 1047 | 4,1          | 7,0         | 4,3             | 226           | 400               |            |        |             |
|              |                     |                 | 4 bars              | 487         | 973  | 3,4          | 5,7         | 3,5             | 173           | 300               |            |        |             |
|              | MTS 05 RV 038       | 038             | 6,2 bars            | 261         | 523  | 11           | 18          | 11              | 294           | 500               | 113        | 36,5   | 0,7         |
|              |                     |                 | 5 bars              | 244         | 489  | 8,8          | 15          | 9,3             | 226           | 400               |            |        |             |
|              |                     |                 | 4 bars              | 227         | 454  | 7,3          | 12          | 7,5             | 173           | 300               |            |        |             |
|              | MTS 05 RV 081       | 081             | 6,2 bars            | 122         | 244  | 23           | 39          | 24              | 294           | 500               | 113        | 36,5   | 0,7         |
|              |                     |                 | 5 bars              | 114         | 228  | 19           | 32          | 20              | 226           | 400               |            |        |             |
|              |                     |                 | 4 bars              | 106         | 212  | 16           | 26          | 16              | 173           | 300               |            |        |             |

For connection and lubrication, see page 27

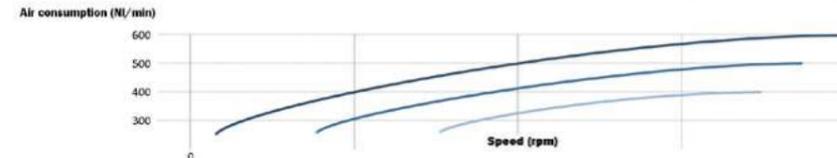
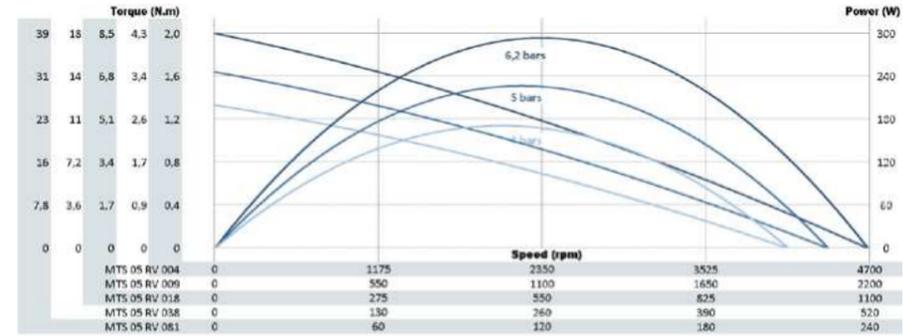
Data indicated in this table have an accuracy of +/- 5%

### POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS

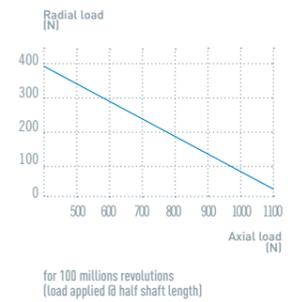
MTS 05 XT



MTS 05 RV



### MAXIMUM RADIAL & AXIAL LOAD

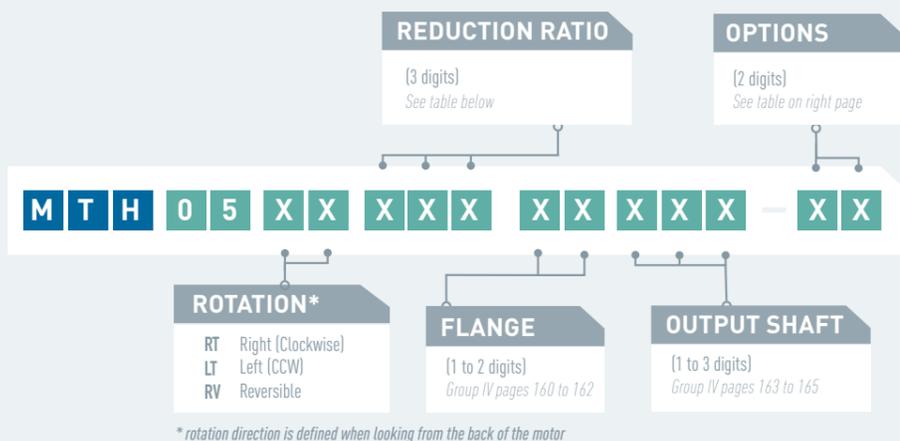


### NOTES

# MOTOR MTH 05

## POWER 270 W

MTH 05



### OPTIONS AVAILABLE FOR THIS MOTOR

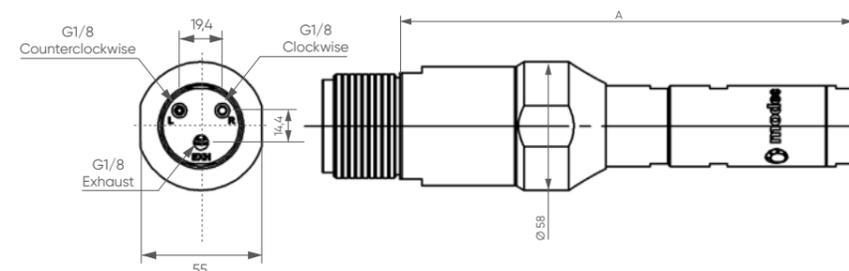
+ List of available accessories for this motor page 27

|                    |                          |                          |                          |                          |                          |                          |
|--------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Collected exhaust* | <input type="checkbox"/> |
| ATEX certification | <input type="checkbox"/> |
| Lubrication free   | <input type="checkbox"/> |
| Kit start          | <input type="checkbox"/> |
| Code               | 01                       | 07                       | 09                       | 10                       | 21                       | 22                       |

\* Exhaust is always collected on "05" series air motors

### LAYOUT

MTH 05



PERFORMANCES

| MTH 05 XT     | Air motor reference | Reduction ratio | Air supply pressure | Speed (rpm) |      | Torque (N.m) |             |                 | Max Power (W) | Air cons (NI/min) | Dimensions |        |             |
|---------------|---------------------|-----------------|---------------------|-------------|------|--------------|-------------|-----------------|---------------|-------------------|------------|--------|-------------|
|               |                     |                 |                     | @ max Power | Free | @ max Power  | Max (stall) | Starting torque |               |                   | A (mm)     | Ø (mm) | Weight (kg) |
| MTH 05 XT 085 |                     | 85              | 6,2 bars            | 121         | 245  | 21           | 40          | 35              | 271           | 500               | 206,3      | 58     | 2,0         |
|               |                     |                 | 5 bars              | 115         | 232  | 18           | 32          | 28              | 217           | 400               |            |        |             |
|               |                     |                 | 4 bars              | 108         | 219  | 16           | 26          | 23              | 177           | 300               |            |        |             |
| MTH 05 XT 101 |                     | 101             | 6,2 bars            | 101         | 205  | 26           | 48          | 42              | 271           | 500               | 206,3      | 58     | 2,0         |
|               |                     |                 | 5 bars              | 96          | 194  | 22           | 39          | 34              | 217           | 400               |            |        |             |
|               |                     |                 | 4 bars              | 90          | 183  | 19           | 31          | 28              | 177           | 300               |            |        |             |
| MTH 05 XT 129 |                     | 129             | 6,2 bars            | 79          | 161  | 33           | 61          | 54              | 271           | 500               | 206,3      | 58     | 2,0         |
|               |                     |                 | 5 bars              | 75          | 152  | 28           | 49          | 43              | 217           | 400               |            |        |             |
|               |                     |                 | 4 bars              | 71          | 144  | 24           | 40          | 35              | 177           | 300               |            |        |             |
| MTH 05 XT 181 |                     | 181             | 6,2 bars            | 57          | 115  | 46           | 86          | 76              | 271           | 500               | 206,3      | 58     | 2,0         |
|               |                     |                 | 5 bars              | 53          | 108  | 39           | 69          | 61              | 217           | 400               |            |        |             |
|               |                     |                 | 4 bars              | 50          | 102  | 34           | 56          | 50              | 177           | 300               |            |        |             |
| MTH 05 XT 217 |                     | 217             | 6,2 bars            | 47          | 96   | 55           | 103         | 91              | 271           | 500               | 206,3      | 58     | 2,0         |
|               |                     |                 | 5 bars              | 45          | 91   | 46           | 83          | 73              | 217           | 400               |            |        |             |
|               |                     |                 | 4 bars              | 42          | 85   | 40           | 67          | 59              | 177           | 300               |            |        |             |
| MTH 05 XT 277 |                     | 277             | 6,2 bars            | 37          | 75   | 70           | 131         | 115             | 271           | 500               | 206,3      | 58     | 2,0         |
|               |                     |                 | 5 bars              | 35          | 71   | 59           | 106         | 93              | 217           | 400               |            |        |             |
|               |                     |                 | 4 bars              | 33          | 67   | 51           | 86          | 76              | 177           | 300               |            |        |             |

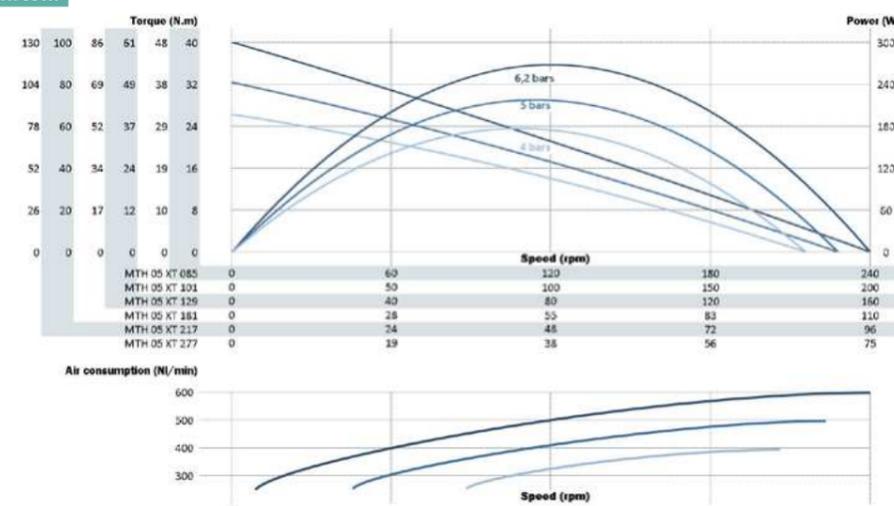
| MTH 05 RV     | Air motor reference | Reduction ratio | Air supply pressure | Speed (rpm) |      | Torque (N.m) |             |                 | Max Power (W) | Air cons (NI/min) | Dimensions |        |             |
|---------------|---------------------|-----------------|---------------------|-------------|------|--------------|-------------|-----------------|---------------|-------------------|------------|--------|-------------|
|               |                     |                 |                     | @ max Power | Free | @ max Power  | Max (stall) | Starting torque |               |                   | A (mm)     | Ø (mm) | Weight (kg) |
| MTH 05 RV 085 |                     | 85              | 6,2 bars            | 115         | 226  | 22           | 38          | 24              | 268           | 500               | 206,3      | 58     | 2,0         |
|               |                     |                 | 5 bars              | 108         | 216  | 19           | 30          | 19              | 214           | 400               |            |        |             |
|               |                     |                 | 4 bars              | 105         | 208  | 16           | 25          | 15              | 174           | 300               |            |        |             |
| MTH 05 RV 101 |                     | 101             | 6,2 bars            | 96          | 188  | 27           | 46          | 28              | 268           | 500               | 206,3      | 58     | 2,0         |
|               |                     |                 | 5 bars              | 90          | 180  | 23           | 36          | 23              | 214           | 400               |            |        |             |
|               |                     |                 | 4 bars              | 87          | 173  | 19           | 30          | 18              | 174           | 300               |            |        |             |
| MTH 05 RV 129 |                     | 129             | 6,2 bars            | 75          | 148  | 34           | 58          | 36              | 268           | 500               | 206,3      | 58     | 2,0         |
|               |                     |                 | 5 bars              | 71          | 141  | 29           | 46          | 29              | 214           | 400               |            |        |             |
|               |                     |                 | 4 bars              | 69          | 136  | 24           | 38          | 23              | 174           | 300               |            |        |             |
| MTH 05 RV 181 |                     | 181             | 6,2 bars            | 53          | 105  | 48           | 82          | 51              | 268           | 500               | 206,3      | 58     | 2,0         |
|               |                     |                 | 5 bars              | 50          | 101  | 41           | 65          | 40              | 214           | 400               |            |        |             |
|               |                     |                 | 4 bars              | 49          | 97   | 34           | 53          | 33              | 174           | 300               |            |        |             |
| MTH 05 RV 217 |                     | 217             | 6,2 bars            | 45          | 88   | 57           | 98          | 61              | 268           | 500               | 206,3      | 58     | 2,0         |
|               |                     |                 | 5 bars              | 42          | 84   | 49           | 78          | 48              | 214           | 400               |            |        |             |
|               |                     |                 | 4 bars              | 41          | 81   | 41           | 63          | 39              | 174           | 300               |            |        |             |
| MTH 05 RV 277 |                     | 277             | 6,2 bars            | 35          | 69   | 73           | 125         | 77              | 268           | 500               | 206,3      | 58     | 2,0         |
|               |                     |                 | 5 bars              | 33          | 66   | 62           | 99          | 62              | 214           | 400               |            |        |             |
|               |                     |                 | 4 bars              | 32          | 64   | 52           | 81          | 50              | 174           | 300               |            |        |             |

Data indicated in this table have an accuracy of +/- 5%

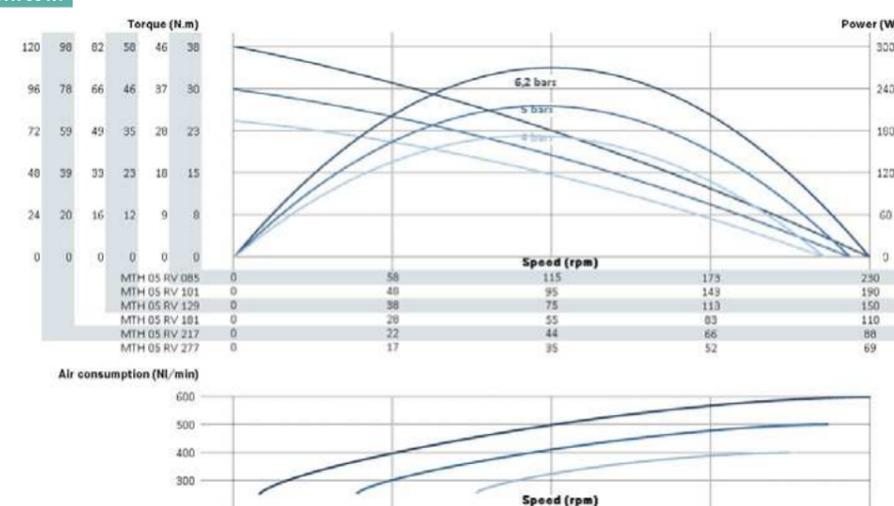
For connection and lubrication, see page 27

### POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS

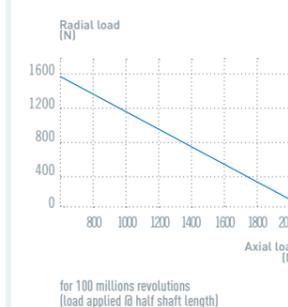
MTH 05 XT



MTH 05 RV



### MAXIMUM RADIAL & AXIAL LOAD



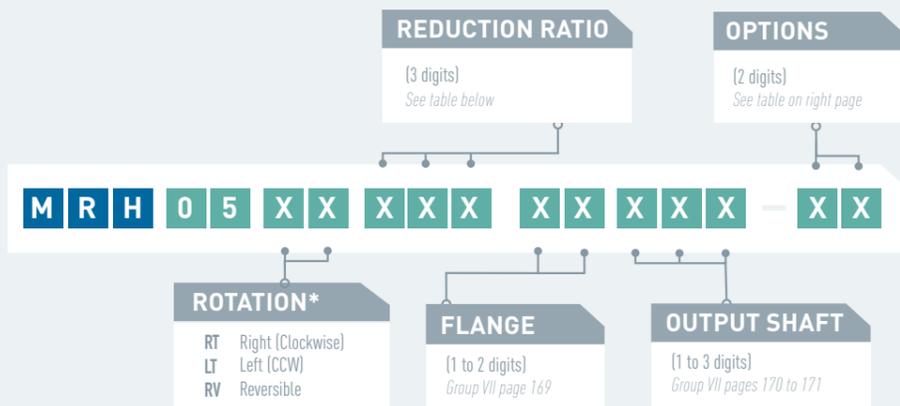
### NOTES

Notes section with horizontal lines for text entry.

# MOTOR MRH 05

## POWER 270 W

MRH 05



\* rotation direction is defined when looking from the back of the motor

### OPTIONS AVAILABLE FOR THIS MOTOR

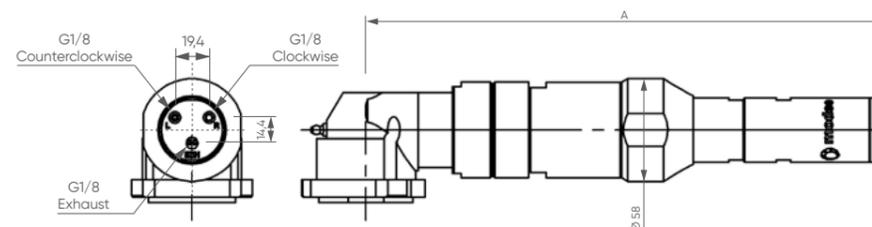
+ List of available accessories for this motor page 27

|                    |                          |                          |                          |                          |                          |                          |
|--------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Collected exhaust* | <input type="checkbox"/> |
| ATEX certification | <input type="checkbox"/> |
| Lubrication free   | <input type="checkbox"/> |
| Kit start          | <input type="checkbox"/> |
| Code               | 01                       | 07                       | 09                       | 10                       | 21                       | 22                       |

\* Exhaust is always collected on "05" series air motors

### LAYOUT

MRH 05



### PERFORMANCES

| MRH 05 XT     | Air motor reference | Reduction ratio | Air supply pressure | Speed (rpm) |      | Torque (N.m) |             |                 | Max Power (W) | Air cons (Nl/min) | Dimensions |        |             |
|---------------|---------------------|-----------------|---------------------|-------------|------|--------------|-------------|-----------------|---------------|-------------------|------------|--------|-------------|
|               |                     |                 |                     | @ max Power | Free | @ max Power  | Max (stall) | Starting torque |               |                   | A (mm)     | Ø (mm) | Weight (kg) |
| MRH 05 XT 108 |                     | 108             | 6,2 bars            | 95          | 193  | 27           | 51          | 45              | 271           | 500               | 271,3      | 58     | 2,6         |
|               |                     |                 | 5 bars              | 90          | 183  | 23           | 41          | 36              | 217           | 400               |            |        |             |
|               |                     |                 | 4 bars              | 85          | 172  | 20           | 33          | 29              | 177           | 300               |            |        |             |
| MRH 05 XT 135 |                     | 135             | 6,2 bars            | 76          | 154  | 34           | 64          | 56              | 271           | 500               | 295,3      | 58     | 2,9         |
|               |                     |                 | 5 bars              | 72          | 146  | 29           | 52          | 45              | 217           | 400               |            |        |             |
|               |                     |                 | 4 bars              | 68          | 138  | 25           | 42          | 37              | 177           | 300               |            |        |             |
| MRH 05 XT 172 |                     | 172             | 6,2 bars            | 60          | 121  | 43           | 81          | 72              | 271           | 500               | 295,3      | 58     | 2,9         |
|               |                     |                 | 5 bars              | 56          | 114  | 37           | 66          | 58              | 217           | 400               |            |        |             |
|               |                     |                 | 4 bars              | 53          | 108  | 32           | 53          | 47              | 177           | 300               |            |        |             |
| MRH 05 XT 241 |                     | 241             | 6,2 bars            | 42          | 86   | 61           | 114         | 100             | 271           | 500               | 295,3      | 58     | 2,9         |
|               |                     |                 | 5 bars              | 40          | 82   | 52           | 92          | 81              | 217           | 400               |            |        |             |
|               |                     |                 | 4 bars              | 38          | 77   | 45           | 75          | 66              | 177           | 300               |            |        |             |
| MRH 05 XT 289 |                     | 289             | 6,2 bars            | 35          | 72   | 73           | 137         | 120             | 271           | 500               | 295,3      | 58     | 2,9         |
|               |                     |                 | 5 bars              | 34          | 68   | 62           | 111         | 97              | 217           | 400               |            |        |             |
|               |                     |                 | 4 bars              | 32          | 64   | 54           | 90          | 79              | 177           | 300               |            |        |             |

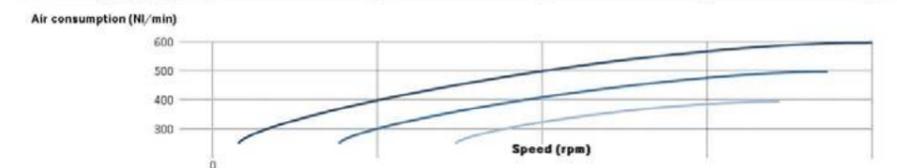
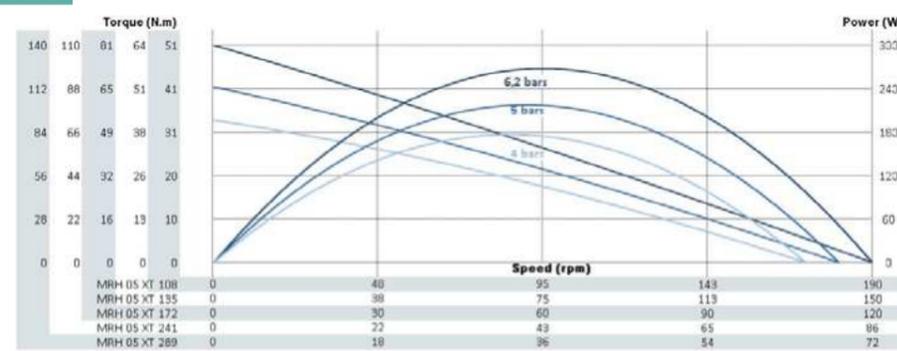
| MRH 05 RV     | Air motor reference | Reduction ratio | Air supply pressure | Speed (rpm) |      | Torque (N.m) |             |                 | Max Power (W) | Air cons (Nl/min) | Dimensions |        |             |
|---------------|---------------------|-----------------|---------------------|-------------|------|--------------|-------------|-----------------|---------------|-------------------|------------|--------|-------------|
|               |                     |                 |                     | @ max Power | Free | @ max Power  | Max (stall) | Starting torque |               |                   | A (mm)     | Ø (mm) | Weight (kg) |
| MRH 05 RV 108 |                     | 108             | 6,2 bars            | 90          | 177  | 28           | 48          | 30              | 268           | 500               | 271,3      | 58     | 2,6         |
|               |                     |                 | 5 bars              | 85          | 170  | 24           | 39          | 24              | 214           | 400               |            |        |             |
|               |                     |                 | 4 bars              | 82          | 163  | 20           | 31          | 19              | 174           | 300               |            |        |             |
| MRH 05 RV 135 |                     | 135             | 6,2 bars            | 72          | 142  | 36           | 61          | 38              | 268           | 500               | 295,3      | 58     | 2,9         |
|               |                     |                 | 5 bars              | 68          | 136  | 30           | 48          | 30              | 214           | 400               |            |        |             |
|               |                     |                 | 4 bars              | 66          | 130  | 25           | 39          | 24              | 174           | 300               |            |        |             |
| MRH 05 RV 172 |                     | 172             | 6,2 bars            | 56          | 111  | 45           | 77          | 48              | 268           | 500               | 295,3      | 58     | 2,9         |
|               |                     |                 | 5 bars              | 53          | 106  | 38           | 62          | 38              | 214           | 400               |            |        |             |
|               |                     |                 | 4 bars              | 52          | 102  | 32           | 50          | 31              | 174           | 300               |            |        |             |
| MRH 05 RV 241 |                     | 241             | 6,2 bars            | 40          | 79   | 64           | 109         | 67              | 268           | 500               | 295,3      | 58     | 2,9         |
|               |                     |                 | 5 bars              | 38          | 76   | 54           | 86          | 54              | 214           | 400               |            |        |             |
|               |                     |                 | 4 bars              | 37          | 73   | 45           | 70          | 44              | 174           | 300               |            |        |             |
| MRH 05 RV 289 |                     | 289             | 6,2 bars            | 34          | 66   | 76           | 130         | 81              | 268           | 500               | 295,3      | 58     | 2,9         |
|               |                     |                 | 5 bars              | 32          | 63   | 65           | 104         | 64              | 214           | 400               |            |        |             |
|               |                     |                 | 4 bars              | 31          | 61   | 54           | 84          | 52              | 174           | 300               |            |        |             |

Data indicated in this table have an accuracy of +/- 5%

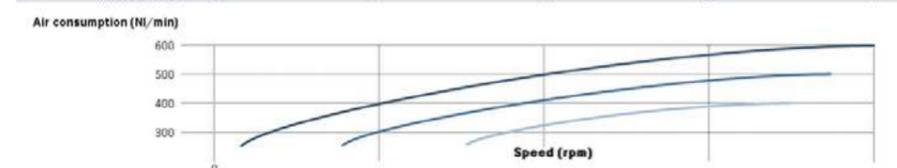
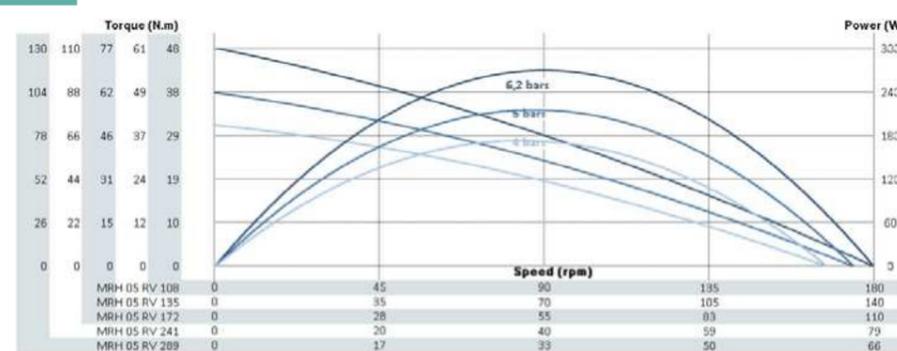
For connection and lubrication, see page 27

### POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS

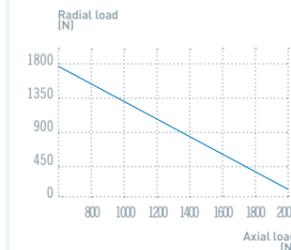
MRH 05 XT



MRH 05 RV



### MAXIMUM RADIAL & AXIAL LOAD



for 100 millions revolutions (load applied @ half shaft length)

### NOTES

Notes section with horizontal lines for text entry.

# MOTOR MRZ 05

POWER 270 W

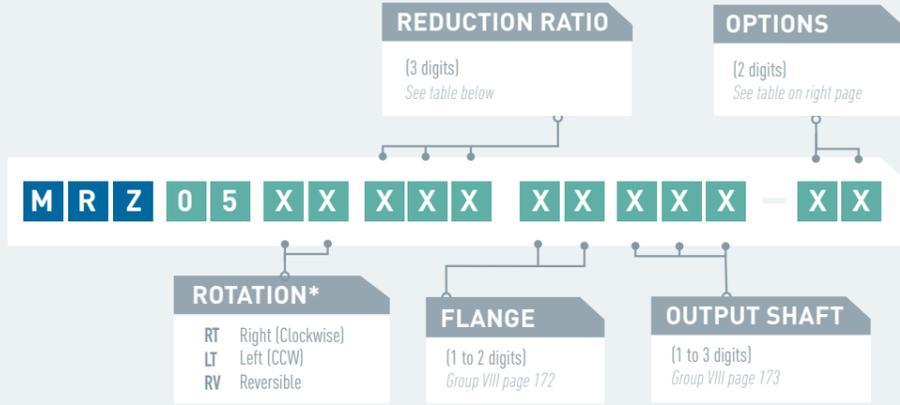
### OPTIONS AVAILABLE FOR THIS MOTOR

+ List of available accessories for this motor page 27

|                    |                          |                          |                          |                          |                          |                          |
|--------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Collected exhaust* | <input type="checkbox"/> |
| ATEX certification | <input type="checkbox"/> |
| Lubrication free   | <input type="checkbox"/> |
| Kit start          | <input type="checkbox"/> |
| Code               | 01                       | 07                       | 09                       | 10                       | 21                       | 22                       |

\* Exhaust is always collected on "05" series air motors

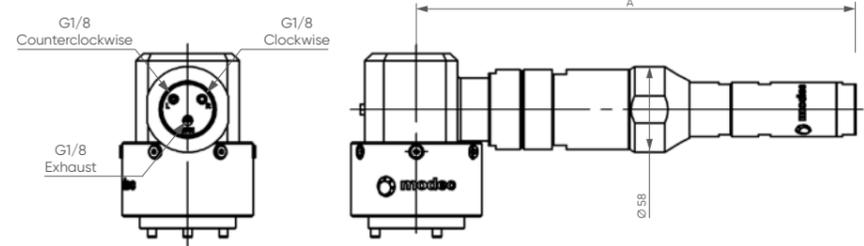
MRZ 05



\* rotation direction is defined when looking from the back of the motor

### LAYOUT

MRZ 05



PERFORMANCES

| MRZ 05 XT     | Air motor reference | Reduction ratio | Air supply pressure | Speed (rpm) |      | Torque (N.m) |             |                 | Max Power (W) | Air cons (Nl/min) | Dimensions |        |             |
|---------------|---------------------|-----------------|---------------------|-------------|------|--------------|-------------|-----------------|---------------|-------------------|------------|--------|-------------|
|               |                     |                 |                     | @ max Power | Free | @ max Power  | Max (stall) | Starting torque |               |                   | A (mm)     | Ø (mm) | Weight (kg) |
| MRZ 05 XT 369 | 369                 | 6,2 bars        | 28                  | 56          | 93   | 174          | 153         | 271             | 500           | 271,3             | 58         | 4,4    |             |
|               |                     |                 | 26                  | 53          | 79   | 141          | 123         | 217             | 400           |                   |            |        |             |
|               |                     |                 | 25                  | 50          | 68   | 114          | 101         | 177             | 300           |                   |            |        |             |
| MRZ 05 XT 421 | 421                 | 6,2 bars        | 24                  | 49          | 106  | 199          | 175         | 271             | 500           | 295,3             | 58         | 4,4    |             |
|               |                     |                 | 23                  | 47          | 90   | 161          | 141         | 217             | 400           |                   |            |        |             |
|               |                     |                 | 22                  | 44          | 78   | 131          | 115         | 177             | 300           |                   |            |        |             |
| MRZ 05 XT 505 | 505                 | 6,2 bars        | 20                  | 41          | 127  | 239          | 210         | 271             | 500           | 295,3             | 58         | 4,4    |             |
|               |                     |                 | 19                  | 39          | 108  | 193          | 169         | 217             | 400           |                   |            |        |             |
|               |                     |                 | 18                  | 37          | 93   | 157          | 138         | 177             | 300           |                   |            |        |             |
| MRZ 05 XT 643 | 643                 | 6,2 bars        | 16                  | 32          | 162  | 304          | 268         | 271             | 500           | 295,3             | 58         | 4,4    |             |
|               |                     |                 | 15                  | 31          | 137  | 246          | 215         | 217             | 400           |                   |            |        |             |
|               |                     |                 | 14                  | 29          | 119  | 200          | 176         | 177             | 300           |                   |            |        |             |
| MRZ 05 XT 790 | 790                 | 6,2 bars        | 13                  | 26          | 199  | 374          | 329         | 271             | 500           | 271,3             | 58         | 4,4    |             |
|               |                     |                 | 12                  | 25          | 169  | 302          | 265         | 217             | 400           |                   |            |        |             |
|               |                     |                 | 12                  | 24          | 146  | 245          | 216         | 177             | 300           |                   |            |        |             |

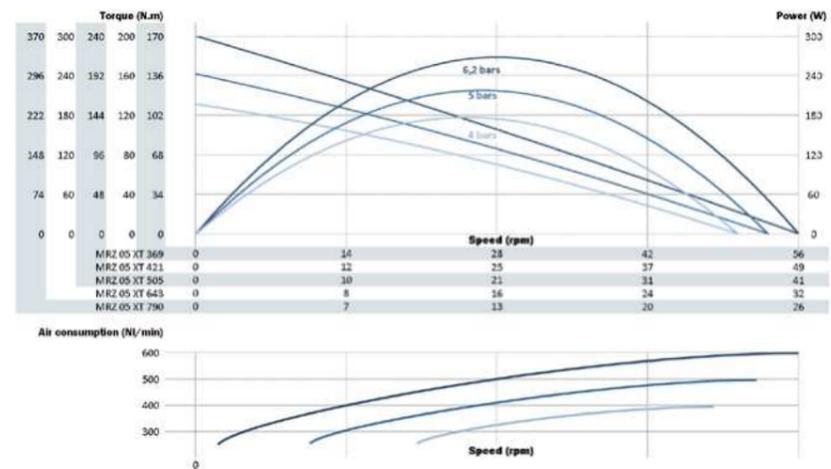
| MRZ 05 RV     | Air motor reference | Reduction ratio | Air supply pressure | Speed (rpm) |      | Torque (N.m) |             |                 | Max Power (W) | Air cons (Nl/min) | Dimensions |        |             |
|---------------|---------------------|-----------------|---------------------|-------------|------|--------------|-------------|-----------------|---------------|-------------------|------------|--------|-------------|
|               |                     |                 |                     | @ max Power | Free | @ max Power  | Max (stall) | Starting torque |               |                   | A (mm)     | Ø (mm) | Weight (kg) |
| MRZ 05 RV 369 | 369                 | 6,2 bars        | 26                  | 52          | 97   | 166          | 103         | 268             | 500           | 271,3             | 58         | 4,4    |             |
|               |                     |                 | 25                  | 50          | 82   | 132          | 82          | 214             | 400           |                   |            |        |             |
|               |                     |                 | 24                  | 48          | 69   | 107          | 67          | 174             | 300           |                   |            |        |             |
| MRZ 05 RV 421 | 421                 | 6,2 bars        | 23                  | 45          | 111  | 190          | 118         | 268             | 500           | 295,3             | 58         | 4,4    |             |
|               |                     |                 | 22                  | 43          | 94   | 151          | 94          | 214             | 400           |                   |            |        |             |
|               |                     |                 | 21                  | 42          | 79   | 123          | 76          | 174             | 300           |                   |            |        |             |
| MRZ 05 RV 505 | 505                 | 6,2 bars        | 19                  | 38          | 133  | 227          | 141         | 268             | 500           | 295,3             | 58         | 4,4    |             |
|               |                     |                 | 18                  | 36          | 113  | 181          | 112         | 214             | 400           |                   |            |        |             |
|               |                     |                 | 18                  | 35          | 95   | 147          | 91          | 174             | 300           |                   |            |        |             |
| MRZ 05 RV 643 | 643                 | 6,2 bars        | 15                  | 30          | 169  | 290          | 180         | 268             | 500           | 295,3             | 58         | 4,4    |             |
|               |                     |                 | 14                  | 28          | 144  | 230          | 143         | 214             | 400           |                   |            |        |             |
|               |                     |                 | 14                  | 27          | 121  | 187          | 116         | 174             | 300           |                   |            |        |             |
| MRZ 05 RV 790 | 790                 | 6,2 bars        | 12                  | 24          | 208  | 355          | 220         | 268             | 500           | 271,3             | 58         | 4,4    |             |
|               |                     |                 | 12                  | 23          | 177  | 283          | 175         | 214             | 400           |                   |            |        |             |
|               |                     |                 | 11                  | 22          | 148  | 230          | 143         | 174             | 300           |                   |            |        |             |

For connection and lubrication, see page 27

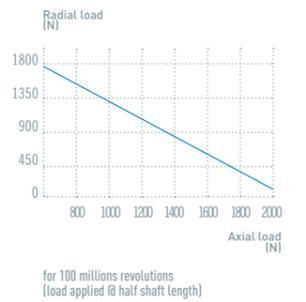
Data indicated in this table have an accuracy of +/- 5%

### POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS

MRZ 05 XT

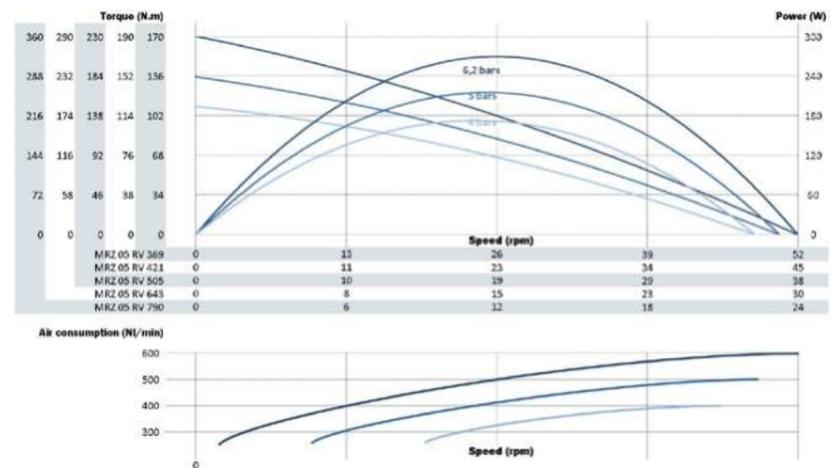


### MAXIMUM RADIAL & AXIAL LOAD



### NOTES

MRZ 05 RV

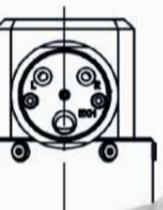


MAX POWER  
**480 W**  
MAX TORQUE  
**640 Nm**

"07" series air motors are **much appreciated in pharmacy, chemistry and food processing industries**. Sealed and **made of stainless steel**, they are **waterproof, resistant to corrosive products** and their exhaust is collected so that there is **no risk of pollution**.

Like any of our air motors, "07" series air motors **can be used without lubrication** on demand in order to reduce even more any risk of oil exhaust.

Although they have a minimal size and weight, they **can develop up to 480W**.



| + ACCESSORIES FOR THIS MOTOR                               | Reference | Information |
|--|-----------|-------------|
| Filtration, pressure Regulation and Lubrication unit (FRL) | AC106     | Page 177    |
| Safety Air Treatment Box (SAT Box)                         | AC118     | Page 178    |
| With Pedal remote control                                  | AC119     | Page 178    |
| With handle remote control                                 | AC120     | Page 178    |
| With remote emergency kill switch                          | AC125     | Page 178    |
| With remote E-Stop and pedal remote control                | AC121     | Page 178    |
| With remote E-Stop and handle remote control               | AC122     | Page 178    |
| Maintenance kits   |           |             |
| Maintenance kit for "07" series                            | AC301     | Page 181    |
| Maintenance kit for lube free "07" series                  | AC311     | Page 181    |
| Maintenance kit for kit start "07" series                  | AC321     | Page 181    |
| modec Oil Co-16  | AC149     | Page 178    |
| Filters and silencers                                      |           |             |
| Metallic standard exhaust silencer                         | AC168     | Page 179    |
| Metallic standard inlet silencer                           | AC180     | Page 179    |
| Plastic standard exhaust silencer                          | AC166     | Page 180    |
| Plastic standard inlet silencer                            | AC150     | Page 180    |
| Heavy duty exhaust silencer                                | AC167     | Page 180    |
| Heavy duty inlet silencer                                  | AC154     | Page 180    |
| Speed control muffler                                      | AC171     | Page 181    |
| High flow air muffler                                      | AC158     | Page 180    |
| Exhaust silencer filter                                    | AC165     | Page 180    |

**CONNECTION AND LUBRICATION**

|   | Min. fittings Ø |               | Min. pipe Ø   |               | Lubrication (6,2 bars) |
|---|-----------------|---------------|---------------|---------------|------------------------|
|   | In              | Out           | In            | Out           |                        |
|  | 5 mm / 0,2 In   | 7 mm / 0,3 In | 6 mm / 0,2 In | 9 mm / 0,4 In | 3 drops / minute       |

**CONVERSION TABLE**

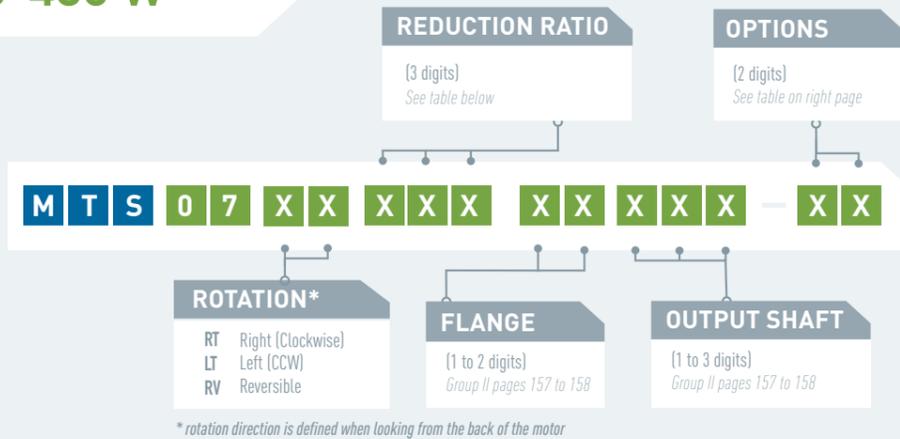
|                             |   |                   |
|-----------------------------|---|-------------------|
| Watt ► Horse power          | Newton meter ► Pound feet                             | Millimeter ► Inch |
| Watt x 0,001341 = hp        | Nm x 0,7376 = lb.ft                                   | mm x 0,03937 = in |
| Bar ► Pound per square Inch | Normo Liter / minute ► Standard cubic feet per minute | Kilogram ► Pound  |
| Bar x 14,5 = psi            | NL / min x 0,03531 = scfm                             | Kg x 2,205 = lb   |



# MOTOR MTS 07

## POWER 380-480 W

MTS 07



PERFORMANCES

| Air motor reference | Reduction ratio | Air supply pressure | Speed (rpm) |      | Torque (N.m) |             |                 | Max Power (W) | Air cons (NI/min) | Dimensions |        |             |
|---------------------|-----------------|---------------------|-------------|------|--------------|-------------|-----------------|---------------|-------------------|------------|--------|-------------|
|                     |                 |                     | @ max Power | Free | @ max Power  | Max (stall) | Starting torque |               |                   | A (mm)     | Ø (mm) | Weight (kg) |
| MTS 07 XT 003       | 3               | 6,2 bars            | 2453        | 4907 | 1,9          | 3,5         | 3,0             | 477           | 700               | 132        | 45     | 1,4         |
|                     |                 | 5 bars              | 2259        | 4519 | 1,6          | 2,9         | 2,5             | 378           | 600               |            |        |             |
|                     |                 | 4 bars              | 2075        | 4150 | 1,3          | 2,3         | 2,0             | 291           | 500               |            |        |             |
| MTS 07 XT 005       | 5               | 6,2 bars            | 1799        | 3598 | 2,5          | 4,7         | 4,1             | 477           | 700               | 132        | 45     | 1,4         |
|                     |                 | 5 bars              | 1657        | 3314 | 2,2          | 3,9         | 3,5             | 378           | 600               |            |        |             |
|                     |                 | 4 bars              | 1522        | 3044 | 1,8          | 3,2         | 2,8             | 291           | 500               |            |        |             |
| MTS 07 XT 008       | 8               | 6,2 bars            | 1012        | 2024 | 4,5          | 8,4         | 7,4             | 477           | 700               | 132        | 45     | 1,4         |
|                     |                 | 5 bars              | 932         | 1864 | 3,9          | 7,0         | 6,2             | 378           | 600               |            |        |             |
|                     |                 | 4 bars              | 856         | 1712 | 3,3          | 5,6         | 5,0             | 291           | 500               |            |        |             |
| MTS 07 XT 011       | 11              | 6,2 bars            | 743         | 1487 | 6,1          | 11          | 10              | 477           | 700               | 149,7      | 45     | 1,6         |
|                     |                 | 5 bars              | 685         | 1369 | 5,3          | 9,5         | 8,4             | 378           | 600               |            |        |             |
|                     |                 | 4 bars              | 629         | 1258 | 4,4          | 7,7         | 6,7             | 291           | 500               |            |        |             |
| MTS 07 XT 015       | 15              | 6,2 bars            | 545         | 1090 | 8,4          | 16          | 14              | 477           | 700               | 149,7      | 45     | 1,6         |
|                     |                 | 5 bars              | 502         | 1004 | 7,2          | 13          | 11              | 378           | 600               |            |        |             |
|                     |                 | 4 bars              | 461         | 922  | 6,0          | 10          | 9,2             | 291           | 500               |            |        |             |
| MTS 07 XT 020       | 20              | 6,2 bars            | 400         | 800  | 11           | 21          | 19              | 477           | 700               | 149,7      | 45     | 1,6         |
|                     |                 | 5 bars              | 368         | 736  | 9,8          | 18          | 16              | 378           | 600               |            |        |             |
|                     |                 | 4 bars              | 338         | 676  | 8,2          | 14          | 13              | 291           | 500               |            |        |             |
| MTS 07 XT 026       | 26              | 6,2 bars            | 307         | 613  | 15           | 28          | 24              | 477           | 700               | 149,7      | 45     | 1,6         |
|                     |                 | 5 bars              | 282         | 565  | 13           | 23          | 20              | 378           | 600               |            |        |             |
|                     |                 | 4 bars              | 259         | 519  | 11           | 19          | 16              | 291           | 500               |            |        |             |
| MTS 07 XT 036       | 36              | 6,2 bars            | 225         | 450  | 20           | 38          | 33              | 477           | 700               | 149,7      | 45     | 1,6         |
|                     |                 | 5 bars              | 207         | 414  | 17           | 32          | 28              | 378           | 600               |            |        |             |
|                     |                 | 4 bars              | 190         | 380  | 15           | 25          | 22              | 291           | 500               |            |        |             |
| MTS 07 XT 049       | 49              | 6,2 bars            | 165         | 330  | 28           | 51          | 45              | 477           | 700               | 170,7      | 45     | 1,7         |
|                     |                 | 5 bars              | 152         | 304  | 24           | 43          | 38              | 378           | 600               |            |        |             |
|                     |                 | 4 bars              | 140         | 279  | 20           | 34          | 30              | 291           | 500               |            |        |             |
| MTS 07 XT 064       | 64              | 6,2 bars            | 127         | 253  | 36           | 67          | 59              | 477           | 700               | 149,7      | 45     | 1,6         |
|                     |                 | 5 bars              | 117         | 233  | 31           | 56          | 49              | 378           | 600               |            |        |             |
|                     |                 | 4 bars              | 107         | 214  | 26           | 45          | 40              | 291           | 500               |            |        |             |
| MTS 07 RV           | Reduction ratio | Air supply pressure | Speed (rpm) |      | Torque (N.m) |             |                 | Max Power (W) | Air cons (NI/min) | Dimensions |        |             |
|                     |                 |                     | @ max Power | Free | @ max Power  | Max (stall) | Starting torque |               |                   | A (mm)     | Ø (mm) | Weight (kg) |
| MTS 07 RV 003       | 3               | 6,2 bars            | 2085        | 4170 | 1,8          | 3,0         | 2,7             | 383           | 700               | 132        | 45     | 1,4         |
|                     |                 | 5 bars              | 1920        | 3840 | 1,5          | 2,5         | 2,2             | 295           | 600               |            |        |             |
|                     |                 | 4 bars              | 1765        | 3530 | 1,2          | 2,0         | 1,8             | 219           | 500               |            |        |             |
| MTS 07 RV 005       | 5               | 6,2 bars            | 1529        | 3058 | 2,4          | 4,1         | 3,7             | 383           | 700               | 132        | 45     | 1,4         |
|                     |                 | 5 bars              | 1408        | 2816 | 2,0          | 3,4         | 3,0             | 295           | 600               |            |        |             |
|                     |                 | 4 bars              | 1294        | 2588 | 1,6          | 2,7         | 2,4             | 219           | 500               |            |        |             |
| MTS 07 RV 008       | 8               | 6,2 bars            | 860         | 1720 | 4,3          | 7,4         | 6,5             | 383           | 700               | 132        | 45     | 1,4         |
|                     |                 | 5 bars              | 792         | 1584 | 3,6          | 6,0         | 5,3             | 295           | 600               |            |        |             |
|                     |                 | 4 bars              | 728         | 1456 | 2,9          | 4,9         | 4,3             | 219           | 500               |            |        |             |
| MTS 07 RV 011       | 11              | 6,2 bars            | 632         | 1264 | 5,8          | 10          | 8,8             | 383           | 700               | 149,7      | 45     | 1,6         |
|                     |                 | 5 bars              | 582         | 1164 | 4,8          | 8,2         | 7,2             | 295           | 600               |            |        |             |
|                     |                 | 4 bars              | 535         | 1070 | 3,9          | 6,6         | 5,8             | 219           | 500               |            |        |             |
| MTS 07 RV 015       | 15              | 6,2 bars            | 463         | 927  | 7,9          | 14          | 12              | 383           | 700               | 149,7      | 45     | 1,6         |
|                     |                 | 5 bars              | 427         | 853  | 6,6          | 11          | 9,8             | 295           | 600               |            |        |             |
|                     |                 | 4 bars              | 392         | 784  | 5,3          | 9,0         | 8,0             | 219           | 500               |            |        |             |
| MTS 07 RV 020       | 20              | 6,2 bars            | 340         | 680  | 11           | 19          | 16              | 383           | 700               | 149,7      | 45     | 1,6         |
|                     |                 | 5 bars              | 313         | 626  | 9,0          | 15          | 13              | 295           | 600               |            |        |             |
|                     |                 | 4 bars              | 288         | 575  | 7,3          | 12          | 11              | 219           | 500               |            |        |             |
| MTS 07 RV 026       | 26              | 6,2 bars            | 261         | 521  | 14           | 24          | 21              | 383           | 700               | 149,7      | 45     | 1,6         |
|                     |                 | 5 bars              | 240         | 480  | 12           | 20          | 17              | 295           | 600               |            |        |             |
|                     |                 | 4 bars              | 221         | 441  | 9,5          | 16          | 14              | 219           | 500               |            |        |             |
| MTS 07 RV 036       | 36              | 6,2 bars            | 191         | 382  | 19           | 33          | 29              | 383           | 700               | 149,7      | 45     | 1,6         |
|                     |                 | 5 bars              | 176         | 352  | 16           | 27          | 24              | 295           | 600               |            |        |             |
|                     |                 | 4 bars              | 162         | 324  | 13           | 22          | 19              | 219           | 500               |            |        |             |
| MTS 07 RV 049       | 49              | 6,2 bars            | 140         | 281  | 26           | 45          | 40              | 383           | 700               | 170,7      | 45     | 1,7         |
|                     |                 | 5 bars              | 129         | 259  | 22           | 37          | 32              | 295           | 600               |            |        |             |
|                     |                 | 4 bars              | 119         | 238  | 18           | 30          | 26              | 219           | 500               |            |        |             |
| MTS 07 RV 064       | 64              | 6,2 bars            | 108         | 215  | 34           | 59          | 52              | 383           | 700               | 149,7      | 45     | 1,6         |
|                     |                 | 5 bars              | 99          | 198  | 28           | 48          | 42              | 295           | 600               |            |        |             |
|                     |                 | 4 bars              | 91          | 182  | 23           | 39          | 34              | 219           | 500               |            |        |             |

For connection and lubrication, see page 39

Data indicated in this table have an accuracy of +/- 5%

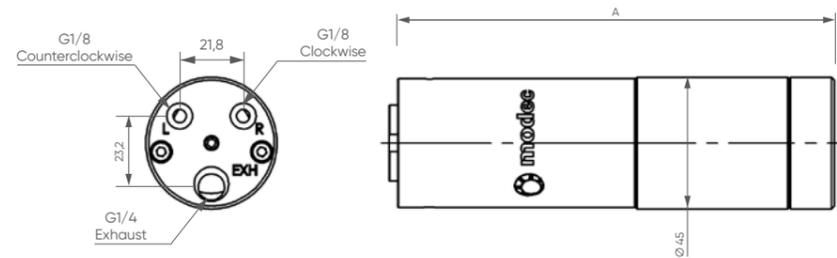
### OPTIONS AVAILABLE FOR THIS MOTOR

|                    |    |    |    |    |    |    |
|--------------------|----|----|----|----|----|----|
| Collected exhaust* | ▶  | ▶  | ▶  | ▶  | ▶  | ▶  |
| ATEX certification |    | ▶  |    |    | ▶  | ▶  |
| Lubrication free   |    |    | ▶  |    | ▶  | ▶  |
| Kit start          |    |    |    | ▶  |    | ▶  |
| Stainless steel    | ▶  | ▶  | ▶  | ▶  | ▶  | ▶  |
| Code               | 11 | 23 | 27 | 28 | 36 | 37 |

+ List of available accessories for this motor page 39

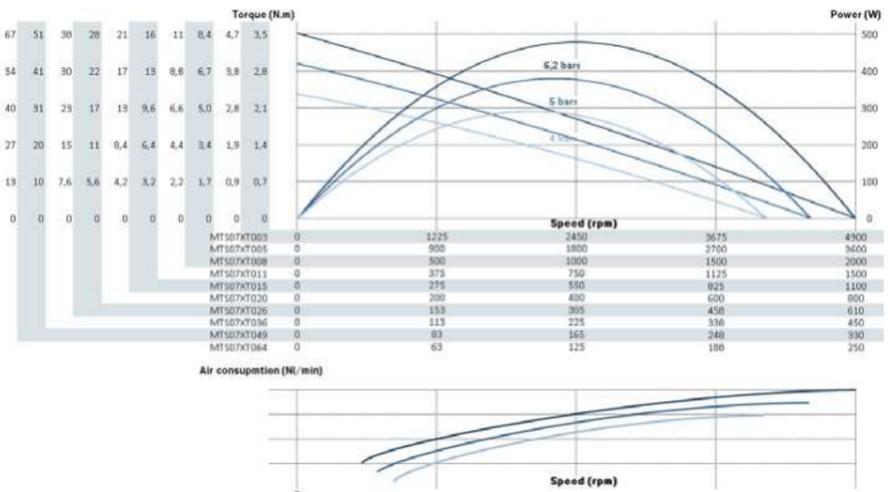
### LAYOUT

MTS 07

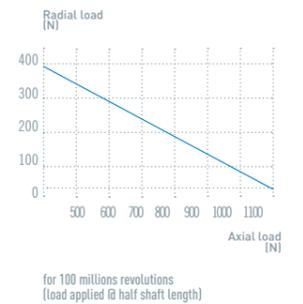


### POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS

MTS 07 XT

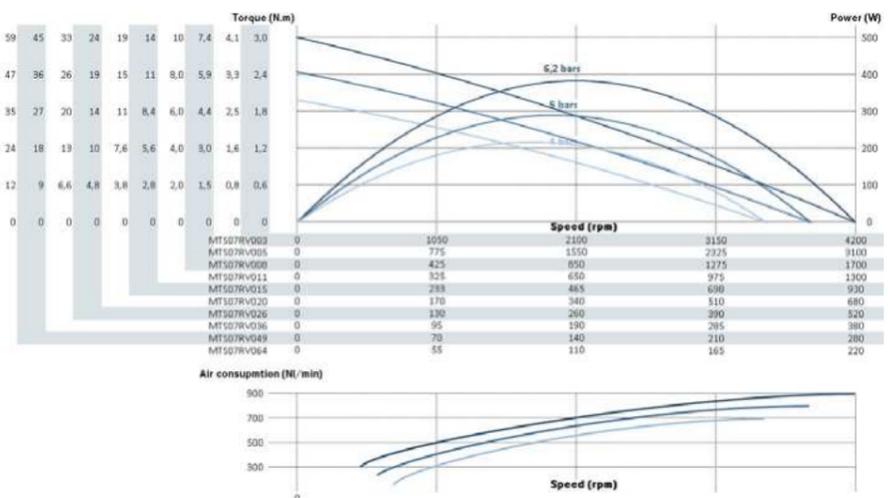


### MAXIMUM RADIAL & AXIAL LOAD



### NOTES

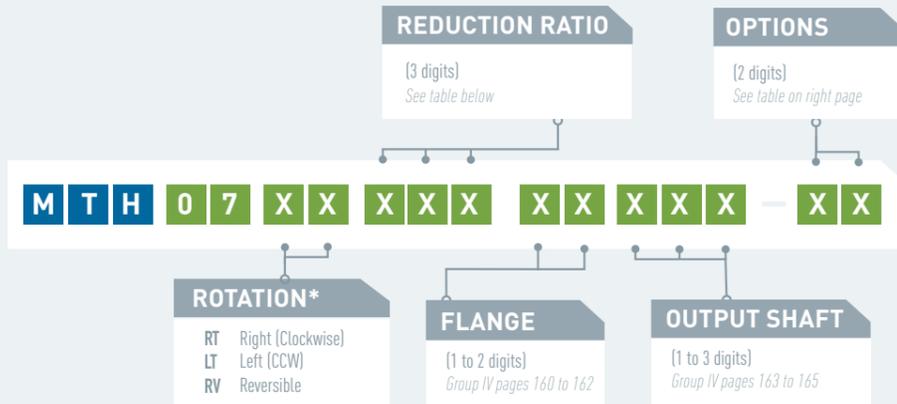
MTS 07 RV



# MOTOR MTH 07

## POWER 380-470 W

MTH 07



\* rotation direction is defined when looking from the back of the motor

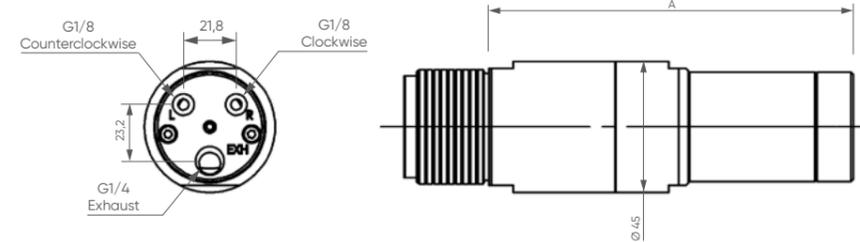
### OPTIONS AVAILABLE FOR THIS MOTOR

|                    |    |    |    |    |    |    |
|--------------------|----|----|----|----|----|----|
| Collected exhaust  | ▶  | ▶  | ▶  | ▶  | ▶  | ▶  |
| ATEX certification |    | ▶  |    |    | ▶  | ▶  |
| Lubrication free   |    |    | ▶  |    | ▶  | ▶  |
| Kit start          |    |    |    | ▶  |    | ▶  |
| Code               | 01 | 07 | 09 | 10 | 21 | 22 |

+ List of available accessories for this motor page 39

### LAYOUT

MTH 07



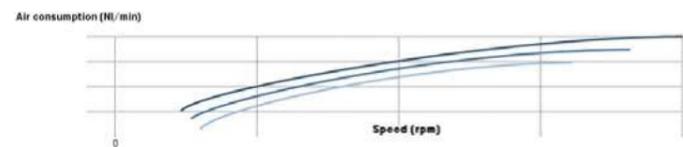
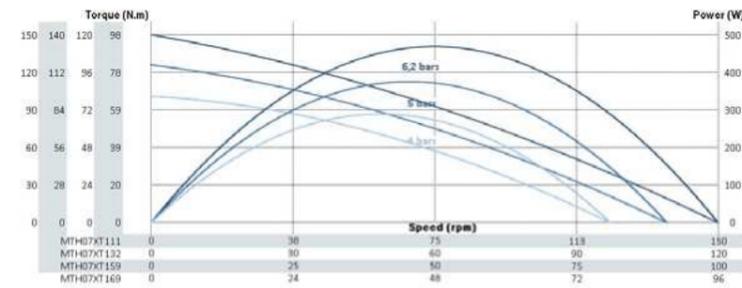
| PERFORMANCES  | MTH 07 XT           |                 |                     |             |      |              |             |                 |               |                   |            |        |             |
|---------------|---------------------|-----------------|---------------------|-------------|------|--------------|-------------|-----------------|---------------|-------------------|------------|--------|-------------|
|               | Air motor reference | Reduction ratio | Air supply pressure | Speed (rpm) |      | Torque (N.m) |             |                 | Max Power (W) | Air cons (Nl/min) | Dimensions |        |             |
|               |                     |                 |                     | @ max Power | Free | @ max Power  | Max (stall) | Starting torque |               |                   | A (mm)     | Ø (mm) | Weight (kg) |
| MTH 07 XT 111 | 111                 | 6,2 bars        | 73                  | 147         | 61   | 98           | 87          | 469             | 700           | 174,5             | 54         | 2,2    |             |
|               |                     |                 | 66                  | 133         | 53   | 83           | 73          | 369             | 600           |                   |            |        |             |
|               |                     |                 | 59                  | 119         | 46   | 66           | 58          | 284             | 500           |                   |            |        |             |
| MTH 07 XT 132 | 132                 | 6,2 bars        | 61                  | 123         | 73   | 118          | 104         | 469             | 700           | 174,5             | 54         | 2,2    |             |
|               |                     |                 | 55                  | 111         | 64   | 99           | 87          | 369             | 600           |                   |            |        |             |
|               |                     |                 | 49                  | 99          | 55   | 79           | 70          | 284             | 500           |                   |            |        |             |
| MTH 07 XT 159 | 159                 | 6,2 bars        | 51                  | 102         | 87   | 141          | 124         | 469             | 700           | 174,5             | 54         | 2,2    |             |
|               |                     |                 | 46                  | 93          | 76   | 118          | 104         | 369             | 600           |                   |            |        |             |
|               |                     |                 | 41                  | 83          | 66   | 95           | 84          | 284             | 500           |                   |            |        |             |
| MTH 07 XT 169 | 169                 | 6,2 bars        | 48                  | 96          | 93   | 150          | 132         | 469             | 700           | 174,5             | 54         | 2,2    |             |
|               |                     |                 | 44                  | 87          | 81   | 126          | 111         | 369             | 600           |                   |            |        |             |
|               |                     |                 | 39                  | 78          | 70   | 101          | 89          | 284             | 500           |                   |            |        |             |
| MTH 07 RV     | Air motor reference | Reduction ratio | Air supply pressure | Speed (rpm) |      | Torque (N.m) |             |                 | Max Power (W) | Air cons (Nl/min) | Dimensions |        |             |
|               |                     |                 |                     | @ max Power | Free | @ max Power  | Max (stall) | Starting torque |               |                   | A (mm)     | Ø (mm) | Weight (kg) |
|               | MTH 07 RV 111       | 111             | 6,2 bars            | 62          | 125  | 58           | 87          | 76              | 379           | 700               | 174,5      | 54     | 2,2         |
| 57            |                     |                 |                     | 113         | 49   | 71           | 63          | 289             | 600           |                   |            |        |             |
| 50            |                     |                 |                     | 101         | 41   | 57           | 51          | 216             | 500           |                   |            |        |             |
| MTH 07 RV 132 | 132                 | 6,2 bars        | 52                  | 104         | 69   | 104          | 91          | 379             | 700           | 174,5             | 54         | 2,2    |             |
|               |                     |                 | 47                  | 95          | 58   | 85           | 75          | 289             | 600           |                   |            |        |             |
|               |                     |                 | 42                  | 84          | 49   | 69           | 61          | 216             | 500           |                   |            |        |             |
| MTH 07 RV 159 | 159                 | 6,2 bars        | 44                  | 87          | 83   | 124          | 109         | 379             | 700           | 174,5             | 54         | 2,2    |             |
|               |                     |                 | 40                  | 79          | 70   | 102          | 90          | 289             | 600           |                   |            |        |             |
|               |                     |                 | 35                  | 70          | 59   | 83           | 73          | 216             | 500           |                   |            |        |             |
| MTH 07 RV 169 | 169                 | 6,2 bars        | 41                  | 82          | 88   | 132          | 117         | 379             | 700           | 174,5             | 54         | 2,2    |             |
|               |                     |                 | 37                  | 74          | 74   | 109          | 95          | 289             | 600           |                   |            |        |             |
|               |                     |                 | 33                  | 66          | 63   | 88           | 77          | 216             | 500           |                   |            |        |             |
| MTH 07 RV 202 | 202                 | 6,2 bars        | 34                  | 68          | 106  | 159          | 140         | 379             | 700           | 174,5             | 54         | 2,2    |             |
|               |                     |                 | 31                  | 62          | 89   | 130          | 114         | 289             | 600           |                   |            |        |             |
|               |                     |                 | 28                  | 55          | 75   | 105          | 93          | 216             | 500           |                   |            |        |             |

For connection and lubrication, see page 39

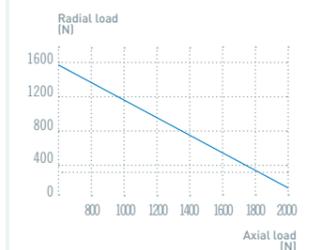
Data indicated in this table have an accuracy of +/- 5%

### POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS

MTH 07 XT

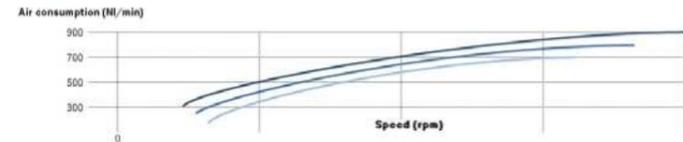
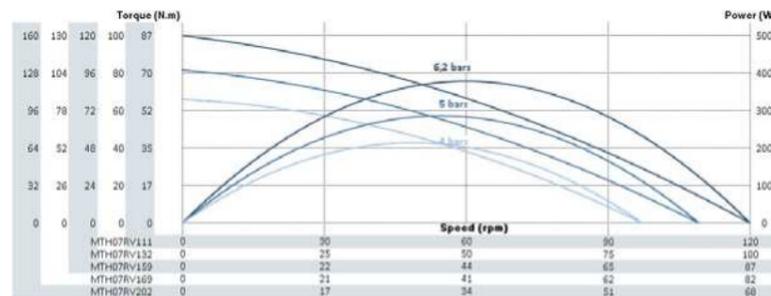


### MAXIMUM RADIAL & AXIAL LOAD



for 100 millions revolutions (load applied @ half shaft length)

MTH 07 RV



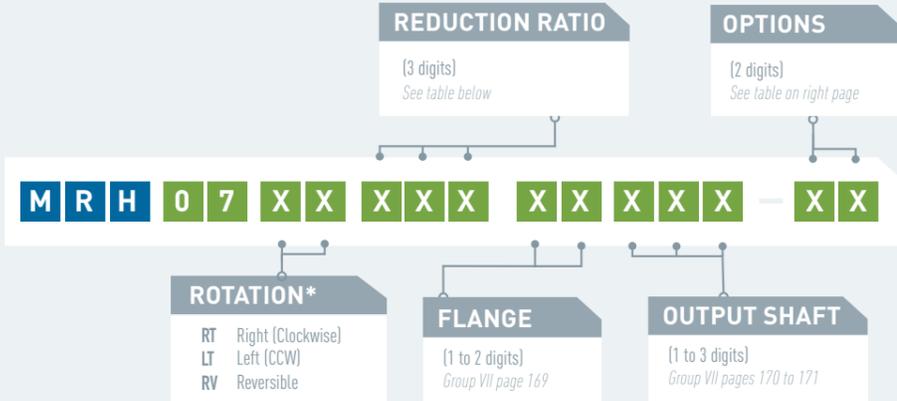
### NOTES

Notes section with horizontal lines for text entry.

# MOTOR MRH 07

## POWER 360-440 W

MRH 07



\* rotation direction is defined when looking from the back of the motor

PERFORMANCES

| MRH 07 XT     | Reduction ratio | Air supply pressure | Speed (rpm) |      | Torque (N.m) |             |                 | Max Power (W) | Air cons (Nl/min) | Dimensions |        |             |
|---------------|-----------------|---------------------|-------------|------|--------------|-------------|-----------------|---------------|-------------------|------------|--------|-------------|
|               |                 |                     | @ max Power | Free | @ max Power  | Max (stall) | Starting torque |               |                   | A (mm)     | Ø (mm) | Weight (kg) |
| MRH 07 XT 47  | 47              | 6,2 bars            | 165         | 331  | 25           | 40          | 35              | 441           | 700               | 242,5      | 54     | 3,1         |
|               |                 | 5 bars              | 149         | 299  | 22           | 33          | 29              | 338           | 600               |            |        |             |
|               |                 | 4 bars              | 133         | 267  | 18           | 27          | 24              | 258           | 500               |            |        |             |
| MRH 07 XT 56  | 56              | 6,2 bars            | 138         | 276  | 30           | 48          | 42              | 441           | 700               | 242,5      | 54     | 3,1         |
|               |                 | 5 bars              | 125         | 249  | 26           | 40          | 35              | 338           | 600               |            |        |             |
|               |                 | 4 bars              | 111         | 223  | 22           | 32          | 28              | 258           | 500               |            |        |             |
| MRH 07 XT 67  | 67              | 6,2 bars            | 116         | 231  | 36           | 57          | 50              | 441           | 700               | 242,5      | 54     | 3,1         |
|               |                 | 5 bars              | 104         | 208  | 31           | 48          | 42              | 338           | 600               |            |        |             |
|               |                 | 4 bars              | 93          | 186  | 26           | 39          | 34              | 258           | 500               |            |        |             |
| MRH 07 XT 80  | 80              | 6,2 bars            | 96          | 193  | 44           | 68          | 60              | 441           | 700               | 242,5      | 54     | 3,1         |
|               |                 | 5 bars              | 87          | 174  | 37           | 57          | 50              | 338           | 600               |            |        |             |
|               |                 | 4 bars              | 78          | 156  | 32           | 46          | 41              | 258           | 500               |            |        |             |
| MRH 07 XT 102 | 102             | 6,2 bars            | 76          | 151  | 56           | 87          | 77              | 441           | 700               | 242,5      | 54     | 3,1         |
|               |                 | 5 bars              | 68          | 137  | 47           | 73          | 64              | 338           | 600               |            |        |             |
|               |                 | 4 bars              | 61          | 122  | 40           | 59          | 52              | 258           | 500               |            |        |             |
| MRH 07 XT 147 | 147             | 6,2 bars            | 53          | 105  | 80           | 125         | 110             | 441           | 700               | 266,5      | 54     | 3,4         |
|               |                 | 5 bars              | 48          | 95   | 68           | 105         | 92              | 338           | 600               |            |        |             |
|               |                 | 4 bars              | 42          | 85   | 58           | 85          | 74              | 258           | 500               |            |        |             |
| MRH 07 XT 176 | 176             | 6,2 bars            | 44          | 88   | 96           | 150         | 132             | 441           | 700               | 266,5      | 54     | 3,4         |
|               |                 | 5 bars              | 40          | 79   | 81           | 126         | 111             | 338           | 600               |            |        |             |
|               |                 | 4 bars              | 35          | 71   | 69           | 101         | 89              | 258           | 500               |            |        |             |

| MRH 07 RV     | Reduction ratio | Air supply pressure | Speed (rpm) |      | Torque (N.m) |             |                 | Max Power (W) | Air cons (Nl/min) | Dimensions |        |             |
|---------------|-----------------|---------------------|-------------|------|--------------|-------------|-----------------|---------------|-------------------|------------|--------|-------------|
|               |                 |                     | @ max Power | Free | @ max Power  | Max (stall) | Starting torque |               |                   | A (mm)     | Ø (mm) | Weight (kg) |
| MRH 07 RV 47  | 47              | 6,2 bars            | 141         | 281  | 24           | 35          | 31              | 356           | 700               | 242,5      | 54     | 3,1         |
|               |                 | 5 bars              | 127         | 255  | 20           | 29          | 25              | 271           | 600               |            |        |             |
|               |                 | 4 bars              | 113         | 227  | 17           | 23          | 21              | 202           | 500               |            |        |             |
| MRH 07 RV 56  | 56              | 6,2 bars            | 117         | 235  | 29           | 42          | 37              | 356           | 700               | 242,5      | 54     | 3,1         |
|               |                 | 5 bars              | 106         | 213  | 24           | 35          | 31              | 271           | 600               |            |        |             |
|               |                 | 4 bars              | 95          | 189  | 20           | 28          | 25              | 202           | 500               |            |        |             |
| MRH 07 RV 67  | 67              | 6,2 bars            | 98          | 196  | 35           | 50          | 44              | 356           | 700               | 242,5      | 54     | 3,1         |
|               |                 | 5 bars              | 89          | 178  | 29           | 41          | 36              | 271           | 600               |            |        |             |
|               |                 | 4 bars              | 79          | 158  | 24           | 33          | 29              | 202           | 500               |            |        |             |
| MRH 07 RV 80  | 80              | 6,2 bars            | 82          | 164  | 41           | 60          | 53              | 356           | 700               | 242,5      | 54     | 3,1         |
|               |                 | 5 bars              | 74          | 148  | 35           | 50          | 44              | 271           | 600               |            |        |             |
|               |                 | 4 bars              | 66          | 132  | 29           | 40          | 35              | 202           | 500               |            |        |             |
| MRH 07 RV 102 | 102             | 6,2 bars            | 64          | 129  | 53           | 77          | 68              | 356           | 700               | 242,5      | 54     | 3,1         |
|               |                 | 5 bars              | 58          | 116  | 45           | 63          | 56              | 271           | 600               |            |        |             |
|               |                 | 4 bars              | 52          | 104  | 37           | 51          | 45              | 202           | 500               |            |        |             |
| MRH 07 RV 147 | 147             | 6,2 bars            | 45          | 89   | 76           | 110         | 97              | 356           | 700               | 266,5      | 54     | 3,4         |
|               |                 | 5 bars              | 41          | 81   | 64           | 91          | 80              | 271           | 600               |            |        |             |
|               |                 | 4 bars              | 36          | 72   | 54           | 73          | 64              | 202           | 500               |            |        |             |
| MRH 07 RV 176 | 176             | 6,2 bars            | 37          | 75   | 91           | 132         | 116             | 356           | 700               | 266,5      | 54     | 3,4         |
|               |                 | 5 bars              | 34          | 68   | 77           | 109         | 96              | 271           | 600               |            |        |             |
|               |                 | 4 bars              | 30          | 60   | 64           | 88          | 77              | 202           | 500               |            |        |             |

For connection and lubrication, see page 39

Data indicated in this table have an accuracy of +/- 5%

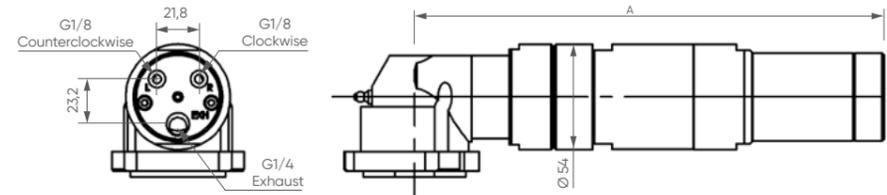
### OPTIONS AVAILABLE FOR THIS MOTOR

|                    |    |    |    |    |    |    |
|--------------------|----|----|----|----|----|----|
| Collected exhaust  | ▶  | ▶  | ▶  | ▶  | ▶  | ▶  |
| ATEX certification |    | ▶  |    |    | ▶  | ▶  |
| Lubrication free   |    |    | ▶  |    | ▶  | ▶  |
| Kit start          |    |    |    | ▶  |    | ▶  |
| Code               | 01 | 07 | 09 | 10 | 21 | 22 |

+ List of available accessories for this motor page 39

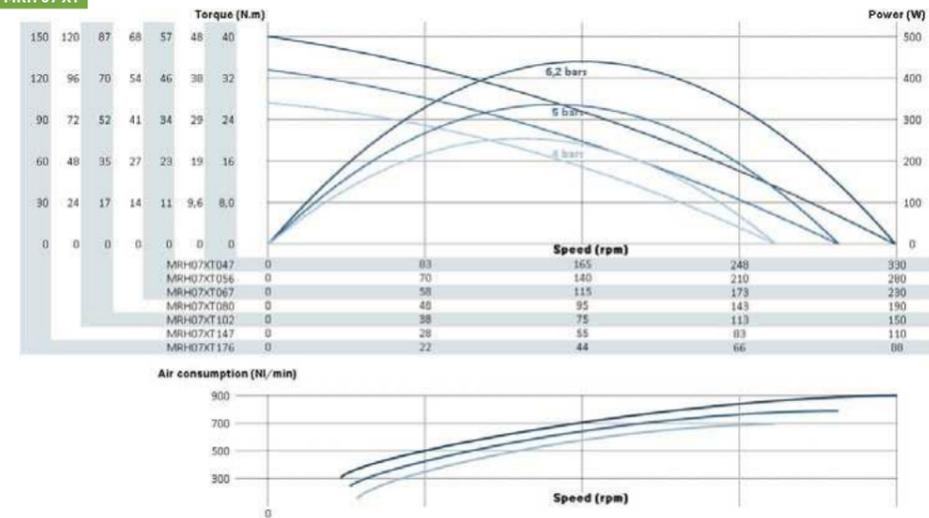
### LAYOUT

MRH 07

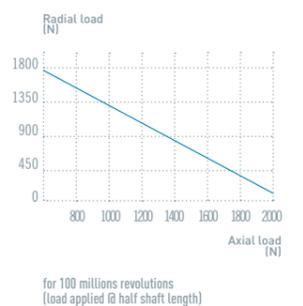


### POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS

MRH 07 XT



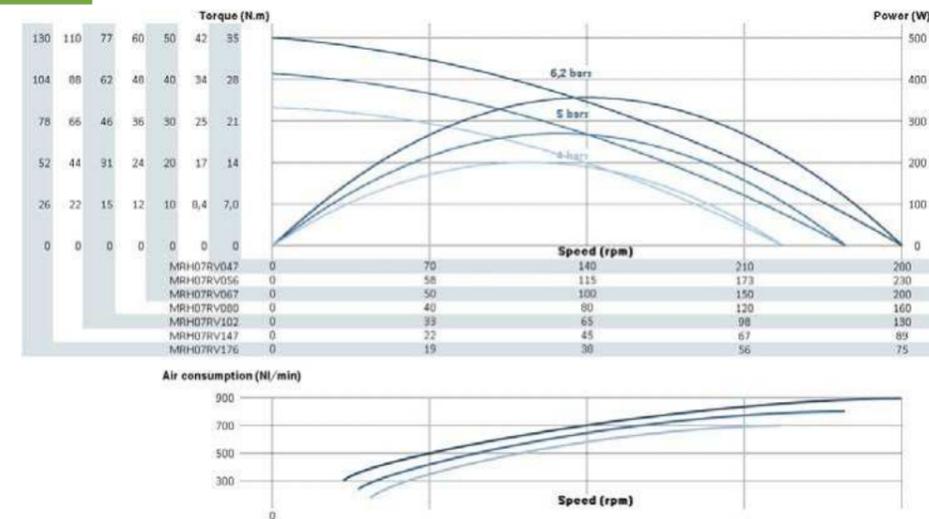
### MAXIMUM RADIAL & AXIAL LOAD



### NOTES

Notes section with horizontal lines for text entry.

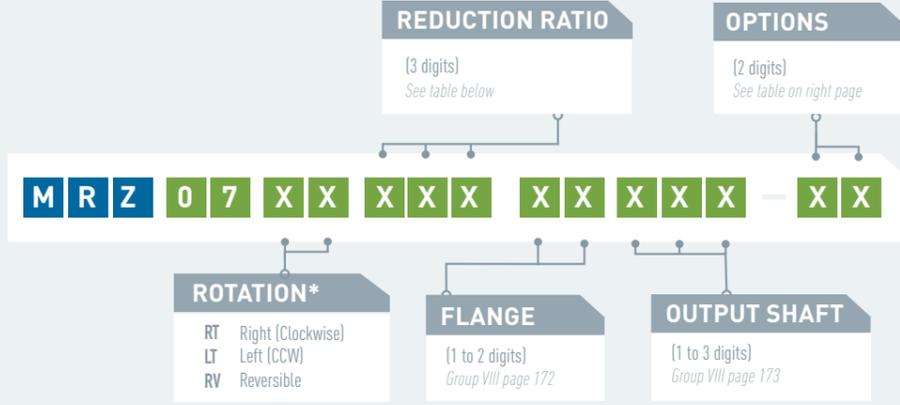
MRH 07 RV



# MOTOR MRZ 07

## POWER 360-440 W

MRZ 07



\* rotation direction is defined when looking from the back of the motor

PERFORMANCES

| MRZ 07 XT     | Reduction ratio | Air supply pressure | Speed (rpm) |      | Torque (N.m) |             |                 | Max Power (W) | Air cons (Nl/min) | Dimensions |        |             |
|---------------|-----------------|---------------------|-------------|------|--------------|-------------|-----------------|---------------|-------------------|------------|--------|-------------|
|               |                 |                     | @ max Power | Free | @ max Power  | Max (stall) | Starting torque |               |                   | A (mm)     | Ø (mm) | Weight (kg) |
| MRZ 07 XT 225 | 225             | 6,2 bars            | 34          | 69   | 122          | 192         | 169             | 441           | 700               | 266,5      | 54     | 4,9         |
|               |                 | 5 bars              | 31          | 62   | 104          | 160         | 141             | 338           | 600               |            |        |             |
|               |                 | 4 bars              | 28          | 56   | 89           | 129         | 114             | 258           | 500               |            |        |             |
| MRZ 07 XT 269 | 269             | 6,2 bars            | 29          | 58   | 146          | 230         | 202             | 441           | 700               | 266,5      | 54     | 4,9         |
|               |                 | 5 bars              | 26          | 52   | 124          | 192         | 169             | 338           | 600               |            |        |             |
|               |                 | 4 bars              | 23          | 46   | 106          | 155         | 136             | 258           | 500               |            |        |             |
| MRZ 07 XT 322 | 322             | 6,2 bars            | 24          | 48   | 175          | 275         | 242             | 441           | 700               | 266,5      | 54     | 4,9         |
|               |                 | 5 bars              | 22          | 43   | 149          | 230         | 202             | 338           | 600               |            |        |             |
|               |                 | 4 bars              | 19          | 39   | 127          | 185         | 163             | 258           | 500               |            |        |             |
| MRZ 07 XT 411 | 411             | 6,2 bars            | 19          | 38   | 223          | 350         | 308             | 441           | 700               | 266,5      | 54     | 4,9         |
|               |                 | 5 bars              | 17          | 34   | 190          | 293         | 258             | 338           | 600               |            |        |             |
|               |                 | 4 bars              | 15          | 30   | 162          | 236         | 208             | 258           | 500               |            |        |             |
| MRZ 07 XT 524 | 524             | 6,2 bars            | 15          | 30   | 285          | 447         | 393             | 441           | 700               | 266,5      | 54     | 4,9         |
|               |                 | 5 bars              | 13          | 27   | 242          | 374         | 329             | 338           | 600               |            |        |             |
|               |                 | 4 bars              | 12          | 24   | 207          | 301         | 265             | 258           | 500               |            |        |             |
| MRZ 07 XT 589 | 589             | 6,2 bars            | 13          | 26   | 320          | 502         | 442             | 441           | 700               | 266,5      | 54     | 4,9         |
|               |                 | 5 bars              | 12          | 24   | 272          | 420         | 370             | 338           | 600               |            |        |             |
|               |                 | 4 bars              | 11          | 21   | 232          | 338         | 298             | 258           | 500               |            |        |             |
| MRZ 07 XT 750 | 750             | 6,2 bars            | 10          | 21   | 408          | 640         | 563             | 441           | 700               | 266,5      | 54     | 4,9         |
|               |                 | 5 bars              | 9,3         | 19   | 347          | 536         | 471             | 338           | 600               |            |        |             |
|               |                 | 4 bars              | 8,3         | 17   | 296          | 431         | 380             | 258           | 500               |            |        |             |

| MRZ 07 RV     | Reduction ratio | Air supply pressure | Speed (rpm) |      | Torque (N.m) |             |                 | Max Power (W) | Air cons (Nl/min) | Dimensions |        |             |
|---------------|-----------------|---------------------|-------------|------|--------------|-------------|-----------------|---------------|-------------------|------------|--------|-------------|
|               |                 |                     | @ max Power | Free | @ max Power  | Max (stall) | Starting torque |               |                   | A (mm)     | Ø (mm) | Weight (kg) |
| MRZ 07 RV 225 | 225             | 6,2 bars            | 29          | 59   | 116          | 169         | 148             | 356           | 700               | 266,5      | 54     | 4,9         |
|               |                 | 5 bars              | 27          | 53   | 98           | 139         | 122             | 271           | 600               |            |        |             |
|               |                 | 4 bars              | 24          | 47   | 82           | 112         | 98              | 202           | 500               |            |        |             |
| MRZ 07 RV 269 | 269             | 6,2 bars            | 24          | 49   | 139          | 202         | 178             | 356           | 700               | 266,5      | 54     | 4,9         |
|               |                 | 5 bars              | 22          | 44   | 117          | 166         | 146             | 271           | 600               |            |        |             |
|               |                 | 4 bars              | 20          | 39   | 98           | 134         | 118             | 202           | 500               |            |        |             |
| MRZ 07 RV 322 | 322             | 6,2 bars            | 20          | 41   | 167          | 242         | 213             | 356           | 700               | 266,5      | 54     | 4,9         |
|               |                 | 5 bars              | 18          | 37   | 140          | 199         | 175             | 271           | 600               |            |        |             |
|               |                 | 4 bars              | 16          | 33   | 117          | 161         | 141             | 202           | 500               |            |        |             |
| MRZ 07 RV 411 | 411             | 6,2 bars            | 16          | 32   | 212          | 309         | 272             | 356           | 700               | 266,5      | 54     | 4,9         |
|               |                 | 5 bars              | 14          | 29   | 179          | 254         | 224             | 271           | 600               |            |        |             |
|               |                 | 4 bars              | 13          | 26   | 149          | 205         | 180             | 202           | 500               |            |        |             |
| MRZ 07 RV 524 | 524             | 6,2 bars            | 13          | 25   | 271          | 393         | 346             | 356           | 700               | 266,5      | 54     | 4,9         |
|               |                 | 5 bars              | 11          | 23   | 228          | 324         | 285             | 271           | 600               |            |        |             |
|               |                 | 4 bars              | 10          | 20   | 191          | 261         | 230             | 202           | 500               |            |        |             |
| MRZ 07 RV 589 | 589             | 6,2 bars            | 11          | 22   | 304          | 442         | 389             | 356           | 700               | 266,5      | 54     | 4,9         |
|               |                 | 5 bars              | 10          | 20   | 256          | 364         | 320             | 271           | 600               |            |        |             |
|               |                 | 4 bars              | 9,0         | 18   | 214          | 293         | 258             | 202           | 500               |            |        |             |
| MRZ 07 RV 750 | 750             | 6,2 bars            | 8,8         | 18   | 388          | 564         | 496             | 356           | 700               | 266,5      | 54     | 4,9         |
|               |                 | 5 bars              | 7,9         | 16   | 326          | 464         | 409             | 271           | 600               |            |        |             |
|               |                 | 4 bars              | 7,1         | 14   | 273          | 374         | 329             | 202           | 500               |            |        |             |

For connection and lubrication, see page 39

Data indicated in this table have an accuracy of +/- 5%

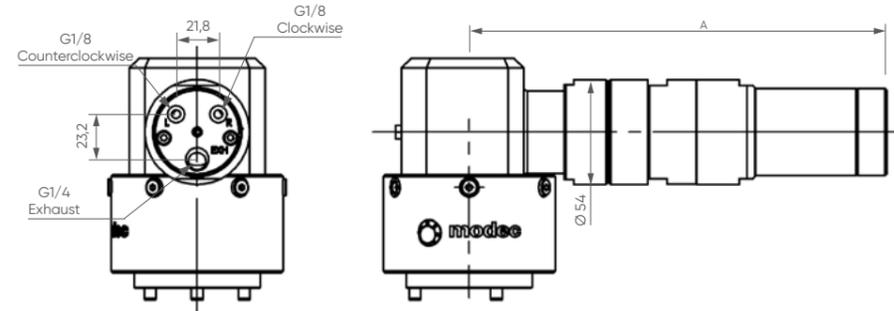
### OPTIONS AVAILABLE FOR THIS MOTOR

|                    |    |    |    |    |    |    |
|--------------------|----|----|----|----|----|----|
| Collected exhaust  | ▶  | ▶  | ▶  | ▶  | ▶  | ▶  |
| ATEX certification |    | ▶  |    |    | ▶  | ▶  |
| Lubrication free   |    |    | ▶  |    | ▶  | ▶  |
| Kit start          |    |    |    | ▶  |    | ▶  |
| Code               | 01 | 07 | 09 | 10 | 21 | 22 |

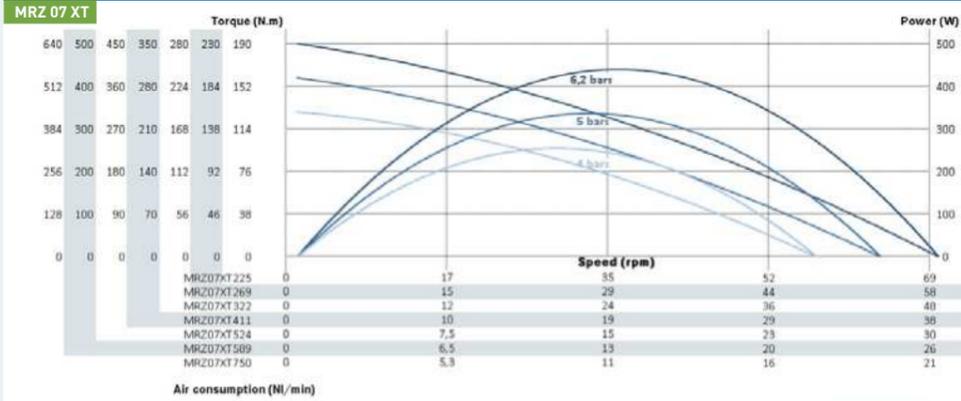
+ List of available accessories for this motor page 39

### LAYOUT

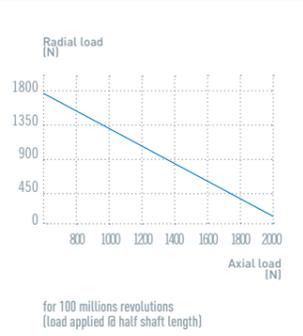
MRZ 07



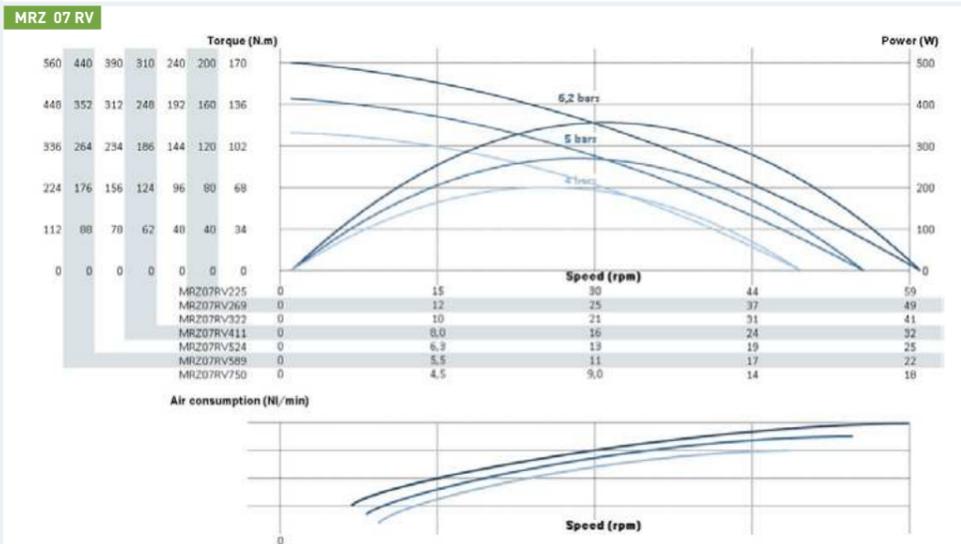
### POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS



### MAXIMUM RADIAL & AXIAL LOAD



### NOTES



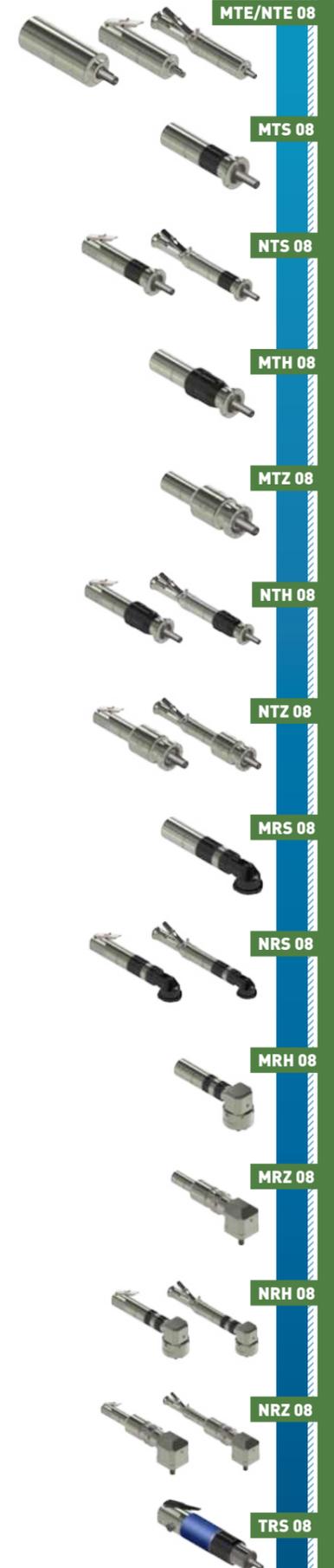


MAX POWER  
**710 W**  
MAX TORQUE  
**730 Nm**

"08" series air motors exist in many versions, straight shaft or right angle drive, with or without integrated control handle, and with many different flanges and output shafts available as standard.

That air motor is also available with 4 types of integrated gearboxes, enabling it to adapt to many different applications, whether high speed is required (Easy duty), good balance between speed and torque (Standard duty) or high torque and robustness is mandatory (Heavy duty and Super Heavy duty).

With a maximum power of 700 W, it is one of the most versatile air motors in the range.



| + ACCESSORIES FOR THIS MOTOR                               | Reference | Information |
|--|-----------|-------------|
| Filtration, pressure Regulation and Lubrication unit (FRL) | AC107     | Page 177    |
| Safety Air Treatment Box (SAT Box)                         | AC118     | Page 178    |
| With Pedal remote control                                  | AC119     | Page 178    |
| With handle remote control                                 | AC120     | Page 178    |
| With remote emergency kill switch                          | AC125     | Page 178    |
| With remote E-Stop and pedal remote control                | AC121     | Page 178    |
| With remote E-Stop and handle remote control               | AC122     | Page 178    |
| Maintenance kits   |           |             |
| Maintenance kit for "08" series                            | AC302     | Page 181    |
| Maintenance kit for lube free "08" series                  | AC312     | Page 181    |
| Maintenance kit for kit start "08" series                  | AC322     | Page 181    |
| Control handles  |           |             |
| Safety control handle for non reversible motor             | AC415     | Page 179    |
| Safety control handle for reversible motor                 | AC416     | Page 179    |
| Progressive control handle for non reversible motor        | AC417     | Page 179    |
| Progressive control handle for reversible motor            | AC418     | Page 179    |
| modec Oil Co-16  | AC149     | Page 178    |
| Filters and silencers                                      |           |             |
| Metallic standard exhaust silencer                         | AC181     | Page 179    |
| Metallic standard inlet silencer                           | AC180     | Page 179    |
| Plastic standard exhaust silencer                          | AC183     | Page 180    |
| Plastic standard inlet silencer                            | AC150     | Page 180    |
| Heavy duty exhaust silencer                                | AC155     | Page 180    |
| Heavy duty inlet silencer                                  | AC154     | Page 180    |
| Speed control muffler                                      | AC172     | Page 181    |
| High flow air muffler                                      | AC158     | Page 180    |
| Exhaust silencer filter                                    | AC165     | Page 180    |

**CONNECTION AND LUBRICATION**

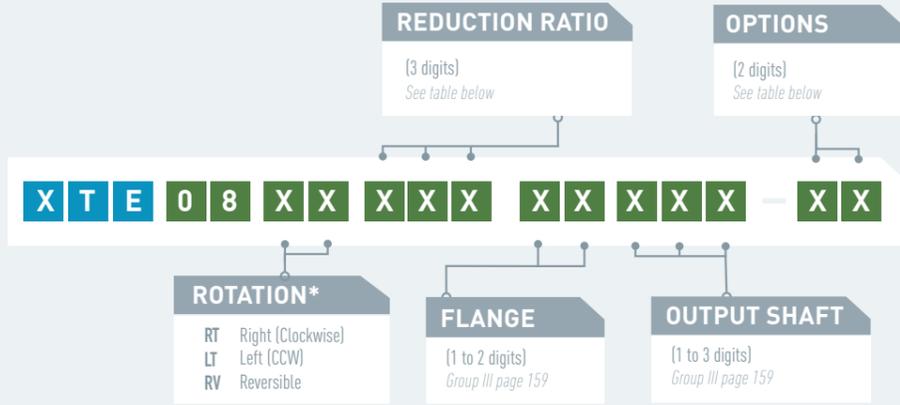
|   | Min. fittings Ø |                | Min. pipe Ø   |                | Lubrication (6,2 bars) |
|---|-----------------|----------------|---------------|----------------|------------------------|
|   | In              | Out            | In            | Out            |                        |
|  | 7 mm / 0,3 In   | 10 mm / 0,4 In | 9 mm / 0,4 In | 13 mm / 0,5 In | 4 drops / minute       |

**CONVERSION TABLE**

|                             |   |                   |
|-----------------------------|---|-------------------|
| Watt ► Horse power          | Newton meter ► Pound feet                             | Millimeter ► Inch |
| Watt x 0,001341 = hp        | Nm x 0,7376 = lb.ft                                   | mm x 0,03937 = in |
| Bar ► Pound per square Inch | Normo Liter / minute ► Standard cubic feet per minute | Kilogram ► Pound  |
| Bar x 14,5 = psi            | NL / min x 0,03531 = scfm                             | Kg x 2,205 = lb   |

# MOTOR MTE/NTE 08

## POWER 460-700 W



\* rotation direction is defined when looking from the back of the motor

| PERFORMANCES  | MTE/NTE 08          |                 | Speed (rpm)         |             | Torque (N.m) |             |             | Max Power (W) | Air cons (NI/min) | Dimensions      |        |        |             |
|---------------|---------------------|-----------------|---------------------|-------------|--------------|-------------|-------------|---------------|-------------------|-----------------|--------|--------|-------------|
|               | Air motor reference | Reduction ratio | Air supply pressure | @ max Power | Free         | @ max Power | Max (stall) |               |                   | Starting torque | A (mm) | Ø (mm) | Weight (kg) |
| MTE 08 XT 001 | MTE 08 XT 001       | 001             | 6,2 bars            | 9200        | 18400        | 0,72        | 1,2         | 1,1           | 700               | 1000            | 135    | 54     | 1,1         |
|               |                     |                 | 5 bars              | 8300        | 16600        | 0,61        | 1,0         | 0,88          | 530               | 850             |        |        |             |
|               |                     |                 | 4 bars              | 7500        | 15000        | 0,50        | 0,77        | 0,68          | 390               | 650             |        |        |             |
| MTE 08 RV 001 | MTE 08 RV 001       | 001             | 6,2 bars            | 9200        | 18300        | 0,74        | 1,1         | 0,82          | 700               | 950             | 135    | 54     | 1,1         |
|               |                     |                 | 5 bars              | 8400        | 16800        | 0,62        | 1,0         | 0,72          | 540               | 750             |        |        |             |
|               |                     |                 | 4 bars              | 7600        | 15300        | 0,49        | 0,80        | 0,61          | 390               | 600             |        |        |             |
| NTE 08 XT 001 | NTE 08 XT 001       | 001             | 6,2 bars            | 8000        | 16000        | 0,57        | 1,1         | 0,96          | 480               | 900             | 174,1  | 54     | 1,4         |
|               |                     |                 | 5 bars              | 7200        | 14400        | 0,48        | 0,88        | 0,77          | 360               | 750             |        |        |             |
|               |                     |                 | 4 bars              | 6500        | 13000        | 0,40        | 0,68        | 0,60          | 270               | 600             |        |        |             |
| NTE 08 RV 001 | NTE 08 RV 001       | 001             | 6,2 bars            | 7600        | 15200        | 0,58        | 0,92        | 0,81          | 460               | 950             | 317,1  | 57     | 1,9         |
|               |                     |                 | 5 bars              | 6700        | 13400        | 0,49        | 0,79        | 0,70          | 340               | 750             |        |        |             |
|               |                     |                 | 4 bars              | 6000        | 12000        | 0,40        | 0,67        | 0,59          | 250               | 600             |        |        |             |

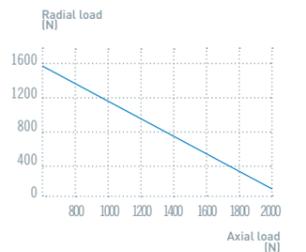
For connection and lubrication, see page 51

Data indicated in this table have an accuracy of +/- 5%

| OPTIONS AVAILABLE FOR THE MTE 08 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|----------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Collected exhaust                | 01 | 03 | 07 | 09 | 10 | 11 | 12 | 16 | 17 | 21 | 22 | 23 | 27 | 28 | 29 | 30 | 36 | 37 |
| ATEX certification               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Left/Right switch*               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Lubrication free                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Kit start                        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Stainless steel                  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

| OPTIONS DISPONIBLES POUR LE NTE 08 XT |    |    |    |    |    | OPTIONS DISPONIBLES POUR LE NTE 08 RV |                    |    |    |    |    |    |    |
|---------------------------------------|----|----|----|----|----|---------------------------------------|--------------------|----|----|----|----|----|----|
| Collected exhaust                     | 01 | 07 | 09 | 10 | 21 | 22                                    | ATEX               | 03 | 12 | 16 | 17 | 29 | 30 |
| ATEX certification                    |    |    |    |    |    |                                       | Left/Right switch* |    |    |    |    |    |    |
| Lubrication free                      |    |    |    |    |    |                                       | Lubrication free   |    |    |    |    |    |    |
| Kit start                             |    |    |    |    |    |                                       | Kit start          |    |    |    |    |    |    |

### MAXIMUM RADIAL & AXIAL LOAD

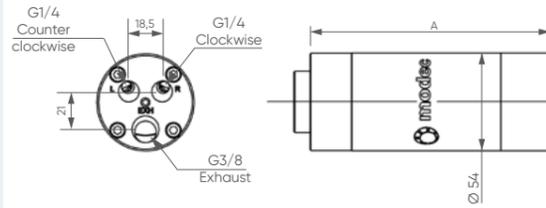


for 100 millions revolutions (load applied @ half shaft length)

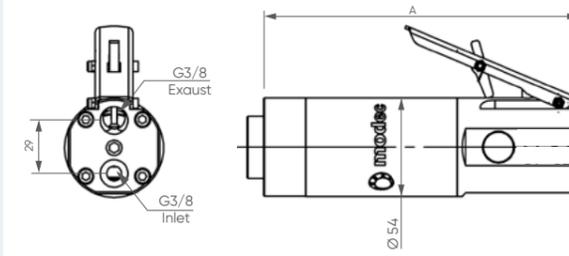
\* Reversible motors only

### LAYOUT

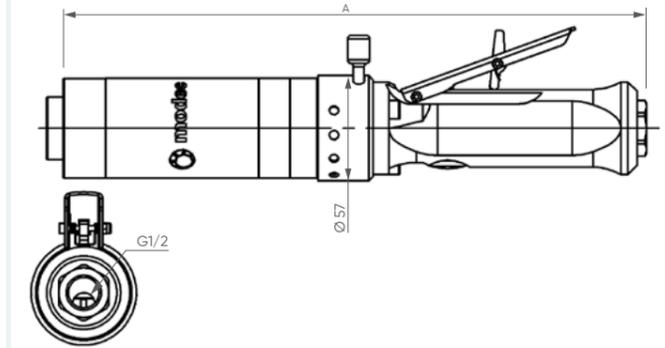
#### MTE 08



#### NTE 08 XT

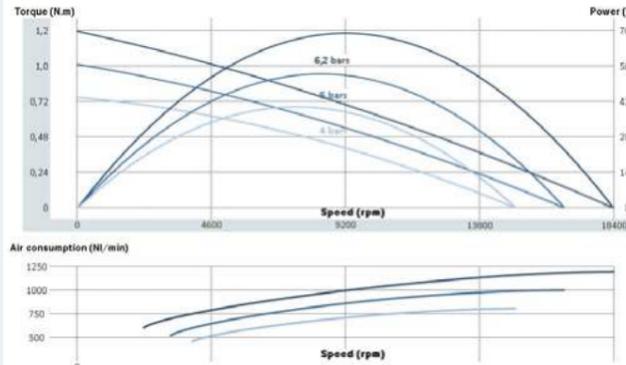


#### NTE 08 RV

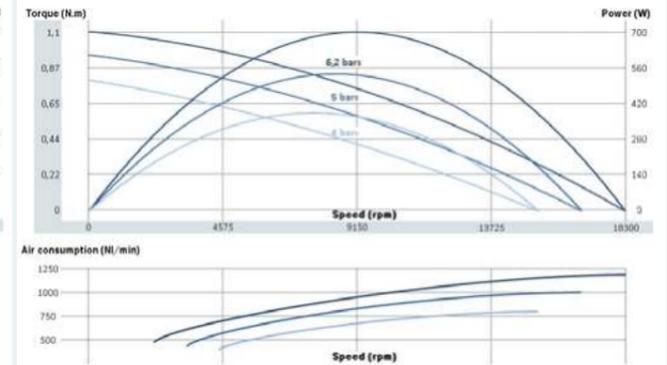


### POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS

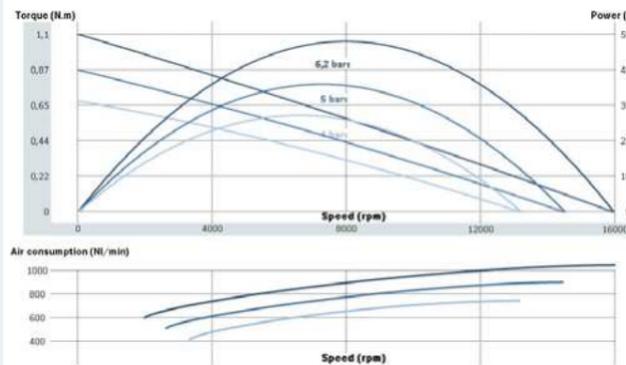
#### MTE 08 XT



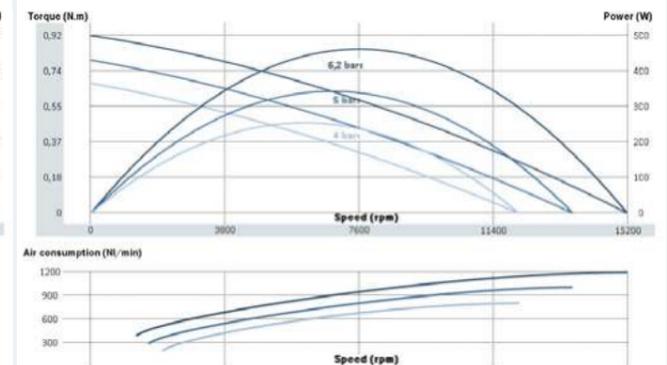
#### MTE 08 RV



#### NTE 08 XT



#### NTE 08 RV



### NOTES



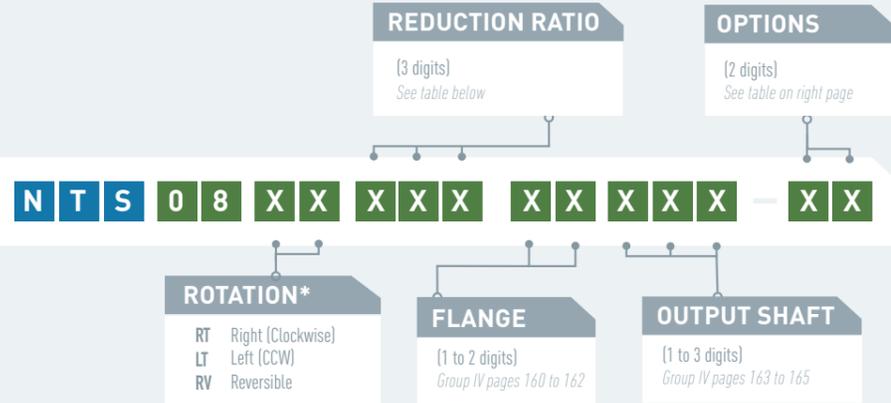
# MOTOR NTS 08

## POWER 460-480 W

NTS 08 XT



NTS 08 RV



\* rotation direction is defined when looking from the back of the motor

| PERFORMANCES  | NTS 08 XT | Reduction ratio | Air supply pressure | Speed (rpm) |      | Torque (N.m) |             |                 | Max Power (W) | Air cons (NL/min) | Dimensions |        |             |
|---------------|-----------|-----------------|---------------------|-------------|------|--------------|-------------|-----------------|---------------|-------------------|------------|--------|-------------|
|               |           |                 |                     | @ max Power | Free | @ max Power  | Max (stall) | Starting torque |               |                   | A (mm)     | Ø (mm) | Weight (kg) |
| NTS 08 XT 005 | 5         | 6,2 bars        | 1670                | 3340        | 2,8  | 5,2          | 4,6         | 481             | 900           | 176               | 54         | 2      |             |
|               |           |                 | 1501                | 3002        | 2,3  | 4,2          | 3,7         | 362             |               |                   |            |        |             |
|               |           |                 | 1368                | 2735        | 1,9  | 3,3          | 2,9         | 272             |               |                   |            |        |             |
| NTS 08 XT 006 | 6         | 6,2 bars        | 1394                | 2788        | 3,3  | 6,3          | 5,5         | 481             | 900           | 176               | 54         | 2      |             |
|               |           |                 | 1253                | 2506        | 2,8  | 5,1          | 4,5         | 362             |               |                   |            |        |             |
|               |           |                 | 1142                | 2283        | 2,3  | 3,9          | 3,5         | 272             |               |                   |            |        |             |
| NTS 08 XT 007 | 7         | 6,2 bars        | 1093                | 2187        | 4,2  | 8,0          | 7,0         | 481             | 900           | 176               | 54         | 2      |             |
|               |           |                 | 983                 | 1966        | 3,5  | 6,5          | 5,7         | 362             |               |                   |            |        |             |
|               |           |                 | 895                 | 1791        | 2,9  | 5,0          | 4,4         | 272             |               |                   |            |        |             |
| NTS 08 XT 011 | 11        | 6,2 bars        | 763                 | 1527        | 6,0  | 11           | 10          | 481             | 900           | 176               | 54         | 2      |             |
|               |           |                 | 686                 | 1372        | 5,0  | 9,2          | 8,1         | 362             |               |                   |            |        |             |
|               |           |                 | 625                 | 1250        | 4,2  | 7,2          | 6,3         | 272             |               |                   |            |        |             |
| NTS 08 XT 023 | 23        | 6,2 bars        | 359                 | 718         | 12   | 22           | 20          | 439             | 900           | 203               | 54         | 2,3    |             |
|               |           |                 | 329                 | 658         | 10   | 18           | 16          | 335             |               |                   |            |        |             |
|               |           |                 | 296                 | 591         | 7,8  | 14           | 12          | 241             |               |                   |            |        |             |
| NTS 08 XT 028 | 28        | 6,2 bars        | 300                 | 600         | 14   | 27           | 24          | 439             | 900           | 203               | 54         | 2,3    |             |
|               |           |                 | 275                 | 549         | 12   | 22           | 19          | 335             |               |                   |            |        |             |
|               |           |                 | 247                 | 494         | 9,3  | 17           | 15          | 241             |               |                   |            |        |             |
| NTS 08 XT 035 | 35        | 6,2 bars        | 235                 | 470         | 18   | 34           | 30          | 439             | 900           | 203               | 54         | 2,3    |             |
|               |           |                 | 215                 | 431         | 15   | 28           | 25          | 335             |               |                   |            |        |             |
|               |           |                 | 194                 | 387         | 12   | 21           | 19          | 241             |               |                   |            |        |             |
| NTS 08 XT 042 | 42        | 6,2 bars        | 196                 | 393         | 21   | 41           | 36          | 439             | 900           | 203               | 54         | 2,3    |             |
|               |           |                 | 180                 | 360         | 18   | 33           | 29          | 335             |               |                   |            |        |             |
|               |           |                 | 162                 | 323         | 14   | 26           | 23          | 241             |               |                   |            |        |             |
| NTS 08 XT 054 | 54        | 6,2 bars        | 154                 | 308         | 27   | 52           | 46          | 439             | 900           | 203               | 54         | 2,3    |             |
|               |           |                 | 141                 | 282         | 23   | 43           | 37          | 335             |               |                   |            |        |             |
|               |           |                 | 127                 | 254         | 18   | 33           | 29          | 241             |               |                   |            |        |             |
| NTS 08 XT 060 | 60        | 6,2 bars        | 137                 | 274         | 31   | 59           | 52          | 439             | 900           | 203               | 54         | 2,3    |             |
|               |           |                 | 126                 | 251         | 25   | 48           | 42          | 335             |               |                   |            |        |             |
|               |           |                 | 113                 | 226         | 20   | 37           | 32          | 241             |               |                   |            |        |             |
| NTS 08 XT 077 | 77        | 6,2 bars        | 108                 | 215         | 39   | 75           | 66          | 439             | 900           | 203               | 54         | 2,3    |             |
|               |           |                 | 99                  | 197         | 33   | 61           | 54          | 335             |               |                   |            |        |             |
|               |           |                 | 89                  | 177         | 26   | 47           | 41          | 241             |               |                   |            |        |             |
| NTS 08 XT 111 | 111       | 6,2 bars        | 75                  | 150         | 56   | 108          | 95          | 439             | 900           | 227               | 54         | 2,8    |             |
|               |           |                 | 69                  | 137         | 47   | 88           | 77          | 335             |               |                   |            |        |             |
|               |           |                 | 62                  | 123         | 37   | 68           | 59          | 241             |               |                   |            |        |             |
| NTS 08 XT 132 | 132       | 6,2 bars        | 62                  | 125         | 67   | 129          | 114         | 439             | 900           | 227               | 54         | 2,8    |             |
|               |           |                 | 57                  | 114         | 56   | 105          | 92          | 335             |               |                   |            |        |             |
|               |           |                 | 51                  | 103         | 45   | 81           | 71          | 241             |               |                   |            |        |             |
| NTS 08 XT 159 | 159       | 6,2 bars        | 52                  | 104         | 80   | 155          | 136         | 439             | 900           | 227               | 54         | 2,8    |             |
|               |           |                 | 48                  | 96          | 67   | 126          | 111         | 335             |               |                   |            |        |             |
|               |           |                 | 43                  | 86          | 54   | 97           | 85          | 241             |               |                   |            |        |             |

For connection and lubrication, see page 51

Data indicated in this table have an accuracy of +/- 5%

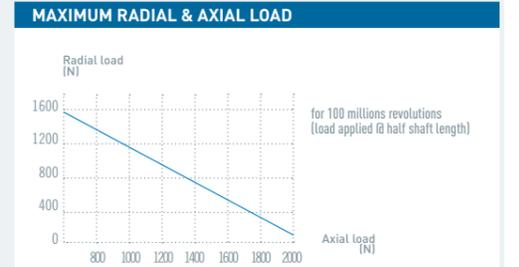
| PERFORMANCES  | NTS 08 RV | Reduction ratio | Air supply pressure | Speed (rpm) |      | Torque (N.m) |             |                 | Max Power (W) | Air cons (NL/min) | Dimensions |        |             |
|---------------|-----------|-----------------|---------------------|-------------|------|--------------|-------------|-----------------|---------------|-------------------|------------|--------|-------------|
|               |           |                 |                     | @ max Power | Free | @ max Power  | Max (stall) | Starting torque |               |                   | A (mm)     | Ø (mm) | Weight (kg) |
| NTS 08 RV 005 | 5         | 6,2 bars        | 1584                | 3167        | 2,8  | 4,4          | 3,9         | 462             | 950           | 317               | 57         | 2,4    |             |
|               |           |                 | 1410                | 2820        | 2,4  | 3,8          | 3,3         | 347             |               |                   |            |        |             |
|               |           |                 | 1256                | 2513        | 1,9  | 3,2          | 2,8         | 253             |               |                   |            |        |             |
| NTS 08 RV 006 | 6         | 6,2 bars        | 1322                | 2644        | 3,3  | 5,3          | 4,6         | 462             | 950           | 317               | 57         | 2,4    |             |
|               |           |                 | 1177                | 2354        | 2,8  | 4,5          | 4,0         | 347             |               |                   |            |        |             |
|               |           |                 | 1049                | 2098        | 2,3  | 3,9          | 3,4         | 253             |               |                   |            |        |             |
| NTS 08 RV 007 | 7         | 6,2 bars        | 1037                | 2074        | 4,3  | 6,7          | 5,9         | 462             | 950           | 317               | 57         | 2,4    |             |
|               |           |                 | 923                 | 1846        | 3,6  | 5,8          | 5,1         | 347             |               |                   |            |        |             |
|               |           |                 | 823                 | 1646        | 2,9  | 4,9          | 4,3         | 253             |               |                   |            |        |             |
| NTS 08 RV 011 | 11        | 6,2 bars        | 724                 | 1448        | 6,1  | 9,6          | 8,5         | 462             | 950           | 317               | 57         | 2,4    |             |
|               |           |                 | 645                 | 1289        | 5,1  | 8,3          | 7,3         | 347             |               |                   |            |        |             |
|               |           |                 | 574                 | 1149        | 4,2  | 7,0          | 6,2         | 253             |               |                   |            |        |             |
| NTS 08 RV 023 | 23        | 6,2 bars        | 337                 | 675         | 12   | 19           | 17          | 434             | 950           | 346               | 57         | 2,7    |             |
|               |           |                 | 307                 | 615         | 10   | 16           | 14          | 328             |               |                   |            |        |             |
|               |           |                 | 281                 | 561         | 8,1  | 12           | 11          | 237             |               |                   |            |        |             |
| NTS 08 RV 028 | 28        | 6,2 bars        | 282                 | 563         | 15   | 23           | 20          | 434             | 950           | 346               | 57         | 2,7    |             |
|               |           |                 | 257                 | 513         | 12   | 19           | 16          | 328             |               |                   |            |        |             |
|               |           |                 | 234                 | 468         | 9,7  | 15           | 13          | 237             |               |                   |            |        |             |
| NTS 08 RV 035 | 35        | 6,2 bars        | 221                 | 442         | 19   | 29           | 25          | 434             | 950           | 346               | 57         | 2,7    |             |
|               |           |                 | 201                 | 403         | 16   | 24           | 21          | 328             |               |                   |            |        |             |
|               |           |                 | 184                 | 368         | 12   | 19           | 16          | 237             |               |                   |            |        |             |
| NTS 08 RV 042 | 42        | 6,2 bars        | 184                 | 369         | 22   | 35           | 30          | 434             | 950           | 346               | 57         | 2,7    |             |
|               |           |                 | 168                 | 336         | 19   | 28           | 25          | 328             |               |                   |            |        |             |
|               |           |                 | 153                 | 307         | 15   | 22           | 20          | 237             |               |                   |            |        |             |
| NTS 08 RV 054 | 54        | 6,2 bars        | 145                 | 289         | 29   | 44           | 39          | 434             | 950           | 346               | 57         | 2,7    |             |
|               |           |                 | 132                 | 264         | 24   | 36           | 32          | 328             |               |                   |            |        |             |
|               |           |                 | 120                 | 241         | 19   | 29           | 25          | 237             |               |                   |            |        |             |
| NTS 08 RV 060 | 60        | 6,2 bars        | 129                 | 258         | 32   | 49           | 43          | 434             | 950           | 346               | 57         | 2,7    |             |
|               |           |                 | 117                 | 235         | 27   | 41           | 36          | 328             |               |                   |            |        |             |
|               |           |                 | 107                 | 214         | 21   | 32           | 28          | 237             |               |                   |            |        |             |
| NTS 08 RV 077 | 77        | 6,2 bars        | 101                 | 202         | 41   | 63           | 55          | 434             | 950           | 346               | 57         | 2,7    |             |
|               |           |                 | 92                  | 184         | 34   | 52           | 46          | 328             |               |                   |            |        |             |
|               |           |                 | 84                  | 168         | 27   | 41           | 36          | 237             |               |                   |            |        |             |
| NTS 08 RV 111 | 111       | 6,2 bars        | 71                  | 141         | 55   | 87           | 77          | 404             | 950           | 370               | 57         | 3      |             |
|               |           |                 | 63                  | 126         | 46   | 72           | 63          | 303             |               |                   |            |        |             |
|               |           |                 | 56                  | 112         | 38   | 60           | 52          | 222             |               |                   |            |        |             |
| NTS 08 RV 132 | 132       | 6,2 bars        | 59                  | 118         | 65   | 104          | 92          | 404             | 950           | 370               | 57         | 3      |             |
|               |           |                 | 53                  | 105         | 55   | 86           | 76          | 303             |               |                   |            |        |             |
|               |           |                 | 47                  | 93          | 46   | 71           | 63          | 222             |               |                   |            |        |             |
| NTS 08 RV 159 | 159       | 6,2 bars        | 49                  | 98          | 78   | 125          | 110         | 404             | 950           | 370               | 57         | 3      |             |
|               |           |                 | 44                  | 88          | 66   | 103          | 91          | 303             |               |                   |            |        |             |
|               |           |                 | 39                  | 78          | 55   | 85           | 75          | 222             |               |                   |            |        |             |
| NTS 08 RV 202 | 202       | 6,2 bars        | 39                  | 77          | 100  | 159          | 140         | 404             | 950           | 370               | 57         | 3      |             |
|               |           |                 | 34                  | 69          | 84   | 132          | 116         | 303             |               |                   |            |        |             |
|               |           |                 | 31                  | 61          | 70   | 109          | 96          | 222             |               |                   |            |        |             |

For connection and lubrication, see page 51

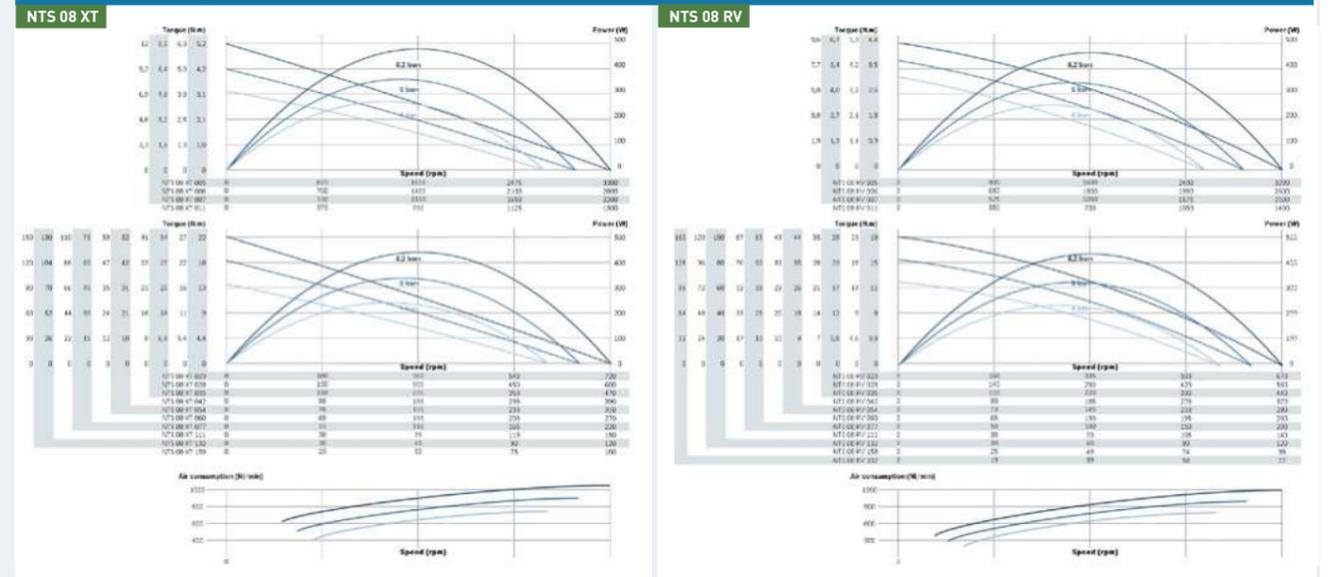
Data indicated in this table have an accuracy of +/- 5%

| OPTIONS AVAILABLE FOR THE NTS 08 XT |                          |                          |                          | OPTIONS AVAILABLE FOR THE NTS 08 RV |                          |                          |                          |
|-------------------------------------|--------------------------|--------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|
| Collected exhaust                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | ATEX certification                  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| ATEX certification                  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Left/Right switch                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Stainless steel                     | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Stainless steel                     | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Kit start                           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Kit start                           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Code                                | 01                       | 07                       | 09                       | 10                                  | 21                       | 22                       | Code 03 12 16 17 29 30   |

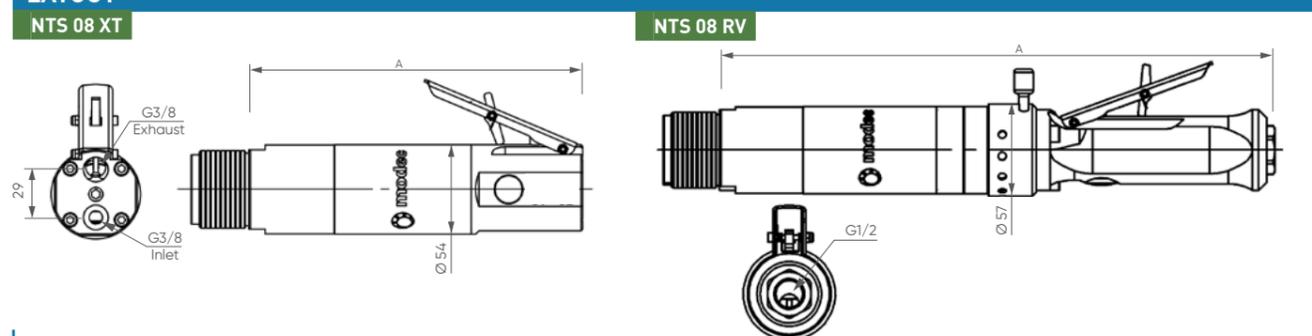
List of available accessories for this motor page 51



### POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS



### LAYOUT



# MOTOR MTH 08 / MTZ 08

## POWER 600-630 W



### REDUCTION RATIO

(3 digits)  
See table below

### OPTIONS

(2 digits)  
See table on below

**M T H/Z 0 8 X X X X X X X X - X X**

### ROTATION\*

- RT Right (Clockwise)
- LT Left (CCW)
- RV Reversible

### FLANGE

(1 to 2 digits)  
MTH : Group IV pages 160 to 162  
MTZ : Group VI page 167

### OUTPUT SHAFT

(1 to 3 digits)  
MTH : Group IV pages 163 to 165  
MTZ : Group VI page 168

\* rotation direction is defined when looking from the back of the motor

| PERFORMANCES  | MTH/Z 08 XT         |                 | Air supply pressure | Speed (rpm) |      | Torque (N.m) |             |                 | Max Power (W) | Air cons (Nl/min) | Dimensions |        |             |
|---------------|---------------------|-----------------|---------------------|-------------|------|--------------|-------------|-----------------|---------------|-------------------|------------|--------|-------------|
|               | Air motor reference | Reduction ratio |                     | @ max Power | Free | @ max Power  | Max (stall) | Starting torque |               |                   | A (mm)     | Ø (mm) | Weight (kg) |
|               |                     |                 |                     |             |      |              |             |                 |               |                   |            |        |             |
| MTH 08 XT 159 | 159                 | 6,2 bars        | 60                  | 119         | 96   | 165          | 145         | 596             | 1000          | 238,2             | 69         | 3,4    |             |
|               |                     | 5 bars          | 55                  | 110         | 80   | 134          | 118         | 462             | 850           |                   |            |        |             |
|               |                     | 4 bars          | 50                  | 99          | 64   | 105          | 92          | 333             | 650           |                   |            |        |             |
| MTH 08 XT 190 | 190                 | 6,2 bars        | 50                  | 99          | 115  | 198          | 174         | 596             | 1000          | 238,2             | 69         | 3,4    |             |
|               |                     | 5 bars          | 46                  | 92          | 96   | 160          | 141         | 462             | 850           |                   |            |        |             |
|               |                     | 4 bars          | 41                  | 83          | 77   | 126          | 110         | 333             | 650           |                   |            |        |             |
| MTH 08 XT 224 | 224                 | 6,2 bars        | 42                  | 84          | 135  | 233          | 205         | 596             | 1000          | 238,2             | 69         | 3,4    |             |
|               |                     | 5 bars          | 39                  | 78          | 113  | 189          | 166         | 462             | 850           |                   |            |        |             |
|               |                     | 4 bars          | 35                  | 70          | 91   | 148          | 130         | 333             | 650           |                   |            |        |             |
| MTH 08 XT 258 | 258                 | 6,2 bars        | 37                  | 73          | 155  | 268          | 236         | 596             | 1000          | 238,2             | 69         | 3,4    |             |
|               |                     | 5 bars          | 34                  | 68          | 130  | 217          | 191         | 462             | 850           |                   |            |        |             |
|               |                     | 4 bars          | 31                  | 61          | 104  | 170          | 150         | 333             | 650           |                   |            |        |             |
| MTH 08 XT 309 | 309                 | 6,2 bars        | 31                  | 61          | 186  | 321          | 283         | 596             | 1000          | 238,2             | 69         | 3,4    |             |
|               |                     | 5 bars          | 28                  | 56          | 156  | 260          | 229         | 462             | 850           |                   |            |        |             |
|               |                     | 4 bars          | 25                  | 51          | 125  | 204          | 179         | 333             | 650           |                   |            |        |             |
| MTZ 08 XT 394 | 394                 | 6,2 bars        | 24                  | 48          | 237  | 410          | 360         | 596             | 1000          | 129,1             | 88,8       | 4,2    |             |
|               |                     | 5 bars          | 22                  | 44          | 199  | 332          | 292         | 462             | 850           |                   |            |        |             |
|               |                     | 4 bars          | 20                  | 40          | 159  | 260          | 229         | 333             | 650           |                   |            |        |             |
| MTZ 08 XT 564 | 564                 | 6,2 bars        | 17                  | 34          | 340  | 587          | 516         | 596             | 1000          | 129,1             | 88,8       | 4,2    |             |
|               |                     | 5 bars          | 15                  | 31          | 285  | 475          | 418         | 462             | 850           |                   |            |        |             |
|               |                     | 4 bars          | 14                  | 28          | 228  | 372          | 328         | 333             | 650           |                   |            |        |             |
| MTH/Z 08 RV   | Air motor reference | Reduction ratio | Air supply pressure | Speed (rpm) |      | Torque (N.m) |             |                 | Max Power (W) | Air cons (Nl/min) | Dimensions |        |             |
|               |                     |                 |                     | @ max Power | Free | @ max Power  | Max (stall) | Starting torque |               |                   | A (mm)     | Ø (mm) | Weight (kg) |
|               |                     |                 |                     |             |      |              |             |                 |               |                   |            |        |             |
| MTH 08 RV 190 | 190                 | 6,2 bars        | 48                  | 96          | 126  | 182          | 160         | 633             | 950           | 238,2             | 69         | 3,4    |             |
|               |                     | 5 bars          | 44                  | 88          | 103  | 149          | 131         | 471             | 750           |                   |            |        |             |
|               |                     | 4 bars          | 40                  | 79          | 85   | 116          | 102         | 351             | 600           |                   |            |        |             |
| MTH 08 RV 224 | 224                 | 6,2 bars        | 41                  | 81          | 149  | 214          | 189         | 633             | 950           | 238,2             | 69         | 3,4    |             |
|               |                     | 5 bars          | 37                  | 74          | 121  | 176          | 154         | 471             | 750           |                   |            |        |             |
|               |                     | 4 bars          | 34                  | 67          | 100  | 137          | 120         | 351             | 600           |                   |            |        |             |
| MTH 08 RV 258 | 258                 | 6,2 bars        | 35                  | 70          | 171  | 247          | 217         | 633             | 950           | 238,2             | 69         | 3,4    |             |
|               |                     | 5 bars          | 32                  | 65          | 139  | 202          | 178         | 471             | 750           |                   |            |        |             |
|               |                     | 4 bars          | 29                  | 58          | 115  | 157          | 139         | 351             | 600           |                   |            |        |             |
| MTH 08 RV 309 | 309                 | 6,2 bars        | 29                  | 59          | 205  | 296          | 260         | 633             | 950           | 238,2             | 69         | 3,4    |             |
|               |                     | 5 bars          | 27                  | 54          | 167  | 242          | 213         | 471             | 750           |                   |            |        |             |
|               |                     | 4 bars          | 24                  | 49          | 138  | 189          | 166         | 351             | 600           |                   |            |        |             |
| MTZ 08 RV 394 | 394                 | 6,2 bars        | 23                  | 46          | 262  | 377          | 332         | 633             | 950           | 129,1             | 88,8       | 4,2    |             |
|               |                     | 5 bars          | 21                  | 42          | 213  | 309          | 272         | 471             | 750           |                   |            |        |             |
|               |                     | 4 bars          | 19                  | 38          | 176  | 241          | 212         | 351             | 600           |                   |            |        |             |
| MTZ 08 RV 564 | 564                 | 6,2 bars        | 16                  | 32          | 375  | 540          | 475         | 633             | 950           | 129,1             | 88,8       | 4,2    |             |
|               |                     | 5 bars          | 15                  | 30          | 305  | 442          | 389         | 471             | 750           |                   |            |        |             |
|               |                     | 4 bars          | 13                  | 27          | 252  | 345          | 303         | 351             | 600           |                   |            |        |             |

For connection and lubrication, see page 51

Data indicated in this table have an accuracy of +/- 5%

### OPTIONS AVAILABLE FOR THE MTH 08

|                    |    |    |    |    |    |    |    |    |    |    |    |    |
|--------------------|----|----|----|----|----|----|----|----|----|----|----|----|
| Collected exhaust  | 01 | 03 | 07 | 09 | 10 | 12 | 16 | 17 | 21 | 22 | 29 | 30 |
| ATEX certification |    |    |    |    |    |    |    |    |    |    |    |    |
| Left/Right switch* |    |    |    |    |    |    |    |    |    |    |    |    |
| Lubrication free   |    |    |    |    |    |    |    |    |    |    |    |    |
| Kit start          |    |    |    |    |    |    |    |    |    |    |    |    |
| Code               | 03 | 03 | 07 | 09 | 10 | 12 | 16 | 17 | 21 | 22 | 29 | 30 |

\* sur modèle réversible uniquement

List of available accessories for this motor page 51

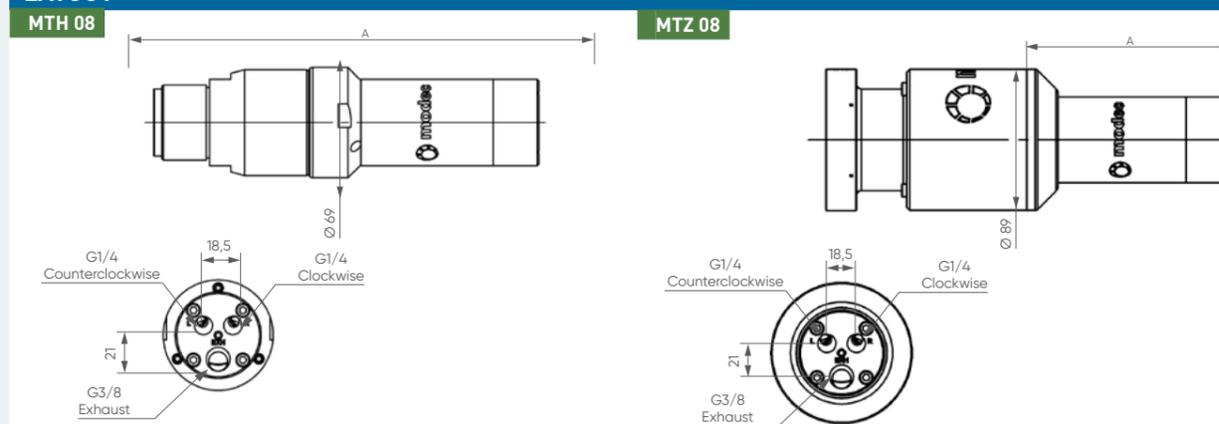
### OPTIONS DISPONIBLES POUR LE MOTEUR MTZ 08

|                    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|--------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Collected exhaust  | 01 | 03 | 07 | 09 | 10 | 11 | 12 | 16 | 17 | 21 | 22 | 23 | 27 | 28 | 29 | 30 | 36 | 37 |
| ATEX certification |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Left/Right switch* |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Lubrication free   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Kit start          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Stainless steel    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Code               | 01 | 03 | 07 | 09 | 10 | 11 | 12 | 16 | 17 | 21 | 22 | 23 | 27 | 28 | 29 | 30 | 36 | 37 |

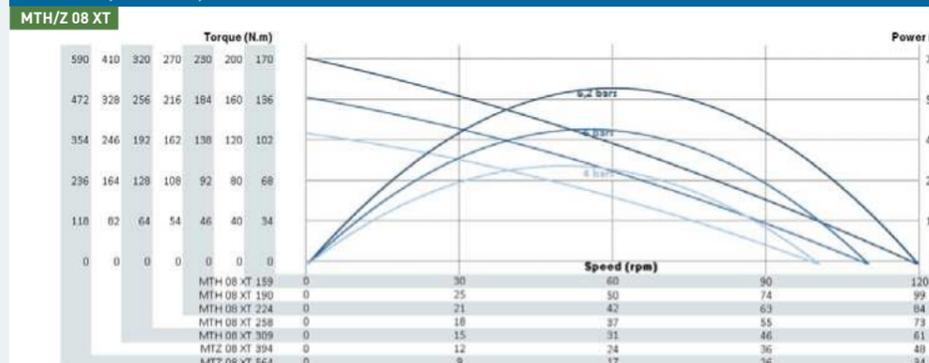
\* Reversible motors only

Voir les accessoires disponibles pour ce moteur en page 51

### LAYOUT



### POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS

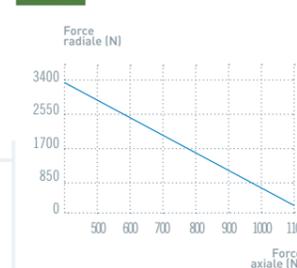


### MAXIMUM RADIAL & AXIAL LOAD



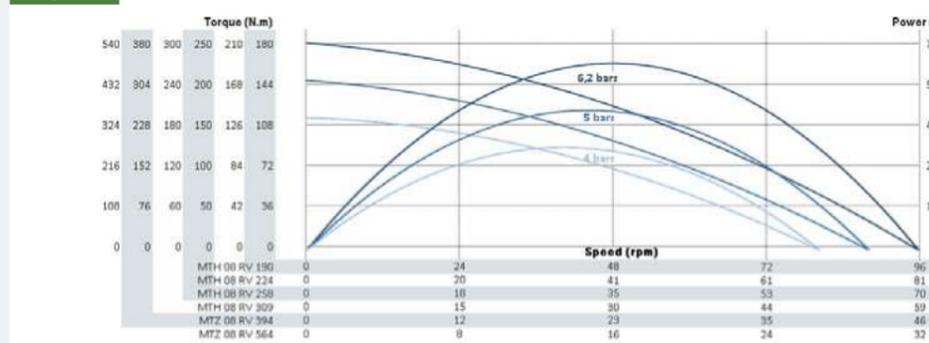
for 100 millions revolutions (load applied @ half shaft length)

### MTZ 08



for 100 millions revolutions (load applied @ half shaft length)

### MTH/Z 08 RV



### NOTES

# MOTOR NTH 08 / NTZ 08

## POWER 420-430 W

NTH 08 XT

NTH 08 RV

NTZ 08 XT

NTZ 08 RV

### REDUCTION RATIO

(3 digits)  
See table below

### OPTIONS

(2 digits)  
See table below

**N T H/Z 0 8 X X X X X X X X - X X**

### ROTATION\*

- RT Right (Clockwise)
- LT Left (CCW)
- RV Reversible

### FLANGE

(1 to 2 digits)  
NTH : Group IV pages 160 to 162  
NTZ : Group VI page 167

### OUTPUT SHAFT

(1 to 3 digits)  
NTH : Group IV pages 163 to 165  
NTZ : Group VI page 168

\* rotation direction is defined when looking from the back of the motor

## PERFORMANCES

| Air motor reference | Reduction ratio | Air supply pressure | Speed (rpm) |      | Torque (N.m) |             |                 | Max Power (W) | Air cons (NI/min) | Dimensions |        |             |
|---------------------|-----------------|---------------------|-------------|------|--------------|-------------|-----------------|---------------|-------------------|------------|--------|-------------|
|                     |                 |                     | @ max Power | Free | @ max Power  | Max (stall) | Starting torque |               |                   | A (mm)     | Ø (mm) | Weight (kg) |
| NTH 08 XT 190       | 190             | 6,2 bars            | 43          | 86   | 96           | 174         | 153             | 430           | 1000              | 277,3      | 69     | 3,6         |
|                     |                 | 5 bars              | 39          | 79   | 80           | 140         | 123             | 331           | 850               |            |        |             |
|                     |                 | 4 bars              | 36          | 71   | 64           | 108         | 95              | 239           | 650               |            |        |             |
| NTH 08 XT 224       | 224             | 6,2 bars            | 36          | 73   | 113          | 205         | 180             | 430           | 1000              | 277,3      | 69     | 3,6         |
|                     |                 | 5 bars              | 33          | 67   | 94           | 165         | 145             | 331           | 850               |            |        |             |
|                     |                 | 4 bars              | 30          | 60   | 75           | 127         | 112             | 239           | 650               |            |        |             |
| NTH 08 XT 258       | 258             | 6,2 bars            | 32          | 63   | 130          | 236         | 208             | 430           | 1000              | 277,3      | 69     | 3,6         |
|                     |                 | 5 bars              | 29          | 58   | 109          | 189         | 167             | 331           | 850               |            |        |             |
|                     |                 | 4 bars              | 26          | 53   | 87           | 147         | 129             | 239           | 650               |            |        |             |
| NTH 08 XT 309       | 309             | 6,2 bars            | 26          | 53   | 156          | 283         | 249             | 430           | 1000              | 277,3      | 69     | 3,6         |
|                     |                 | 5 bars              | 24          | 49   | 130          | 227         | 200             | 331           | 850               |            |        |             |
|                     |                 | 4 bars              | 22          | 44   | 104          | 176         | 154             | 239           | 650               |            |        |             |
| NTZ 08 XT 394       | 394             | 6,2 bars            | 21          | 41   | 199          | 360         | 317             | 430           | 1000              | 168,2      | 88,8   | 4,7         |
|                     |                 | 5 bars              | 19          | 38   | 166          | 289         | 255             | 331           | 850               |            |        |             |
|                     |                 | 4 bars              | 17          | 34   | 133          | 224         | 197             | 239           | 650               |            |        |             |
| NTZ 08 XT 564       | 564             | 6,2 bars            | 14          | 29   | 285          | 516         | 454             | 430           | 1000              | 168,2      | 88,8   | 4,7         |
|                     |                 | 5 bars              | 13          | 27   | 237          | 414         | 365             | 331           | 850               |            |        |             |
|                     |                 | 4 bars              | 12          | 24   | 190          | 320         | 282             | 239           | 650               |            |        |             |

| Air motor reference | Reduction ratio | Air supply pressure | Speed (rpm) |      | Torque (N.m) |             |                 | Max Power (W) | Air cons (NI/min) | Dimensions |        |             |
|---------------------|-----------------|---------------------|-------------|------|--------------|-------------|-----------------|---------------|-------------------|------------|--------|-------------|
|                     |                 |                     | @ max Power | Free | @ max Power  | Max (stall) | Starting torque |               |                   | A (mm)     | Ø (mm) | Weight (kg) |
| NTH 08 RV 224       | 224             | 6,2 bars            | 35          | 70   | 115          | 180         | 159             | 420           | 950               | 420,3      | 69     | 3,8         |
|                     |                 | 5 bars              | 32          | 63   | 96           | 146         | 129             | 317           | 750               |            |        |             |
|                     |                 | 4 bars              | 29          | 58   | 78           | 115         | 101             | 236           | 600               |            |        |             |
| NTH 08 RV 258       | 258             | 6,2 bars            | 30          | 61   | 132          | 207         | 182             | 420           | 950               | 420,3      | 69     | 3,8         |
|                     |                 | 5 bars              | 27          | 55   | 110          | 168         | 148             | 317           | 750               |            |        |             |
|                     |                 | 4 bars              | 25          | 50   | 90           | 132         | 116             | 236           | 600               |            |        |             |
| NTH 08 RV 309       | 309             | 6,2 bars            | 25          | 51   | 159          | 248         | 219             | 420           | 950               | 420,3      | 69     | 3,8         |
|                     |                 | 5 bars              | 23          | 46   | 132          | 202         | 177             | 317           | 750               |            |        |             |
|                     |                 | 4 bars              | 21          | 42   | 108          | 158         | 139             | 236           | 600               |            |        |             |
| NTZ 08 RV 394       | 394             | 6,2 bars            | 20          | 40   | 202          | 317         | 279             | 420           | 950               | 311,2      | 88,8   | 4,9         |
|                     |                 | 5 bars              | 18          | 36   | 168          | 257         | 226             | 317           | 750               |            |        |             |
|                     |                 | 4 bars              | 16          | 33   | 137          | 202         | 178             | 236           | 600               |            |        |             |
| NTZ 08 RV 564       | 564             | 6,2 bars            | 14          | 28   | 290          | 454         | 399             | 420           | 950               | 311,2      | 88,8   | 4,9         |
|                     |                 | 5 bars              | 13          | 25   | 241          | 368         | 324             | 317           | 750               |            |        |             |
|                     |                 | 4 bars              | 11          | 23   | 196          | 289         | 255             | 236           | 600               |            |        |             |

For connection and lubrication, see page 51

Data indicated in this table have an accuracy of +/- 5%

### OPTIONS AVAILABLE FOR THE NTH/Z 08 XT

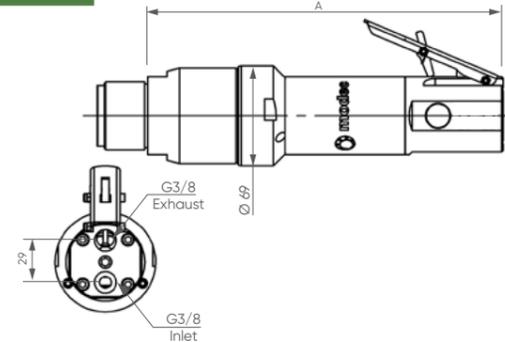
### OPTIONS AVAILABLE FOR THE NTH/Z 08 RV

|                    |    |    |    |    |    |    |                    |    |    |    |    |    |    |
|--------------------|----|----|----|----|----|----|--------------------|----|----|----|----|----|----|
| Collected exhaust  | ▶  | ▶  | ▶  | ▶  | ▶  | ▶  | ATEX certification | ▶  | ▶  | ▶  | ▶  | ▶  | ▶  |
| ATEX certification |    | ▶  |    |    |    |    | Left/Right switch  | ▶  | ▶  | ▶  | ▶  | ▶  | ▶  |
| Lubrication free   |    | ▶  |    |    |    |    | Lubrication free   |    |    | ▶  |    |    | ▶  |
| Kit start          |    |    | ▶  |    |    |    | Kit start          |    |    | ▶  |    |    | ▶  |
| Code               | 01 | 07 | 09 | 10 | 21 | 22 | Code               | 03 | 12 | 16 | 17 | 29 | 30 |

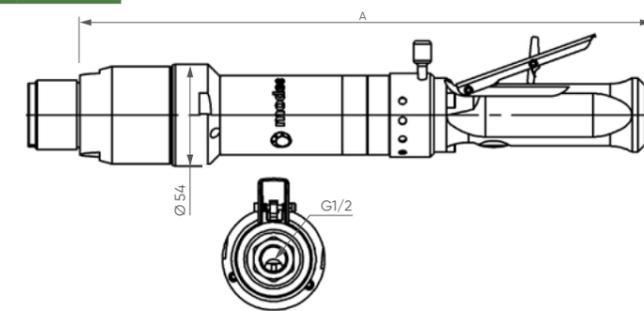
+ List of available accessories for this motor page 51

## LAYOUT

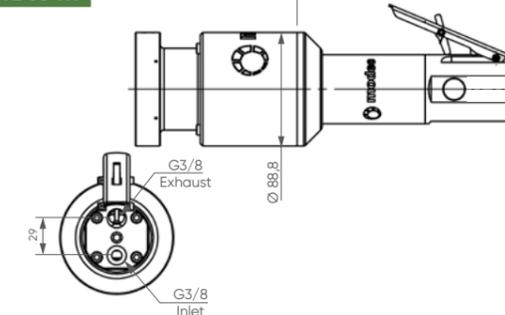
NTH 08 XT



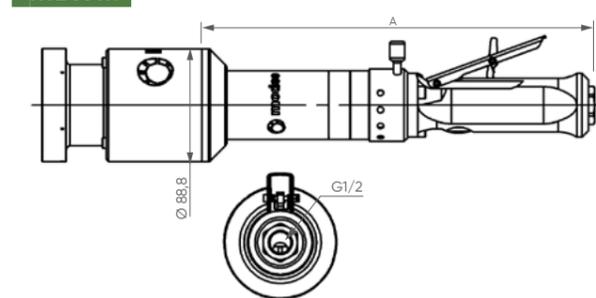
NTH 08 RV



NTZ 08 XT

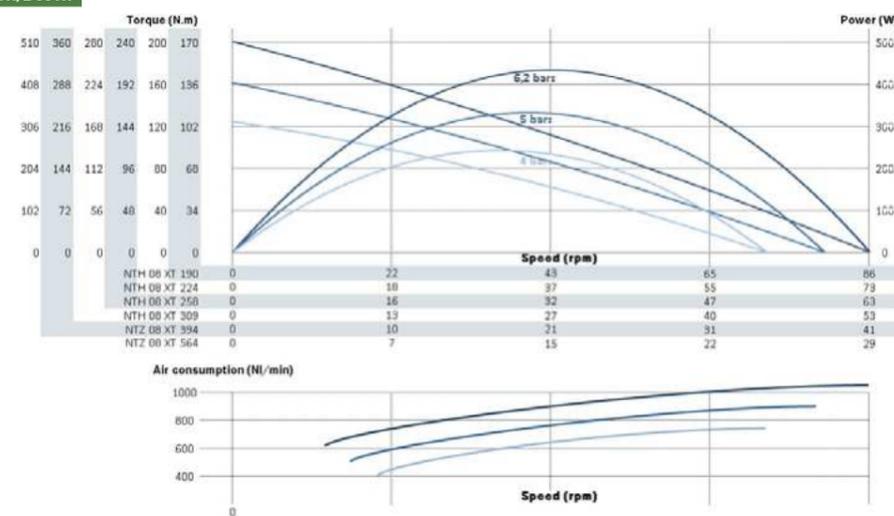


NTZ 08 RV

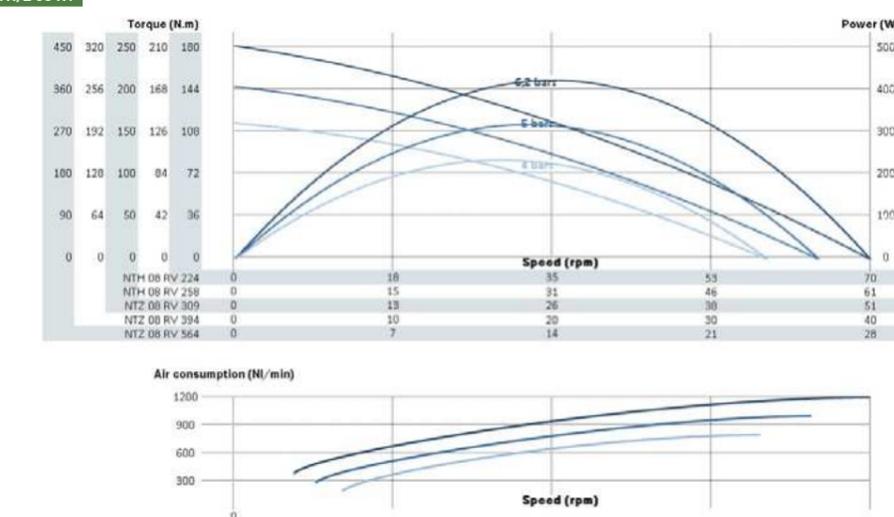


## POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS

NTH/Z 08 XT

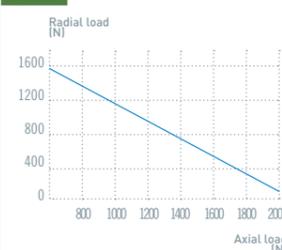


NTH/Z 08 RV



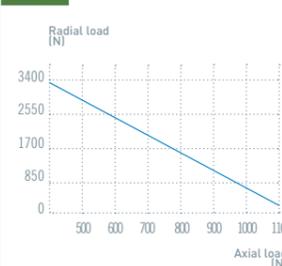
## MAXIMUM RADIAL & AXIAL LOAD

NTH 08



for 100 millions revolutions (load applied @ half shaft length)

NTZ 08



for 100 millions revolutions (load applied @ half shaft length)

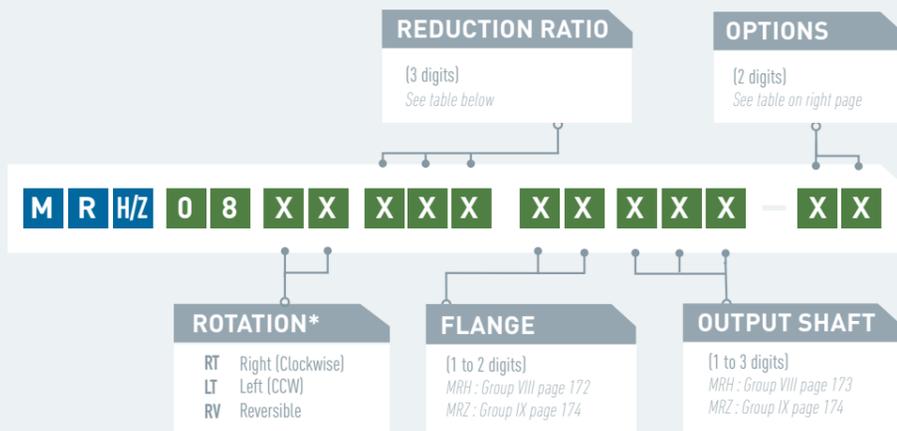
## NOTES





# MOTOR MRH 08 / MRZ 08

## POWER 560 -580 W



\* rotation direction is defined when looking from the back of the motor

**OPTIONS AVAILABLE FOR THIS MOTOR**

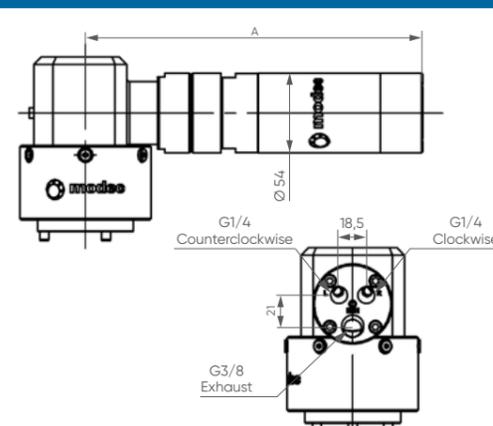
+ List of available accessories for this motor page 51

|                    |    |    |    |    |    |    |    |    |    |    |    |    |
|--------------------|----|----|----|----|----|----|----|----|----|----|----|----|
| Collected exhaust  | 01 | 03 | 07 | 09 | 10 | 12 | 16 | 17 | 21 | 22 | 29 | 30 |
| ATEX certification |    |    |    |    |    |    |    |    |    |    |    |    |
| Left/Right switch* |    |    |    |    |    |    |    |    |    |    |    |    |
| Lubrication free   |    |    |    |    |    |    |    |    |    |    |    |    |
| Kit start          |    |    |    |    |    |    |    |    |    |    |    |    |

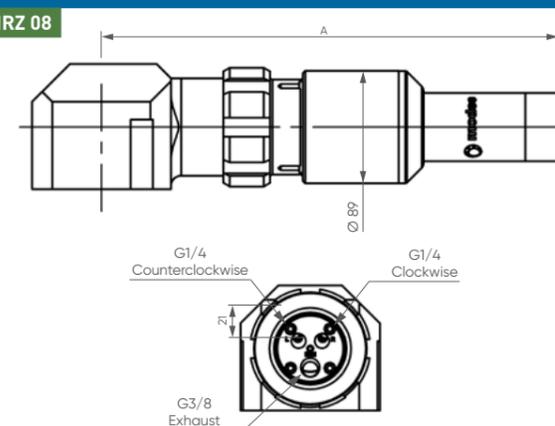
\* Reversible motors only

**LAYOUT**

MRH 08



MRZ 08



| PERFORMANCES  | MRH/Z 08 XT         |                 |                     |             |      |              |             |                 |               |                   | Dimensions |        |             |
|---------------|---------------------|-----------------|---------------------|-------------|------|--------------|-------------|-----------------|---------------|-------------------|------------|--------|-------------|
|               | Air motor reference | Reduction ratio | Air supply pressure | Speed (rpm) |      | Torque (N.m) |             |                 | Max Power (W) | Air cons (Nl/min) | A (mm)     | Ø (mm) | Weight (kg) |
|               |                     |                 |                     | @ max Power | Free | @ max Power  | Max (stall) | Starting torque |               |                   |            |        |             |
| MRH 08 XT 170 | 170                 | 6,2 bars        | 55                  | 110         | 97   | 158          | 145         | 563             | 950           | 252,9             | 54         | 5,1    |             |
|               |                     |                 | 51                  | 102         | 82   | 131          | 115         | 435             | 750           |                   |            |        |             |
|               |                     |                 | 46                  | 92          | 66   | 104          | 92          | 317             | 600           |                   |            |        |             |
| MRH 08 XT 195 | 195                 | 6,2 bars        | 48                  | 96          | 112  | 182          | 167         | 563             | 950           | 252,9             | 54         | 5,1    |             |
|               |                     |                 | 44                  | 89          | 94   | 150          | 132         | 435             | 750           |                   |            |        |             |
|               |                     |                 | 40                  | 80          | 76   | 120          | 106         | 317             | 600           |                   |            |        |             |
| MRH 08 XT 225 | 225                 | 6,2 bars        | 42                  | 83          | 129  | 209          | 192         | 563             | 950           | 252,9             | 54         | 5,1    |             |
|               |                     |                 | 38                  | 77          | 108  | 173          | 152         | 435             | 750           |                   |            |        |             |
|               |                     |                 | 35                  | 69          | 87   | 138          | 122         | 317             | 600           |                   |            |        |             |
| MRH 08 XT 269 | 269                 | 6,2 bars        | 35                  | 70          | 154  | 250          | 230         | 563             | 950           | 252,9             | 54         | 5,1    |             |
|               |                     |                 | 32                  | 64          | 129  | 207          | 182         | 435             | 750           |                   |            |        |             |
|               |                     |                 | 29                  | 58          | 104  | 166          | 146         | 317             | 600           |                   |            |        |             |
| MRH 08 XT 322 | 322                 | 6,2 bars        | 29                  | 58          | 185  | 300          | 275         | 563             | 950           | 252,9             | 54         | 5,1    |             |
|               |                     |                 | 27                  | 54          | 155  | 248          | 218         | 435             | 750           |                   |            |        |             |
|               |                     |                 | 24                  | 48          | 125  | 199          | 175         | 317             | 600           |                   |            |        |             |
| MRH 08 XT 411 | 411                 | 6,2 bars        | 23                  | 46          | 236  | 382          | 351         | 563             | 950           | 252,9             | 54         | 5,1    |             |
|               |                     |                 | 21                  | 42          | 198  | 316          | 279         | 435             | 750           |                   |            |        |             |
|               |                     |                 | 19                  | 38          | 159  | 253          | 223         | 317             | 600           |                   |            |        |             |
| MRH 08 XT 524 | 524                 | 6,2 bars        | 18                  | 36          | 301  | 488          | 447         | 563             | 950           | 252,9             | 54         | 5,1    |             |
|               |                     |                 | 16                  | 33          | 252  | 403          | 355         | 435             | 750           |                   |            |        |             |
|               |                     |                 | 15                  | 30          | 203  | 323          | 284         | 317             | 600           |                   |            |        |             |
| MRZ 08 XT 788 | 788                 | 6,2 bars        | 12                  | 24          | 452  | 733          | 673         | 563             | 950           | 364,7             | 88,8       | 10,1   |             |
|               |                     |                 | 11                  | 22          | 379  | 607          | 534         | 435             | 750           |                   |            |        |             |
|               |                     |                 | 10                  | 20          | 305  | 485          | 427         | 317             | 600           |                   |            |        |             |

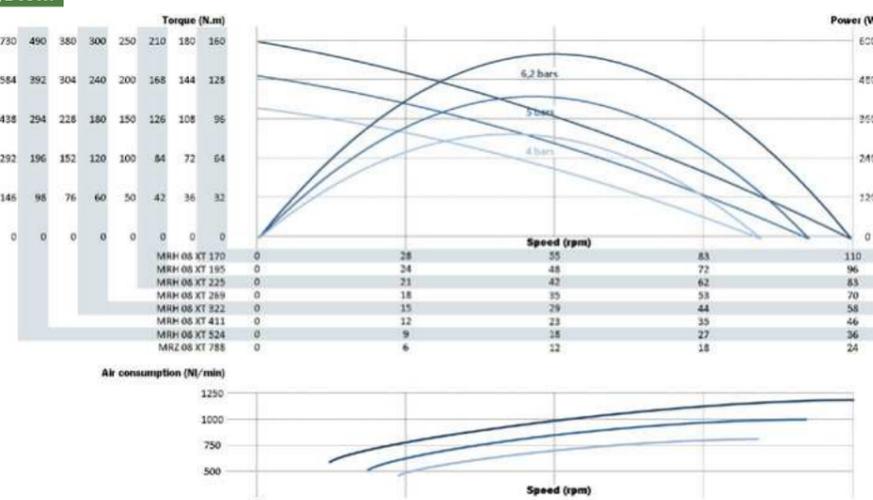
| PERFORMANCES  | MRH/Z 08 RV         |                 |                     |             |      |              |             |                 |               |                   | Dimensions |        |             |
|---------------|---------------------|-----------------|---------------------|-------------|------|--------------|-------------|-----------------|---------------|-------------------|------------|--------|-------------|
|               | Air motor reference | Reduction ratio | Air supply pressure | Speed (rpm) |      | Torque (N.m) |             |                 | Max Power (W) | Air cons (Nl/min) | A (mm)     | Ø (mm) | Weight (kg) |
|               |                     |                 |                     | @ max Power | Free | @ max Power  | Max (stall) | Starting torque |               |                   |            |        |             |
| MRH 08 RV 195 | 195                 | 6,2 bars        | 46                  | 92          | 120  | 174          | 153         | 579             | 950           | 252,9             | 54         | 5,1    |             |
|               |                     |                 | 42                  | 84          | 100  | 140          | 123         | 443             | 750           |                   |            |        |             |
|               |                     |                 | 38                  | 76          | 83   | 111          | 98          | 331             | 600           |                   |            |        |             |
| MRH 08 RV 225 | 225                 | 6,2 bars        | 40                  | 80          | 138  | 201          | 177         | 579             | 950           | 252,9             | 54         | 5,1    |             |
|               |                     |                 | 37                  | 73          | 116  | 161          | 142         | 443             | 750           |                   |            |        |             |
|               |                     |                 | 33                  | 66          | 95   | 128          | 113         | 331             | 600           |                   |            |        |             |
| MRH 08 RV 269 | 269                 | 6,2 bars        | 33                  | 67          | 165  | 240          | 212         | 579             | 950           | 252,9             | 54         | 5,1    |             |
|               |                     |                 | 31                  | 61          | 139  | 193          | 170         | 443             | 750           |                   |            |        |             |
|               |                     |                 | 28                  | 55          | 114  | 153          | 135         | 331             | 600           |                   |            |        |             |
| MRH 08 RV 322 | 322                 | 6,2 bars        | 28                  | 56          | 198  | 288          | 253         | 579             | 950           | 252,9             | 54         | 5,1    |             |
|               |                     |                 | 26                  | 51          | 166  | 231          | 203         | 443             | 750           |                   |            |        |             |
|               |                     |                 | 23                  | 46          | 137  | 184          | 162         | 331             | 600           |                   |            |        |             |
| MRH 08 RV 411 | 411                 | 6,2 bars        | 22                  | 44          | 252  | 367          | 323         | 579             | 950           | 252,9             | 54         | 5,1    |             |
|               |                     |                 | 20                  | 40          | 212  | 294          | 259         | 443             | 750           |                   |            |        |             |
|               |                     |                 | 18                  | 36          | 175  | 234          | 206         | 331             | 600           |                   |            |        |             |
| MRH 08 RV 524 | 524                 | 6,2 bars        | 17                  | 34          | 322  | 468          | 412         | 579             | 950           | 252,9             | 54         | 5,1    |             |
|               |                     |                 | 16                  | 31          | 270  | 375          | 330         | 443             | 750           |                   |            |        |             |
|               |                     |                 | 14                  | 28          | 223  | 299          | 263         | 331             | 600           |                   |            |        |             |
| MRZ 08 RV 788 | 788                 | 6,2 bars        | 11                  | 23          | 484  | 704          | 619         | 579             | 950           | 364,7             | 88,8       | 10,1   |             |
|               |                     |                 | 10                  | 21          | 406  | 564          | 497         | 443             | 750           |                   |            |        |             |
|               |                     |                 | 9,4                 | 19          | 335  | 449          | 395         | 331             | 600           |                   |            |        |             |

For connection and lubrication, see page 51

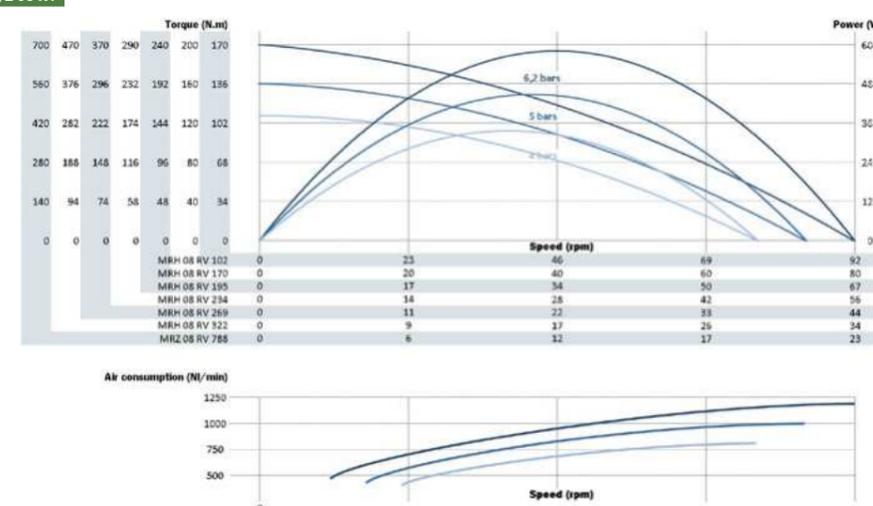
Data indicated in this table have an accuracy of +/- 5%

**POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS**

MRH/Z 08 XT

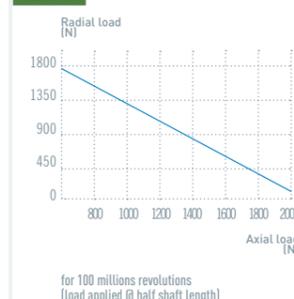


MRH/Z 08 RV

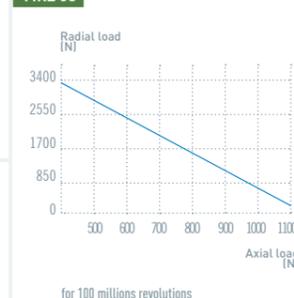


**MAXIMUM RADIAL & AXIAL LOAD**

MRH 08



MRZ 08



**NOTES**

# MOTOR NRH 08 / NRZ 08

POWER 400 W



### REDUCTION RATIO

(3 digits)  
See table below

### OPTIONS

(2 digits)  
See table below

**N R H/Z 0 8 X X X X X X X X - X X**

### ROTATION\*

- RT Right (Clockwise)
- LT Left (CCW)
- RV Reversible

### FLANGE

(1 to 2 digits)  
NRH : Group VIII page 172  
NRZ : Group IX page 174

### OUTPUT SHAFT

(1 to 3 digits)  
MRH : Group VIII page 173  
MRZ : Group IX page 174

\* rotation direction is defined when looking from the back of the motor

## PERFORMANCES

| NRH/Z 08 XT   | Air motor reference | Reduction ratio | Air supply pressure | Speed (rpm) |      | Torque (N.m) |             |                 | Max Power (W) | Air cons (Nl/min) | Dimensions |        |             |
|---------------|---------------------|-----------------|---------------------|-------------|------|--------------|-------------|-----------------|---------------|-------------------|------------|--------|-------------|
|               |                     |                 |                     | @ max Power | Free | @ max Power  | Max (stall) | Starting torque |               |                   | A (mm)     | Ø (mm) | Weight (kg) |
| NRH 08 XT 225 |                     | 225             | 6,2 bars            | 36          | 72   | 107          | 192         | 169             | 400           | 900               | 292        | 54     | 5,4         |
|               |                     |                 | 5 bars              | 33          | 66   | 88           | 157         | 135             | 305           | 750               |            |        |             |
|               |                     |                 | 4 bars              | 30          | 60   | 71           | 125         | 110             | 223           | 600               |            |        |             |
| NRH 08 XT 269 |                     | 269             | 6,2 bars            | 30          | 60   | 128          | 230         | 202             | 400           | 900               | 292        | 54     | 5,4         |
|               |                     |                 | 5 bars              | 28          | 55   | 105          | 188         | 162             | 305           | 750               |            |        |             |
|               |                     |                 | 4 bars              | 25          | 50   | 85           | 149         | 131             | 223           | 600               |            |        |             |
| NRH 08 XT 322 |                     | 322             | 6,2 bars            | 25          | 50   | 153          | 275         | 242             | 400           | 900               | 292        | 54     | 5,4         |
|               |                     |                 | 5 bars              | 23          | 46   | 126          | 225         | 194             | 305           | 750               |            |        |             |
|               |                     |                 | 4 bars              | 21          | 42   | 102          | 179         | 157             | 223           | 600               |            |        |             |
| NRH 08 XT 411 |                     | 411             | 6,2 bars            | 20          | 39   | 195          | 351         | 309             | 400           | 900               | 292        | 54     | 5,4         |
|               |                     |                 | 5 bars              | 18          | 36   | 161          | 287         | 248             | 305           | 750               |            |        |             |
|               |                     |                 | 4 bars              | 16          | 33   | 130          | 228         | 201             | 223           | 600               |            |        |             |
| NRH 08 XT 524 |                     | 524             | 6,2 bars            | 15          | 31   | 249          | 447         | 394             | 400           | 900               | 292        | 54     | 5,4         |
|               |                     |                 | 5 bars              | 14          | 28   | 205          | 366         | 316             | 305           | 750               |            |        |             |
|               |                     |                 | 4 bars              | 13          | 26   | 166          | 290         | 256             | 223           | 600               |            |        |             |
| NRZ 08 XT 788 |                     | 788             | 6,2 bars            | 10          | 20   | 374          | 673         | 592             | 400           | 900               | 403,8      | 88,8   | 10,3        |
|               |                     |                 | 5 bars              | 9,4         | 19   | 309          | 550         | 475             | 305           | 750               |            |        |             |
|               |                     |                 | 4 bars              | 8,5         | 17   | 250          | 437         | 384             | 223           | 600               |            |        |             |

| NRH/Z 08 RV   | Air motor reference | Reduction ratio | Air supply pressure | Speed (rpm) |      | Torque (N.m) |             |                 | Max Power (W) | Air cons (Nl/min) | Dimensions |        |             |
|---------------|---------------------|-----------------|---------------------|-------------|------|--------------|-------------|-----------------|---------------|-------------------|------------|--------|-------------|
|               |                     |                 |                     | @ max Power | Free | @ max Power  | Max (stall) | Starting torque |               |                   | A (mm)     | Ø (mm) | Weight (kg) |
| NRH 08 RV 225 |                     | 225             | 6,2 bars            | 34          | 69   | 110          | 169         | 148             | 396           | 950               | 442,3      | 57     | 5,8         |
|               |                     |                 | 5 bars              | 31          | 63   | 91           | 137         | 119             | 298           | 750               |            |        |             |
|               |                     |                 | 4 bars              | 28          | 57   | 74           | 108         | 95              | 222           | 600               |            |        |             |
| NRH 08 RV 269 |                     | 269             | 6,2 bars            | 29          | 58   | 131          | 202         | 178             | 396           | 950               | 442,3      | 57     | 5,8         |
|               |                     |                 | 5 bars              | 26          | 52   | 109          | 164         | 142             | 298           | 750               |            |        |             |
|               |                     |                 | 4 bars              | 24          | 48   | 89           | 129         | 113             | 222           | 600               |            |        |             |
| NRH 08 RV 322 |                     | 322             | 6,2 bars            | 24          | 48   | 157          | 242         | 213             | 396           | 950               | 442,3      | 57     | 5,8         |
|               |                     |                 | 5 bars              | 22          | 44   | 130          | 196         | 171             | 298           | 750               |            |        |             |
|               |                     |                 | 4 bars              | 20          | 40   | 107          | 154         | 136             | 222           | 600               |            |        |             |
| NRH 08 RV 411 |                     | 411             | 6,2 bars            | 19          | 38   | 201          | 308         | 271             | 396           | 950               | 442,3      | 57     | 5,8         |
|               |                     |                 | 5 bars              | 17          | 34   | 166          | 250         | 218             | 298           | 750               |            |        |             |
|               |                     |                 | 4 bars              | 16          | 31   | 136          | 197         | 173             | 222           | 600               |            |        |             |
| NRH 08 RV 524 |                     | 524             | 6,2 bars            | 15          | 30   | 256          | 393         | 346             | 396           | 950               | 442,3      | 57     | 5,8         |
|               |                     |                 | 5 bars              | 13          | 27   | 211          | 319         | 277             | 298           | 750               |            |        |             |
|               |                     |                 | 4 bars              | 12          | 24   | 174          | 251         | 221             | 222           | 600               |            |        |             |
| NRH 08 RV 750 |                     | 750             | 6,2 bars            | 10          | 21   | 367          | 563         | 496             | 396           | 950               | 442,3      | 57     | 5,8         |
|               |                     |                 | 5 bars              | 9,4         | 19   | 303          | 456         | 397             | 298           | 750               |            |        |             |
|               |                     |                 | 4 bars              | 8,5         | 17   | 249          | 359         | 316             | 222           | 600               |            |        |             |
| NRZ 08 RV 1k1 |                     | 1128            | 6,2 bars            | 6,9         | 14   | 551          | 847         | 745             | 396           | 950               | 546,8      | 88,8   | 10,8        |
|               |                     |                 | 5 bars              | 6,3         | 13   | 455          | 686         | 597             | 298           | 750               |            |        |             |
|               |                     |                 | 4 bars              | 5,7         | 11   | 374          | 540         | 475             | 222           | 600               |            |        |             |

For connection and lubrication, see page 51

Data indicated in this table have an accuracy of +/- 5%

### OPTIONS AVAILABLE FOR THE NRH/Z 08 XT

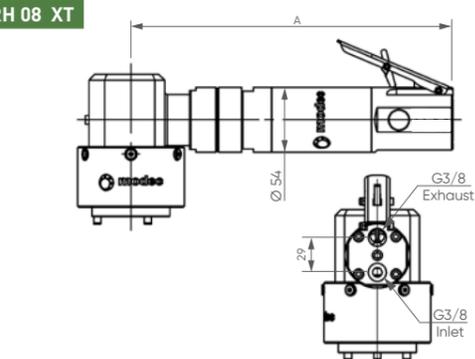
### OPTIONS AVAILABLE FOR THE NRH/Z 08 RV

|                    |    |    |    |    |    |    |                   |    |    |    |    |    |    |
|--------------------|----|----|----|----|----|----|-------------------|----|----|----|----|----|----|
| Collected exhaust  | ▶  | ▶  | ▶  | ▶  | ▶  | ▶  | ATEX              | ▶  | ▶  | ▶  | ▶  | ▶  | ▶  |
| ATEX certification |    | ▶  |    |    |    |    | Left/Right switch | ▶  | ▶  | ▶  | ▶  | ▶  | ▶  |
| Lubrication free   |    |    | ▶  |    |    |    | Lubrication free  |    |    | ▶  |    | ▶  | ▶  |
| Kit start          |    |    |    | ▶  |    |    | Kit start         |    |    | ▶  |    |    | ▶  |
| Code               | 01 | 07 | 09 | 10 | 21 | 22 | Code              | 03 | 12 | 16 | 17 | 29 | 30 |

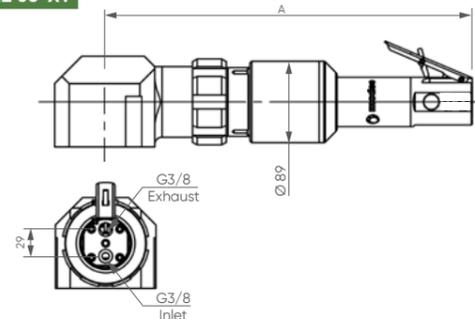
+ List of available accessories for this motor page 51

## LAYOUT

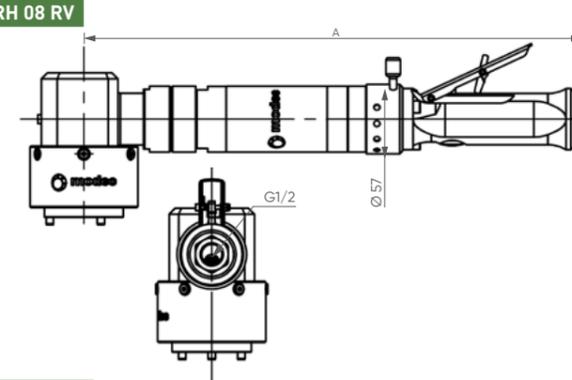
### NRH 08 XT



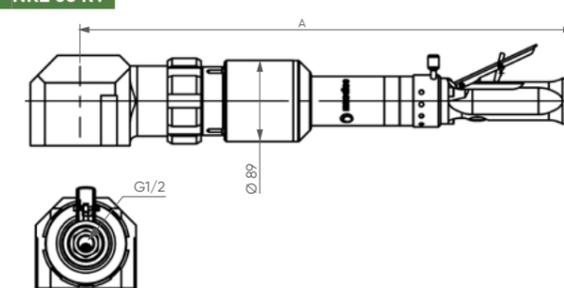
### NRZ 08 XT



### NRH 08 RV

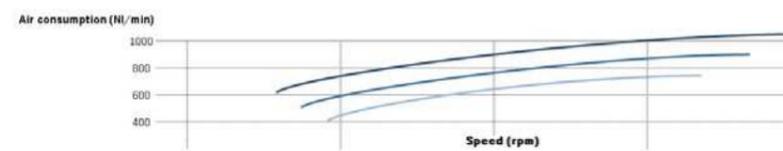
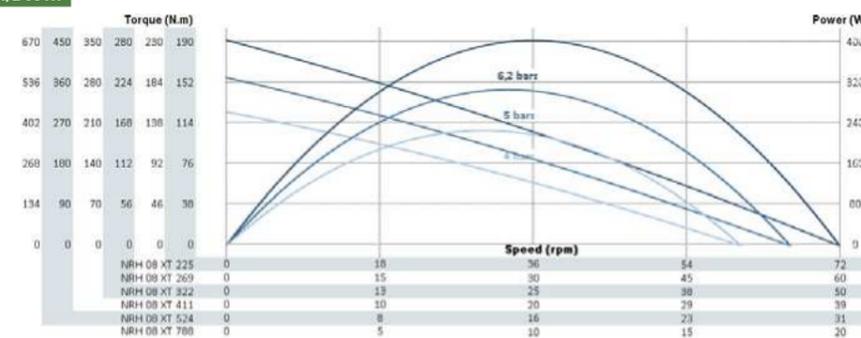


### NRZ 08 RV

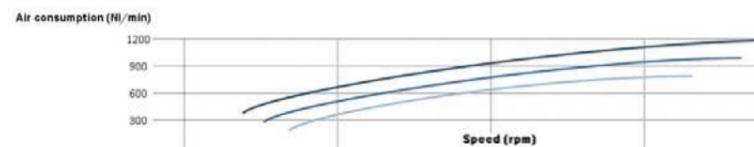
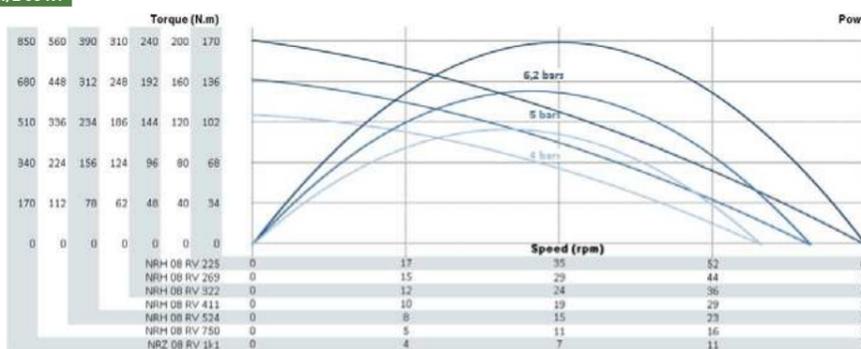


## POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS

### NRH/Z 08 XT

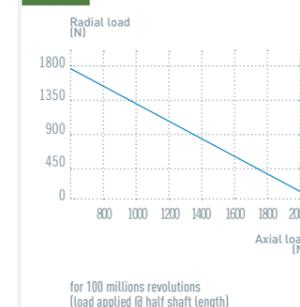


### NRH/Z 08 RV

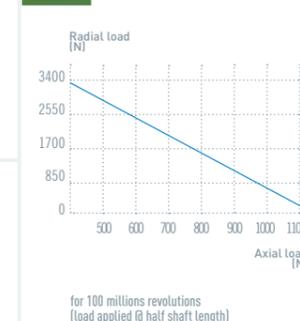


## MAXIMUM RADIAL & AXIAL LOAD

### NRH 08



### NRZ 08

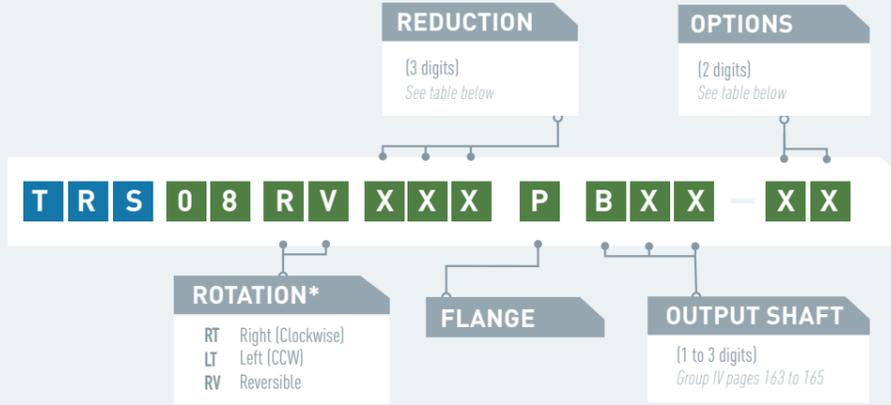


## NOTES

# TAPPING MACHINE TRS 08

## POWER 460 W

TRS 08



\* rotation direction is defined when looking from the back of the motor

| PERFORMANCES  | TRS 08    |                 |                     |             |      |              |             |                 |               |                   |            |        |             |
|---------------|-----------|-----------------|---------------------|-------------|------|--------------|-------------|-----------------|---------------|-------------------|------------|--------|-------------|
|               | reference | Reduction ratio | Air supply pressure | Speed (rpm) |      | Torque (N.m) |             |                 | Max Power (W) | Air cons (Nl/min) | Dimensions |        |             |
|               |           |                 |                     | @ max Power | Free | @ max Power  | Max (stall) | Starting torque |               |                   | A (mm)     | Ø (mm) | Weight (kg) |
| TRS 08 RV 005 | 5         | 6,2 bars        | 1627                | 3239        | 2,7  | 3,9          | 3,6         | 457             | 950           | 176               | 54         | 2      |             |
|               |           | 5 bars          | 1475                | 2950        | 2,3  | 3,2          | 2,9         | 356             | 750           |                   |            |        |             |
|               |           | 4 bars          | 1347                | 2694        | 1,9  | 2,6          | 2,4         | 264             | 600           |                   |            |        |             |
| TRS 08 RV 006 | 6         | 6,2 bars        | 1359                | 2704        | 3,2  | 4,7          | 4,3         | 457             | 950           | 176               | 54         | 2      |             |
|               |           | 5 bars          | 1231                | 2463        | 2,8  | 3,9          | 3,5         | 356             | 750           |                   |            |        |             |
|               |           | 4 bars          | 1124                | 2249        | 2,2  | 3,1          | 2,9         | 264             | 600           |                   |            |        |             |
| TRS 08 RV 007 | 7         | 6,2 bars        | 1066                | 2121        | 4,1  | 6,0          | 5,5         | 457             | 950           | 176               | 54         | 2      |             |
|               |           | 5 bars          | 966                 | 1932        | 3,5  | 5,0          | 4,4         | 356             | 750           |                   |            |        |             |
|               |           | 4 bars          | 882                 | 1764        | 2,9  | 4,0          | 3,7         | 264             | 600           |                   |            |        |             |
| TRS 08 RV     | 11        | 6,2 bars        | 744                 | 1481        | 5,9  | 8,6          | 7,9         | 457             | 950           | 176               | 54         | 2      |             |
|               |           | 5 bars          | 674                 | 1349        | 5,0  | 7,1          | 6,3         | 356             | 750           |                   |            |        |             |
|               |           | 4 bars          | 616                 | 1231        | 4,1  | 5,7          | 5,3         | 264             | 600           |                   |            |        |             |
| TRS 08 RV 023 | 23        | 6,2 bars        | 339                 | 675         | 13   | 19           | 17          | 457             | 950           | 203               | 54         | 2,3    |             |
|               |           | 5 bars          | 307                 | 615         | 11   | 16           | 14          | 356             | 750           |                   |            |        |             |
|               |           | 4 bars          | 281                 | 561         | 9,0  | 13           | 12          | 264             | 600           |                   |            |        |             |
| TRS 08 RV 028 | 28        | 6,2 bars        | 283                 | 563         | 15   | 23           | 21          | 457             | 950           | 203               | 54         | 2,3    |             |
|               |           | 5 bars          | 257                 | 513         | 13   | 19           | 17          | 356             | 750           |                   |            |        |             |
|               |           | 4 bars          | 234                 | 468         | 11   | 15           | 14          | 264             | 600           |                   |            |        |             |
| TRS 08 RV 035 | 35        | 6,2 bars        | 222                 | 442         | 20   | 29           | 26          | 457             | 950           | 203               | 54         | 2,3    |             |
|               |           | 5 bars          | 201                 | 403         | 17   | 24           | 21          | 356             | 750           |                   |            |        |             |
|               |           | 4 bars          | 184                 | 368         | 14   | 19           | 18          | 264             | 600           |                   |            |        |             |
| TRS 08 RV 042 | 42        | 6,2 bars        | 185                 | 369         | 24   | 35           | 32          | 457             | 950           | 203               | 54         | 2,3    |             |
|               |           | 5 bars          | 168                 | 336         | 20   | 28           | 25          | 356             | 750           |                   |            |        |             |
|               |           | 4 bars          | 153                 | 307         | 16   | 23           | 21          | 264             | 600           |                   |            |        |             |
| TRS 08 RV 054 | 54        | 6,2 bars        | 145                 | 289         | 30   | 44           | 40          | 457             | 950           | 203               | 54         | 2,3    |             |
|               |           | 5 bars          | 132                 | 264         | 26   | 36           | 32          | 356             | 750           |                   |            |        |             |
|               |           | 4 bars          | 120                 | 241         | 21   | 29           | 27          | 264             | 600           |                   |            |        |             |
| TRS 08 RV 060 | 60        | 6,2 bars        | 129                 | 258         | 34   | 49           | 45          | 457             | 950           | 203               | 54         | 2,3    |             |
|               |           | 5 bars          | 117                 | 235         | 29   | 41           | 36          | 356             | 750           |                   |            |        |             |
|               |           | 4 bars          | 107                 | 214         | 24   | 33           | 30          | 264             | 600           |                   |            |        |             |
| TRS 08 RV 077 | 77        | 6,2 bars        | 102                 | 202         | 43   | 63           | 58          | 457             | 950           | 203               | 54         | 2,3    |             |
|               |           | 5 bars          | 92                  | 184         | 37   | 52           | 46          | 356             | 750           |                   |            |        |             |
|               |           | 4 bars          | 84                  | 168         | 30   | 42           | 39          | 264             | 600           |                   |            |        |             |
| TRS 08 RV 111 | 111       | 6,2 bars        | 71                  | 141         | 62   | 91           | 83          | 457             | 950           | 227               | 54         | 2,8    |             |
|               |           | 5 bars          | 64                  | 128         | 53   | 75           | 67          | 356             | 750           |                   |            |        |             |
|               |           | 4 bars          | 58                  | 117         | 43   | 60           | 56          | 264             | 600           |                   |            |        |             |
| TRS 08 RV 132 | 132       | 6,2 bars        | 59                  | 117         | 74   | 108          | 100         | 457             | 950           | 227               | 54         | 2,8    |             |
|               |           | 5 bars          | 53                  | 107         | 64   | 90           | 80          | 356             | 750           |                   |            |        |             |
|               |           | 4 bars          | 49                  | 98          | 52   | 72           | 67          | 264             | 600           |                   |            |        |             |
| TRS 08 RV 159 | 159       | 6,2 bars        | 49                  | 98          | 89   | 130          | 120         | 457             | 950           | 227               | 54         | 2,8    |             |
|               |           | 5 bars          | 45                  | 89          | 76   | 107          | 95          | 356             | 750           |                   |            |        |             |
|               |           | 4 bars          | 41                  | 81          | 62   | 87           | 80          | 264             | 600           |                   |            |        |             |
| TRS 08 RV 202 | 202       | 6,2 bars        | 39                  | 77          | 113  | 166          | 152         | 457             | 950           | 227               | 54         | 2,8    |             |
|               |           | 5 bars          | 35                  | 70          | 97   | 137          | 122         | 356             | 750           |                   |            |        |             |
|               |           | 4 bars          | 32                  | 64          | 79   | 110          | 102         | 264             | 600           |                   |            |        |             |

For connection and lubrication, see page 51

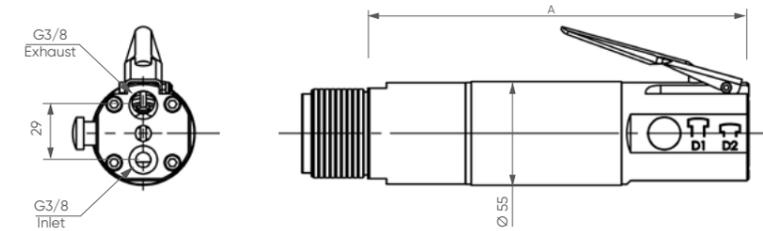
Data indicated in this table have an accuracy of +/- 5%

| OPTIONS AVAILABLE FOR THE TRS 08 |    |    |    |    |    |    |
|----------------------------------|----|----|----|----|----|----|
| ATEX certification               |    | ▶  | ▶  | ▶  | ▶  |    |
| Left/Right switch                | ▶  | ▶  | ▶  | ▶  | ▶  |    |
| Lubrication free                 |    |    | ▶  |    |    |    |
| Kit start                        |    |    | ▶  |    | ▶  |    |
| Code                             | 03 | 12 | 16 | 17 | 29 | 30 |

+ List of available accessories for this motor page 51

### LAYOUT

TRS 08

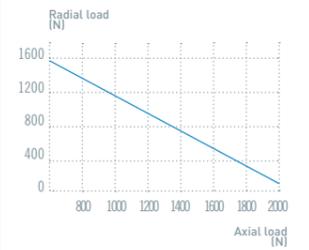


### TAPPING CAPABILITY

TRS 08

|               |             | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M18 | M20 |
|---------------|-------------|----|----|----|----|----|-----|-----|-----|-----|-----|-----|
| TRS 08 RV 005 | Aluminum    |    |    |    |    |    |     |     |     |     |     |     |
|               | Steel <70kg |    |    |    |    |    |     |     |     |     |     |     |
| TRS 08 RV 006 | Aluminum    |    |    |    |    |    |     |     |     |     |     |     |
|               | Steel <70kg |    |    |    |    |    |     |     |     |     |     |     |
| TRS 08 RV 007 | Aluminum    |    |    |    |    |    |     |     |     |     |     |     |
|               | Steel <70kg |    |    |    |    |    |     |     |     |     |     |     |
| TRS 08 RV 011 | Aluminum    |    |    |    |    |    |     |     |     |     |     |     |
|               | Steel <70kg |    |    |    |    |    |     |     |     |     |     |     |
| TRS 08 RV 023 | Aluminum    |    |    |    |    |    |     |     |     |     |     |     |
|               | Steel <70kg |    |    |    |    |    |     |     |     |     |     |     |
| TRS 08 RV 028 | Aluminum    |    |    |    |    |    |     |     |     |     |     |     |
|               | Steel <70kg |    |    |    |    |    |     |     |     |     |     |     |
| TRS 08 RV 035 | Aluminum    |    |    |    |    |    |     |     |     |     |     |     |
|               | Steel <70kg |    |    |    |    |    |     |     |     |     |     |     |
| TRS 08 RV 042 | Aluminum    |    |    |    |    |    |     |     |     |     |     |     |
|               | Steel <70kg |    |    |    |    |    |     |     |     |     |     |     |
| TRS 08 RV 054 | Aluminum    |    |    |    |    |    |     |     |     |     |     |     |
|               | Steel <70kg |    |    |    |    |    |     |     |     |     |     |     |
| TRS 08 RV 060 | Aluminum    |    |    |    |    |    |     |     |     |     |     |     |
|               | Steel <70kg |    |    |    |    |    |     |     |     |     |     |     |
| TRS 08 RV 077 | Aluminum    |    |    |    |    |    |     |     |     |     |     |     |
|               | Steel <70kg |    |    |    |    |    |     |     |     |     |     |     |
| TRS 08 RV 111 | Aluminum    |    |    |    |    |    |     |     |     |     |     |     |
|               | Steel <70kg |    |    |    |    |    |     |     |     |     |     |     |
| TRS 08 RV 132 | Aluminum    |    |    |    |    |    |     |     |     |     |     |     |
|               | Steel <70kg |    |    |    |    |    |     |     |     |     |     |     |
| TRS 08 RV 159 | Aluminum    |    |    |    |    |    |     |     |     |     |     |     |
|               | Steel <70kg |    |    |    |    |    |     |     |     |     |     |     |
| TRS 08 RV 202 | Aluminum    |    |    |    |    |    |     |     |     |     |     |     |
|               | Steel <70kg |    |    |    |    |    |     |     |     |     |     |     |

### MAXIMUM RADIAL & AXIAL LOAD

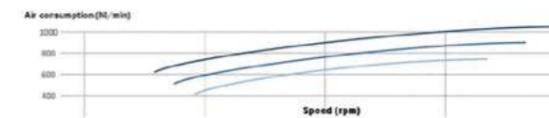
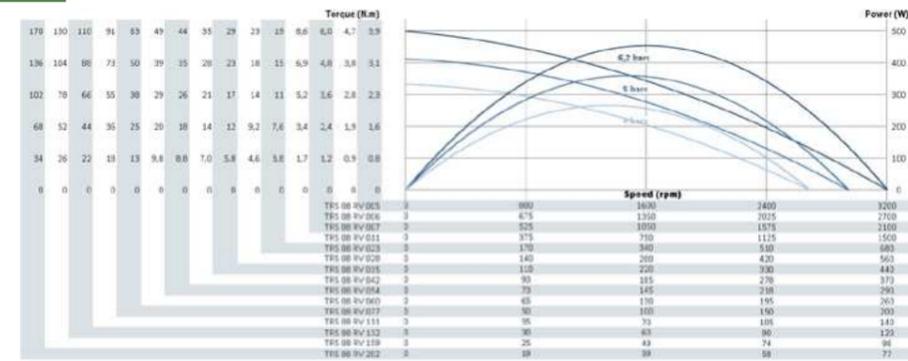


for 100 millions revolutions (load applied @ half shaft length)

### NOTES

### POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS

TRS 08 RV



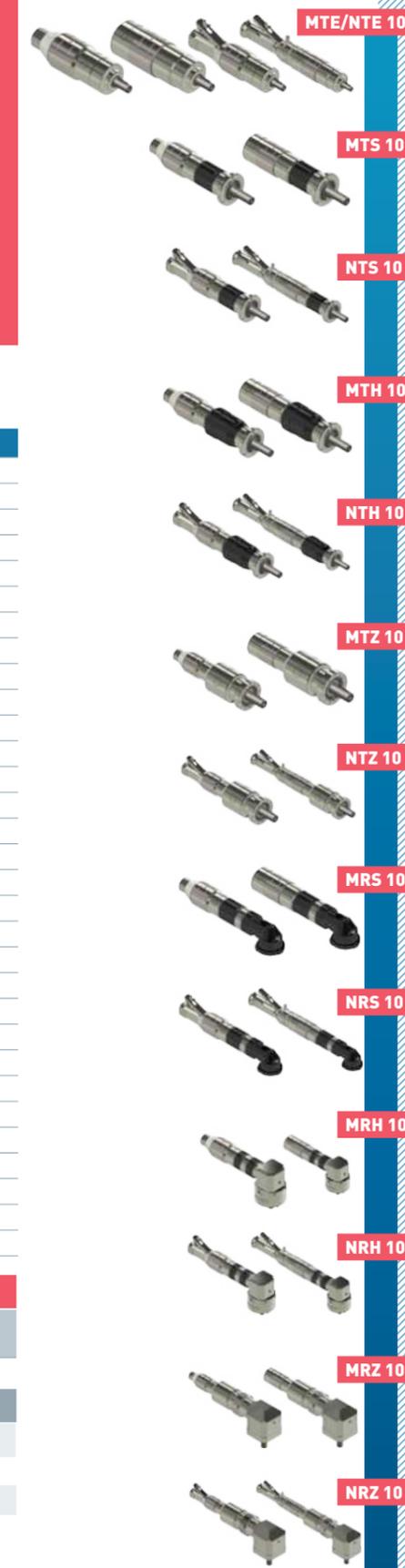


MAX POWER  
**1300 W**  
MAX TORQUE  
**1000 Nm**

Powerful and compact, "10" series air motors can develop more than 1200 W and weigh only 2kg for a 60 mm diameter and a total length that can be as short as 155 mm. This makes it one of the highest power-to-weight ratio air motor on the market.

Available in 4 families (Easy, Standard, Heavy and Super heavy duty) with several types of gearboxes and right angle heads, it can develop up to 1000 Nm torque.

The wide variety of flanges and shafts allows the "10" range air motors to be easily fitted to any machine for a wide range of applications.



| + | ACCESSORIES FOR THIS MOTOR                                 | Reference | Information |
|---|--|-----------|-------------|
|   | Filtration, pressure Regulation and Lubrication unit (FRL) | AC107     | Page 177    |
|   | Safety Air Treatment Box (SAT Box)                         | AC118     | Page 178    |
|   | With Pedal remote control                                  | AC119     | Page 178    |
|   | With handle remote control                                 | AC120     | Page 178    |
|   | With remote emergency kill switch                          | AC125     | Page 178    |
|   | With remote E-Stop and pedal remote control                | AC121     | Page 178    |
|   | With remote E-Stop and handle remote control               | AC122     | Page 178    |
|   | Maintenance kits   |           |             |
|   | Maintenance kit for "10 XT" series                         | AC303     | Page 181    |
|   | Maintenance kit for "10 RV" series                         | AC308     | Page 181    |
|   | Maintenance kit for lube free "10 XT" series               | AC313     | Page 181    |
|   | Maintenance kit for lube free "10 RV" series               | AC318     | Page 181    |
|   | Maintenance kit for kit start "10 XT" series               | AC323     | Page 181    |
|   | Maintenance kit for kit start "10 RV" series               | AC328     | Page 181    |
|   | Exhaust collector kit for "10" series                      | AC340     | Page 181    |
|   | modec Oil Co-16  | AC149     | Page 178    |
|   | Control handles  |           |             |
|   | Safety control handle for non reversible "10" series       | AC406     | Page 179    |
|   | Safety control handle for reversible "10" series           | AC404     | Page 179    |
|   | Progressive control handle for non reversible "10" series  | AC400     | Page 179    |
|   | Progressive control handle for reversible "10" series      | AC408     | Page 179    |
|   | Filters and silencers                                      |           |             |
|   | Metallic standard silencer                                 | AC182     | Page 179    |
|   | Metallic standard inlet silencer (RV)                      | AC181     | Page 179    |
|   | Plastic standard silencer                                  | AC152     | Page 180    |
|   | Plastic standard inlet silencer (RV)                       | AC183     | Page 180    |
|   | Heavy duty silencer  | AC156     | Page 180    |
|   | Heavy duty inlet silencer (RV)                             | AC155     | Page 180    |
|   | High flow air muffler                                      | AC158     | Page 181    |
|   | Exhaust silencer filter                                    | AC165     | Page 180    |
|   | Speed control muffler                                      | AC174     | Page 180    |

| CONNECTION AND LUBRICATION |                |                |                        |                  |
|----------------------------|----------------|----------------|------------------------|------------------|
| Min. fittings Ø            | Min. pipe Ø    |                | Lubrication [6,2 bars] |                  |
|                            | In             | Out            |                        |                  |
| 10 mm / 0,4 In             | 16 mm / 0,6 In | 13 mm / 0,5 In | 20 mm / 0,8 In         | 6 drops / minute |

| CONVERSION TABLE            |   |                   |
|-----------------------------|---|-------------------|
| Watt ▶ Horse power          | Newton meter ▶ Pound feet                             | Millimeter ▶ Inch |
| Watt x 0,001341 = hp        | Nm x 0,7376 = lb.ft                                   | mm x 0,03937 = in |
| Bar ▶ Pound per square Inch | Normo Liter / minute ▶ Standard cubic feet per minute | Kilogram ▶ Pound  |
| Bar x 14,5 = psi            | NL / min x 0,03531 = scfm                             | Kg x 2,205 = lb   |

# MOTORS MTE 10 / NTE 10

## POWER 950-1300 W

MTE 10 XT



MTE 10 RV



NTE 10 XT



NTE 10 RV



### REDUCTION RATIO

(3 digits)  
See table on right page

### OPTIONS

(2 digits)  
See table on right page

X T E 1 0 X X X X X X X X X - X X

### ROTATION\*

- RT Right (Clockwise)
- LT Left (CCW)
- RV Reversible

### FLANGE

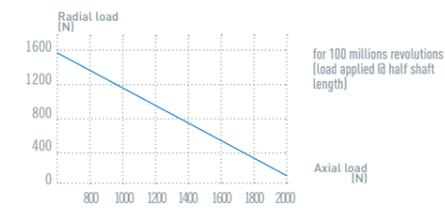
(1 to 2 digits)  
Group III page 159

### OUTPUT SHAFT

(1 to 3 digits)  
Group III page 159

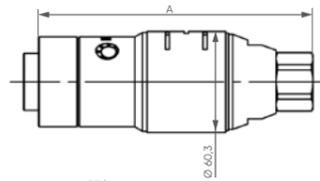
\* rotation direction is defined when looking from the back of the motor

### MAXIMUM RADIAL & AXIAL LOAD

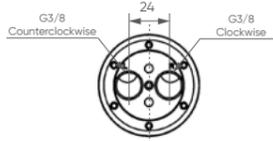
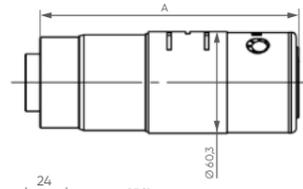


### LAYOUT

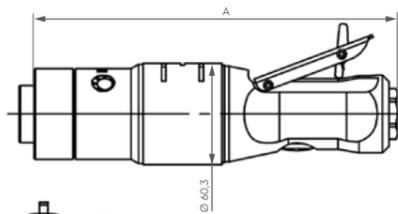
MTE 10 XT



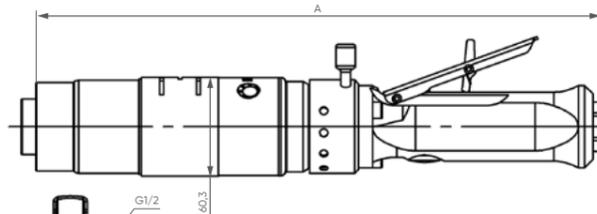
MTE 10 RV



NTE 10 XT



NTE 10 RV



| MTE / NTE 10  | Reduction ratio | Air supply pressure | Speed (rpm) |       | Torque (N.m) |             |                 | Max Power (W) | Air cons (Nl/min) | Dimensions |        |             |
|---------------|-----------------|---------------------|-------------|-------|--------------|-------------|-----------------|---------------|-------------------|------------|--------|-------------|
|               |                 |                     | @ max Power | Free  | @ max Power  | Max (stall) | Starting torque |               |                   | A (mm)     | Ø (mm) | Weight (kg) |
| MTE 10 XT 001 | 001             | 6,2 bars            | 7700        | 15400 | 1,4          | 2,0         | 1,7             | 1100          | 1600              | 164,1      | 60,3   | 1,2         |
|               |                 | 5 bars              | 7300        | 14600 | 1,1          | 1,7         | 1,4             | 830           | 1200              |            |        |             |
|               |                 | 4 bars              | 6900        | 13800 | 0,82         | 1,4         | 1,1             | 590           | 1000              |            |        |             |
| MTE 10 RV 001 | 001             | 6,2 bars            | 8200        | 16400 | 1,5          | 2,2         | 1,9             | 1300          | 1600              | 154,6      | 60,3   | 1,4         |
|               |                 | 5 bars              | 7700        | 15400 | 1,2          | 1,8         | 1,6             | 1000          | 1300              |            |        |             |
|               |                 | 4 bars              | 7300        | 14600 | 0,91         | 1,4         | 1,2             | 700           | 1000              |            |        |             |
| NTE 10 XT 001 | 001             | 6,2 bars            | 9200        | 18400 | 1,3          | 2,0         | 1,7             | 1250          | 1600              | 216,6      | 60,3   | 1,4         |
|               |                 | 5 bars              | 8500        | 17000 | 1,1          | 1,7         | 1,4             | 940           | 1300              |            |        |             |
|               |                 | 4 bars              | 7800        | 15600 | 0,83         | 1,3         | 1,1             | 680           | 1000              |            |        |             |
| NTE 10 RV 001 | 001             | 6,2 bars            | 7200        | 14400 | 1,2          | 1,7         | 1,5             | 950           | 1400              | 346,1      | 60,3   | 2,0         |
|               |                 | 5 bars              | 6700        | 13400 | 1,0          | 1,4         | 1,3             | 700           | 1200              |            |        |             |
|               |                 | 4 bars              | 6200        | 12400 | 0,78         | 1,1         | 0,98            | 500           | 1000              |            |        |             |

For connection and lubrication, see page 73

Data indicated in this table have an accuracy of +/- 5%

### OPTIONS AVAILABLE FOR THE MTE10

| Options            | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 21 | 22 | 23 | 27 | 28 | 29 | 30 | 31 | 32 | 36 | 37 |  |
|--------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|
| Collected exhaust* |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| ATEX certification |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Left/Right switch* |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Lubrication free   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Kit start          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Speed control**    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Stainless steel    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Code               | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 21 | 22 | 23 | 27 | 28 | 29 | 30 | 31 | 32 | 36 | 37 |  |

\* Reversible motors only \*\* Non reversible motors only

### OPTIONS AVAILABLE FOR THE NTE10XT

|                    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Collected exhaust  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ATEX certification |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lubrication free   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Kit start          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Speed control      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Code               | 01 | 02 | 04 | 05 | 06 | 07 | 09 | 10 | 13 | 14 | 15 | 18 | 19 | 21 | 22 | 31 | 32 |  |  |  |  |  |  |  |  |  |  |  |  |  |

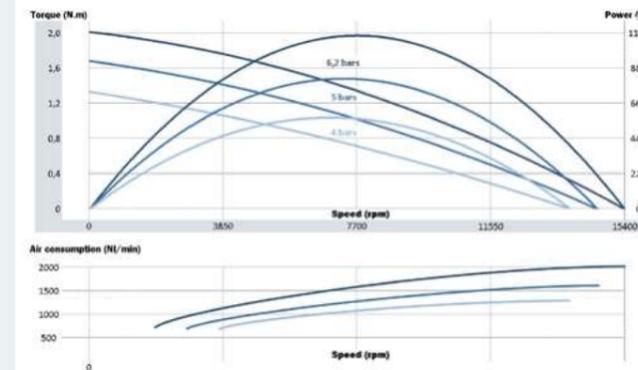
### FOR THE NTE10RV

|                    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------|----|----|----|----|----|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| ATEX certification |    |    |    |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Left/Right switch  |    |    |    |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lubrication free   |    |    |    |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Kit start          |    |    |    |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Code               | 03 | 12 | 16 | 17 | 29 | 30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

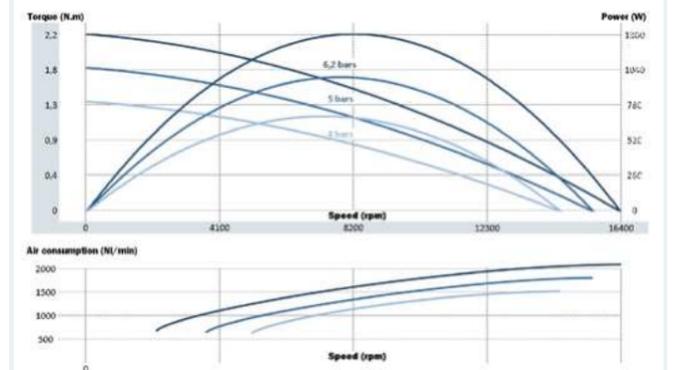
List of available accessories for this motor page 73

### POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS

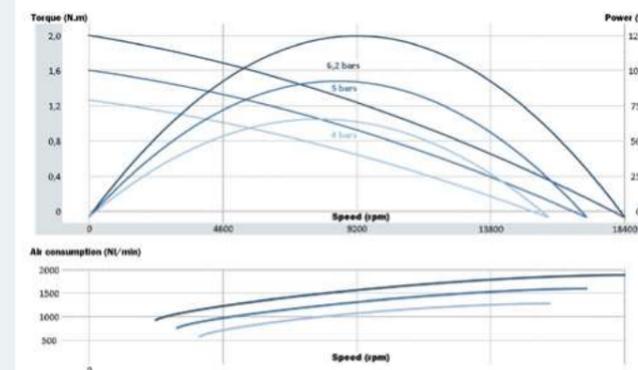
MTE 10 XT



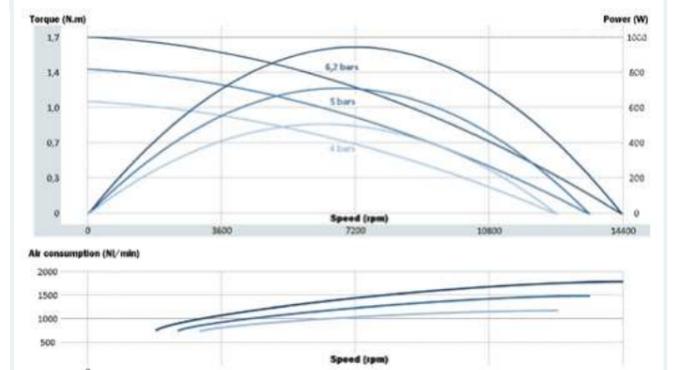
MTE 10 RV



NTE 10 XT



NTE 10 RV





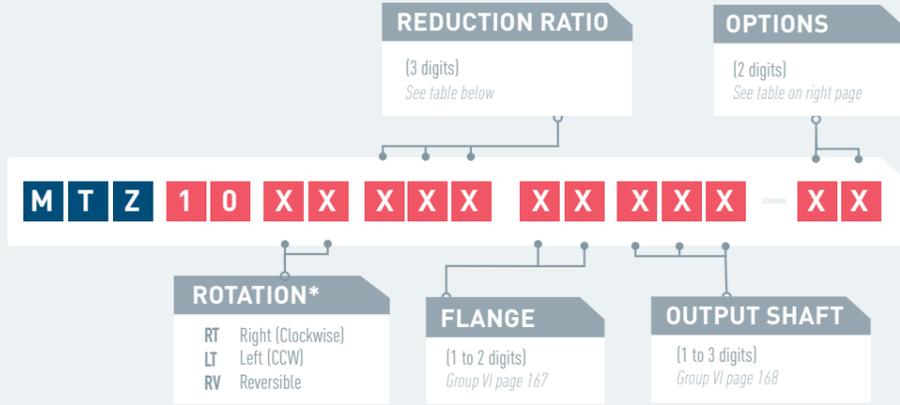






# MOTOR MTZ 10

## POWER 1100-1250 W



\* rotation direction is defined when looking from the back of the motor

| PERFORMANCES | MTZ 10 XT           |                 |                     |             |      |              |             |                 |               |                   | Dimensions |        |             |
|--------------|---------------------|-----------------|---------------------|-------------|------|--------------|-------------|-----------------|---------------|-------------------|------------|--------|-------------|
|              | Air motor reference | Reduction ratio | Air supply pressure | Speed (rpm) |      | Torque (N.m) |             |                 | Max Power (W) | Air cons (Nl/min) | A (mm)     | Ø (mm) | Weight (kg) |
|              |                     |                 |                     | @ max Power | Free | @ max Power  | Max (stall) | Starting torque |               |                   |            |        |             |
|              | MTZ 10 XT 169       | 169             | 6 bars              | 44          | 89   | 233          | 338         | 277             | 1080          | 1600              | 158,2      | 88,8   | 4,5         |
|              |                     |                 | 5 bars              | 42          | 83   | 186          | 278         | 228             | 810           | 1200              |            |        |             |
|              |                     |                 | 4 bars              | 39          | 79   | 140          | 224         | 184             | 577           | 1000              |            |        |             |
|              | MTZ 10 XT 202       | 202             | 6 bars              | 37          | 74   | 279          | 405         | 332             | 1080          | 1600              | 158,2      | 88,8   | 4,5         |
|              |                     |                 | 5 bars              | 35          | 69   | 223          | 333         | 273             | 810           | 1200              |            |        |             |
|              |                     |                 | 4 bars              | 33          | 66   | 167          | 268         | 220             | 577           | 1000              |            |        |             |
|              | MTZ 10 XT 258       | 258             | 6 bars              | 29          | 58   | 355          | 517         | 424             | 1080          | 1600              | 158,2      | 88,8   | 4,5         |
|              |                     |                 | 5 bars              | 27          | 54   | 284          | 424         | 348             | 810           | 1200              |            |        |             |
|              |                     |                 | 4 bars              | 26          | 52   | 213          | 342         | 280             | 577           | 1000              |            |        |             |
|              | MTZ 10 XT 309       | 309             | 6 bars              | 24          | 48   | 426          | 619         | 507             | 1080          | 1600              | 158,2      | 88,8   | 4,5         |
|              |                     |                 | 5 bars              | 23          | 45   | 341          | 508         | 417             | 810           | 1200              |            |        |             |
|              |                     |                 | 4 bars              | 22          | 43   | 255          | 410         | 336             | 577           | 1000              |            |        |             |
|              | MTZ 10 RV           |                 |                     |             |      |              |             |                 |               |                   | Dimensions |        |             |
|              | Air motor reference | Reduction ratio | Air supply pressure | Speed (rpm) |      | Torque (N.m) |             |                 | Max Power (W) | Air cons (Nl/min) | A (mm)     | Ø (mm) | Weight (kg) |
|              |                     |                 |                     | @ max Power | Free | @ max Power  | Max (stall) | Starting torque |               |                   |            |        |             |
|              | MTZ 10 RV 169       | 169             | 6 bars              | 48          | 96   | 246          | 316         | 278             | 1243          | 1600              | 148,7      | 88,8   | 4,6         |
|              |                     |                 | 5 bars              | 45          | 91   | 194          | 254         | 223             | 923           | 1300              |            |        |             |
|              |                     |                 | 4 bars              | 42          | 85   | 149          | 195         | 172             | 662           | 1000              |            |        |             |
|              | MTZ 10 RV 202       | 202             | 6 bars              | 40          | 81   | 295          | 379         | 333             | 1243          | 1600              | 148,7      | 88,8   | 4,6         |
|              |                     |                 | 5 bars              | 38          | 76   | 232          | 304         | 267             | 923           | 1300              |            |        |             |
|              |                     |                 | 4 bars              | 35          | 71   | 179          | 234         | 206             | 662           | 1000              |            |        |             |
|              | MTZ 10 RV 258       | 258             | 3 bars              | 32          | 63   | 376          | 483         | 425             | 1243          | 1600              | 148,7      | 88,8   | 4,6         |
|              |                     |                 | 2 bars              | 30          | 60   | 296          | 387         | 341             | 923           | 1300              |            |        |             |
|              |                     |                 | 1 bars              | 28          | 55   | 228          | 298         | 262             | 662           | 1000              |            |        |             |
|              | MTZ 10 RV 309       | 309             | 0 bars              | 26          | 53   | 450          | 578         | 509             | 1243          | 1600              | 148,7      | 88,8   | 4,6         |
|              |                     |                 | 1 bars              | 25          | 50   | 354          | 464         | 408             | 923           | 1300              |            |        |             |
|              |                     |                 | 2 bars              | 23          | 46   | 273          | 357         | 314             | 662           | 1000              |            |        |             |

For connection and lubrication, see page 73

Data indicated in this table have an accuracy of +/- 5%

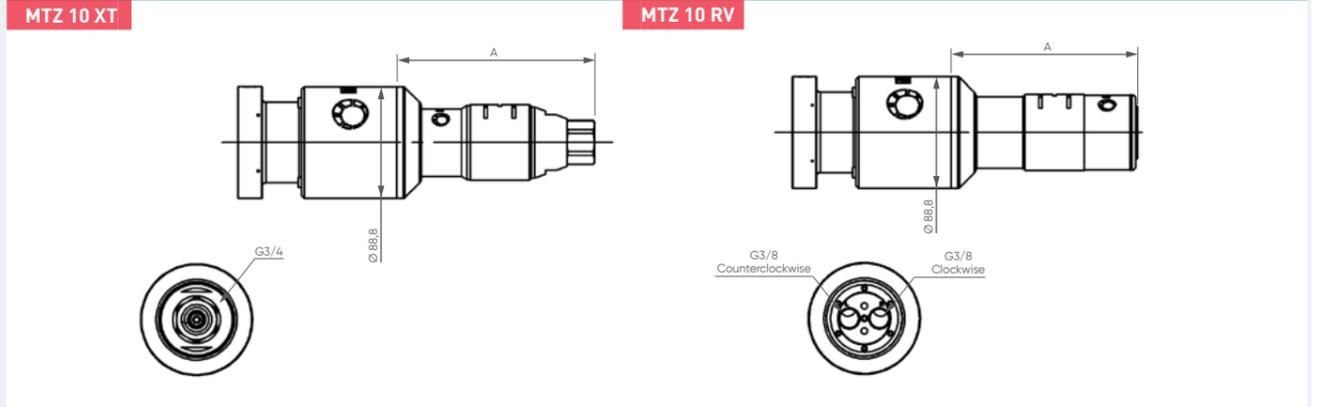
### OPTIONS AVAILABLE FOR THIS MOTOR

|                    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|--------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|
| Collected exhaust  | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 21 | 22 | 23 | 27 | 28 | 29 | 30 | 31 | 32 | 36 | 37 |  |
| ATEX certification |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Left/Right switch* |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Lubrication free   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Kit start          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Speed control**    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Stainless steel    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |

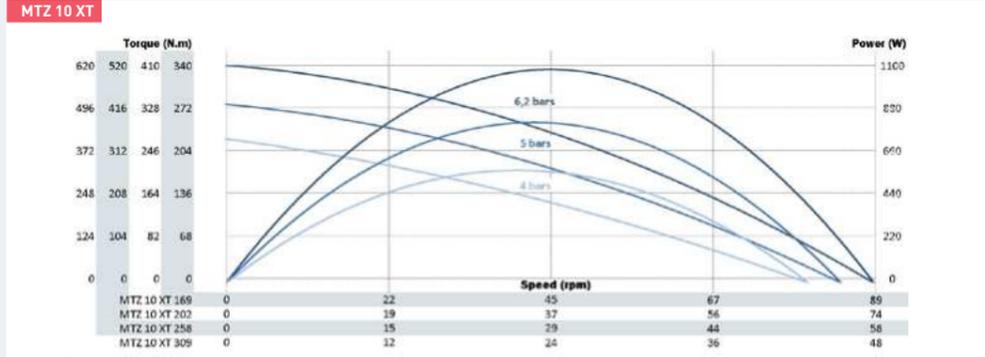
+ List of available accessories for this motor page 73

\* Reversible motors only \*\* Non reversible motors only

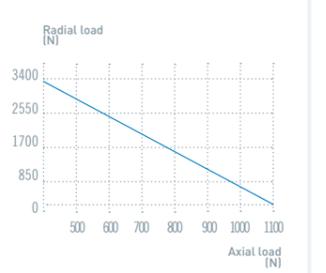
### LAYOUT



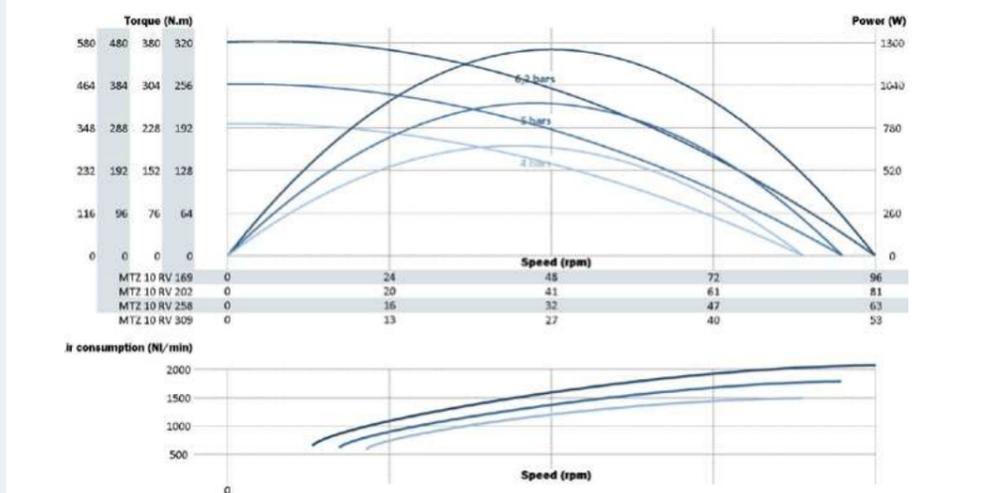
### POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS



### MAXIMUM RADIAL & AXIAL LOAD



### MTZ 10 RV



### NOTES

for 100 millions revolutions (load applied @ half shaft length)



# MOTOR MRS 10

## POWER 1000-1200 W

MRS 10 XT



MRS 10 RV



\* rotation direction is defined when looking from the back of the motor

| PERFORMANCES        | MRS 10 XT           |                     |                     |             |             |                 |                 |        |               |                   |                   |             |     |  |
|---------------------|---------------------|---------------------|---------------------|-------------|-------------|-----------------|-----------------|--------|---------------|-------------------|-------------------|-------------|-----|--|
|                     | Air motor reference | Reduction ratio     | Air supply pressure |             | Speed (rpm) |                 | Torque (N.m)    |        |               | Max Power (W)     | Air cons (Nl/min) | Dimensions  |     |  |
|                     |                     |                     | @ max Power         | Free        | @ max Power | Max (stall)     | Starting torque | A (mm) | Ø (mm)        |                   |                   | Weight (kg) |     |  |
| MRS 10 XT 006       |                     | 6                   | 6,2 bars            | 1190        | 2381        | 7,9             | 12              | 9,9    | 987           | 1600              | 258               | 60,3        | 3,1 |  |
|                     |                     |                     | 5 bars              | 1106        | 2213        | 6,4             | 10              | 8,2    | 736           | 1200              |                   |             |     |  |
|                     |                     |                     | 4 bars              | 1028        | 2057        | 5,0             | 7,9             | 6,5    | 538           | 1000              |                   |             |     |  |
| MRS 10 XT 008       |                     | 8                   | 6,2 bars            | 994         | 1987        | 9,5             | 14              | 12     | 987           | 1600              | 258               | 60,3        | 3,1 |  |
|                     |                     |                     | 5 bars              | 923         | 1847        | 7,6             | 12              | 9,8    | 736           | 1200              |                   |             |     |  |
|                     |                     |                     | 4 bars              | 858         | 1717        | 6,0             | 9,5             | 7,8    | 538           | 1000              |                   |             |     |  |
| MRS 10 XT 010       |                     | 10                  | 6,2 bars            | 779         | 1559        | 12              | 18              | 15     | 987           | 1600              | 258               | 60,3        | 3,1 |  |
|                     |                     |                     | 5 bars              | 724         | 1449        | 9,7             | 15              | 13     | 736           | 1200              |                   |             |     |  |
|                     |                     |                     | 4 bars              | 673         | 1347        | 7,6             | 12              | 9,9    | 538           | 1000              |                   |             |     |  |
| MRS 10 XT 014       |                     | 14                  | 6,2 bars            | 544         | 1088        | 17              | 26              | 22     | 987           | 1600              | 258               | 60,3        | 3,1 |  |
|                     |                     |                     | 5 bars              | 506         | 1011        | 14              | 22              | 18     | 736           | 1200              |                   |             |     |  |
|                     |                     |                     | 4 bars              | 470         | 940         | 11              | 17              | 14     | 538           | 1000              |                   |             |     |  |
| MRS 10 XT 031       |                     | 31                  | 6,2 bars            | 248         | 496         | 38              | 58              | 48     | 987           | 1600              | 285               | 60,3        | 3,4 |  |
|                     |                     |                     | 5 bars              | 230         | 461         | 30              | 48              | 39     | 736           | 1200              |                   |             |     |  |
|                     |                     |                     | 4 bars              | 214         | 428         | 24              | 38              | 31     | 538           | 1000              |                   |             |     |  |
| MRS 10 XT 037       |                     | 37                  | 6,2 bars            | 207         | 414         | 46              | 69              | 57     | 987           | 1600              | 285               | 60,3        | 3,4 |  |
|                     |                     |                     | 5 bars              | 192         | 385         | 37              | 58              | 47     | 736           | 1200              |                   |             |     |  |
|                     |                     |                     | 4 bars              | 179         | 358         | 29              | 46              | 37     | 538           | 1000              |                   |             |     |  |
| MRS 10 XT 047       |                     | 47                  | 6,2 bars            | 162         | 325         | 58              | 89              | 73     | 987           | 1600              | 285               | 60,3        | 3,4 |  |
|                     |                     |                     | 5 bars              | 151         | 302         | 47              | 73              | 60     | 736           | 1200              |                   |             |     |  |
|                     |                     |                     | 4 bars              | 140         | 281         | 37              | 58              | 48     | 538           | 1000              |                   |             |     |  |
| MRS 10 XT 056       |                     | 56                  | 6,2 bars            | 136         | 271         | 70              | 106             | 87     | 987           | 1600              | 285               | 60,3        | 3,4 |  |
|                     |                     |                     | 5 bars              | 126         | 252         | 56              | 88              | 72     | 736           | 1200              |                   |             |     |  |
|                     |                     |                     | 4 bars              | 117         | 234         | 44              | 70              | 57     | 538           | 1000              |                   |             |     |  |
| MRS 10 XT 071       |                     | 71                  | 6,2 bars            | 106         | 213         | 89              | 135             | 111    | 987           | 1600              | 285               | 60,3        | 3,4 |  |
|                     |                     |                     | 5 bars              | 99          | 198         | 71              | 112             | 92     | 736           | 1200              |                   |             |     |  |
|                     |                     |                     | 4 bars              | 92          | 184         | 56              | 89              | 73     | 538           | 1000              |                   |             |     |  |
| MRS 10 RV           |                     |                     |                     |             |             |                 |                 |        |               |                   |                   |             |     |  |
| Air motor reference | Reduction ratio     | Air supply pressure |                     | Speed (rpm) |             | Torque (N.m)    |                 |        | Max Power (W) | Air cons (Nl/min) | Dimensions        |             |     |  |
|                     |                     | @ max Power         | Free                | @ max Power | Max (stall) | Starting torque | A (mm)          | Ø (mm) |               |                   | Weight (kg)       |             |     |  |
| MRS 10 RV 006       | 6                   | 6,2 bars            | 1233                | 2466        | 9,4         | 13              | 12              | 1218   | 1600          | 248,5             | 60,3              | 3,3         |     |  |
|                     |                     | 5 bars              | 1158                | 2317        | 7,6         | 11              | 9,5             | 916    | 1300          |                   |                   |             |     |  |
|                     |                     | 4 bars              | 1089                | 2178        | 5,8         | 8,3             | 7,3             | 661    | 1000          |                   |                   |             |     |  |
| MRS 10 RV 008       | 8                   | 6,2 bars            | 1029                | 2058        | 11          | 16              | 14              | 1218   | 1600          | 248,5             | 60,3              | 3,3         |     |  |
|                     |                     | 5 bars              | 967                 | 1934        | 9,0         | 13              | 11              | 916    | 1300          |                   |                   |             |     |  |
|                     |                     | 4 bars              | 909                 | 1818        | 6,9         | 10              | 8,8             | 661    | 1000          |                   |                   |             |     |  |
| MRS 10 RV 010       | 10                  | 6,2 bars            | 807                 | 1615        | 14          | 20              | 18              | 1218   | 1600          | 248,5             | 60,3              | 3,3         |     |  |
|                     |                     | 5 bars              | 759                 | 1517        | 12          | 17              | 15              | 916    | 1300          |                   |                   |             |     |  |
|                     |                     | 4 bars              | 713                 | 1426        | 8,9         | 13              | 11              | 661    | 1000          |                   |                   |             |     |  |
| MRS 10 RV 014       | 14                  | 6,2 bars            | 564                 | 1127        | 21          | 29              | 26              | 1218   | 1600          | 248,5             | 60,3              | 3,3         |     |  |
|                     |                     | 5 bars              | 530                 | 1059        | 17          | 24              | 21              | 916    | 1300          |                   |                   |             |     |  |
|                     |                     | 4 bars              | 498                 | 996         | 13          | 18              | 16              | 661    | 1000          |                   |                   |             |     |  |
| MRS 10 RV 031       | 31                  | 6,2 bars            | 257                 | 514         | 45          | 64              | 56              | 1218   | 1600          | 275,5             | 60,3              | 3,6         |     |  |
|                     |                     | 5 bars              | 241                 | 483         | 36          | 52              | 46              | 916    | 1300          |                   |                   |             |     |  |
|                     |                     | 4 bars              | 227                 | 454         | 28          | 40              | 35              | 661    | 1000          |                   |                   |             |     |  |
| MRS 10 RV 037       | 37                  | 6,2 bars            | 214                 | 429         | 54          | 77              | 68              | 1218   | 1600          | 275,5             | 60,3              | 3,6         |     |  |
|                     |                     | 5 bars              | 201                 | 403         | 43          | 62              | 55              | 916    | 1300          |                   |                   |             |     |  |
|                     |                     | 4 bars              | 189                 | 379         | 33          | 48              | 42              | 661    | 1000          |                   |                   |             |     |  |
| MRS 10 RV 047       | 47                  | 6,2 bars            | 168                 | 336         | 69          | 98              | 86              | 1218   | 1600          | 275,5             | 60,3              | 3,6         |     |  |
|                     |                     | 5 bars              | 158                 | 316         | 55          | 80              | 70              | 916    | 1300          |                   |                   |             |     |  |
|                     |                     | 4 bars              | 149                 | 297         | 43          | 61              | 54              | 661    | 1000          |                   |                   |             |     |  |
| MRS 10 RV 056       | 56                  | 6,2 bars            | 140                 | 281         | 83          | 117             | 103             | 1218   | 1600          | 275,5             | 60,3              | 3,6         |     |  |
|                     |                     | 5 bars              | 132                 | 264         | 66          | 95              | 84              | 916    | 1300          |                   |                   |             |     |  |
|                     |                     | 4 bars              | 124                 | 248         | 51          | 73              | 64              | 661    | 1000          |                   |                   |             |     |  |
| MRS 10 RV 071       | 71                  | 6,2 bars            | 110                 | 220         | 106         | 149             | 132             | 1218   | 1600          | 275,5             | 60,3              | 3,6         |     |  |
|                     |                     | 5 bars              | 103                 | 207         | 85          | 121             | 107             | 916    | 1300          |                   |                   |             |     |  |
|                     |                     | 4 bars              | 97                  | 195         | 65          | 93              | 82              | 661    | 1000          |                   |                   |             |     |  |

For connection and lubrication, see page 73

Data indicated in this table have an accuracy of +/- 5%

### OPTIONS AVAILABLE FOR THIS MOTOR

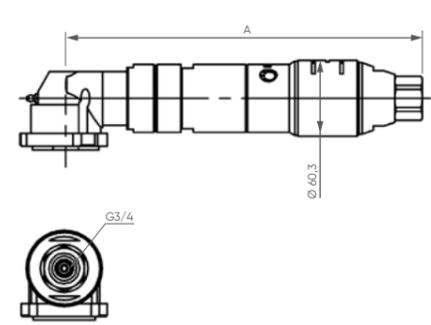
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|--------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Collected exhaust  | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 09 | 10 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 21 | 22 | 29 | 30 | 31 | 32 |
| ATEX certification |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Left/Right switch* |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Lubrication free   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Kit start          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Speed control**    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

+ List of available accessories for this motor page 73

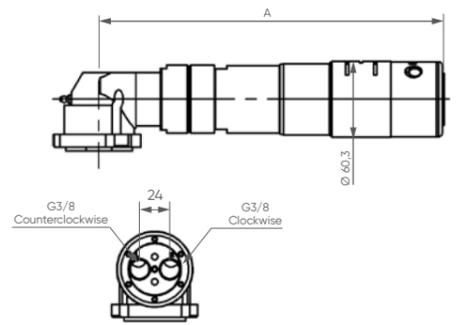
\* Reversible motors only \*\* Non reversible motors only

### LAYOUT

MRS 10 XT

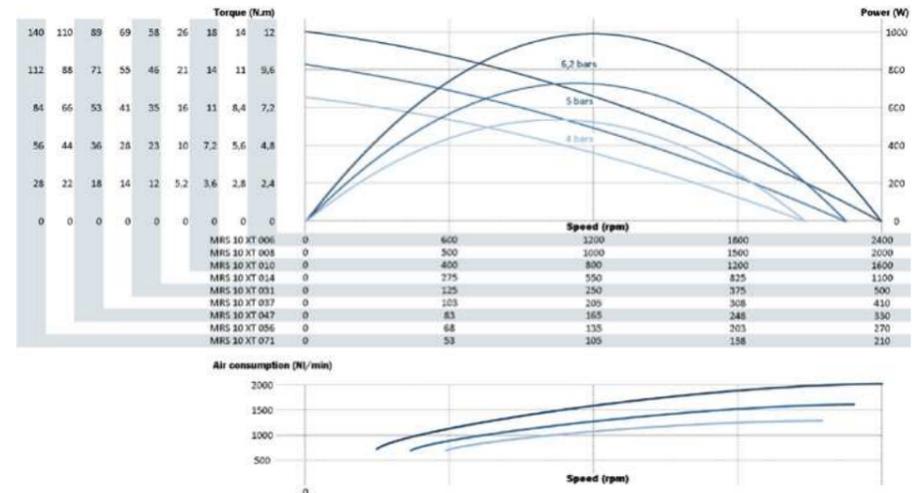


MRS 10 RV

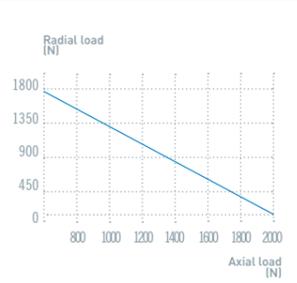


### POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS

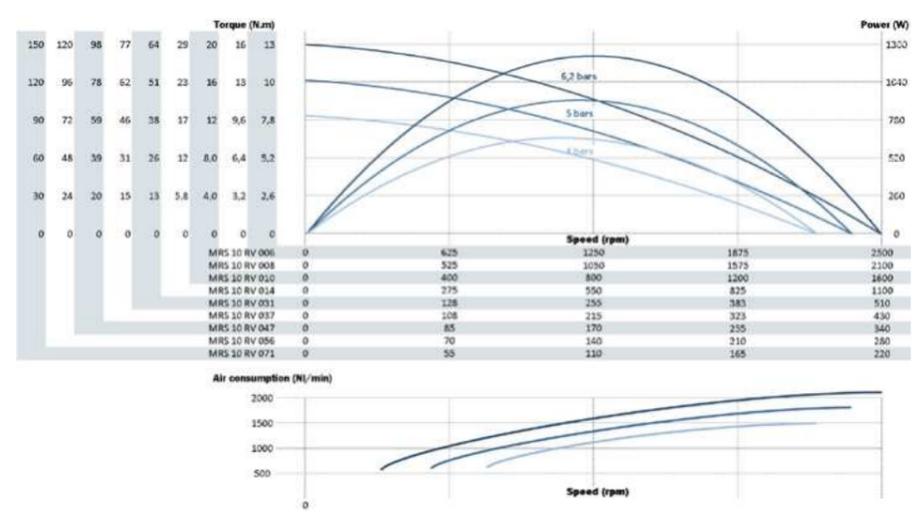
MRS 10 XT



### MAXIMUM RADIAL & AXIAL LOAD



MRS 10 RV

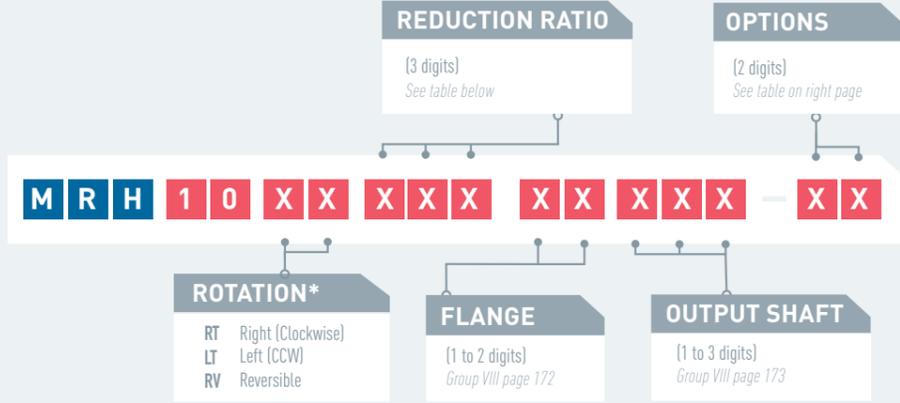


### NOTES



# MOTOR MRH 10

## POWER 1000-1150 W



\* rotation direction is defined when looking from the back of the motor

| PERFORMANCES | MRH 10 XT           |                 |                     |      |             |             |                 |              |        |             |               |                   |            |  |  |
|--------------|---------------------|-----------------|---------------------|------|-------------|-------------|-----------------|--------------|--------|-------------|---------------|-------------------|------------|--|--|
|              | Air motor reference | Reduction ratio | Air supply pressure |      | Speed (rpm) |             |                 | Torque (N.m) |        |             | Max Power (W) | Air cons (Nl/min) | Dimensions |  |  |
|              |                     |                 | @ max Power         | Free | @ max Power | Max (stall) | Starting torque | A (mm)       | Ø (mm) | Weight (kg) |               |                   |            |  |  |
|              | MRH 10 XT 102       | 102             | 6,2 bars            | 72   | 145         | 129         | 191             | 157          | 978    | 1600        | 258           | 69                | 5,1        |  |  |
|              |                     |                 | 5 bars              | 68   | 136         | 107         | 158             | 130          | 765    | 1200        |               |                   |            |  |  |
|              |                     |                 | 4 bars              | 64   | 129         | 81          | 127             | 104          | 544    | 1000        |               |                   |            |  |  |
|              | MRH 10 XT 170       | 170             | 6,2 bars            | 44   | 87          | 214         | 317             | 260          | 978    | 1600        | 282           | 69                | 5,4        |  |  |
|              |                     |                 | 5 bars              | 41   | 82          | 178         | 262             | 215          | 765    | 1200        |               |                   |            |  |  |
|              |                     |                 | 4 bars              | 39   | 78          | 133         | 210             | 172          | 544    | 1000        |               |                   |            |  |  |
|              | MRH 10 XT 195       | 195             | 6,2 bars            | 38   | 76          | 246         | 365             | 299          | 978    | 1600        | 282           | 69                | 5,4        |  |  |
|              |                     |                 | 5 bars              | 36   | 71          | 205         | 301             | 247          | 765    | 1200        |               |                   |            |  |  |
|              |                     |                 | 4 bars              | 34   | 68          | 154         | 241             | 198          | 544    | 1000        |               |                   |            |  |  |
|              | MRH 10 XT 234       | 234             | 6,2 bars            | 32   | 63          | 295         | 437             | 358          | 978    | 1600        | 282           | 69                | 5,4        |  |  |
|              |                     |                 | 5 bars              | 30   | 60          | 245         | 361             | 296          | 765    | 1200        |               |                   |            |  |  |
|              |                     |                 | 4 bars              | 28   | 56          | 184         | 289             | 237          | 544    | 1000        |               |                   |            |  |  |
|              | MRH 10 XT 269       | 269             | 6,2 bars            | 28   | 55          | 339         | 503             | 412          | 978    | 1600        | 282           | 69                | 5,4        |  |  |
|              |                     |                 | 5 bars              | 26   | 52          | 282         | 415             | 341          | 765    | 1200        |               |                   |            |  |  |
|              |                     |                 | 4 bars              | 25   | 49          | 212         | 333             | 273          | 544    | 1000        |               |                   |            |  |  |
|              | MRH 10 XT 322       | 322             | 6,2 bars            | 23   | 46          | 406         | 603             | 494          | 978    | 1600        | 282           | 69                | 5,4        |  |  |
|              |                     |                 | 5 bars              | 22   | 43          | 338         | 498             | 408          | 765    | 1200        |               |                   |            |  |  |
|              |                     |                 | 4 bars              | 20   | 41          | 254         | 399             | 327          | 544    | 1000        |               |                   |            |  |  |
|              | MRH 10 RV           |                 |                     |      |             |             |                 |              |        |             |               |                   |            |  |  |
|              | Air motor reference | Reduction ratio | Air supply pressure |      | Speed (rpm) |             |                 | Torque (N.m) |        |             | Max Power (W) | Air cons (Nl/min) | Dimensions |  |  |
|              |                     |                 | @ max Power         | Free | @ max Power | Max (stall) | Starting torque | A (mm)       | Ø (mm) | Weight (kg) |               |                   |            |  |  |
|              | MRH 10 RV 102       | 102             | 6,2 bars            | 79   | 158         | 142         | 179             | 157          | 1143   | 1600        | 248,5         | 69                | 5,2        |  |  |
|              |                     |                 | 5 bars              | 74   | 149         | 112         | 144             | 126          | 870    | 1300        |               |                   |            |  |  |
|              |                     |                 | 4 bars              | 69   | 138         | 86          | 110             | 97           | 635    | 1000        |               |                   |            |  |  |
|              | MRH 10 RV 170       | 170             | 6,2 bars            | 48   | 95          | 235         | 296             | 261          | 1172   | 1600        | 272,5         | 69                | 5,5        |  |  |
|              |                     |                 | 5 bars              | 45   | 90          | 185         | 238             | 209          | 870    | 1300        |               |                   |            |  |  |
|              |                     |                 | 4 bars              | 42   | 84          | 142         | 183             | 161          | 624    | 1000        |               |                   |            |  |  |
|              | MRH 10 RV 195       | 195             | 6,2 bars            | 41   | 83          | 271         | 341             | 300          | 1172   | 1600        | 272,5         | 69                | 5,5        |  |  |
|              |                     |                 | 5 bars              | 39   | 78          | 213         | 274             | 241          | 870    | 1300        |               |                   |            |  |  |
|              |                     |                 | 4 bars              | 36   | 73          | 164         | 210             | 185          | 624    | 1000        |               |                   |            |  |  |
|              | MRH 10 RV 234       | 234             | 6,2 bars            | 35   | 69          | 324         | 408             | 359          | 1172   | 1600        | 272,5         | 69                | 5,5        |  |  |
|              |                     |                 | 5 bars              | 33   | 65          | 255         | 328             | 288          | 870    | 1300        |               |                   |            |  |  |
|              |                     |                 | 4 bars              | 30   | 61          | 196         | 252             | 222          | 624    | 1000        |               |                   |            |  |  |
|              | MRH 10 RV 269       | 269             | 6,2 bars            | 30   | 60          | 373         | 470             | 414          | 1172   | 1600        | 272,5         | 69                | 5,5        |  |  |
|              |                     |                 | 5 bars              | 28   | 57          | 294         | 377             | 332          | 870    | 1300        |               |                   |            |  |  |
|              |                     |                 | 4 bars              | 26   | 53          | 226         | 290             | 255          | 624    | 1000        |               |                   |            |  |  |
|              | MRH 10 RV 322       | 322             | 6,2 bars            | 25   | 50          | 447         | 563             | 496          | 1172   | 1600        | 272,5         | 69                | 5,5        |  |  |
|              |                     |                 | 5 bars              | 24   | 47          | 352         | 452             | 398          | 870    | 1300        |               |                   |            |  |  |
|              |                     |                 | 4 bars              | 22   | 44          | 271         | 347             | 306          | 624    | 1000        |               |                   |            |  |  |

For connection and lubrication, see page 73

Data indicated in this table have an accuracy of +/- 5%

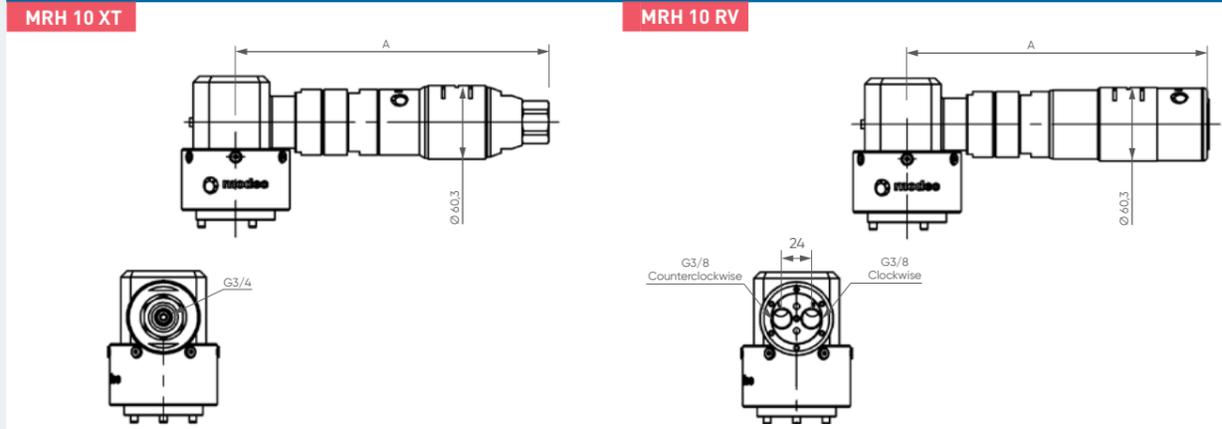
### OPTIONS AVAILABLE FOR THIS MOTOR

|                    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|--------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Collected exhaust  | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 09 | 10 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 21 | 22 | 29 | 30 | 31 | 32 |
| ATEX certification |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Left/Right switch* |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Lubrication free   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Kit start          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Speed control**    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

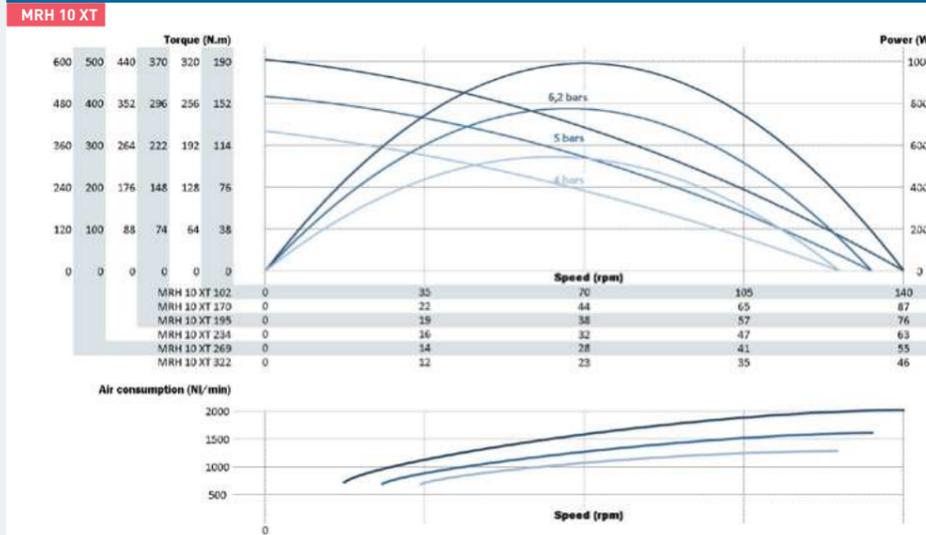
+ List of available accessories for this motor page 73

\* Reversible motors only \*\* Non reversible motors only

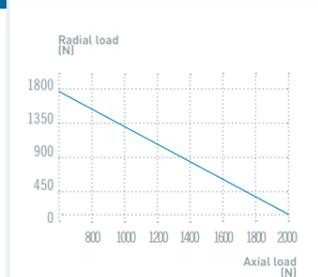
### LAYOUT



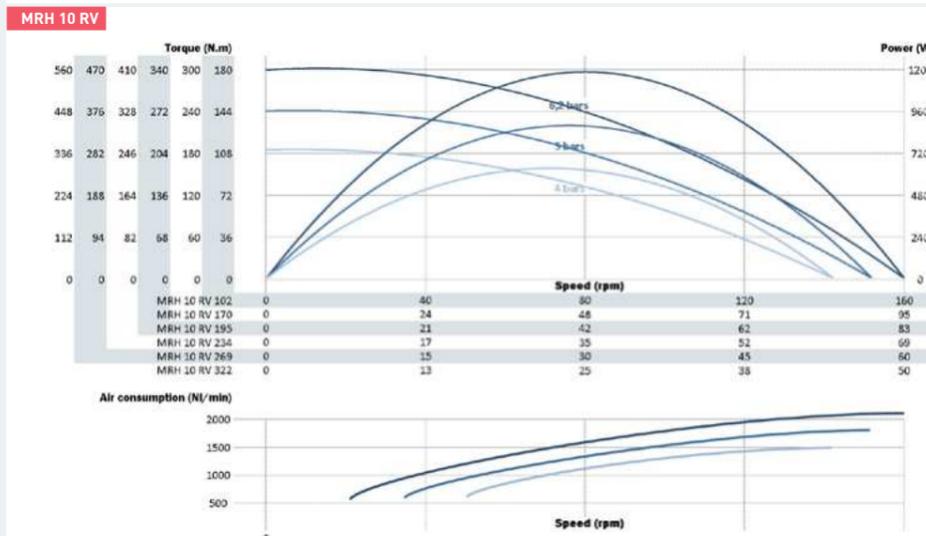
### POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS



### MAXIMUM RADIAL & AXIAL LOAD



### NOTES





# MOTOR MRZ 10

## POWER 1050-1200 W



### REDUCTION RATIO

(3 digits)  
See table below

### OPTIONS

(2 digits)  
See table on right page

**M R Z 1 0 X X X X X X X X X X X X - X X**

### ROTATION\*

- RT Right (Clockwise)
- LT Left (CCW)
- RV Reversible

### FLANGE

(1 to 2 digits)  
Group IX page 174

### OUTPUT SHAFT

(1 to 3 digits)  
Group IX page 174

\* rotation direction is defined when looking from the back of the motor

| PERFORMANCES  | MRZ 10 XT           |                 |                     |             |      |              |             |                 |               |                   |            |        |             |
|---------------|---------------------|-----------------|---------------------|-------------|------|--------------|-------------|-----------------|---------------|-------------------|------------|--------|-------------|
|               | Air motor reference | Reduction ratio | Air supply pressure | Speed (rpm) |      | Torque (N.m) |             |                 | Max Power (W) | Air cons (Nl/min) | Dimensions |        |             |
|               |                     |                 |                     | @ max Power | Free | @ max Power  | Max (stall) | Starting torque |               |                   | A (mm)     | Ø (mm) | Weight (kg) |
| MRZ 10 XT 338 | 338                 | 6,2 bars        | 22                  | 44          | 451  | 677          | 555         | 1046            | 1600          | 393,8             | 88,8       | 11,5   |             |
|               |                     |                 | 21                  | 42          | 369  | 560          | 459         | 802             | 1200          |                   |            |        |             |
|               |                     |                 | 20                  | 39          | 279  | 448          | 367         | 577             | 1000          |                   |            |        |             |
| MRZ 10 XT 399 | 399                 | 6,2 bars        | 19                  | 38          | 532  | 799          | 655         | 1046            | 1600          | 393,8             | 88,8       | 11,5   |             |
|               |                     |                 | 18                  | 35          | 436  | 661          | 542         | 802             | 1200          |                   |            |        |             |
|               |                     |                 | 17                  | 33          | 330  | 529          | 433         | 577             | 1000          |                   |            |        |             |
| MRZ 10 XT 516 | 516                 | 6,2 bars        | 15                  | 29          | 689  | 1033         | 847         | 1046            | 1600          | 393,8             | 88,8       | 11,5   |             |
|               |                     |                 | 14                  | 27          | 563  | 855          | 701         | 802             | 1200          |                   |            |        |             |
|               |                     |                 | 13                  | 26          | 426  | 684          | 561         | 577             | 1000          |                   |            |        |             |

| MRZ 10 RV           |                 |                     |             |      |              |             |                 |               |                   |            |        |             |
|---------------------|-----------------|---------------------|-------------|------|--------------|-------------|-----------------|---------------|-------------------|------------|--------|-------------|
| Air motor reference | Reduction ratio | Air supply pressure | Speed (rpm) |      | Torque (N.m) |             |                 | Max Power (W) | Air cons (Nl/min) | Dimensions |        |             |
|                     |                 |                     | @ max Power | Free | @ max Power  | Max (stall) | Starting torque |               |                   | A (mm)     | Ø (mm) | Weight (kg) |
| MRZ 10 RV 338       | 338             | 6,2 bars            | 24          | 48   | 492          | 632         | 556             | 1213          | 1600              | 384,3      | 88,8   | 10,7        |
|                     |                 |                     | 23          | 45   | 388          | 507         | 446             | 923           | 1300              |            |        |             |
|                     |                 |                     | 21          | 42   | 298          | 390         | 343             | 674           | 1000              |            |        |             |
| MRZ 10 RV 399       | 399             | 6,2 bars            | 20          | 41   | 581          | 746         | 657             | 1243          | 1600              | 384,3      | 88,8   | 10,7        |
|                     |                 |                     | 19          | 39   | 457          | 599         | 527             | 923           | 1300              |            |        |             |
|                     |                 |                     | 18          | 36   | 352          | 460         | 405             | 662           | 1000              |            |        |             |
| MRZ 10 RV 516       | 516             | 6,2 bars            | 16          | 32   | 751          | 966         | 850             | 1243          | 1600              | 384,3      | 88,8   | 10,7        |
|                     |                 |                     | 15          | 30   | 592          | 775         | 682             | 923           | 1300              |            |        |             |
|                     |                 |                     | 14          | 28   | 456          | 596         | 524             | 662           | 1000              |            |        |             |

For connection and lubrication, see page 73

Data indicated in this table have an accuracy of +/- 5%

### OPTIONS AVAILABLE FOR THIS MOTOR

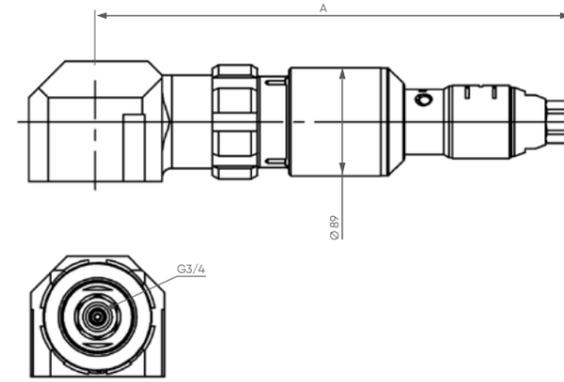
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|--------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Collected exhaust  | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 09 | 10 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 21 | 22 | 29 | 30 | 31 | 32 |
| ATEX certification |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Left/Right switch* |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Lubrication free   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Kit start          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Speed control**    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

+ List of available accessories for this motor page 73

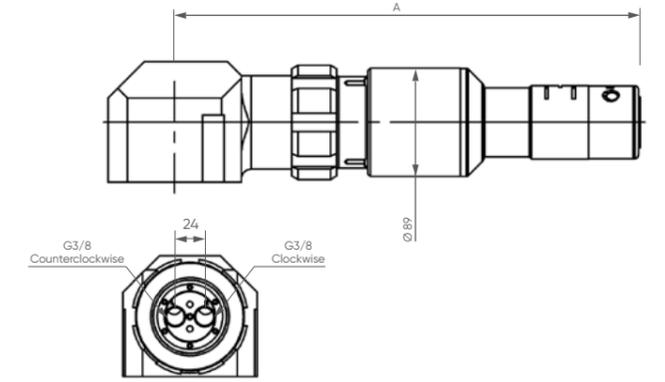
\* Reversible motors only \*\* Non reversible motors only

### LAYOUT

#### MRZ 10 XT

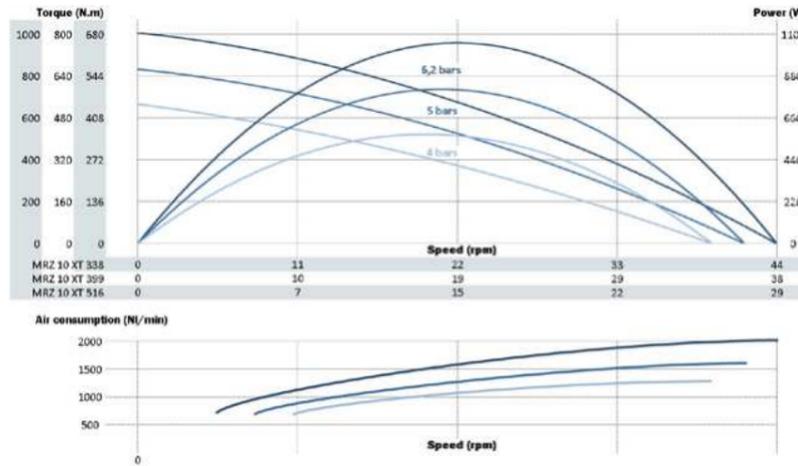


#### MRZ 10 RV

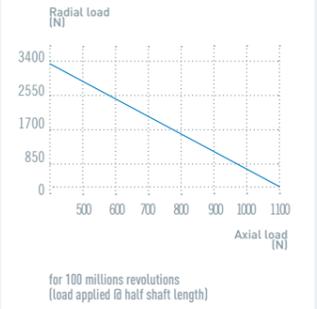


### POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS

#### MRZ 10 XT



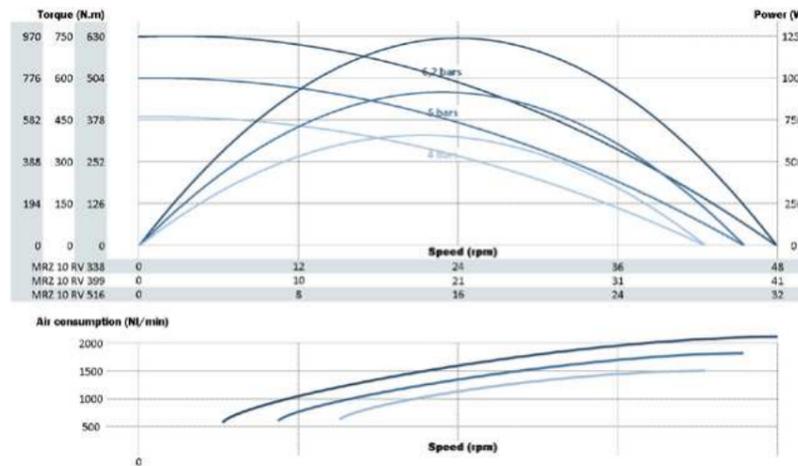
### MAXIMUM RADIAL & AXIAL LOAD



for 100 millions revolutions (load applied @ half shaft length)

### NOTES

#### MRZ 10 RV







MAX POWER  
**1900 W**  
MAX TORQUE  
**840 Nm**

Twin brothers of the "10", the "20" series air motors offer the same versatility and are available with the same speed and torque ranges but **with even greater power.**

It contains the 3 same application families (Easy, Standard and Heavy duty) with the same configurations of right angle drive heads and integrated handles. **Ideal for applications as different as blasting, conveyors, lifting or integration in special machines.**

Like their little brothers, the "20" range air motors **can get an integrated speed controller**, which is indispensable for certain manual applications.



| + ACCESSORIES FOR THIS MOTOR                               | Reference | Information |
|--|-----------|-------------|
| Filtration, pressure Regulation and Lubrication unit (FRL) | AC107     | Page 177    |
| Safety Air Treatment Box (SAT Box)                         | AC118     | Page 178    |
| With Pedal remote control                                  | AC119     | Page 178    |
| With handle remote control                                 | AC120     | Page 178    |
| With remote emergency kill switch                          | AC125     | Page 178    |
| With remote E-Stop and pedal remote control                | AC121     | Page 178    |
| With remote E-Stop and handle remote control               | AC122     | Page 178    |
| Maintenance kits   |           |             |
| Maintenance kit for "20" series                            | AC304     | Page 181    |
| Maintenance kit for lube free "20" series                  | AC314     | Page 181    |
| Maintenance kit for kit start "20" series                  | AC324     | Page 181    |
| Exhaust collector kit for "20" series                      | AC341     | Page 181    |
| modec Oil Co-16  | AC149     | Page 178    |
| Control handles  |           |             |
| Safety control handle for non reversible "20" series       | AC406     | Page 179    |
| Safety control handle for reversible "20" series           | AC404     | Page 179    |
| Progressive control handle for non reversible "20" series  | AC400     | Page 179    |
| Progressive control handle for reversible "20" series      | AC408     | Page 179    |
| Filters et silencers                                       |           |             |
| Metallic standard silencer                                 | AC182     | Page 179    |
| Metallic standard inlet silencer (RV)                      | AC181     | Page 179    |
| Plastic standard silencer                                  | AC152     | Page 180    |
| Plastic standard inlet silencer (RV)                       | AC183     | Page 180    |
| Heavy duty silencer  | AC156     | Page 180    |
| Heavy duty inlet silencer (RV)                             | AC155     | Page 180    |
| High flow air muffler                                      | AC159     | Page 181    |
| Exhaust silencer filter                                    | AC161     | Page 180    |
| Speed control muffler                                      | AC174     | Page 180    |

**CONNECTION AND LUBRICATION**

| Min. fittings Ø | Min. pipe Ø    |                | Lubrication [6,2 bars] |
|-----------------|----------------|----------------|------------------------|
|                 | In             | Out            |                        |
| 10 mm / 0,4 In  | 16 mm / 0,6 In | 13 mm / 0,5 In | 7 drops / minute       |

**CONVERSION TABLE**

|                             |   |                   |
|-----------------------------|---|-------------------|
| Watt ► Horse power          | Newton meter ► Pound feet                             | Millimeter ► Inch |
| Watt x 0,001341 = hp        | Nm x 0,7376 = lb.ft                                   | mm x 0,03937 = in |
| Bar ► Pound per square Inch | Normo Liter / minute ► Standard cubic feet per minute | Kilogram ► Pound  |
| Bar x 14,5 = psi            | NL / min x 0,03531 = scfm                             | Kg x 2,205 = lb   |

# MOTORS MTE 20 / NTE 20

## POWER 1300-1800 W

MTE 20 XT



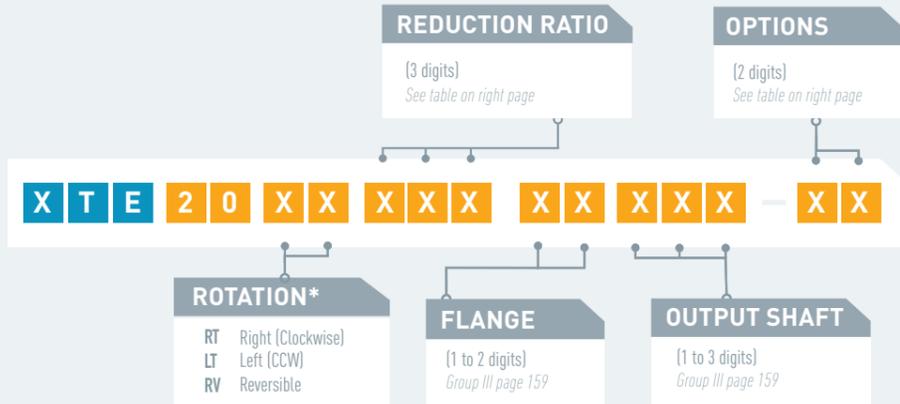
MTE 20 RV



NTE 20 XT

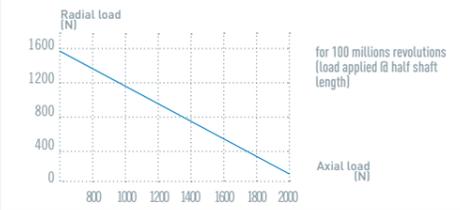


NTE 20 RV



\* rotation direction is defined when looking from the back of the motor

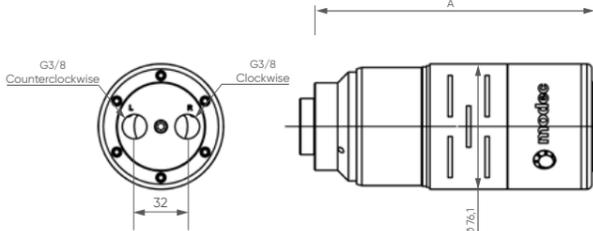
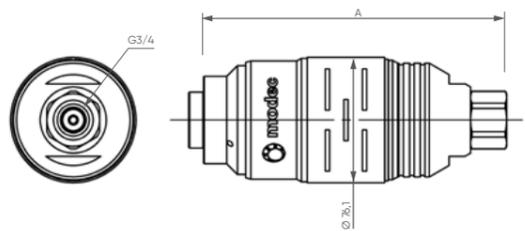
MAXIMUM RADIAL & AXIAL LOAD



LAYOUT

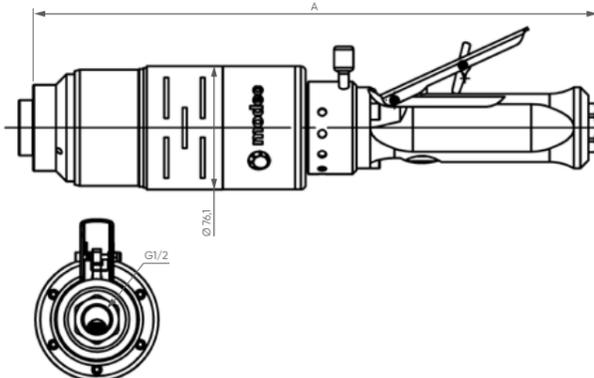
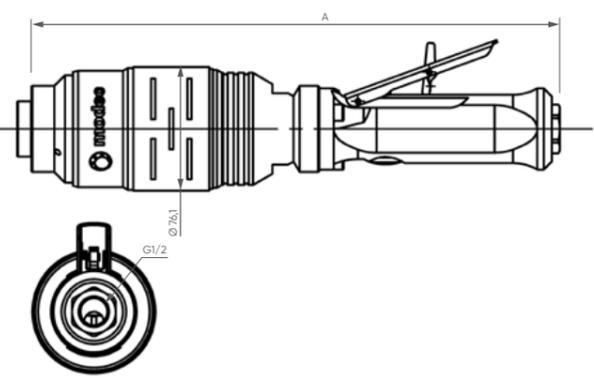
MTE 20 XT

MTE 20 RV



NTE 20 XT

NTE 20 RV



| MTE / NTE 20  | Reduction ratio | Air supply pressure | Speed (rpm) |       | Torque (N.m) |             |                 | Max Power (W) | Air cons (NI/min) | Dimensions |        |             |
|---------------|-----------------|---------------------|-------------|-------|--------------|-------------|-----------------|---------------|-------------------|------------|--------|-------------|
|               |                 |                     | @ max Power | Free  | @ max Power  | Max (stall) | Starting torque |               |                   | A (mm)     | Ø (mm) | Weight (kg) |
| MTE 20 XT 001 | 001             | 6,2 bars            | 5800        | 11600 | 2,9          | 5,0         | 4,4             | 1700          | 1900              | 184,1      | 76,1   | 2,1         |
|               |                 | 5 bars              | 5400        | 10800 | 2,4          | 4,1         | 3,6             | 1350          | 1600              |            |        |             |
|               |                 | 4 bars              | 5000        | 10000 | 2,0          | 3,3         | 2,9             | 1100          | 1200              |            |        |             |
| MTE 20 RV 001 | 001             | 6,2 bars            | 5400        | 10800 | 3,1          | 3,9         | 3,5             | 1800          | 2100              | 170,1      | 76,1   | 2,5         |
|               |                 | 5 bars              | 5100        | 10200 | 2,5          | 3,3         | 2,9             | 1350          | 1700              |            |        |             |
|               |                 | 4 bars              | 4800        | 9600  | 2,0          | 2,7         | 2,4             | 1000          | 1400              |            |        |             |
| NTE 20 XT 001 | 001             | 6,2 bars            | 5600        | 11200 | 2,6          | 4,7         | 4,1             | 1550          | 1800              | 327,1      | 76,1   | 2,7         |
|               |                 | 5 bars              | 5300        | 10600 | 2,2          | 3,8         | 3,3             | 1200          | 1500              |            |        |             |
|               |                 | 4 bars              | 5000        | 10000 | 1,8          | 3,2         | 2,8             | 950           | 1200              |            |        |             |
| NTE 20 RV 001 | 001             | 6,2 bars            | 4700        | 9400  | 2,7          | 3,4         | 3,0             | 1350          | 1800              | 348,6      | 76,1   | 3,3         |
|               |                 | 5 bars              | 4400        | 8800  | 2,2          | 2,8         | 2,5             | 1000          | 1500              |            |        |             |
|               |                 | 4 bars              | 4100        | 8200  | 1,8          | 2,3         | 2,0             | 750           | 1200              |            |        |             |

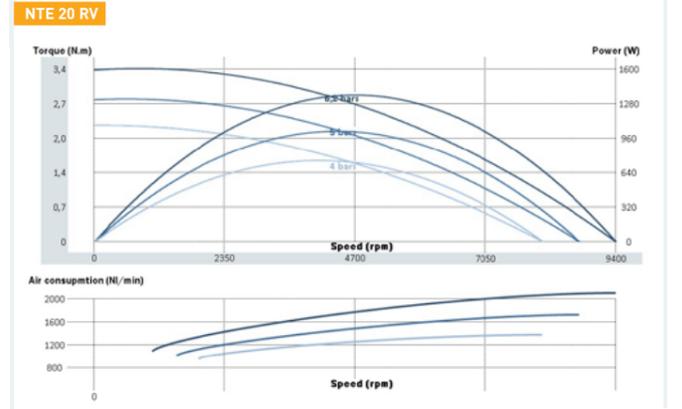
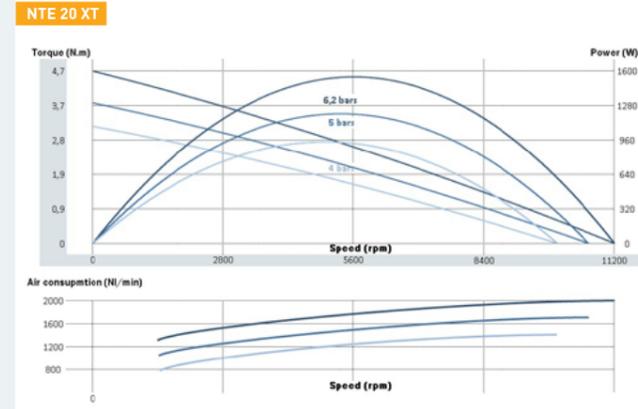
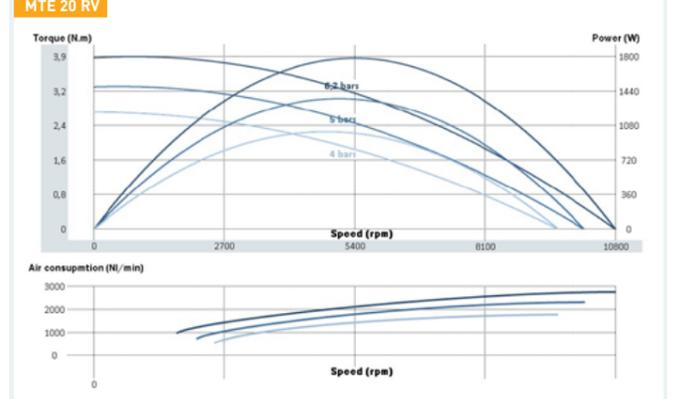
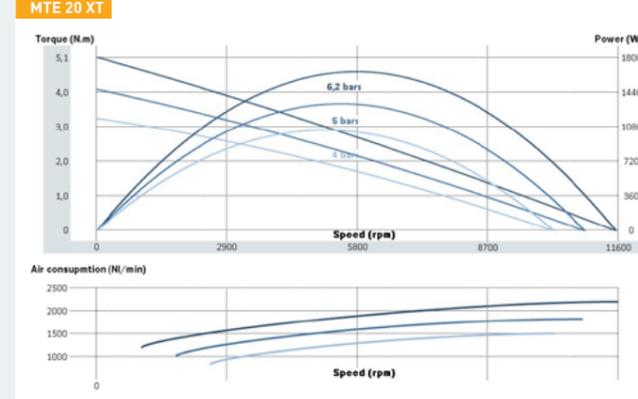
For connection and lubrication, see page 101. Data indicated in this table have an accuracy of +/- 5%

| OPTIONS AVAILABLE FOR THE MTE 20 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 21 | 22 | 23 | 27 | 28 | 29 | 30 | 31 | 32 | 36 | 37 |
|----------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Collected exhaust                |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| ATEX certification               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Left/Right switch*               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Lubrication free                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Kit start                        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Speed control**                  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Inox                             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Code                             | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 21 | 22 | 23 | 27 | 28 | 29 | 30 | 31 | 32 | 36 | 37 |

| OPTIONS AVAILABLE FOR THE NTE 20 XT | 01 | 02 | 04 | 05 | 06 | 07 | 09 | 10 | 13 | 14 | 15 | 18 | 19 | 21 | 22 | 31 | 32 |  |
|-------------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|
| Collected exhaust                   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| ATEX certification                  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Lubrication free                    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Kit start                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Speed control                       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Code                                | 01 | 02 | 04 | 05 | 06 | 07 | 09 | 10 | 13 | 14 | 15 | 18 | 19 | 21 | 22 | 31 | 32 |  |

| FOR THE NTE 20 RV  | 03 | 12 | 16 | 17 | 29 | 30 |
|--------------------|----|----|----|----|----|----|
| ATEX certification |    |    |    |    |    |    |
| Left/Right switch  |    |    |    |    |    |    |
| Lubrication free   |    |    |    |    |    |    |
| Kit start          |    |    |    |    |    |    |
| Code               | 03 | 12 | 16 | 17 | 29 | 30 |

POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS



# MOTORS MTS 20

## POWER 1700-1800 W

MTS 20 XT



MTS 20 RV



**REDUCTION RATIO**  
(3 digits)  
See table below

**OPTIONS**  
(2 digits)  
See table below

**ROTATION\***

- RT Right (Clockwise)
- LT Left (CCW)
- RV Reversible

**FLANGE**

(1 to 2 digits)  
Group IV pages 160 to 162

**OUTPUT SHAFT**

(1 to 3 digits)  
Group IV pages 163 to 165

\* rotation direction is defined when looking from the back of the motor

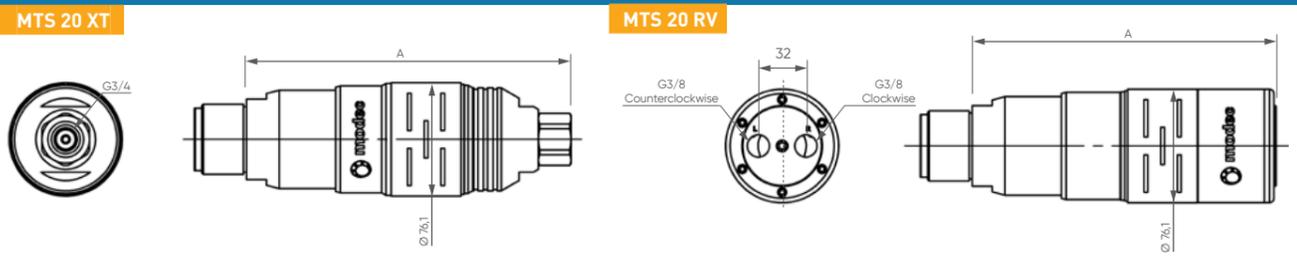
**PERFORMANCES**

| Air motor reference | Reduction ratio | Air supply pressure | Speed (rpm) |      | Torque (N.m) |             |                 | Max Power (W) | Air cons (Nl/min) | Dimensions |        |             |
|---------------------|-----------------|---------------------|-------------|------|--------------|-------------|-----------------|---------------|-------------------|------------|--------|-------------|
|                     |                 |                     | @ max Power | Free | @ max Power  | Max (stall) | Starting torque |               |                   | A (mm)     | Ø (mm) | Weight (kg) |
| MTS 20 XT 004       | 4               | 6,2 bars            | 1385        | 2770 | 11           | 21          | 19              | 1650          | 1900              | 186,5      | 76,1   | 2,9         |
|                     |                 | 5 bars              | 1295        | 2589 | 9,7          | 17          | 15              | 1311          | 1600              |            |        |             |
|                     |                 | 4 bars              | 1213        | 2426 | 8,2          | 14          | 12              | 1040          | 1200              |            |        |             |
| MTS 20 XT 005       | 5               | 6,2 bars            | 1203        | 2407 | 13           | 24          | 21              | 1650          | 1900              | 186,5      | 76,1   | 2,9         |
|                     |                 | 5 bars              | 1125        | 2249 | 11           | 20          | 17              | 1311          | 1600              |            |        |             |
|                     |                 | 4 bars              | 1054        | 2107 | 9,4          | 16          | 14              | 1040          | 1200              |            |        |             |
| MTS 20 XT 006       | 6               | 6,2 bars            | 1005        | 2009 | 16           | 29          | 26              | 1650          | 1900              | 186,5      | 76,1   | 2,9         |
|                     |                 | 5 bars              | 939         | 1878 | 13           | 24          | 21              | 1311          | 1600              |            |        |             |
|                     |                 | 4 bars              | 880         | 1759 | 11           | 19          | 17              | 1040          | 1200              |            |        |             |
| MTS 20 XT 007       | 7               | 6,2 bars            | 788         | 1576 | 20           | 37          | 33              | 1650          | 1900              | 186,5      | 76,1   | 2,9         |
|                     |                 | 5 bars              | 737         | 1473 | 17           | 30          | 26              | 1311          | 1600              |            |        |             |
|                     |                 | 4 bars              | 690         | 1380 | 14           | 24          | 21              | 1040          | 1200              |            |        |             |
| MTS 20 XT 011       | 11              | 6,2 bars            | 550         | 1100 | 29           | 53          | 47              | 1650          | 1900              | 186,5      | 76,1   | 2,9         |
|                     |                 | 5 bars              | 514         | 1028 | 24           | 43          | 38              | 1311          | 1600              |            |        |             |
|                     |                 | 4 bars              | 482         | 963  | 21           | 34          | 30              | 1040          | 1200              |            |        |             |
| MTS 20 XT 017       | 17              | 6,2 bars            | 332         | 664  | 47           | 88          | 77              | 1650          | 1900              | 218,5      | 76,1   | 3,5         |
|                     |                 | 5 bars              | 310         | 621  | 40           | 71          | 63              | 1311          | 1600              |            |        |             |
|                     |                 | 4 bars              | 291         | 582  | 34           | 57          | 50              | 1040          | 1200              |            |        |             |
| MTS 20 XT 023       | 23              | 6,2 bars            | 251         | 501  | 63           | 116         | 102             | 1650          | 1900              | 218,5      | 76,1   | 3,5         |
|                     |                 | 5 bars              | 234         | 469  | 53           | 94          | 83              | 1311          | 1600              |            |        |             |
|                     |                 | 4 bars              | 220         | 439  | 45           | 75          | 66              | 1040          | 1200              |            |        |             |
| MTS 20 XT 028       | 28              | 6,2 bars            | 209         | 419  | 75           | 139         | 123             | 1650          | 1900              | 218,5      | 76,1   | 3,5         |
|                     |                 | 5 bars              | 196         | 391  | 64           | 113         | 99              | 1311          | 1600              |            |        |             |
|                     |                 | 4 bars              | 183         | 367  | 54           | 90          | 80              | 1040          | 1200              |            |        |             |
| MTS 20 XT 033       | 33              | 6,2 bars            | 175         | 349  | 90           | 167         | 147             | 1650          | 1900              | 218,5      | 76,1   | 3,5         |
|                     |                 | 5 bars              | 163         | 327  | 77           | 135         | 119             | 1311          | 1600              |            |        |             |
|                     |                 | 4 bars              | 153         | 306  | 65           | 108         | 95              | 1040          | 1200              |            |        |             |
| MTS 20 XT 042       | 42              | 6,2 bars            | 137         | 274  | 115          | 213         | 187             | 1650          | 1900              | 218,5      | 76,1   | 3,5         |
|                     |                 | 5 bars              | 128         | 256  | 98           | 173         | 152             | 1311          | 1600              |            |        |             |
|                     |                 | 4 bars              | 120         | 240  | 83           | 138         | 121             | 1040          | 1200              |            |        |             |
| MTS 20 XT 054       | 54              | 6,2 bars            | 108         | 215  | 147          | 271         | 239             | 1650          | 1900              | 218,5      | 76,1   | 3,5         |
|                     |                 | 5 bars              | 100         | 201  | 125          | 220         | 194             | 1311          | 1600              |            |        |             |
|                     |                 | 4 bars              | 94          | 188  | 106          | 176         | 155             | 1040          | 1200              |            |        |             |

For connection and lubrication, see page 101

Data indicated in this table have an accuracy of +/- 5%

**LAYOUT**



**OPTIONS AVAILABLE FOR THIS MOTOR**

| Option             | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 09 | 10 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 21 | 22 | 29 | 30 | 31 | 32 |
|--------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Collected exhaust  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| ATEX certification |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Left/Right switch* |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Lubrication free   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Kit start          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Speed control**    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

+ List of available accessories for this motor page 101

\* Reversible motors only  
\*\* Non reversible motors only

**PERFORMANCES**

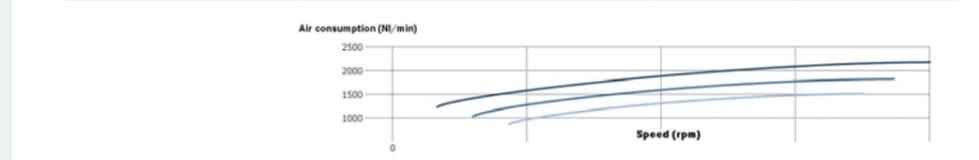
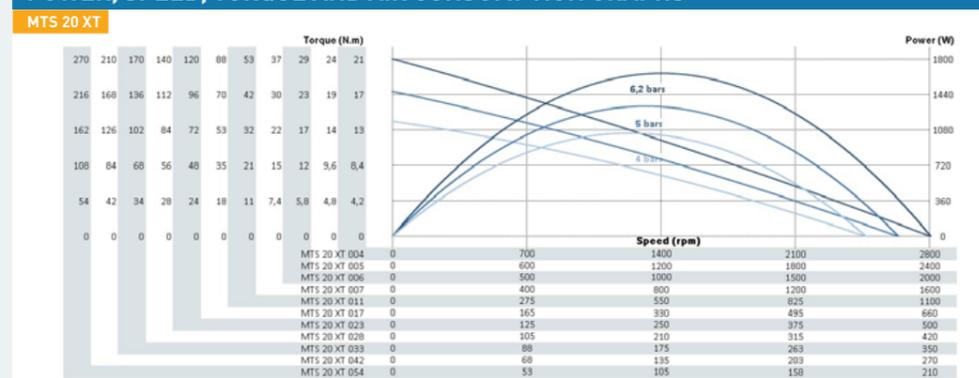
| Air motor reference | Reduction ratio | Air supply pressure | Speed (rpm) |      | Torque (N.m) |             |                 | Max Power (W) | Air cons (Nl/min) | Dimensions |        |             |
|---------------------|-----------------|---------------------|-------------|------|--------------|-------------|-----------------|---------------|-------------------|------------|--------|-------------|
|                     |                 |                     | @ max Power | Free | @ max Power  | Max (stall) | Starting torque |               |                   | A (mm)     | Ø (mm) | Weight (kg) |
| MTS 20 RV 004       | 4               | 6,2 bars            | 1301        | 2602 | 13           | 16          | 14              | 1779          | 2100              | 172,5      | 76,1   | 3,3         |
|                     |                 | 5 bars              | 1227        | 2455 | 11           | 14          | 12              | 1365          | 1700              |            |        |             |
|                     |                 | 4 bars              | 1163        | 2326 | 8,5          | 11          | 9,9             | 1029          | 1400              |            |        |             |
| MTS 20 RV 005       | 5               | 6,2 bars            | 1130        | 2261 | 15           | 19          | 17              | 1779          | 2100              | 172,5      | 76,1   | 3,3         |
|                     |                 | 5 bars              | 1066        | 2133 | 12           | 16          | 14              | 1365          | 1700              |            |        |             |
|                     |                 | 4 bars              | 1010        | 2020 | 9,7          | 13          | 11              | 1029          | 1400              |            |        |             |
| MTS 20 RV 006       | 6               | 6,2 bars            | 944         | 1887 | 18           | 23          | 20              | 1779          | 2100              | 172,5      | 76,1   | 3,3         |
|                     |                 | 5 bars              | 890         | 1780 | 15           | 19          | 17              | 1365          | 1700              |            |        |             |
|                     |                 | 4 bars              | 843         | 1687 | 12           | 15          | 14              | 1029          | 1400              |            |        |             |
| MTS 20 RV 007       | 7               | 6,2 bars            | 740         | 1481 | 23           | 29          | 25              | 1779          | 2100              | 172,5      | 76,1   | 3,3         |
|                     |                 | 5 bars              | 698         | 1397 | 19           | 24          | 21              | 1365          | 1700              |            |        |             |
|                     |                 | 4 bars              | 662         | 1323 | 15           | 20          | 17              | 1029          | 1400              |            |        |             |
| MTS 20 RV 011       | 11              | 6,2 bars            | 517         | 1034 | 33           | 41          | 36              | 1779          | 2100              | 172,5      | 76,1   | 3,3         |
|                     |                 | 5 bars              | 487         | 975  | 27           | 34          | 30              | 1365          | 1700              |            |        |             |
|                     |                 | 4 bars              | 462         | 924  | 21           | 28          | 25              | 1029          | 1400              |            |        |             |
| MTS 20 RV 017       | 17              | 6,2 bars            | 312         | 624  | 54           | 68          | 60              | 1779          | 2100              | 204,5      | 76,1   | 3,9         |
|                     |                 | 5 bars              | 294         | 589  | 44           | 57          | 50              | 1365          | 1700              |            |        |             |
|                     |                 | 4 bars              | 279         | 558  | 35           | 47          | 41              | 1029          | 1400              |            |        |             |
| MTS 20 RV 023       | 23              | 6,2 bars            | 236         | 471  | 72           | 91          | 80              | 1779          | 2100              | 204,5      | 76,1   | 3,9         |
|                     |                 | 5 bars              | 222         | 444  | 59           | 75          | 66              | 1365          | 1700              |            |        |             |
|                     |                 | 4 bars              | 210         | 421  | 47           | 62          | 55              | 1029          | 1400              |            |        |             |
| MTS 20 RV 028       | 28              | 6,2 bars            | 197         | 393  | 86           | 109         | 96              | 1779          | 2100              | 204,5      | 76,1   | 3,9         |
|                     |                 | 5 bars              | 185         | 371  | 70           | 90          | 80              | 1365          | 1700              |            |        |             |
|                     |                 | 4 bars              | 176         | 351  | 56           | 74          | 65              | 1029          | 1400              |            |        |             |
| MTS 20 RV 033       | 33              | 6,2 bars            | 164         | 328  | 104          | 130         | 115             | 1779          | 2100              | 204,5      | 76,1   | 3,9         |
|                     |                 | 5 bars              | 155         | 310  | 84           | 108         | 95              | 1365          | 1700              |            |        |             |
|                     |                 | 4 bars              | 147         | 293  | 67           | 89          | 78              | 1029          | 1400              |            |        |             |
| MTS 20 RV 042       | 42              | 6,2 bars            | 129         | 257  | 132          | 166         | 146             | 1779          | 2100              | 204,5      | 76,1   | 3,9         |
|                     |                 | 5 bars              | 121         | 243  | 107          | 138         | 121             | 1365          | 1700              |            |        |             |
|                     |                 | 4 bars              | 115         | 230  | 85           | 113         | 100             | 1029          | 1400              |            |        |             |
| MTS 20 RV 054       | 54              | 6,2 bars            | 101         | 202  | 168          | 212         | 186             | 1779          | 2100              | 204,5      | 76,1   | 3,9         |
|                     |                 | 5 bars              | 95          | 191  | 137          | 176         | 155             | 1365          | 1700              |            |        |             |
|                     |                 | 4 bars              | 90          | 180  | 109          | 145         | 127             | 1029          | 1400              |            |        |             |
| MTS 20 RV 077       | 77              | 6,2 bars            | 71          | 141  | 241          | 303         | 267             | 1779          | 2100              | 204,5      | 76,1   | 3,9         |
|                     |                 | 5 bars              | 67          | 133  | 196          | 252         | 222             | 1365          | 1700              |            |        |             |
|                     |                 | 4 bars              | 63          | 126  | 156          | 207         | 182             | 1029          | 1400              |            |        |             |



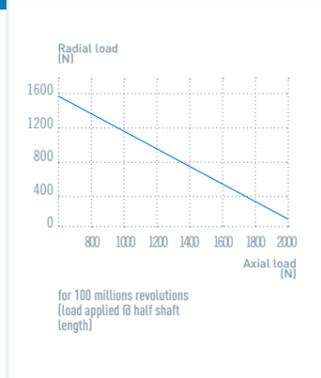
For connection and lubrication, see page 101

Data indicated in this table have an accuracy of +/- 5%

**POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS**

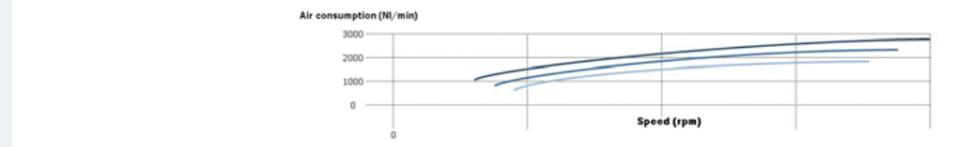
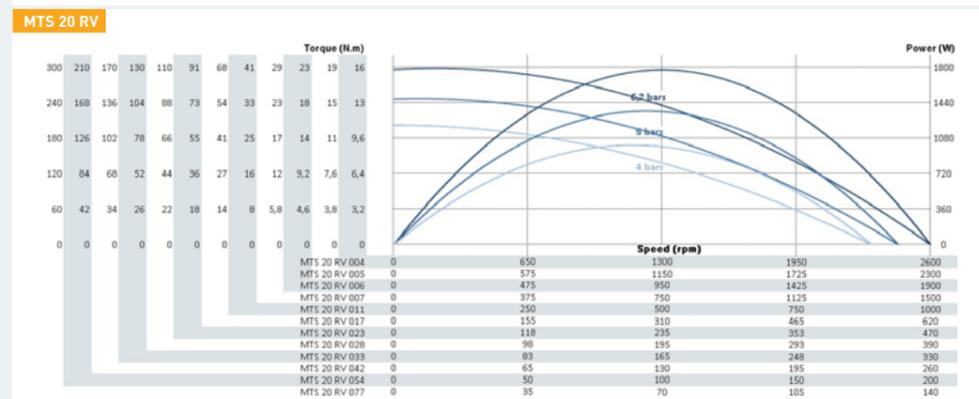


**MAXIMUM RADIAL & AXIAL LOAD**



**NOTES**

for 100 millions revolutions (load applied @ half shaft length)





# MOTORS MTZ 20

## POWER 1700-1900 W

MTZ 20 XT



MTZ 20 RV



### REDUCTION RATIO

(3 digits)  
See table below

### OPTIONS

(2 digits)  
See table on right page

**M T Z 2 0 X X X X X X X X - X X**

### ROTATION\*

- RT Right (Clockwise)
- LT Left (CCW)
- RV Reversible

### FLANGE

(1 to 2 digits)  
Group VI page 167

### OUTPUT SHAFT

(1 to 3 digits)  
Group VI page 168

\* rotation direction is defined when looking from the back of the motor

PERFORMANCES

| Air motor reference | Reduction ratio | Air supply pressure | Speed (rpm) |      | Torque (N.m) |             |                 | Max Power (W) | Air cons (NI/min) | Dimensions |        |             |
|---------------------|-----------------|---------------------|-------------|------|--------------|-------------|-----------------|---------------|-------------------|------------|--------|-------------|
|                     |                 |                     | @ max Power | Free | @ max Power  | Max (stall) | Starting torque |               |                   | A (mm)     | Ø (mm) | Weight (kg) |
| MTZ 20 XT 074       | 74              | 6,2 bars            | 79          | 157  | 212          | 404         | 356             | 1748          | 1900              | 178,7      | 88,8   | 5,3         |
|                     |                 | 5 bars              | 73          | 147  | 183          | 335         | 295             | 1407          | 1600              |            |        |             |
|                     |                 | 4 bars              | 69          | 139  | 155          | 271         | 238             | 1125          | 1200              |            |        |             |
| MTZ 20 XT 113       | 113             | 6,2 bars            | 52          | 103  | 324          | 617         | 543             | 1748          | 1900              | 178,7      | 88,8   | 5,3         |
|                     |                 | 5 bars              | 48          | 96   | 279          | 512         | 450             | 1407          | 1600              |            |        |             |
|                     |                 | 4 bars              | 45          | 91   | 237          | 414         | 364             | 1125          | 1200              |            |        |             |
| MTZ 20 RV 085       | 85              | 6,2 bars            | 63          | 127  | 283          | 392         | 345             | 1880          | 2100              | 164,7      | 88,8   | 5,9         |
|                     |                 | 5 bars              | 60          | 120  | 229          | 322         | 283             | 1436          | 1700              |            |        |             |
|                     |                 | 4 bars              | 56          | 112  | 185          | 257         | 227             | 1086          | 1400              |            |        |             |
| MTZ 20 RV 113       | 113             | 6,2 bars            | 48          | 96   | 376          | 520         | 458             | 1880          | 2100              | 164,7      | 88,8   | 5,9         |
|                     |                 | 5 bars              | 45          | 90   | 304          | 427         | 376             | 1436          | 1700              |            |        |             |
|                     |                 | 4 bars              | 42          | 84   | 245          | 342         | 301             | 1086          | 1400              |            |        |             |
| MTZ 20 RV 131       | 131             | 6,2 bars            | 42          | 83   | 433          | 599         | 527             | 1880          | 2100              | 164,7      | 88,8   | 5,9         |
|                     |                 | 5 bars              | 39          | 78   | 350          | 492         | 433             | 1436          | 1700              |            |        |             |
|                     |                 | 4 bars              | 37          | 73   | 283          | 393         | 346             | 1086          | 1400              |            |        |             |

For connection and lubrication, see page 101

Data indicated in this table have an accuracy of +/- 5%

### OPTIONS AVAILABLE FOR THIS MOTOR

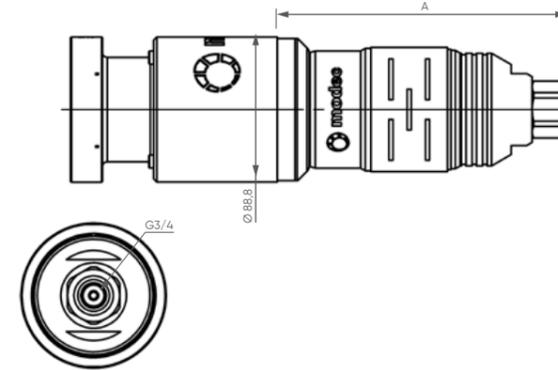
|                    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|--------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|
| Collected exhaust  | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 21 | 22 | 23 | 27 | 28 | 29 | 30 | 31 | 32 | 36 | 37 |  |
| ATEX certification |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Left/Right switch* |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Lubrication free   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Kit start          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Speed control**    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Inox               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |

+ List of available accessories for this motor page 101

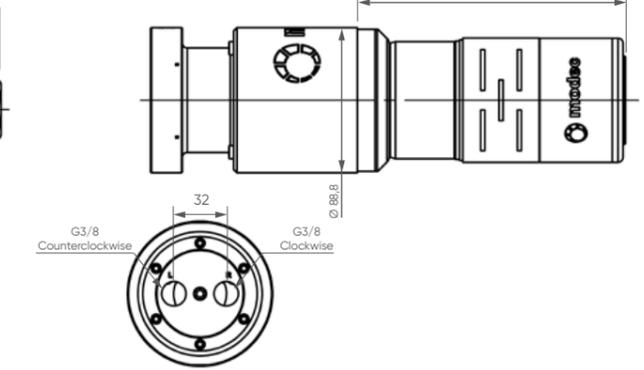
\* Reversible motors only \*\* Non reversible motors only

### LAYOUT

MTZ 20 XT

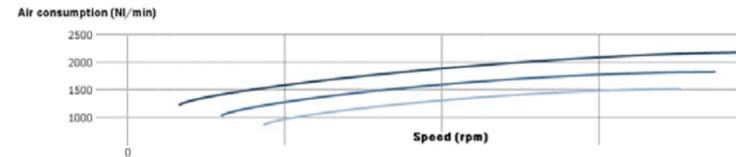
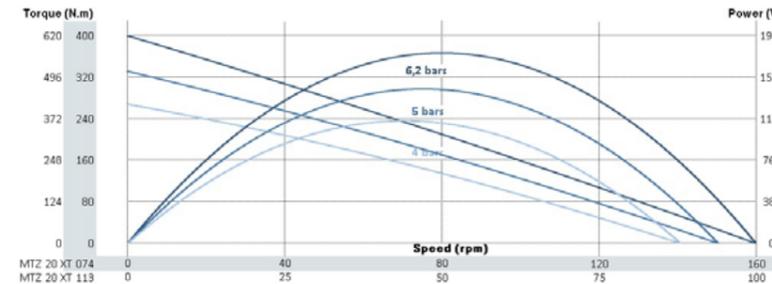


MTZ 20 RV

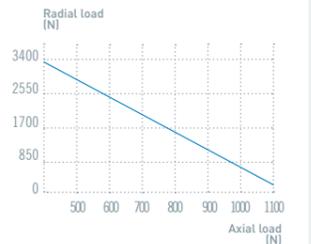


### POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS

MTZ 20 XT



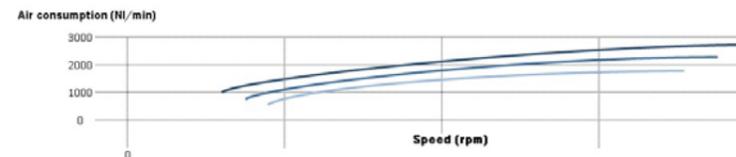
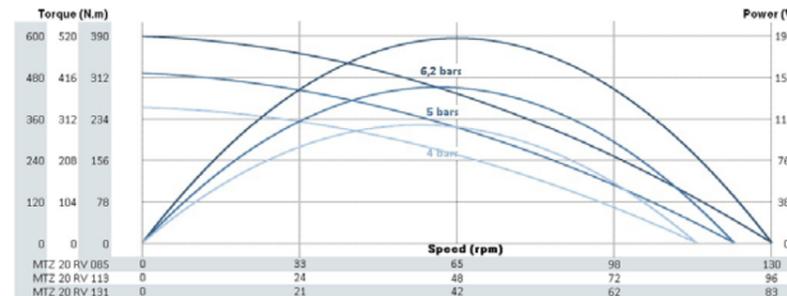
### MAXIMUM RADIAL & AXIAL LOAD



for 100 millions revolutions (load applied @ half shaft length)

### NOTES

MTZ 20 RV





# MOTORS MRS 20

## POWER 1600-1700 W

MRS 20 XT



MRS 20 RV



**REDUCTION RATIO**

(3 digits)  
See table below

**OPTIONS**

(2 digits)  
See table on right page

**ROTATION\***

- RT Right (Clockwise)
- LT Left (CCW)
- RV Reversible

**FLANGE**

(1 to 2 digits)  
Group VII page 169

**OUTPUT SHAFT**

(1 to 3 digits)  
Group VII pages 170 to 171

\* rotation direction is defined when looking from the back of the motor

| PERFORMANCES  | MRS 20 XT           |                 | Speed (rpm)         |             | Torque (N.m) |              |             | Max Power (W)   | Air cons (Nl/min) | Dimensions        |            |        |             |
|---------------|---------------------|-----------------|---------------------|-------------|--------------|--------------|-------------|-----------------|-------------------|-------------------|------------|--------|-------------|
|               | Air motor reference | Reduction ratio | Air supply pressure | @ max Power | Free         | @ max Power  | Max (stall) |                 |                   | Starting torque   | A (mm)     | Ø (mm) | Weight (kg) |
|               |                     |                 |                     |             |              |              |             |                 |                   |                   |            |        |             |
| MRS 20 XT 005 | 5,5                 | 6,2 bars        | 1051                | 2102        | 14           | 26           | 22          | 1574            | 1900              | 278,5             | 76,1       | 4,1    |             |
|               |                     | 5 bars          | 968                 | 1936        | 13           | 22           | 19          | 1298            |                   |                   |            |        |             |
|               |                     | 4 bars          | 895                 | 1790        | 11           | 18           | 16          | 1021            |                   |                   |            |        |             |
| MRS 20 XT 006 | 6,4                 | 6,2 bars        | 913                 | 1826        | 16           | 29           | 26          | 1574            | 1900              | 278,5             | 76,1       | 4,1    |             |
|               |                     | 5 bars          | 841                 | 1682        | 15           | 25           | 22          | 1298            |                   |                   |            |        |             |
|               |                     | 4 bars          | 778                 | 1555        | 13           | 21           | 18          | 1021            |                   |                   |            |        |             |
| MRS 20 XT 008 | 8                   | 6,2 bars        | 762                 | 1524        | 20           | 35           | 31          | 1574            | 1900              | 278,5             | 76,1       | 4,1    |             |
|               |                     | 5 bars          | 702                 | 1404        | 18           | 30           | 26          | 1298            |                   |                   |            |        |             |
|               |                     | 4 bars          | 649                 | 1298        | 15           | 25           | 22          | 1021            |                   |                   |            |        |             |
| MRS 20 XT 010 | 10                  | 6,2 bars        | 598                 | 1196        | 25           | 45           | 39          | 1574            | 1900              | 278,5             | 76,1       | 4,1    |             |
|               |                     | 5 bars          | 551                 | 1102        | 22           | 38           | 33          | 1298            |                   |                   |            |        |             |
|               |                     | 4 bars          | 509                 | 1018        | 19           | 32           | 28          | 1021            |                   |                   |            |        |             |
| MRS 20 XT 014 | 14                  | 6,2 bars        | 417                 | 835         | 36           | 64           | 57          | 1574            | 1900              | 278,5             | 76,1       | 4,1    |             |
|               |                     | 5 bars          | 385                 | 769         | 32           | 54           | 48          | 1298            |                   |                   |            |        |             |
|               |                     | 4 bars          | 355                 | 711         | 27           | 46           | 40          | 1021            |                   |                   |            |        |             |
| MRS 20 XT 023 | 23                  | 6,2 bars        | 252                 | 504         | 60           | 106          | 94          | 1574            | 1900              | 310,5             | 76,1       | 4,7    |             |
|               |                     | 5 bars          | 232                 | 464         | 53           | 90           | 79          | 1298            |                   |                   |            |        |             |
|               |                     | 4 bars          | 215                 | 429         | 45           | 75           | 66          | 1021            |                   |                   |            |        |             |
| MRS 20 XT 027 | 27                  | 6,2 bars        | 219                 | 438         | 69           | 122          | 108         | 1574            | 1900              | 310,5             | 76,1       | 4,7    |             |
|               |                     | 5 bars          | 202                 | 403         | 61           | 103          | 91          | 1298            |                   |                   |            |        |             |
|               |                     | 4 bars          | 186                 | 373         | 52           | 87           | 76          | 1021            |                   |                   |            |        |             |
| MRS 20 XT 031 | 31                  | 6,2 bars        | 190                 | 380         | 79           | 141          | 124         | 1574            | 1900              | 310,5             | 76,1       | 4,7    |             |
|               |                     | 5 bars          | 175                 | 350         | 71           | 119          | 105         | 1298            |                   |                   |            |        |             |
|               |                     | 4 bars          | 162                 | 324         | 60           | 100          | 88          | 1021            |                   |                   |            |        |             |
| MRS 20 XT 037 | 37                  | 6,2 bars        | 159                 | 318         | 95           | 169          | 149         | 1574            | 1900              | 310,5             | 76,1       | 4,7    |             |
|               |                     | 5 bars          | 146                 | 293         | 85           | 142          | 125         | 1298            |                   |                   |            |        |             |
|               |                     | 4 bars          | 135                 | 270         | 72           | 120          | 105         | 1021            |                   |                   |            |        |             |
| MRS 20 RV     | Air motor reference | Reduction ratio | Air supply pressure | Speed (rpm) |              | Torque (N.m) |             |                 | Max Power (W)     | Air cons (Nl/min) | Dimensions |        |             |
|               |                     |                 |                     | @ max Power | Free         | @ max Power  | Max (stall) | Starting torque |                   |                   | A (mm)     | Ø (mm) | Weight (kg) |
|               |                     |                 |                     |             |              |              |             |                 |                   |                   |            |        |             |
| MRS 20 RV 005 | 5,5                 | 6,2 bars        | 982                 | 1964        | 16           | 21           | 19          | 1676            | 2100              | 264,5             | 76,1       | 4      |             |
|               |                     | 5 bars          | 928                 | 1856        | 14           | 17           | 15          | 1314            |                   |                   |            |        |             |
|               |                     | 4 bars          | 877                 | 1755        | 11           | 14           | 13          | 989             |                   |                   |            |        |             |
| MRS 20 RV 006 | 6,4                 | 6,2 bars        | 853                 | 1706        | 19           | 24           | 21          | 1676            | 2100              | 264,5             | 76,1       | 4      |             |
|               |                     | 5 bars          | 806                 | 1612        | 16           | 20           | 18          | 1314            |                   |                   |            |        |             |
|               |                     | 4 bars          | 762                 | 1524        | 12           | 17           | 15          | 989             |                   |                   |            |        |             |
| MRS 20 RV 008 | 8                   | 6,2 bars        | 712                 | 1424        | 22           | 29           | 26          | 1676            | 2100              | 264,5             | 76,1       | 4      |             |
|               |                     | 5 bars          | 673                 | 1346        | 19           | 24           | 21          | 1314            |                   |                   |            |        |             |
|               |                     | 4 bars          | 636                 | 1272        | 15           | 20           | 17          | 989             |                   |                   |            |        |             |
| MRS 20 RV 010 | 10                  | 6,2 bars        | 559                 | 1117        | 29           | 37           | 33          | 1676            | 2100              | 264,5             | 76,1       | 4      |             |
|               |                     | 5 bars          | 528                 | 1056        | 24           | 31           | 27          | 1314            |                   |                   |            |        |             |
|               |                     | 4 bars          | 499                 | 998         | 19           | 25           | 22          | 989             |                   |                   |            |        |             |
| MRS 20 RV 014 | 14                  | 6,2 bars        | 390                 | 780         | 41           | 53           | 47          | 1676            | 2100              | 264,5             | 76,1       | 4,0    |             |
|               |                     | 5 bars          | 368                 | 737         | 34           | 44           | 39          | 1314            |                   |                   |            |        |             |
|               |                     | 4 bars          | 348                 | 697         | 27           | 36           | 32          | 989             |                   |                   |            |        |             |
| MRS 20 RV 023 | 23                  | 6,2 bars        | 235                 | 471         | 68           | 88           | 77          | 1676            | 2100              | 296,5             | 76,1       | 4,6    |             |
|               |                     | 5 bars          | 223                 | 445         | 56           | 73           | 64          | 1314            |                   |                   |            |        |             |
|               |                     | 4 bars          | 210                 | 421         | 45           | 60           | 53          | 989             |                   |                   |            |        |             |
| MRS 20 RV 027 | 27                  | 6,2 bars        | 205                 | 409         | 78           | 101          | 89          | 1676            | 2100              | 296,5             | 76,1       | 4,6    |             |
|               |                     | 5 bars          | 193                 | 387         | 65           | 84           | 74          | 1314            |                   |                   |            |        |             |
|               |                     | 4 bars          | 183                 | 366         | 52           | 69           | 61          | 989             |                   |                   |            |        |             |
| MRS 20 RV 031 | 31                  | 6,2 bars        | 178                 | 355         | 90           | 116          | 102         | 1676            | 2100              | 296,5             | 76,1       | 4,6    |             |
|               |                     | 5 bars          | 168                 | 336         | 75           | 97           | 85          | 1314            |                   |                   |            |        |             |
|               |                     | 4 bars          | 159                 | 318         | 59           | 79           | 70          | 989             |                   |                   |            |        |             |
| MRS 20 RV 037 | 37                  | 6,2 bars        | 148                 | 297         | 108          | 139          | 122         | 1676            | 2100              | 296,5             | 76,1       | 4,6    |             |
|               |                     | 5 bars          | 140                 | 280         | 89           | 116          | 102         | 1314            |                   |                   |            |        |             |
|               |                     | 4 bars          | 133                 | 265         | 71           | 95           | 84          | 989             |                   |                   |            |        |             |
| MRS 20 RV 041 | 41                  | 6,2 bars        | 134                 | 268         | 120          | 154          | 136         | 1676            | 2100              | 296,5             | 76,1       | 4,6    |             |
|               |                     | 5 bars          | 127                 | 253         | 99           | 128          | 113         | 1314            |                   |                   |            |        |             |
|               |                     | 4 bars          | 120                 | 239         | 79           | 105          | 93          | 989             |                   |                   |            |        |             |

For connection and lubrication, see page 101

Data indicated in this table have an accuracy of +/- 5%

**OPTIONS AVAILABLE FOR THIS MOTOR**

|                    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|--------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Collected exhaust  | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 09 | 10 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 21 | 22 | 29 | 30 | 31 | 32 |
| ATEX certification |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Left/Right switch* |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Lubrication free   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Kit start          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Speed control**    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

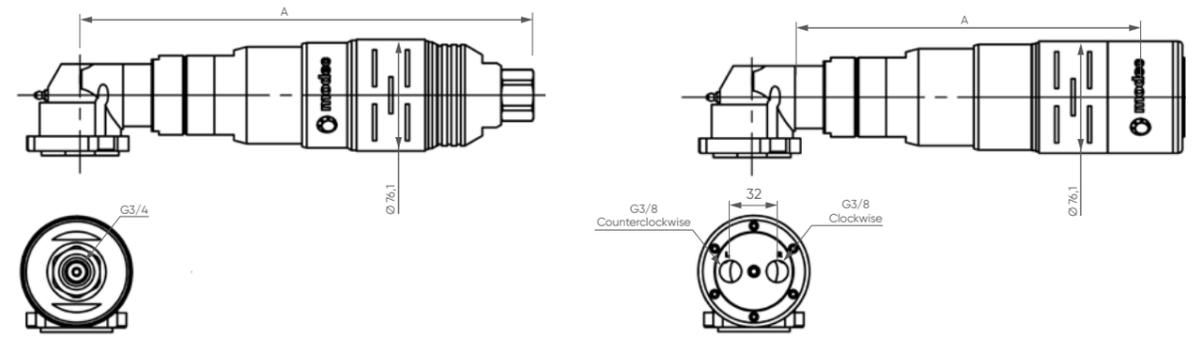
+ List of available accessories for this motor page 101

\* Reversible motors only \*\* Non reversible motors only

**LAYOUT**

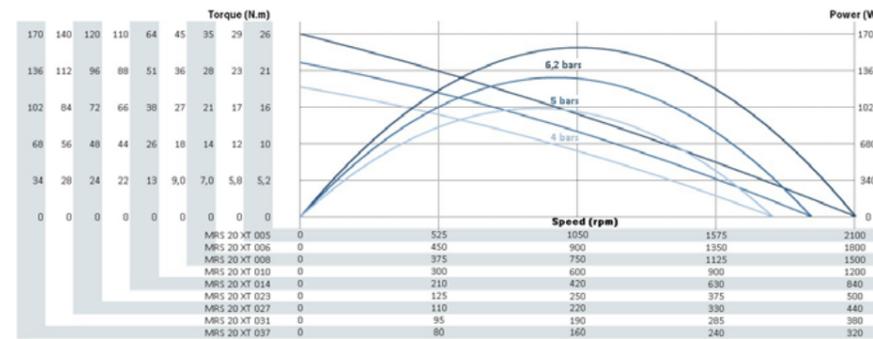
MRS 20 XT

MRS 20 RV

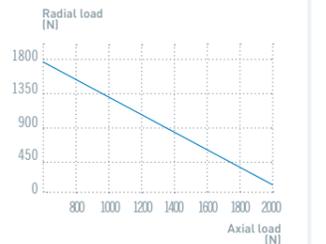


**POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS**

MRS 20 XT

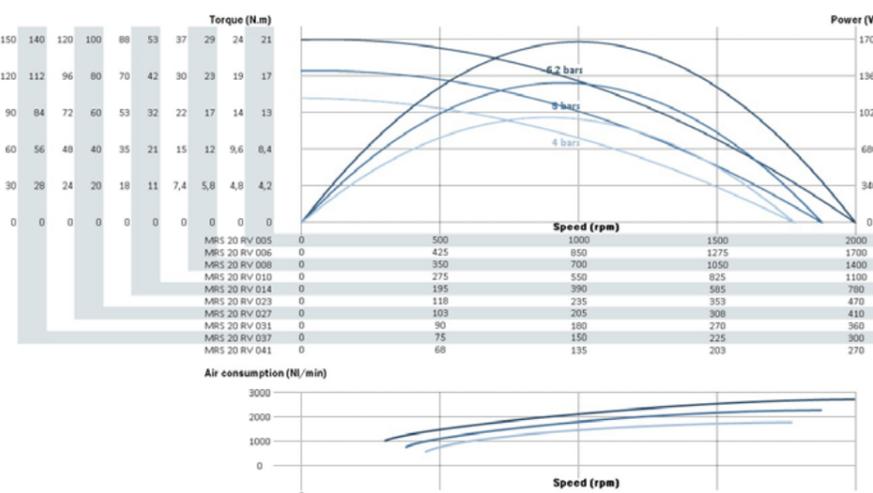


**MAXIMUM RADIAL & AXIAL LOAD**



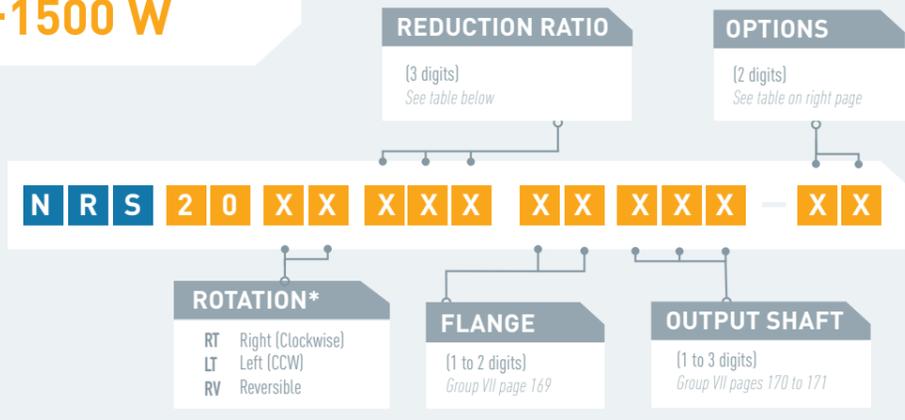
**NOTES**

MRS 20 RV



# MOTORS NRS 20

## POWER 1300-1500 W



\* rotation direction is defined when looking from the back of the motor

| PERFORMANCES | NRS 20 XT           |                 |                     |        |             |      |             |              |                 |        |               |                   |            |             |  |
|--------------|---------------------|-----------------|---------------------|--------|-------------|------|-------------|--------------|-----------------|--------|---------------|-------------------|------------|-------------|--|
|              | Air motor reference | Reduction ratio | Air supply pressure |        | Speed (rpm) |      |             | Torque (N.m) |                 |        | Max Power (W) | Air cons (Nl/min) | Dimensions |             |  |
|              |                     |                 | 6,2 bars            | 5 bars | @ max Power | Free | @ max Power | Max (stall)  | Starting torque | A (mm) |               |                   | Ø (mm)     | Weight (kg) |  |
|              | NRS 20 XT 005       | 5,5             | 6,2 bars            | 1026   | 2051        | 14   | 25          | 22           | 1486            | 1800   | 421,5         | 76,1              | 4,6        |             |  |
|              | NRS 20 XT 006       | 6,4             | 6,2 bars            | 891    | 1782        | 16   | 29          | 25           | 1486            | 1800   | 421,5         | 76,1              | 4,6        |             |  |
|              | NRS 20 XT 008       | 8               | 6,2 bars            | 744    | 1488        | 19   | 34          | 30           | 1486            | 1800   | 421,5         | 76,1              | 4,6        |             |  |
|              | NRS 20 XT 010       | 10              | 6,2 bars            | 583    | 1167        | 24   | 44          | 38           | 1486            | 1800   | 421,5         | 76,1              | 4,6        |             |  |
|              | NRS 20 XT 014       | 14              | 6,2 bars            | 407    | 815         | 35   | 63          | 55           | 1486            | 1800   | 421,5         | 76,1              | 4,6        |             |  |
|              | NRS 20 XT 023       | 23              | 6,2 bars            | 246    | 492         | 58   | 104         | 91           | 1486            | 1800   | 453,5         | 76,1              | 4,9        |             |  |
|              | NRS 20 XT 027       | 27              | 6,2 bars            | 214    | 427         | 66   | 119         | 105          | 1486            | 1800   | 453,5         | 76,1              | 4,9        |             |  |
|              | NRS 20 XT 031       | 31              | 6,2 bars            | 186    | 371         | 76   | 137         | 121          | 1486            | 1800   | 453,5         | 76,1              | 4,9        |             |  |
|              | NRS 20 XT 037       | 37              | 6,2 bars            | 155    | 310         | 92   | 164         | 145          | 1486            | 1800   | 453,5         | 76,1              | 4,9        |             |  |
| NRS 20 RV    |                     |                 |                     |        |             |      |             |              |                 |        |               |                   |            |             |  |
| PERFORMANCES | Air motor reference | Reduction ratio | Air supply pressure |        | Speed (rpm) |      |             | Torque (N.m) |                 |        | Max Power (W) | Air cons (Nl/min) | Dimensions |             |  |
|              |                     |                 | 6,2 bars            | 5 bars | @ max Power | Free | @ max Power | Max (stall)  | Starting torque | A (mm) |               |                   | Ø (mm)     | Weight (kg) |  |
|              | NRS 20 RV 005       | 5,5             | 6,2 bars            | 856    | 1713        | 14   | 18          | 16           | 1269            | 1800   | 443           | 76,1              | 5,2        |             |  |
|              | NRS 20 RV 006       | 6,4             | 6,2 bars            | 744    | 1488        | 16   | 21          | 18           | 1269            | 1800   | 443           | 76,1              | 5,2        |             |  |
|              | NRS 20 RV 008       | 8               | 6,2 bars            | 621    | 1242        | 20   | 25          | 22           | 1269            | 1800   | 443           | 76,1              | 5,2        |             |  |
|              | NRS 20 RV 010       | 10              | 6,2 bars            | 487    | 974         | 25   | 32          | 28           | 1269            | 1800   | 443           | 76,1              | 5,2        |             |  |
|              | NRS 20 RV 014       | 14              | 6,2 bars            | 340    | 680         | 36   | 46          | 40           | 1269            | 1800   | 443           | 76,1              | 5,2        |             |  |
|              | NRS 20 RV 023       | 23              | 6,2 bars            | 205    | 411         | 59   | 76          | 67           | 1269            | 1800   | 475           | 76,1              | 5,5        |             |  |
|              | NRS 20 RV 027       | 27              | 6,2 bars            | 178    | 357         | 68   | 87          | 77           | 1269            | 1800   | 475           | 76,1              | 5,5        |             |  |
|              | NRS 20 RV 031       | 31              | 6,2 bars            | 155    | 310         | 78   | 100         | 88           | 1269            | 1800   | 475           | 76,1              | 5,5        |             |  |
|              | NRS 20 RV 037       | 37              | 6,2 bars            | 129    | 259         | 94   | 120         | 106          | 1269            | 1800   | 475           | 76,1              | 5,5        |             |  |
|              | NRS 20 RV 041       | 41              | 6,2 bars            | 117    | 234         | 104  | 133         | 117          | 1269            | 1800   | 475           | 76,1              | 5,5        |             |  |
|              | NRS 20 RV 047       | 47              | 6,2 bars            | 102    | 203         | 119  | 153         | 135          | 1269            | 1800   | 475           | 76,1              | 5,5        |             |  |

For connection and lubrication, see page 101

Data indicated in this table have an accuracy of +/- 5%

### OPTIONS AVAILABLE FOR THE NRS 20 XT

|                    |    |    |    |    |    |
|--------------------|----|----|----|----|----|
| Collected exhaust  |    |    |    |    |    |
| ATEX certification |    |    |    |    |    |
| Lubrication free   |    |    |    |    |    |
| Kit start          |    |    |    |    |    |
| Speed control      |    |    |    |    |    |
| Code               | 19 | 21 | 22 | 31 | 32 |

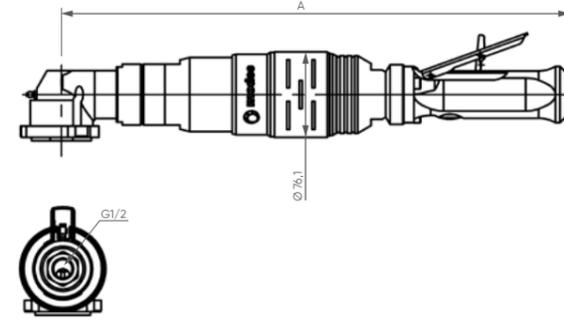
+ List of available accessories for this motor page 101

### OPTIONS AVAILABLE FOR THE NRS 20 RV

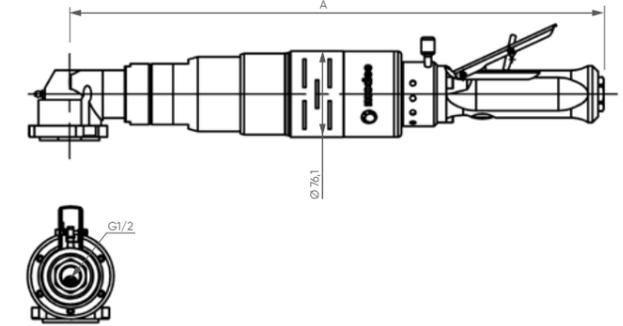
|                    |    |    |    |    |    |    |
|--------------------|----|----|----|----|----|----|
| ATEX certification |    |    |    |    |    |    |
| Left/Right switch  |    |    |    |    |    |    |
| Lubrication free   |    |    |    |    |    |    |
| Kit start          |    |    |    |    |    |    |
| Code               | 03 | 12 | 16 | 17 | 29 | 30 |

### LAYOUT

#### NRS 20 XT

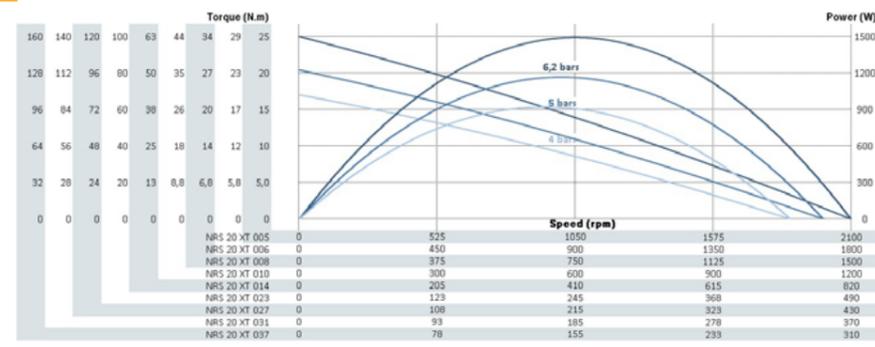


#### NRS 20 RV

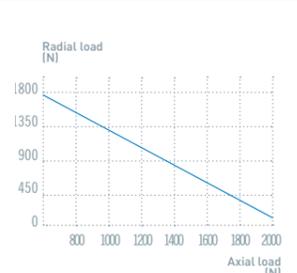


### POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS

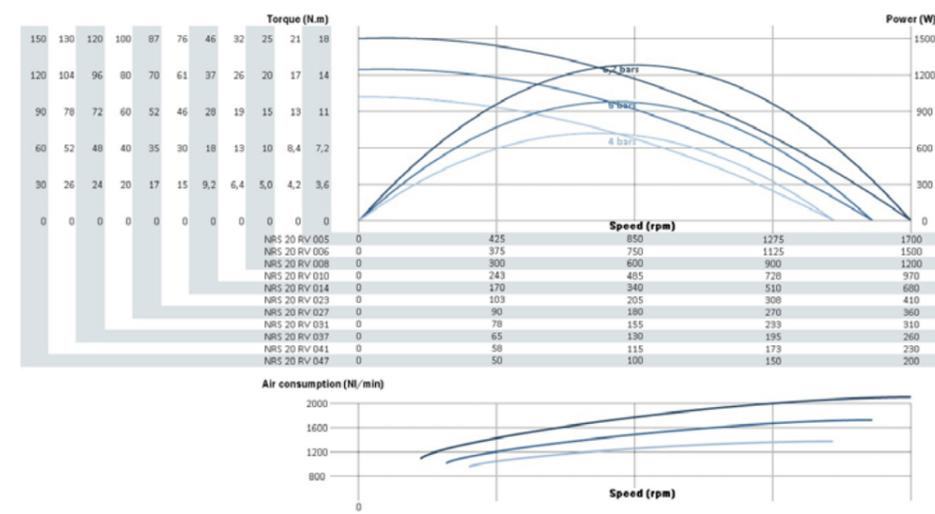
#### NRS 20 XT



### MAXIMUM RADIAL & AXIAL LOAD



#### NRS 20 RV



### NOTES







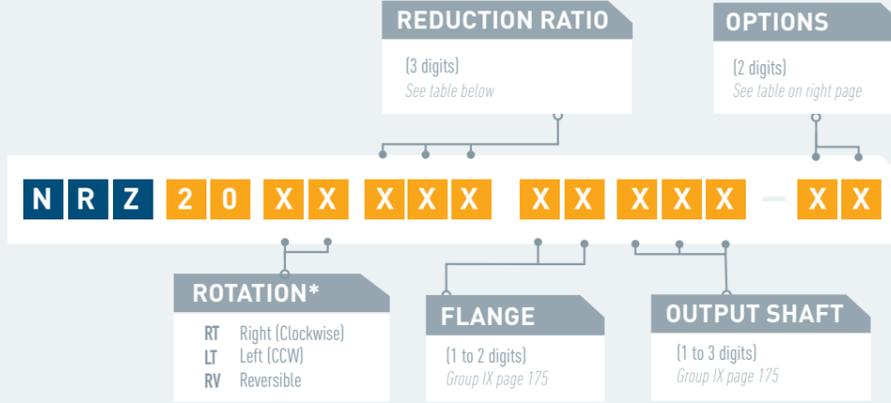
# MOTORS NRZ 20

## POWER 1400-1500 W



NRZ 20 XT

NRZ 20 RV



\* rotation direction is defined when looking from the back of the motor

| PERFORMANCES  | NRZ 20 XT           |                 |                     |             |      |              |             |                 |               |                   | Dimensions |        |             |
|---------------|---------------------|-----------------|---------------------|-------------|------|--------------|-------------|-----------------|---------------|-------------------|------------|--------|-------------|
|               | Air motor reference | Reduction ratio | Air supply pressure | Speed (rpm) |      | Torque (N.m) |             |                 | Max Power (W) | Air cons (NI/min) | A (mm)     | Ø (mm) | Weight (kg) |
|               |                     |                 |                     | @ max Power | Free | @ max Power  | Max (stall) | Starting torque |               |                   |            |        |             |
| NRZ 20 XT 115 | 115                 | 6,2 bars        | 49                  | 99          | 298  | 625          | 550         | 1543            | 1800          | 557,3             | 88,8       | 12,0   |             |
|               |                     |                 | 46                  | 92          | 254  | 507          | 446         | 1224            | 1500          |                   |            |        |             |
|               |                     |                 | 43                  | 86          | 210  | 406          | 357         | 948             | 1200          |                   |            |        |             |
| NRZ 20 XT 154 | 154                 | 6,2 bars        | 37                  | 74          | 400  | 838          | 737         | 1543            | 1800          | 557,3             | 88,8       | 12,0   |             |
|               |                     |                 | 34                  | 69          | 340  | 680          | 598         | 1224            | 1500          |                   |            |        |             |
|               |                     |                 | 32                  | 64          | 282  | 545          | 479         | 948             | 1200          |                   |            |        |             |

| PERFORMANCES  | NRZ 20 RV           |                 |                     |             |      |              |             |                 |               |                   | Dimensions |        |             |
|---------------|---------------------|-----------------|---------------------|-------------|------|--------------|-------------|-----------------|---------------|-------------------|------------|--------|-------------|
|               | Air motor reference | Reduction ratio | Air supply pressure | Speed (rpm) |      | Torque (N.m) |             |                 | Max Power (W) | Air cons (NI/min) | A (mm)     | Ø (mm) | Weight (kg) |
|               |                     |                 |                     | @ max Power | Free | @ max Power  | Max (stall) | Starting torque |               |                   |            |        |             |
| NRZ 20 RV 115 | 115                 | 6,2 bars        | 41                  | 82          | 324  | 443          | 390         | 1393            | 1800          | 578,8             | 88,8       | 12,7   |             |
|               |                     |                 | 38                  | 76          | 267  | 369          | 325         | 1062            | 1500          |                   |            |        |             |
|               |                     |                 | 35                  | 70          | 211  | 297          | 262         | 773             | 1200          |                   |            |        |             |
| NRZ 20 RV 154 | 154                 | 6,2 bars        | 31                  | 61          | 434  | 594          | 523         | 1393            | 1800          | 578,8             | 88,8       | 12,7   |             |
|               |                     |                 | 28                  | 57          | 358  | 495          | 436         | 1062            | 1500          |                   |            |        |             |
|               |                     |                 | 26                  | 52          | 283  | 399          | 351         | 773             | 1200          |                   |            |        |             |
| NRZ 20 RV 171 | 171                 | 6,2 bars        | 28                  | 55          | 482  | 660          | 580         | 1393            | 1800          | 578,8             | 88,8       | 12,7   |             |
|               |                     |                 | 26                  | 51          | 397  | 550          | 484         | 1062            | 1500          |                   |            |        |             |
|               |                     |                 | 24                  | 47          | 314  | 443          | 390         | 773             | 1200          |                   |            |        |             |
| NRZ 20 RV 227 | 227                 | 6,2 bars        | 21                  | 42          | 640  | 875          | 770         | 1393            | 1800          | 578,8             | 88,8       | 12,7   |             |
|               |                     |                 | 19                  | 39          | 527  | 730          | 642         | 1062            | 1500          |                   |            |        |             |
|               |                     |                 | 18                  | 35          | 416  | 587          | 517         | 773             | 1200          |                   |            |        |             |

Data indicated in this table have an accuracy of +/- 5%

For connection and lubrication, see page 101

### OPTIONS AVAILABLE FOR THE NRZ 20 XT

|                    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|--------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Collected exhaust  | 00 | 01 | 02 | 04 | 05 | 06 | 07 | 09 | 10 | 13 | 14 | 15 | 18 | 19 | 21 | 22 | 31 | 32 |
| ATEX certification |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Lubrication free   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Kit start          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Speed control      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

### OPTIONS AVAILABLE FOR THE NRZ 20 RV

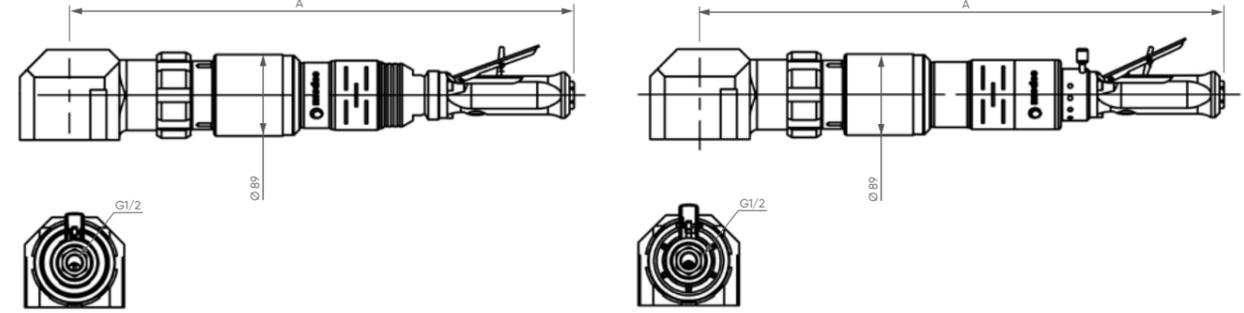
|                    |    |    |    |    |    |    |
|--------------------|----|----|----|----|----|----|
| ATEX certification | 03 | 12 | 16 | 17 | 29 | 30 |
| Left/Right switch  |    |    |    |    |    |    |
| Lubrication free   |    |    |    |    |    |    |
| Kit start          |    |    |    |    |    |    |
| Code               |    |    |    |    |    |    |

+ List of available accessories for this motor page 101

### LAYOUT

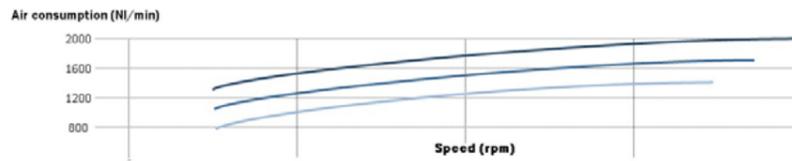
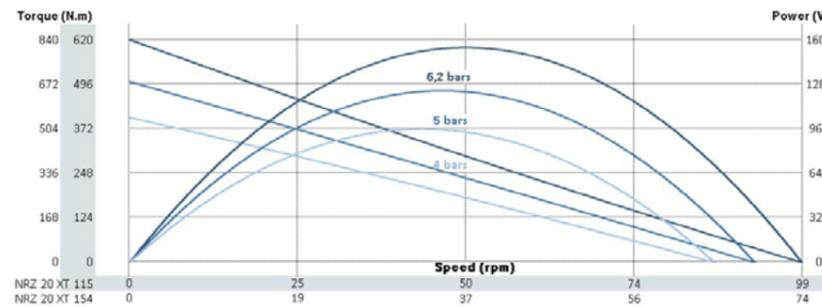
NRZ 20 XT

NRZ 20 RV

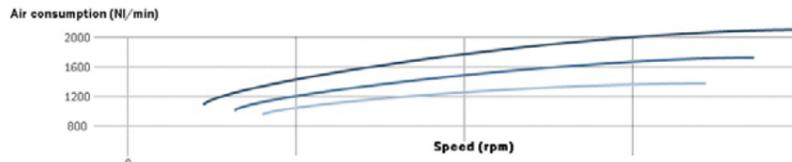
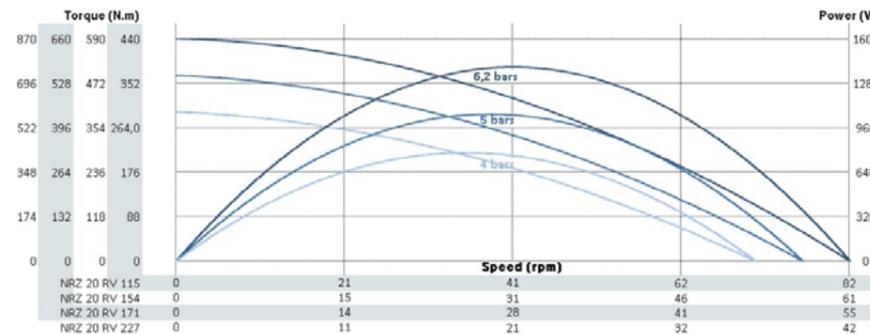


### POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS

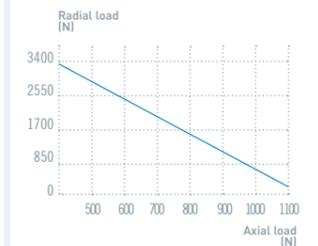
NRZ 20 XT



NRZ 20 RV



### MAXIMUM RADIAL & AXIAL LOAD



for 100 millions revolutions (load applied @ half shaft length)

### NOTES

Notes section with horizontal lines for text entry.



MAX POWER  
**2700 W**  
MAX TORQUE  
**920 Nm**

Frequently used in **bolting applications with high torques**, the "25" series air motors are **often equipped with an angle drive head and a high flow control handle** to ensure they have the necessary power.

The "25" series air motors can be found on **lifting applications** with torques approaching 1000 Nm. or on **cutting applications** with speeds above 11000 rpm.

Their high power (2700W) does not prevent them from being **compact and light** (3 to 12 kg. depending on the chosen configuration) and very versatile.

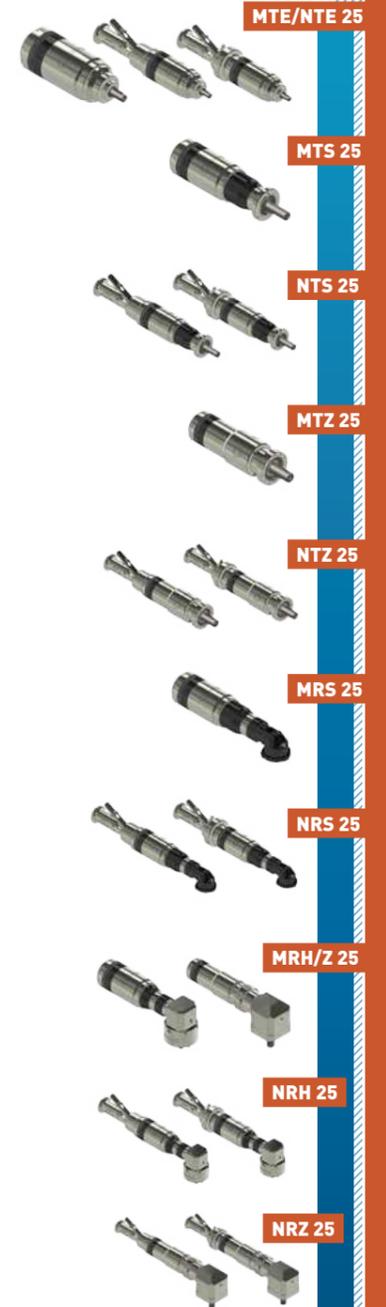
| + | ACCESSORIES FOR THIS MOTOR                                 | Reference | Information |
|---|--|-----------|-------------|
|   | Filtration, pressure Regulation and Lubrication unit (FRL) | AC108     | Page 177    |
|   | Safety Air Treatment Box (SAT Box)                         | AC126     | Page 178    |
|   | With Pedal remote control                                  | AC127     | Page 178    |
|   | With handle remote control                                 | AC128     | Page 178    |
|   | With remote emergency kill switch                          | AC129     | Page 178    |
|   | With remote E-Stop and pedal remote control                | AC130     | Page 178    |
|   | With remote E-Stop and handle remote control               | AC131     | Page 178    |
|   | Maintenance kits   |           |             |
|   | Maintenance kit for "25" series                            | AC305     | Page 181    |
|   | Maintenance kit for lube free "25" series                  | AC315     | Page 181    |
|   | Maintenance kit for kit start "25" series                  | AC325     | Page 181    |
|   | Exhaust collector kit for "25" series                      | AC342     | Page 181    |
|   | modec Oil Co-16  | AC149     | Page 178    |
|   | Control handles  |           |             |
|   | Safety control handle for non reversible "25" series       | AC412     | Page 179    |
|   | Safety control handle for reversible "25" series           | AC414     | Page 179    |
|   | Progressive control handle for non reversible "25" series  | AC407     | Page 179    |
|   | Progressive control handle for reversible "25" series      | AC410     | Page 179    |
|   | Filters et silencers                                       |           |             |
|   | Metallic standard exhaust silencer                         | AC182     | Page 179    |
|   | Metallic standard inlet silencer                           | AC181     | Page 179    |
|   | Plastic standard exhaust silencer                          | AC153     | Page 180    |
|   | Plastic standard inlet silencer                            | AC183     | Page 180    |
|   | Heavy duty exhaust silencer                                | AC157     | Page 180    |
|   | Heavy duty inlet silencer                                  | AC155     | Page 180    |
|   | High flow air muffler                                      | AC160     | Page 181    |
|   | Exhaust silencer filter                                    | AC185     | Page 180    |
|   | Speed control muffler                                      | AC174     | Page 180    |

**CONNECTION AND LUBRICATION**

| Ø | Min. fittings Ø |                | Min. pipe Ø    |                | Lubrication (6,2 bars) |
|---|-----------------|----------------|----------------|----------------|------------------------|
|   | In              | Out            | In             | Out            |                        |
|   | 10 mm / 0,4 In  | 16 mm / 0,6 In | 13 mm / 0,5 In | 20 mm / 0,8 In | 10 drops / minute      |

**CONVERSION TABLE**

|                             |   |                   |
|-----------------------------|---|-------------------|
| Watt ► Horse power          | Newton meter ► Pound feet                             | Millimeter ► Inch |
| Watt x 0,001341 = hp        | Nm x 0,7376 = lb.ft                                   | mm x 0,03937 = in |
| Bar ► Pound per square Inch | Normo Liter / minute ► Standard cubic feet per minute | Kilogram ► Pound  |
| Bar x 14,5 = psi            | NL / min x 0,03531 = scfm                             | Kg x 2,205 = lb   |



# MOTORS MTE 25 / NTE 25

## POWER 2400-2700 W

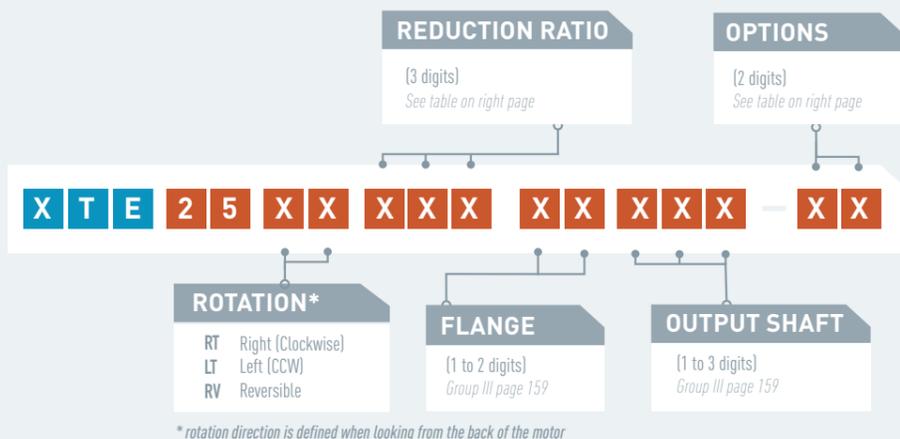
MTE 25



NTE 25 XT

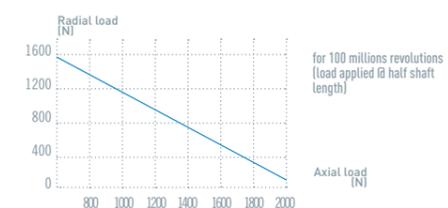


NTE 25 RV



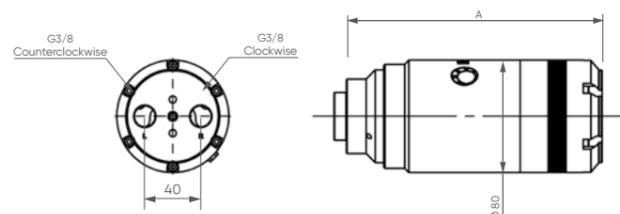
\* rotation direction is defined when looking from the back of the motor

### MAXIMUM RADIAL & AXIAL LOAD

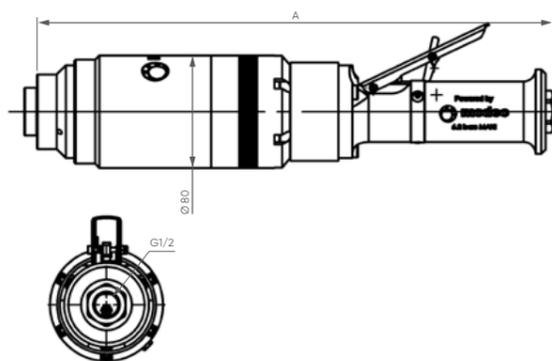


### LAYOUT

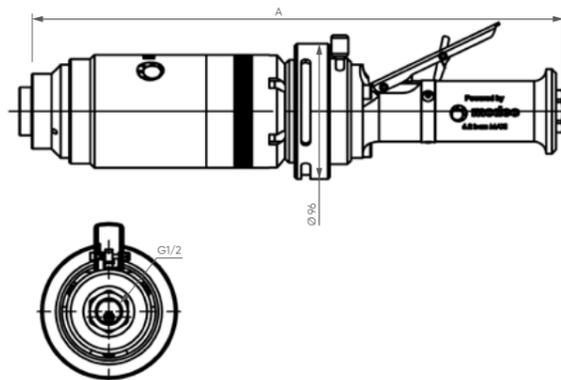
MTE 25



NTE 25 XT



NTE 25 RV



| PERFORMANCES  | MTE / NTE 25        |                 | Air supply pressure | Speed (rpm) |        | Torque (N.m) |             |                 | Max Power (W) | Air cons (NI/min) | Dimensions |        |             |
|---------------|---------------------|-----------------|---------------------|-------------|--------|--------------|-------------|-----------------|---------------|-------------------|------------|--------|-------------|
|               | Air motor reference | Reduction ratio |                     | @ max Power | Free   | @ max Power  | Max (stall) | Starting torque |               |                   | A (mm)     | Ø (mm) | Weight (kg) |
|               |                     |                 |                     | 6,2 bars    | 5 bars | 4 bars       | 6,2 bars    | 5 bars          |               |                   |            |        |             |
| MTE 25 XT 001 | 001                 | 6,2 bars        | 5700                | 11400       | 4,5    | 7,5          | 6,6         | 2700            | 2800          | 182,6             | 80         | 3,0    |             |
|               |                     | 5 bars          | 5300                | 10600       | 3,8    | 6,2          | 5,5         | 2100            | 2300          |                   |            |        |             |
|               |                     | 4 bars          | 4900                | 9800        | 3,2    | 4,9          | 4,3         | 1650            | 1800          |                   |            |        |             |
| MTE 25 RV 001 | 001                 | 6,2 bars        | 5100                | 10200       | 4,4    | 6,8          | 6,0         | 2400            | 2700          | 182,6             | 80         | 3,0    |             |
|               |                     | 5 bars          | 4800                | 9600        | 3,8    | 5,6          | 5,0         | 1900            | 2200          |                   |            |        |             |
|               |                     | 4 bars          | 4400                | 8800        | 3,2    | 4,6          | 4,0         | 1500            | 1700          |                   |            |        |             |
| NTE 25 XT 001 | 001                 | 6,2 bars        | 5700                | 11400       | 4,5    | 7,5          | 6,6         | 2700            | 2800          | 367,1             | 80         | 4,0    |             |
|               |                     | 5 bars          | 5300                | 10600       | 3,8    | 6,2          | 5,5         | 2100            | 2300          |                   |            |        |             |
|               |                     | 4 bars          | 4900                | 9800        | 3,2    | 4,9          | 4,3         | 1650            | 1800          |                   |            |        |             |
| NTE 25 RV 001 | 001                 | 6,2 bars        | 5100                | 10200       | 4,4    | 6,8          | 6,0         | 2400            | 2700          | 378,1             | 80         | 4,4    |             |
|               |                     | 5 bars          | 4800                | 9600        | 3,8    | 5,6          | 5,0         | 1900            | 2200          |                   |            |        |             |
|               |                     | 4 bars          | 4400                | 8800        | 3,2    | 4,6          | 4,0         | 1500            | 1700          |                   |            |        |             |

For connection and lubrication, see page 125

Data indicated in this table have an accuracy of +/- 5%

### OPTIONS AVAILABLE FOR THE MTE 25

| Code               | 00 | 01 | 02 | 03 | 04 | 05 | 07 | 09 | 10 | 11 | 12 | 13 | 14 | 16 | 17 | 21 | 22 | 23 | 27 | 28 | 29 | 30 | 36 | 37 |
|--------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Collected exhaust  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| ATEX certification |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Left/Right switch* |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Lubrication free   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Kit start          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Inox               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

\* Reversible motors only \*\* Non reversible motors only

### OPTIONS AVAILABLE FOR THE NTE 25 XT

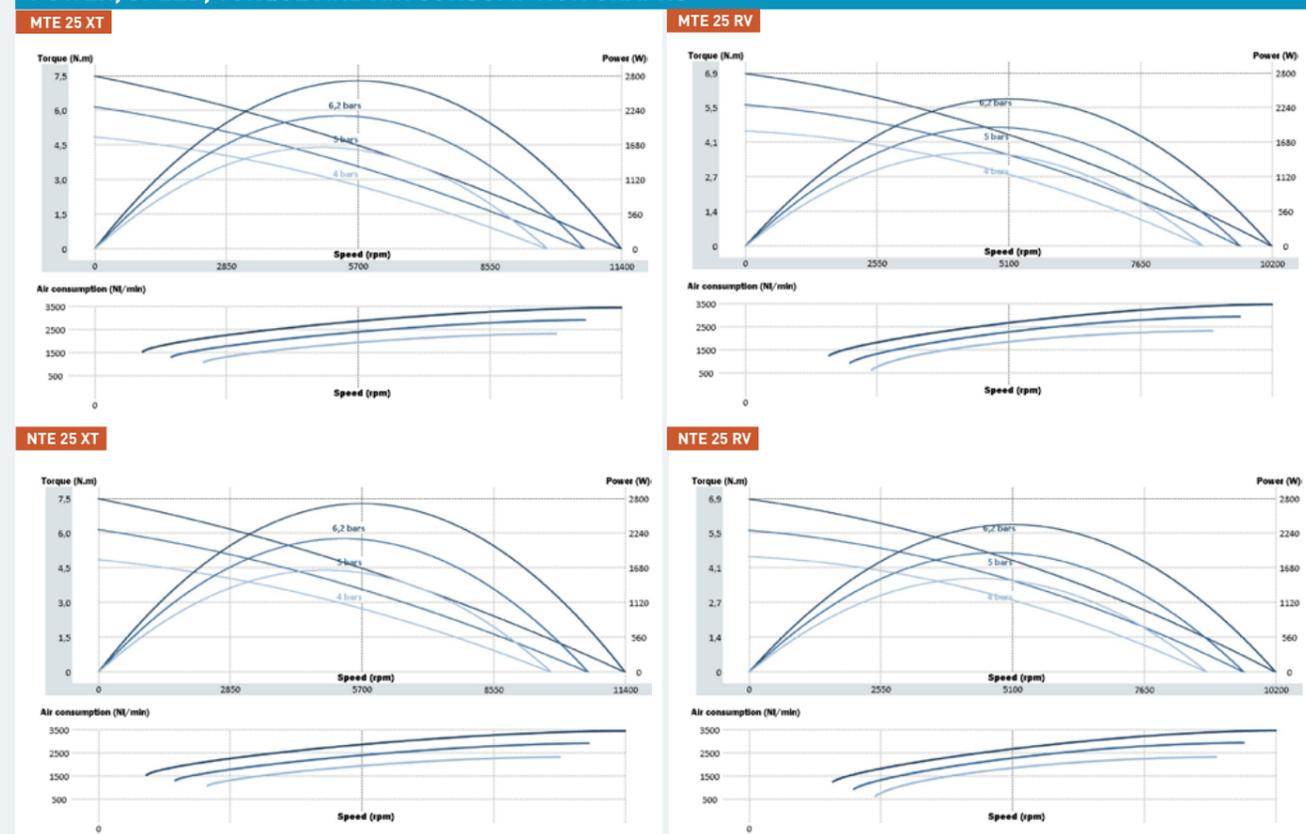
| Code               | 00 | 01 | 02 | 04 | 05 | 07 | 09 | 10 | 13 | 14 | 21 | 22 |  |
|--------------------|----|----|----|----|----|----|----|----|----|----|----|----|--|
| Collected exhaust  |    |    |    |    |    |    |    |    |    |    |    |    |  |
| ATEX certification |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Lubrication free   |    |    |    |    |    |    |    |    |    |    |    |    |  |
| Kit start          |    |    |    |    |    |    |    |    |    |    |    |    |  |

### OPTIONS AVAILABLE FOR THE NTE 25 RV

| Code               | 03 | 12 | 16 | 17 | 29 | 30 |
|--------------------|----|----|----|----|----|----|
| ATEX certification |    |    |    |    |    |    |
| Left/Right switch  |    |    |    |    |    |    |
| Lubrication free   |    |    |    |    |    |    |
| Kit start          |    |    |    |    |    |    |

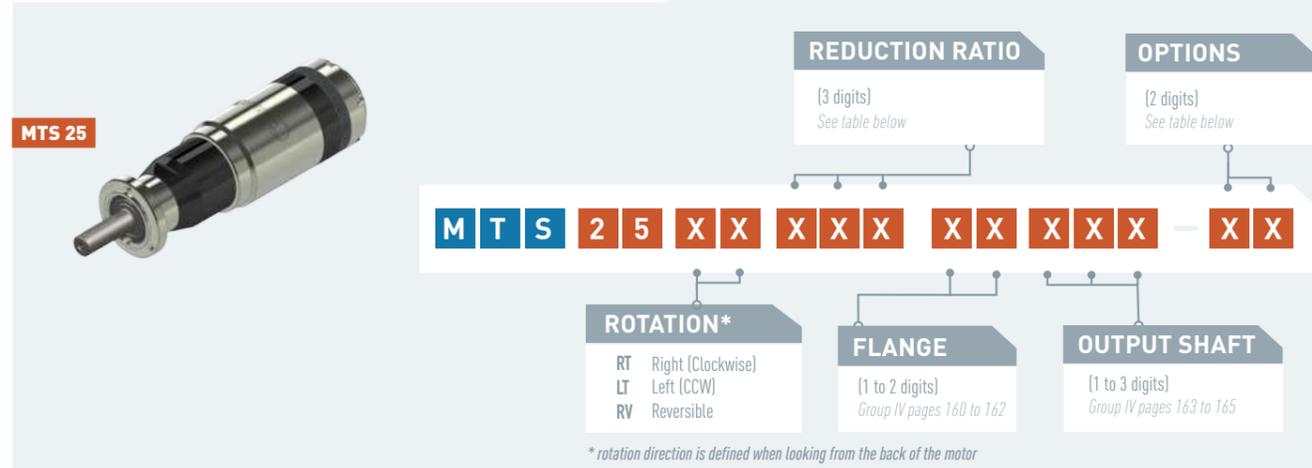
List of available accessories for this motor page 125

### POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS



# MOTORS MTS 25

## POWER 2400-2700 W



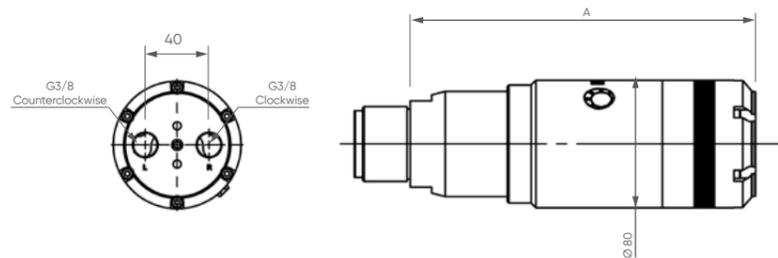
| PERFORMANCES  | MTS 25 XT           |          | Reduction ratio | Air supply pressure | Speed (rpm) |      | Torque (N.m) |             |                 | Max Power (W) | Air cons (NI/min) | Dimensions |        |             |
|---------------|---------------------|----------|-----------------|---------------------|-------------|------|--------------|-------------|-----------------|---------------|-------------------|------------|--------|-------------|
|               | Air motor reference |          |                 |                     | @ max Power | Free | @ max Power  | Max (stall) | Starting torque |               |                   | A (mm)     | Ø (mm) | Weight (kg) |
| MTS 25 XT 004 | 4                   | 6,2 bars | 1380            | 2759                | 19          | 31   | 28           | 2722        | 2800            | 185           | 80                | 3,6        |        |             |
|               |                     | 5 bars   | 1280            | 2561                | 16          | 26   | 23           | 2129        | 2300            |               |                   |            |        |             |
|               |                     | 4 bars   | 1185            | 2371                | 13          | 20   | 18           | 1644        | 1800            |               |                   |            |        |             |
| MTS 25 XT 005 | 5                   | 6,2 bars | 1199            | 2397                | 22          | 36   | 32           | 2722        | 2800            | 185           | 80                | 3,6        |        |             |
|               |                     | 5 bars   | 1112            | 2225                | 18          | 30   | 26           | 2129        | 2300            |               |                   |            |        |             |
|               |                     | 4 bars   | 1030            | 2060                | 15          | 24   | 21           | 1644        | 1800            |               |                   |            |        |             |
| MTS 25 XT 006 | 6                   | 6,2 bars | 1001            | 2001                | 26          | 43   | 38           | 2722        | 2800            | 185           | 80                | 3,6        |        |             |
|               |                     | 5 bars   | 929             | 1857                | 22          | 36   | 31           | 2129        | 2300            |               |                   |            |        |             |
|               |                     | 4 bars   | 860             | 1719                | 18          | 28   | 25           | 1644        | 1800            |               |                   |            |        |             |
| MTS 25 XT 007 | 7                   | 6,2 bars | 785             | 1570                | 33          | 55   | 49           | 2722        | 2800            | 185           | 80                | 3,6        |        |             |
|               |                     | 5 bars   | 728             | 1457                | 28          | 45   | 40           | 2129        | 2300            |               |                   |            |        |             |
|               |                     | 4 bars   | 674             | 1349                | 23          | 36   | 32           | 1644        | 1800            |               |                   |            |        |             |
| MTS 25 XT 011 | 11                  | 6,2 bars | 548             | 1096                | 47          | 79   | 70           | 2722        | 2800            | 185           | 80                | 3,6        |        |             |
|               |                     | 5 bars   | 509             | 1017                | 40          | 65   | 57           | 2129        | 2300            |               |                   |            |        |             |
|               |                     | 4 bars   | 471             | 941                 | 33          | 51   | 45           | 1644        | 1800            |               |                   |            |        |             |
| MTS 25 XT 017 | 17                  | 6,2 bars | 331             | 662                 | 79          | 131  | 115          | 2722        | 2800            | 217           | 80                | 4,1        |        |             |
|               |                     | 5 bars   | 307             | 614                 | 66          | 108  | 95           | 2129        | 2300            |               |                   |            |        |             |
|               |                     | 4 bars   | 284             | 569                 | 55          | 85   | 75           | 1644        | 1800            |               |                   |            |        |             |
| MTS 25 XT 023 | 23                  | 6,2 bars | 250             | 499                 | 104         | 174  | 153          | 2722        | 2800            | 217           | 80                | 4,1        |        |             |
|               |                     | 5 bars   | 232             | 464                 | 88          | 143  | 126          | 2129        | 2300            |               |                   |            |        |             |
|               |                     | 4 bars   | 215             | 429                 | 73          | 113  | 99           | 1644        | 1800            |               |                   |            |        |             |
| MTS 25 XT 031 | 31                  | 6,2 bars | 188             | 376                 | 138         | 230  | 203          | 2722        | 2800            | 217           | 80                | 4,1        |        |             |
|               |                     | 5 bars   | 175             | 349                 | 116         | 190  | 167          | 2129        | 2300            |               |                   |            |        |             |
|               |                     | 4 bars   | 162             | 323                 | 97          | 150  | 132          | 1644        | 1800            |               |                   |            |        |             |
| MTS 25 XT 035 | 35                  | 6,2 bars | 164             | 327                 | 159         | 265  | 233          | 2722        | 2800            | 217           | 80                | 4,1        |        |             |
|               |                     | 5 bars   | 152             | 304                 | 134         | 218  | 192          | 2129        | 2300            |               |                   |            |        |             |
|               |                     | 4 bars   | 140             | 281                 | 112         | 172  | 152          | 1644        | 1800            |               |                   |            |        |             |

For connection and lubrication, see page 125

Data indicated in this table have an accuracy of +/- 5%

### LAYOUT

#### MTS 25



### OPTIONS AVAILABLE FOR THIS MOTOR

| Code               | 00 | 01 | 02 | 03 | 04 | 05 | 07 | 09 | 10 | 12 | 13 | 14 | 16 | 17 | 21 | 22 | 29 | 30 |
|--------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Collected exhaust  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| ATEX certification |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Left/Right switch* |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Lubrication free   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Kit start          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

+ List of available accessories for this motor page 125

\* Reversible motors only

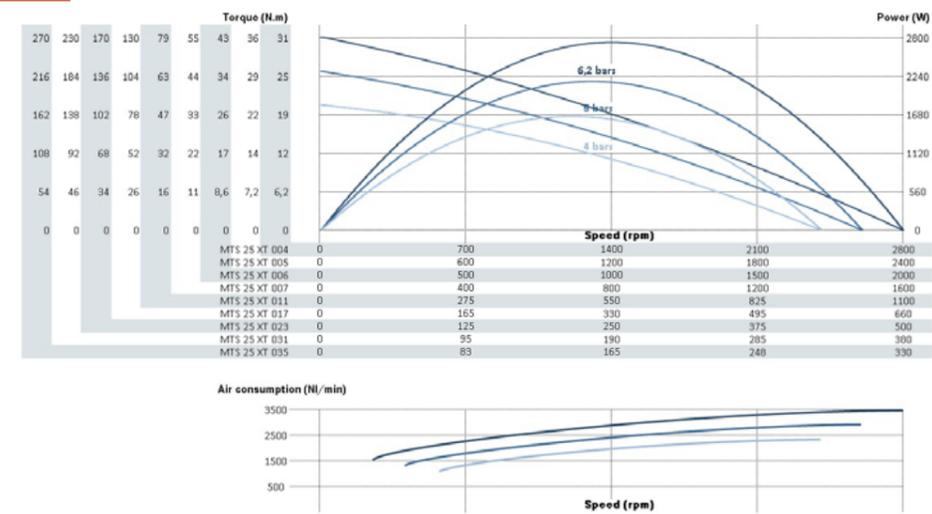
| PERFORMANCES  | MTS 25 RV           |          | Reduction ratio | Air supply pressure | Speed (rpm) |      | Torque (N.m) |             |                 | Max Power (W) | Air cons (NI/min) | Dimensions |        |             |
|---------------|---------------------|----------|-----------------|---------------------|-------------|------|--------------|-------------|-----------------|---------------|-------------------|------------|--------|-------------|
|               | Air motor reference |          |                 |                     | @ max Power | Free | @ max Power  | Max (stall) | Starting torque |               |                   | A (mm)     | Ø (mm) | Weight (kg) |
| MTS 25 RV 004 | 4                   | 6,2 bars | 1232            | 2464                | 18          | 29   | 25           | 2385        | 2700            | 185           | 80                | 3,6        |        |             |
|               |                     | 5 bars   | 1152            | 2303                | 16          | 23   | 21           | 1915        | 2200            |               |                   |            |        |             |
|               |                     | 4 bars   | 1067            | 2135                | 13          | 19   | 17           | 1497        | 1700            |               |                   |            |        |             |
| MTS 25 RV 005 | 5                   | 6,2 bars | 1070            | 2140                | 21          | 33   | 29           | 2385        | 2700            | 185           | 80                | 3,6        |        |             |
|               |                     | 5 bars   | 1001            | 2001                | 18          | 27   | 24           | 1915        | 2200            |               |                   |            |        |             |
|               |                     | 4 bars   | 927             | 1854                | 15          | 22   | 19           | 1497        | 1700            |               |                   |            |        |             |
| MTS 25 RV 006 | 6                   | 6,2 bars | 893             | 1787                | 25          | 39   | 35           | 2385        | 2700            | 185           | 80                | 3,6        |        |             |
|               |                     | 5 bars   | 835             | 1670                | 22          | 32   | 28           | 1915        | 2200            |               |                   |            |        |             |
|               |                     | 4 bars   | 774             | 1548                | 18          | 26   | 23           | 1497        | 1700            |               |                   |            |        |             |
| MTS 25 RV 007 | 7                   | 6,2 bars | 701             | 1402                | 33          | 50   | 44           | 2385        | 2700            | 185           | 80                | 3,6        |        |             |
|               |                     | 5 bars   | 655             | 1310                | 28          | 41   | 36           | 1915        | 2200            |               |                   |            |        |             |
|               |                     | 4 bars   | 607             | 1214                | 24          | 34   | 30           | 1497        | 1700            |               |                   |            |        |             |
| MTS 25 RV 011 | 11                  | 6,2 bars | 489             | 978                 | 47          | 72   | 63           | 2385        | 2700            | 185           | 80                | 3,6        |        |             |
|               |                     | 5 bars   | 457             | 915                 | 40          | 59   | 52           | 1915        | 2200            |               |                   |            |        |             |
|               |                     | 4 bars   | 424             | 848                 | 34          | 48   | 42           | 1497        | 1700            |               |                   |            |        |             |
| MTS 25 RV 017 | 17                  | 6,2 bars | 295             | 591                 | 77          | 119  | 105          | 2385        | 2700            | 217           | 80                | 4,1        |        |             |
|               |                     | 5 bars   | 276             | 552                 | 66          | 98   | 86           | 1915        | 2200            |               |                   |            |        |             |
|               |                     | 4 bars   | 256             | 512                 | 56          | 80   | 70           | 1497        | 1700            |               |                   |            |        |             |
| MTS 25 RV 023 | 23                  | 6,2 bars | 223             | 446                 | 102         | 158  | 139          | 2385        | 2700            | 217           | 80                | 4,1        |        |             |
|               |                     | 5 bars   | 208             | 417                 | 88          | 130  | 114          | 1915        | 2200            |               |                   |            |        |             |
|               |                     | 4 bars   | 193             | 386                 | 74          | 105  | 93           | 1497        | 1700            |               |                   |            |        |             |
| MTS 25 RV 031 | 31                  | 6,2 bars | 168             | 336                 | 136         | 209  | 184          | 2385        | 2700            | 217           | 80                | 4,1        |        |             |
|               |                     | 5 bars   | 157             | 314                 | 116         | 172  | 151          | 1915        | 2200            |               |                   |            |        |             |
|               |                     | 4 bars   | 146             | 291                 | 98          | 140  | 123          | 1497        | 1700            |               |                   |            |        |             |
| MTS 25 RV 035 | 35                  | 6,2 bars | 146             | 292                 | 156         | 241  | 212          | 2352        | 2700            | 217           | 80                | 4,1        |        |             |
|               |                     | 5 bars   | 137             | 273                 | 134         | 198  | 174          | 1810        | 2200            |               |                   |            |        |             |
|               |                     | 4 bars   | 127             | 253                 | 113         | 161  | 142          | 1396        | 1700            |               |                   |            |        |             |
| MTS 25 RV 042 | 42                  | 6,2 bars | 122             | 244                 | 187         | 289  | 254          | 2385        | 2700            | 217           | 80                | 4,1        |        |             |
|               |                     | 5 bars   | 114             | 228                 | 161         | 237  | 209          | 1915        | 2200            |               |                   |            |        |             |
|               |                     | 4 bars   | 106             | 211                 | 135         | 193  | 170          | 1497        | 1700            |               |                   |            |        |             |

For connection and lubrication, see page 125

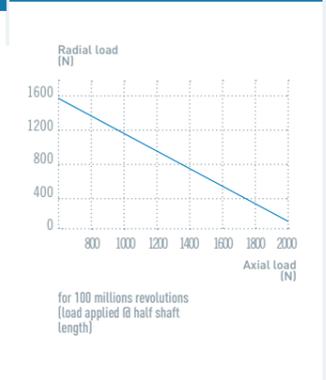
Data indicated in this table have an accuracy of +/- 5%

### POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS

#### MTS 25 XT

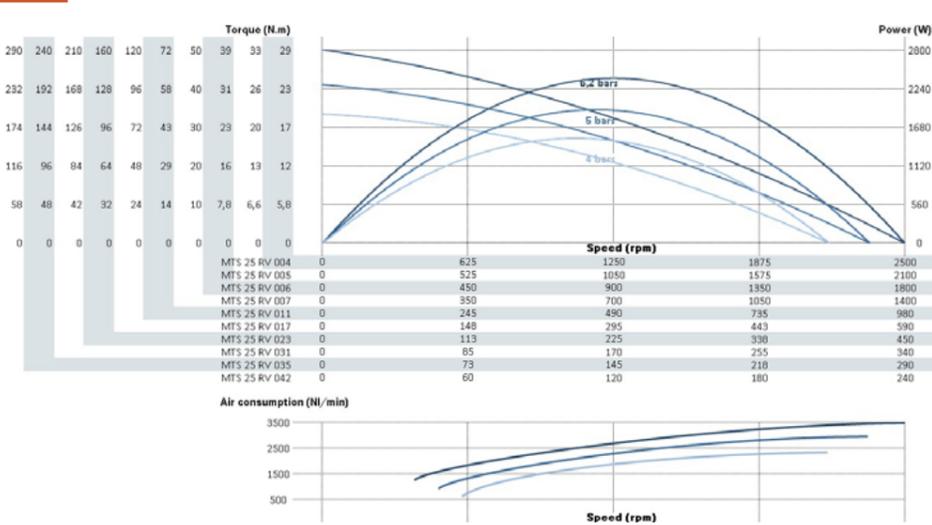


### MAXIMUM RADIAL & AXIAL LOAD



### NOTES

#### MTS 25 RV

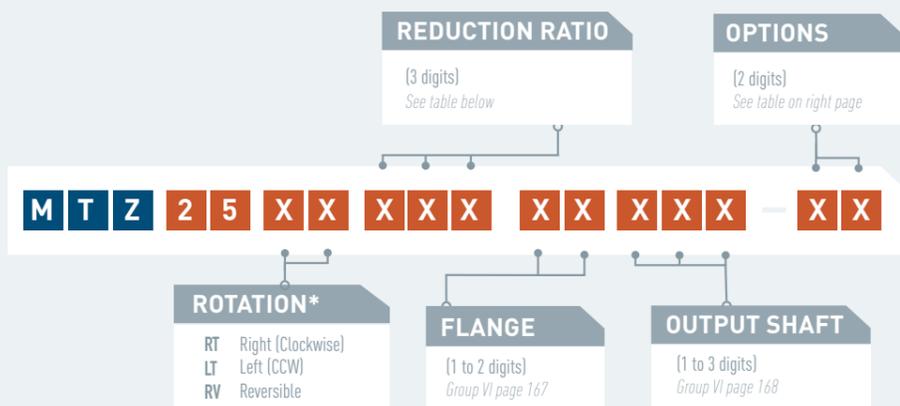




# MOTORS MTZ 25

## POWER 2400-2700 W

MTZ 25



\* rotation direction is defined when looking from the back of the motor

PERFORMANCES

| MTZ 25 XT           |             | Reduction ratio | Air supply pressure | Speed (rpm) |             | Torque (N.m) |                 |        | Max Power (W) | Air cons (Nl/min) | Dimensions |             |  |
|---------------------|-------------|-----------------|---------------------|-------------|-------------|--------------|-----------------|--------|---------------|-------------------|------------|-------------|--|
| Air motor reference | @ max Power |                 |                     | Free        | @ max Power | Max (stall)  | Starting torque | A (mm) |               |                   | Ø (mm)     | Weight (kg) |  |
| MTZ 25 XT 054       | 54          | 6,2 bars        | 104                 | 208         | 249         | 399          | 351             | 2715   | 2800          | 136,1             | 88,8       | 6,1         |  |
|                     | 5 bars      | 98              | 195                 | 206         | 328         | 289          | 2105            | 2300   |               |                   |            |             |  |
|                     | 4 bars      | 91              | 181                 | 170         | 260         | 228          | 1614            | 1800   |               |                   |            |             |  |
| MTZ 25 XT 077       | 77          | 6,2 bars        | 73                  | 145         | 357         | 571          | 502             | 2715   | 2800          | 136,1             | 88,8       | 6,1         |  |
|                     | 5 bars      | 68              | 136                 | 295         | 470         | 414          | 2105            | 2300   |               |                   |            |             |  |
|                     | 4 bars      | 63              | 127                 | 244         | 372         | 327          | 1614            | 1800   |               |                   |            |             |  |

| MTZ 25 RV           |             | Reduction ratio | Air supply pressure | Speed (rpm) |             | Torque (N.m) |                 |        | Max Power (W) | Air cons (Nl/min) | Dimensions |             |  |
|---------------------|-------------|-----------------|---------------------|-------------|-------------|--------------|-----------------|--------|---------------|-------------------|------------|-------------|--|
| Air motor reference | @ max Power |                 |                     | Free        | @ max Power | Max (stall)  | Starting torque | A (mm) |               |                   | Ø (mm)     | Weight (kg) |  |
| MTZ 25 RV 054       | 54          | 6,2 bars        | 95                  | 189         | 242         | 372          | 327             | 2395   | 2700          | 136,1             | 88,8       | 6,1         |  |
|                     | 5 bars      | 88              | 176                 | 207         | 306         | 269          | 1909            | 2200   |               |                   |            |             |  |
|                     | 4 bars      | 83              | 165                 | 175         | 248         | 218          | 1512            | 1700   |               |                   |            |             |  |
| MTZ 25 RV 077       | 77          | 6,2 bars        | 66                  | 132         | 347         | 533          | 469             | 2395   | 2700          | 136,1             | 88,8       | 6,1         |  |
|                     | 5 bars      | 61              | 123                 | 297         | 438         | 386          | 1909            | 2200   |               |                   |            |             |  |
|                     | 4 bars      | 58              | 115                 | 251         | 355         | 313          | 1512            | 1700   |               |                   |            |             |  |
| MTZ 25 RV 113       | 113         | 6,2 bars        | 45                  | 90          | 511         | 785          | 691             | 2395   | 2700          | 177,2             | 88,8       | 6,4         |  |
|                     | 5 bars      | 42              | 83                  | 437         | 646         | 568          | 1909            | 2200   |               |                   |            |             |  |
|                     | 4 bars      | 39              | 78                  | 369         | 523         | 461          | 1512            | 1700   |               |                   |            |             |  |

For connection and lubrication, see page 125

Data indicated in this table have an accuracy of +/- 5%

### OPTIONS AVAILABLE FOR THIS MOTOR

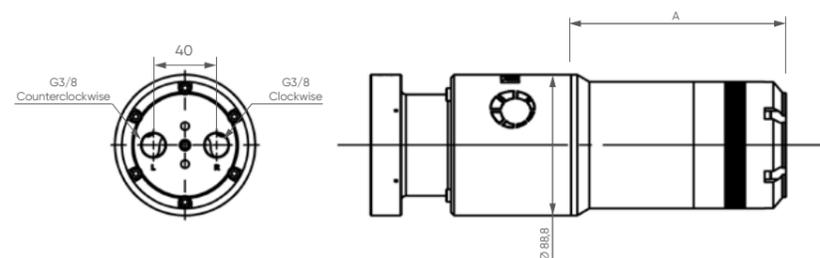
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|--------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Collected exhaust  | 00 | 01 | 02 | 03 | 04 | 05 | 07 | 09 | 10 | 11 | 12 | 13 | 14 | 16 | 17 | 21 | 22 | 23 | 27 | 28 | 29 | 30 | 36 | 37 |
| ATEX certification |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Left/Right switch* |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Lubrication free   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Kit start          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Inox               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

+ List of available accessories for this motor page 125

\* Reversible motors only

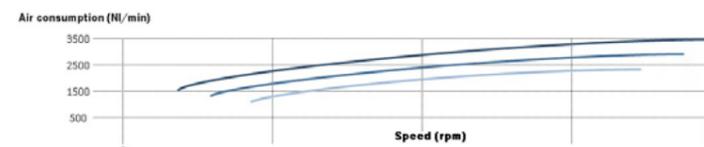
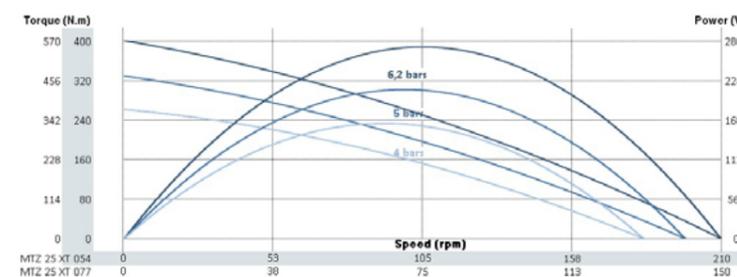
### LAYOUT

MTZ 25

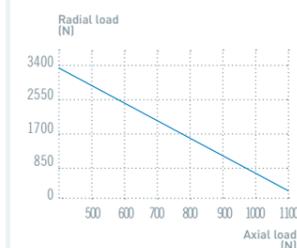


### POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS

MTZ 25 XT

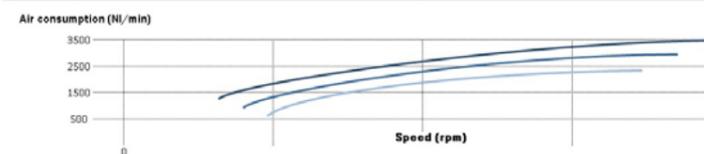
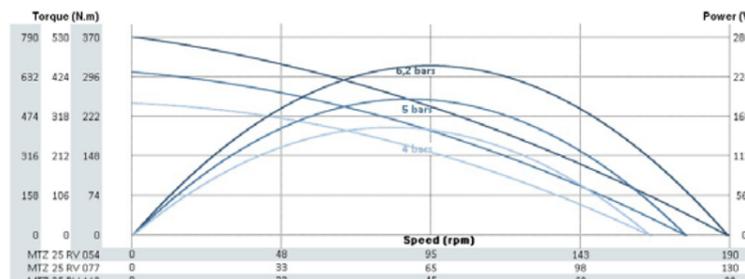


### MAXIMUM RADIAL & AXIAL LOAD



for 100 millions revolutions (Load applied @ half shaft length)

MTZ 25 RV

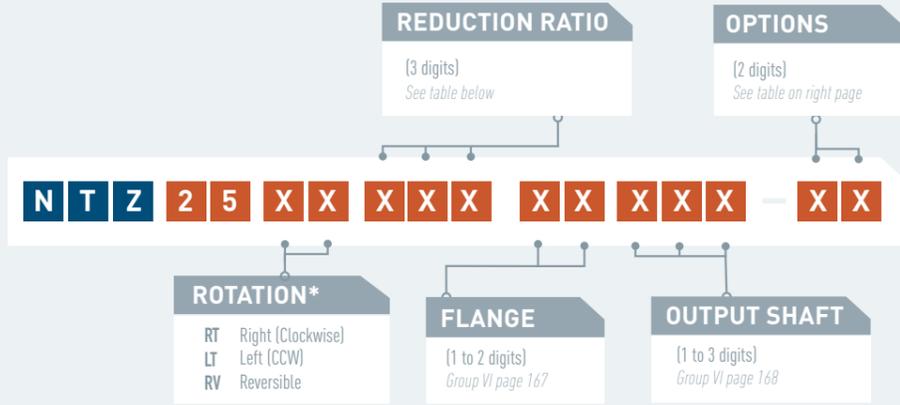


### NOTES

Notes area with horizontal lines for additional information.

# MOTORS NTZ 25

## POWER 2400-2700 W



\* rotation direction is defined when looking from the back of the motor

| PERFORMANCES | NTZ 25 XT           |                 |                     |             |      |              |             |                 |               |                   | Dimensions |        |             |
|--------------|---------------------|-----------------|---------------------|-------------|------|--------------|-------------|-----------------|---------------|-------------------|------------|--------|-------------|
|              | Air motor reference | Reduction ratio | Air supply pressure | Speed (rpm) |      | Torque (N.m) |             |                 | Max Power (W) | Air cons (NI/min) | A (mm)     | Ø (mm) | Weight (kg) |
|              |                     |                 |                     | @ max Power | Free | @ max Power  | Max (stall) | Starting torque |               |                   |            |        |             |
|              | NTZ 25 XT 054       | 54              | 6,2 bars            | 104         | 208  | 249          | 399         | 351             | 2715          | 2800              | 320,6      | 88,8   | 6,8         |
|              |                     |                 | 5 bars              | 98          | 195  | 206          | 328         | 289             | 2105          | 2300              |            |        |             |
|              |                     |                 | 4 bars              | 91          | 181  | 170          | 260         | 228             | 1614          | 1800              |            |        |             |
|              | NTZ 25 XT 077       | 77              | 6,2 bars            | 73          | 145  | 357          | 571         | 502             | 2715          | 2800              | 320,6      | 88,8   | 6,8         |
|              |                     |                 | 5 bars              | 68          | 136  | 295          | 470         | 414             | 2105          | 2300              |            |        |             |
|              |                     |                 | 4 bars              | 63          | 127  | 244          | 372         | 327             | 1614          | 1800              |            |        |             |
|              | NTZ 25 RV           |                 |                     |             |      |              |             |                 |               |                   | Dimensions |        |             |
|              | Air motor reference | Reduction ratio | Air supply pressure | Speed (rpm) |      | Torque (N.m) |             |                 | Max Power (W) | Air cons (NI/min) | A (mm)     | Ø (mm) | Weight (kg) |
|              |                     |                 |                     | @ max Power | Free | @ max Power  | Max (stall) | Starting torque |               |                   |            |        |             |
|              | NTZ 25 RV 054       | 54              | 6,2 bars            | 95          | 189  | 242          | 372         | 327             | 2395          | 2700              | 320,6      | 88,8   | 7,3         |
|              |                     |                 | 5 bars              | 88          | 176  | 207          | 306         | 269             | 1909          | 2200              |            |        |             |
|              |                     |                 | 4 bars              | 83          | 165  | 175          | 248         | 218             | 1512          | 1700              |            |        |             |
|              | NTZ 25 RV 077       | 77              | 6,2 bars            | 66          | 132  | 347          | 533         | 469             | 2395          | 2700              | 320,6      | 88,8   | 7,3         |
|              |                     |                 | 5 bars              | 61          | 123  | 297          | 438         | 386             | 1909          | 2200              |            |        |             |
|              |                     |                 | 4 bars              | 58          | 115  | 251          | 355         | 313             | 1512          | 1700              |            |        |             |
|              | NTZ 25 RV 113       | 113             | 6,2 bars            | 45          | 90   | 511          | 785         | 691             | 2395          | 2700              | 361,7      | 88,8   | 7,6         |
|              |                     |                 | 5 bars              | 42          | 83   | 437          | 646         | 568             | 1909          | 2200              |            |        |             |
|              |                     |                 | 4 bars              | 39          | 78   | 369          | 523         | 461             | 1512          | 1700              |            |        |             |

For connection and lubrication, see page 125

Data indicated in this table have an accuracy of +/- 5%

### OPTIONS AVAILABLE FOR THE NTZ 25 XT

|                    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
|--------------------|----|----|----|----|----|----|----|----|----|----|----|----|--|--|
| Collected exhaust  |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| ATEX certification |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| Lubrication free   |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| Kit start          |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| Code               | 00 | 01 | 02 | 04 | 05 | 07 | 09 | 10 | 13 | 14 | 21 | 22 |  |  |

### OPTIONS AVAILABLE FOR THE NTZ 25 RV

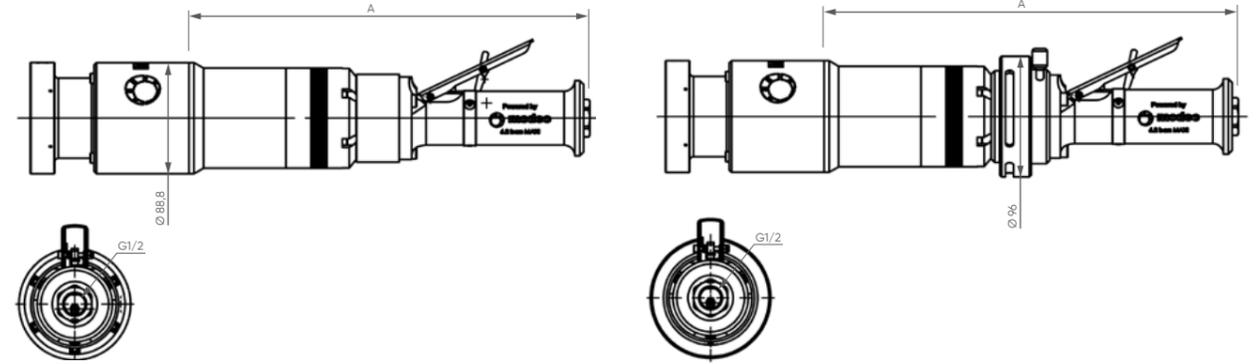
|                    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |
|--------------------|----|----|----|----|----|----|--|--|--|--|--|--|--|--|
| ATEX certification |    |    |    |    |    |    |  |  |  |  |  |  |  |  |
| Left/Right switch  |    |    |    |    |    |    |  |  |  |  |  |  |  |  |
| Lubrication free   |    |    |    |    |    |    |  |  |  |  |  |  |  |  |
| Kit start          |    |    |    |    |    |    |  |  |  |  |  |  |  |  |
| Code               | 03 | 12 | 16 | 17 | 29 | 30 |  |  |  |  |  |  |  |  |

List of available accessories for this motor page 125

### LAYOUT

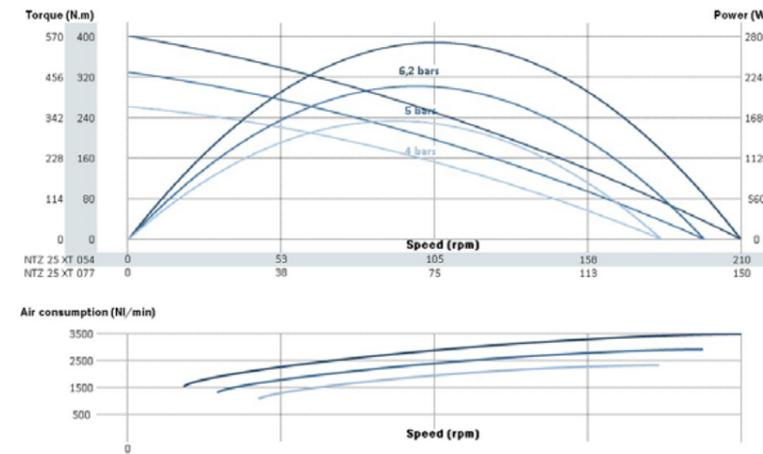
NTZ 25 XT

NTZ 25 RV

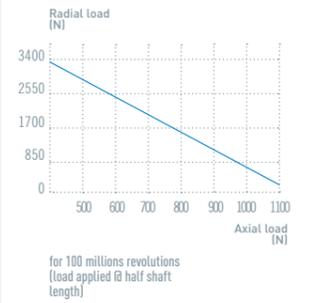


### POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS

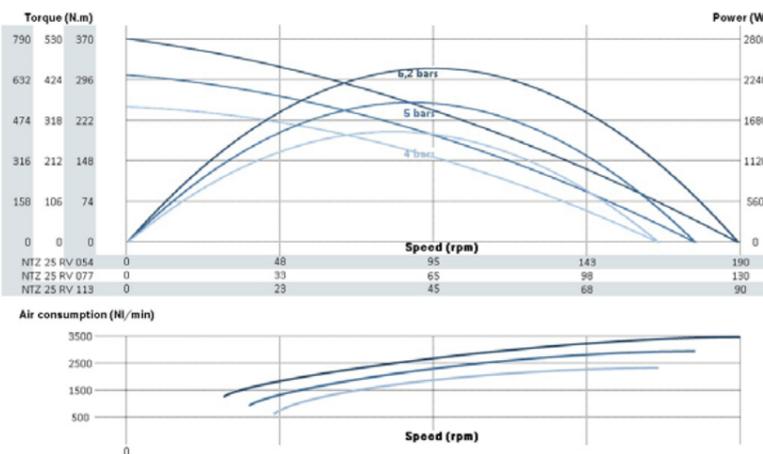
NTZ 25 XT



### MAXIMUM RADIAL & AXIAL LOAD



NTZ 25 RV

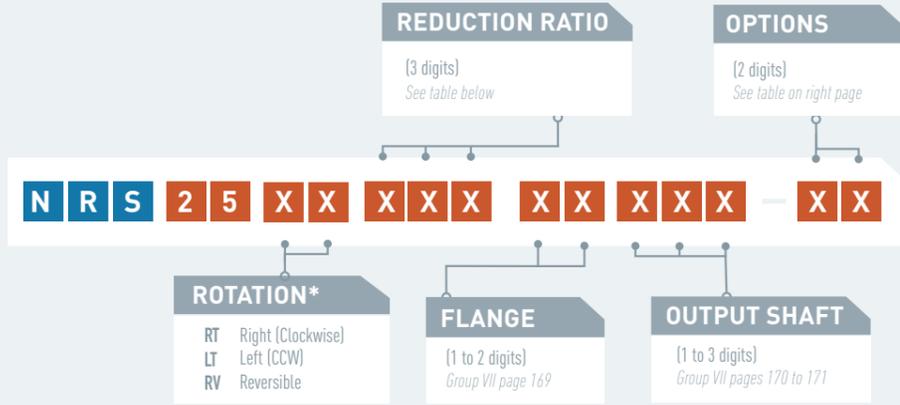


### NOTES



# MOTORS NRS 25

## POWER 2300-2700 W



\* rotation direction is defined when looking from the back of the motor

**PERFORMANCES**

| NRS 25 XT     | Air motor reference | Reduction ratio | Air supply pressure | Speed (rpm) |      | Torque (N.m) |             |                 | Max Power (W) | Air cons (Nl/min) | Dimensions |        |             |
|---------------|---------------------|-----------------|---------------------|-------------|------|--------------|-------------|-----------------|---------------|-------------------|------------|--------|-------------|
|               |                     |                 |                     | @ max Power | Free | @ max Power  | Max (stall) | Starting torque |               |                   | A (mm)     | Ø (mm) | Weight (kg) |
| NRS 25 XT 005 |                     | 5,5             | 6,2 bars            | 1030        | 2060 | 25           | 40          | 35              | 2664          | 2800              | 461,5      | 80     | 6,0         |
|               |                     |                 | 5 bars              | 953         | 1907 | 20           | 32          | 28              | 2035          | 2300              |            |        |             |
|               |                     |                 | 4 bars              | 883         | 1765 | 17           | 25          | 22              | 1549          | 1800              |            |        |             |
| NRS 25 XT 006 |                     | 6,4             | 6,2 bars            | 895         | 1790 | 28           | 46          | 40              | 2664          | 2800              | 461,5      | 80     | 6,0         |
|               |                     |                 | 5 bars              | 828         | 1657 | 23           | 37          | 33              | 2035          | 2300              |            |        |             |
|               |                     |                 | 4 bars              | 767         | 1534 | 19           | 29          | 26              | 1549          | 1800              |            |        |             |
| NRS 25 XT 008 |                     | 8               | 6,2 bars            | 747         | 1494 | 34           | 55          | 48              | 2664          | 2800              | 461,5      | 80     | 6,0         |
|               |                     |                 | 5 bars              | 691         | 1383 | 28           | 44          | 39              | 2035          | 2300              |            |        |             |
|               |                     |                 | 4 bars              | 640         | 1280 | 23           | 35          | 31              | 1549          | 1800              |            |        |             |
| NRS 25 XT 010 |                     | 10              | 6,2 bars            | 586         | 1172 | 43           | 70          | 62              | 2664          | 2800              | 461,5      | 80     | 6,0         |
|               |                     |                 | 5 bars              | 542         | 1085 | 36           | 56          | 50              | 2035          | 2300              |            |        |             |
|               |                     |                 | 4 bars              | 502         | 1004 | 29           | 45          | 39              | 1549          | 1800              |            |        |             |
| NRS 25 XT 014 |                     | 14              | 6,2 bars            | 409         | 818  | 62           | 100         | 88              | 2664          | 2800              | 461,5      | 80     | 6,0         |
|               |                     |                 | 5 bars              | 379         | 757  | 51           | 81          | 71              | 2035          | 2300              |            |        |             |
|               |                     |                 | 4 bars              | 351         | 701  | 42           | 64          | 56              | 1549          | 1800              |            |        |             |
| NRS 25 XT 023 |                     | 23              | 6,2 bars            | 247         | 494  | 103          | 166         | 146             | 2664          | 2800              | 493,5      | 80     | 6,4         |
|               |                     |                 | 5 bars              | 229         | 457  | 85           | 134         | 118             | 2035          | 2300              |            |        |             |
|               |                     |                 | 4 bars              | 212         | 423  | 70           | 106         | 93              | 1549          | 1800              |            |        |             |

| NRS 25 RV     | Air motor reference | Reduction ratio | Air supply pressure | Speed (rpm) |      | Torque (N.m) |             |                 | Max Power (W) | Air cons (Nl/min) | Dimensions |        |             |
|---------------|---------------------|-----------------|---------------------|-------------|------|--------------|-------------|-----------------|---------------|-------------------|------------|--------|-------------|
|               |                     |                 |                     | @ max Power | Free | @ max Power  | Max (stall) | Starting torque |               |                   | A (mm)     | Ø (mm) | Weight (kg) |
| NRS 25 RV 005 |                     | 5,5             | 6,2 bars            | 920         | 1841 | 23           | 33          | 29              | 2256          | 2700              | 472,5      | 80     | 6,2         |
|               |                     |                 | 5 bars              | 861         | 1721 | 19           | 28          | 24              | 1717          | 2200              |            |        |             |
|               |                     |                 | 4 bars              | 810         | 1621 | 15           | 23          | 20              | 1299          | 1700              |            |        |             |
| NRS 25 RV 006 |                     | 6,4             | 6,2 bars            | 800         | 1599 | 27           | 38          | 34              | 2256          | 2700              | 472,5      | 80     | 6,2         |
|               |                     |                 | 5 bars              | 748         | 1495 | 22           | 32          | 28              | 1717          | 2200              |            |        |             |
|               |                     |                 | 4 bars              | 704         | 1408 | 18           | 26          | 23              | 1299          | 1700              |            |        |             |
| NRS 25 RV 008 |                     | 8               | 6,2 bars            | 667         | 1335 | 32           | 46          | 40              | 2256          | 2700              | 472,5      | 80     | 6,2         |
|               |                     |                 | 5 bars              | 624         | 1248 | 26           | 38          | 34              | 1717          | 2200              |            |        |             |
|               |                     |                 | 4 bars              | 588         | 1175 | 21           | 32          | 28              | 1299          | 1700              |            |        |             |
| NRS 25 RV 010 |                     | 10              | 6,2 bars            | 524         | 1047 | 41           | 58          | 51              | 2256          | 2700              | 472,5      | 80     | 6,2         |
|               |                     |                 | 5 bars              | 490         | 979  | 33           | 49          | 43              | 1717          | 2200              |            |        |             |
|               |                     |                 | 4 bars              | 461         | 922  | 27           | 40          | 36              | 1299          | 1700              |            |        |             |
| NRS 25 RV 014 |                     | 14              | 6,2 bars            | 366         | 731  | 59           | 84          | 74              | 2256          | 2700              | 472,5      | 80     | 6,2         |
|               |                     |                 | 5 bars              | 342         | 684  | 48           | 70          | 61              | 1717          | 2200              |            |        |             |
|               |                     |                 | 4 bars              | 322         | 644  | 39           | 58          | 51              | 1299          | 1700              |            |        |             |
| NRS 25 RV 023 |                     | 23              | 6,2 bars            | 221         | 441  | 98           | 139         | 122             | 2256          | 2700              | 504,5      | 80     | 6,6         |
|               |                     |                 | 5 bars              | 206         | 413  | 79           | 115         | 101             | 1717          | 2200              |            |        |             |
|               |                     |                 | 4 bars              | 194         | 389  | 64           | 96          | 84              | 1299          | 1700              |            |        |             |

For connection and lubrication, see page 125

Data indicated in this table have an accuracy of +/- 5%

**OPTIONS AVAILABLE FOR THE NRS 25 XT**

|                    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
|--------------------|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--|
| Collected exhaust  |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| ATEX certification |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| Lubrication free   |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| Kit start          |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| Code               | 00 | 01 | 02 | 04 | 05 | 07 | 09 | 10 | 13 | 14 | 21 | 22 |  |  |  |

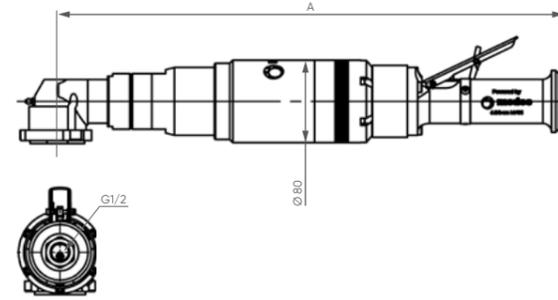
**OPTIONS AVAILABLE FOR THE NRS 25 RV**

|                    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |  |
|--------------------|----|----|----|----|----|----|--|--|--|--|--|--|--|--|--|
| ATEX certification |    |    |    |    |    |    |  |  |  |  |  |  |  |  |  |
| Left/Right switch  |    |    |    |    |    |    |  |  |  |  |  |  |  |  |  |
| Lubrication free   |    |    |    |    |    |    |  |  |  |  |  |  |  |  |  |
| Kit start          |    |    |    |    |    |    |  |  |  |  |  |  |  |  |  |
| Code               | 03 | 12 | 16 | 17 | 29 | 30 |  |  |  |  |  |  |  |  |  |

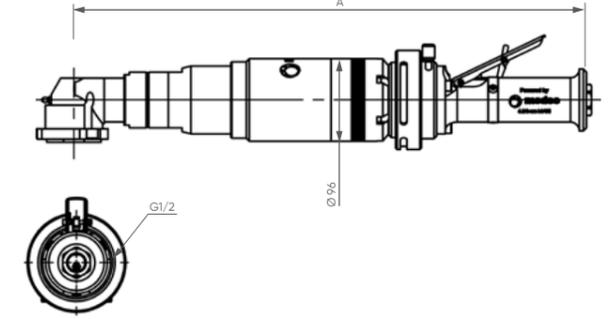
List of available accessories for this motor page 125

**LAYOUT**

**NRS 25 XT**

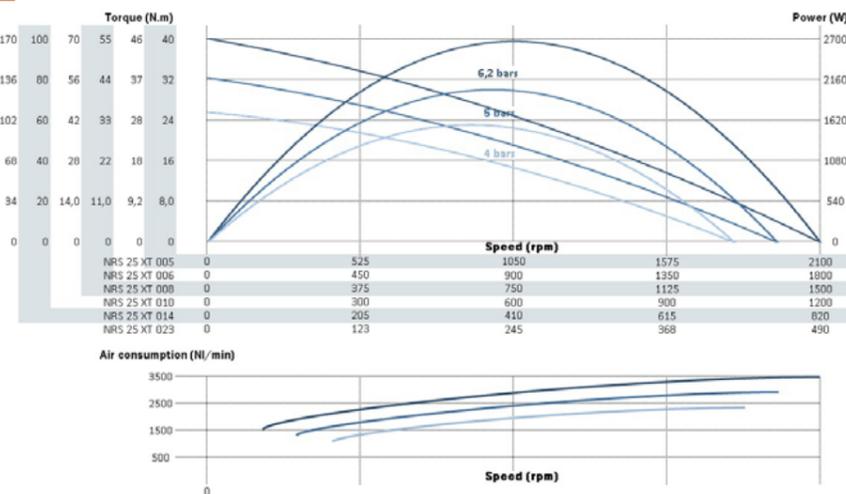


**NRS 25 RV**

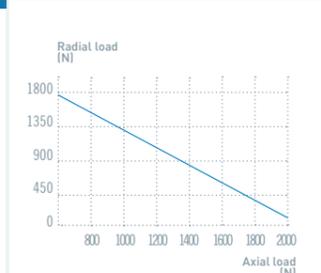


**POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS**

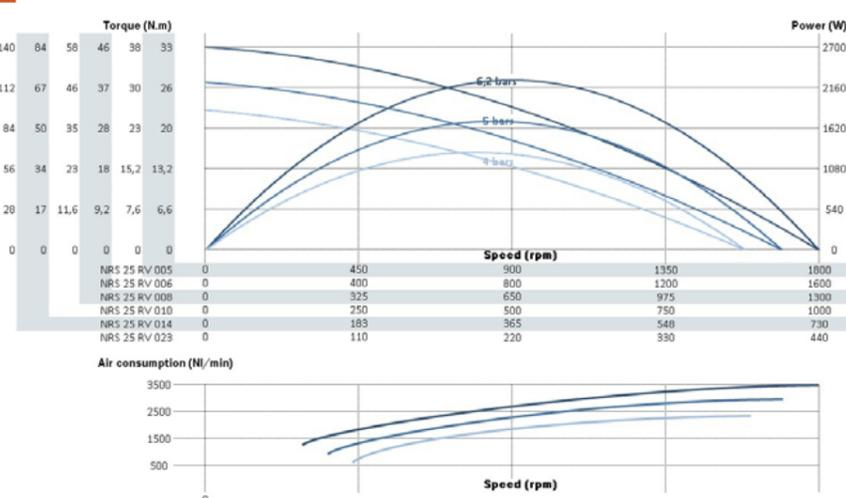
**NRS 25 XT**



**MAXIMUM RADIAL & AXIAL LOAD**



**NRS 25 RV**



**NOTES**

for 100 millions revolutions (load applied @ half shaft length)



# MOTORS NRH 25 / NRZ 25

## POWER 2300-2700 W



NRH 25 XT

NRH 25 RV

NRZ 25 XT

NRZ 25 RV

### REDUCTION RATIO

(3 digits)  
See table below

### OPTIONS

(2 digits)  
See table below

**N R H/Z 2 5 X X X X X X X X X X - X X**

### ROTATION\*

- RT Right (Clockwise)
- LT Left (CCW)
- RV Reversible

### FLANGE

(1 to 2 digits)  
Group VIII page 172

### OUTPUT SHAFT

(1 to 3 digits)  
Group VIII page 173

\* rotation direction is defined when looking from the back of the motor

### PERFORMANCES

| NRH/Z 25 XT   | Air motor reference | Reduction ratio | Air supply pressure | Speed (rpm) |      | Torque (N.m) |             |                 | Max Power (W) | Air cons (NI/min) | Dimensions |        |             |
|---------------|---------------------|-----------------|---------------------|-------------|------|--------------|-------------|-----------------|---------------|-------------------|------------|--------|-------------|
|               |                     |                 |                     | @ max Power | Free | @ max Power  | Max (stall) | Starting torque |               |                   | A (mm)     | Ø (mm) | Weight (kg) |
| NRH 25 XT 041 | 41                  | 6,2 bars        | 140                 | 279         | 183  | 302          | 265         | 2672            | 2800          | 461,5             | 80         | 7,7    |             |
|               |                     |                 | 131                 | 262         | 148  | 248          | 219         | 2036            | 2300          |                   |            |        |             |
|               |                     |                 | 122                 | 244         | 121  | 196          | 173         | 1543            | 1800          |                   |            |        |             |
| NRH 25 XT 047 | 47                  | 6,2 bars        | 121                 | 243         | 210  | 347          | 305         | 2672            | 2800          | 461,5             | 80         | 7,7    |             |
|               |                     |                 | 114                 | 228         | 171  | 286          | 252         | 2036            | 2300          |                   |            |        |             |
|               |                     |                 | 106                 | 212         | 139  | 226          | 199         | 1543            | 1800          |                   |            |        |             |
| NRH 25 XT 056 | 56                  | 6,2 bars        | 101                 | 203         | 252  | 416          | 366         | 2672            | 2800          | 461,5             | 80         | 7,7    |             |
|               |                     |                 | 95                  | 190         | 205  | 343          | 301         | 2036            | 2300          |                   |            |        |             |
|               |                     |                 | 89                  | 177         | 166  | 271          | 238         | 1543            | 1800          |                   |            |        |             |
| NRH 25 XT 071 | 71                  | 6,2 bars        | 80                  | 159         | 321  | 530          | 466         | 2672            | 2800          | 461,5             | 80         | 7,7    |             |
|               |                     |                 | 75                  | 149         | 261  | 437          | 384         | 2036            | 2300          |                   |            |        |             |
|               |                     |                 | 70                  | 139         | 212  | 345          | 304         | 1543            | 1800          |                   |            |        |             |
| NRZ 25 XT 107 | 107                 | 6,2 bars        | 53                  | 106         | 483  | 797          | 701         | 2672            | 2800          | 556,2             | 88,8       | 13,2   |             |
|               |                     |                 | 50                  | 99          | 392  | 657          | 578         | 2036            | 2300          |                   |            |        |             |
|               |                     |                 | 46                  | 92          | 319  | 519          | 457         | 1543            | 1800          |                   |            |        |             |

| NRH/Z 25 RV   | Air motor reference | Reduction ratio | Air supply pressure | Speed (rpm) |      | Torque (N.m) |             |                 | Max Power (W) | Air cons (NI/min) | Dimensions |        |             |
|---------------|---------------------|-----------------|---------------------|-------------|------|--------------|-------------|-----------------|---------------|-------------------|------------|--------|-------------|
|               |                     |                 |                     | @ max Power | Free | @ max Power  | Max (stall) | Starting torque |               |                   | A (mm)     | Ø (mm) | Weight (kg) |
| NRH 25 RV 041 | 41                  | 6,2 bars        | 126                 | 251         | 172  | 244          | 214         | 2256            | 2700          | 472,5             | 80         | 8,1    |             |
|               |                     |                 | 117                 | 235         | 140  | 203          | 178         | 1717            | 2200          |                   |            |        |             |
|               |                     |                 | 111                 | 221         | 112  | 168          | 148         | 1299            | 1700          |                   |            |        |             |
| NRH 25 RV 047 | 47                  | 6,2 bars        | 109                 | 218         | 197  | 281          | 247         | 2256            | 2700          | 472,5             | 80         | 8,1    |             |
|               |                     |                 | 102                 | 204         | 161  | 233          | 205         | 1717            | 2200          |                   |            |        |             |
|               |                     |                 | 96                  | 192         | 129  | 194          | 170         | 1299            | 1700          |                   |            |        |             |
| NRH 25 RV 056 | 56                  | 6,2 bars        | 91                  | 182         | 237  | 336          | 296         | 2256            | 2700          | 472,5             | 80         | 8,1    |             |
|               |                     |                 | 85                  | 170         | 193  | 280          | 246         | 1717            | 2200          |                   |            |        |             |
|               |                     |                 | 80                  | 160         | 155  | 232          | 204         | 1299            | 1700          |                   |            |        |             |
| NRH 25 RV 071 | 71                  | 6,2 bars        | 71                  | 143         | 302  | 428          | 377         | 2256            | 2700          | 472,5             | 80         | 8,1    |             |
|               |                     |                 | 67                  | 134         | 246  | 356          | 314         | 1717            | 2200          |                   |            |        |             |
|               |                     |                 | 63                  | 126         | 197  | 296          | 260         | 1299            | 1700          |                   |            |        |             |
| NRZ 25 RV 107 | 107                 | 6,2 bars        | 48                  | 95          | 453  | 644          | 567         | 2256            | 2700          | 567,2             | 88,8       | 13,6   |             |
|               |                     |                 | 44                  | 89          | 369  | 536          | 472         | 1717            | 2200          |                   |            |        |             |
|               |                     |                 | 42                  | 84          | 297  | 445          | 391         | 1299            | 1700          |                   |            |        |             |
| NRZ 25 RV 154 | 154                 | 6,2 bars        | 33                  | 66          | 650  | 923          | 812         | 2256            | 2700          | 567,2             | 88,8       | 13,6   |             |
|               |                     |                 | 31                  | 62          | 529  | 768          | 676         | 1717            | 2200          |                   |            |        |             |
|               |                     |                 | 29                  | 58          | 425  | 637          | 561         | 1299            | 1700          |                   |            |        |             |

For connection and lubrication, see page 125

Data indicated in this table have an accuracy of +/- 5%

### OPTIONS AVAILABLE FOR THE NRH /Z 25 XT

|                    |    |    |    |    |    |    |    |    |    |    |    |    |
|--------------------|----|----|----|----|----|----|----|----|----|----|----|----|
| Collected exhaust  |    | ▶  |    | ▶  | ▶  | ▶  | ▶  | ▶  | ▶  |    |    |    |
| ATEX certification |    | ▶  |    | ▶  |    | ▶  | ▶  | ▶  | ▶  |    |    |    |
| Lubrication free   |    |    | ▶  |    |    | ▶  |    |    | ▶  |    |    |    |
| Kit start          |    |    |    | ▶  |    |    |    |    | ▶  |    |    |    |
| Code               | 00 | 01 | 02 | 04 | 05 | 07 | 09 | 10 | 13 | 14 | 21 | 22 |

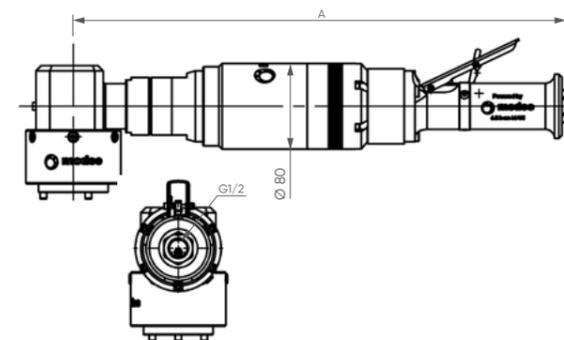
### OPTIONS AVAILABLE FOR THE NRH /Z 25 RV

|                    |    |    |    |    |    |    |   |   |   |
|--------------------|----|----|----|----|----|----|---|---|---|
| ATEX certification |    | ▶  |    | ▶  | ▶  | ▶  | ▶ | ▶ | ▶ |
| Left/Right switch  |    | ▶  | ▶  | ▶  | ▶  | ▶  | ▶ | ▶ | ▶ |
| Lubrication free   |    |    |    |    |    |    |   | ▶ | ▶ |
| Kit start          |    |    |    |    |    |    |   | ▶ | ▶ |
| Code               | 03 | 12 | 16 | 17 | 29 | 30 |   |   |   |

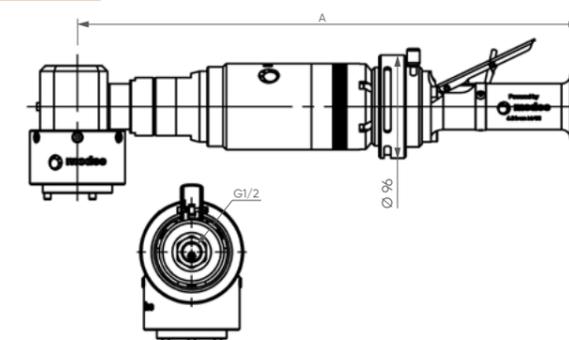
+ List of available accessories for this motor page 125

### LAYOUT

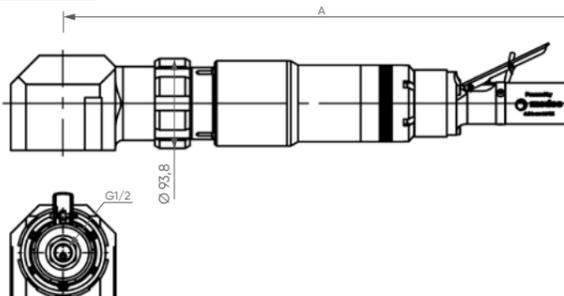
NRH 25 XT



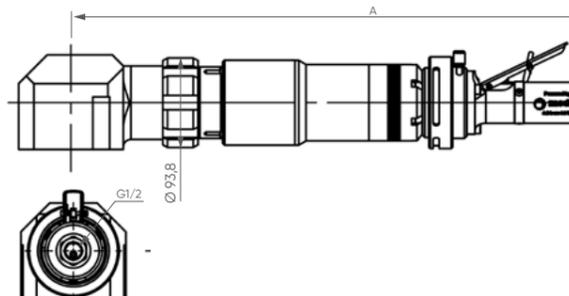
NRH 25 RV



NRZ 25 XT

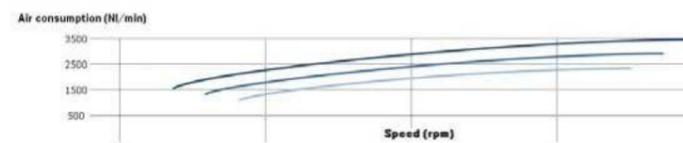
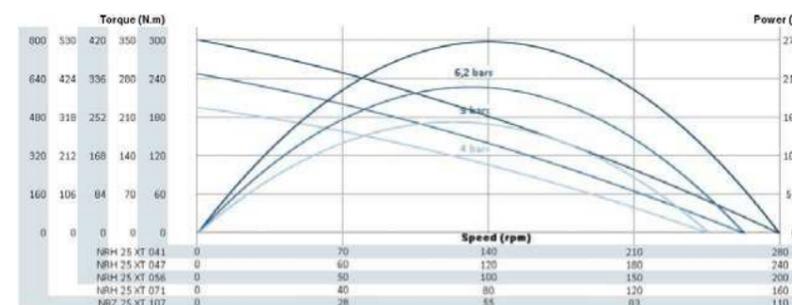


NRZ 25 RV

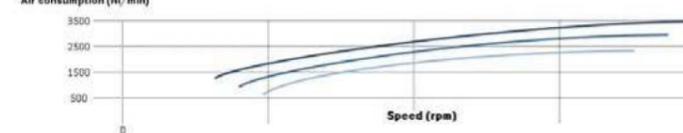
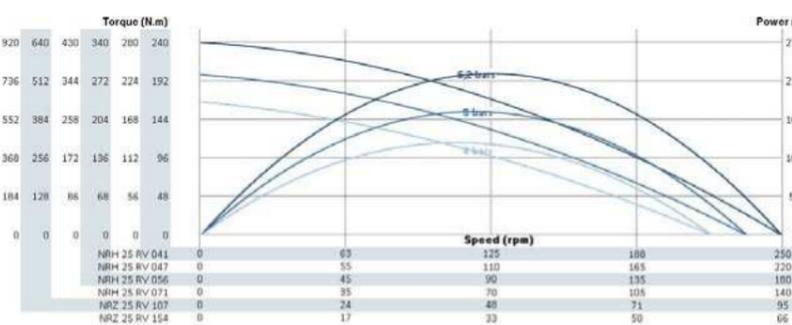


### POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS

NRH/Z 25 XT

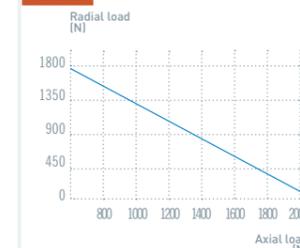


NRH/Z 25 RV



### MAXIMUM RADIAL & AXIAL LOAD

NRH 25



for 100 millions revolutions (load applied @ half shaft length)

NRZ 25



for 100 millions revolutions (load applied @ half shaft length)

### NOTES



MAX POWER  
**3200 W**  
MAX TORQUE  
**840 Nm**

Modec air motors « 30 » series has long proven itself in the most demanding **applications in terms of torque, power and robustness**. With a power of more than 3 kW and an exceptionally robust design, it is no surprise that these air motors can be found in **the most demanding environments (ATEX, extreme temperatures, off-shore, marine) and on the most difficult applications (machining, conveying, drilling...)**.

They are of course available, like the other modec air motors, with or without right angle drive shaft and with or without handle.



| + | ACCESSORIES FOR THIS MOTOR                                 | Reference | Information |
|---|--|-----------|-------------|
|   | Filtration, pressure Regulation and Lubrication unit (FRL) | AC108     | Page 177    |
|   | Safety Air Treatment Box (SAT Box)                         | AC126     | Page 178    |
|   | With Pedal remote control                                  | AC127     | Page 178    |
|   | With handle remote control                                 | AC128     | Page 178    |
|   | With remote emergency kill switch                          | AC129     | Page 178    |
|   | With remote E-Stop and pedal remote control                | AC130     | Page 178    |
|   | With remote E-Stop and handle remote control               | AC131     | Page 178    |
|   | Maintenance kits   |           |             |
|   | Maintenance kit for "30" series                            | AC306     | Page 181    |
|   | Maintenance kit for lube free "30" series                  | AC316     | Page 181    |
|   | Maintenance kit for kit start "30" series                  | AC326     | Page 181    |
|   | Exhaust collector kit for "30" series                      | AC343     | Page 181    |
|   | modec Oil Co-16  | AC149     | Page 178    |
|   | Control handles  |           |             |
|   | Safety control handle for non reversible "30" series       | AC412     | Page 179    |
|   | Safety control handle for reversible "30" series           | AC414     | Page 179    |
|   | Progressive control handle for non reversible "30" series  | AC407     | Page 179    |
|   | Progressive control handle for reversible "30" series      | AC410     | Page 179    |
|   | Filters et silencers                                       |           |             |
|   | Metallic standard exhaust silencer                         | AC182     | Page 179    |
|   | Metallic standard inlet silencer                           | AC164     | Page 179    |
|   | Plastic standard exhaust silencer                          | AC153     | Page 180    |
|   | Plastic standard inlet silencer                            | AC184     | Page 180    |
|   | Heavy duty exhaust silencer                                | AC157     | Page 180    |
|   | Heavy duty inlet silencer                                  | AC155     | Page 180    |
|   | High flow air muffler                                      | AC160     | Page 181    |
|   | Exhaust silencer filter                                    | AC185     | Page 180    |
|   | Speed control muffler                                      | AC174     | Page 180    |

**CONNECTION ET LUBRIFICATION**

| Ø | Min. fittings Ø |                | Min. pipe Ø    |                | Lubrification (6,2 bars) |
|---|-----------------|----------------|----------------|----------------|--------------------------|
|   | In              | Out            | In             | Out            |                          |
|   | 14 mm / 0,6 In  | 16 mm / 0,6 In | 16 mm / 0,6 In | 20 mm / 0,8 In | 11 drops / minute        |

**CONVERSION TABLE**

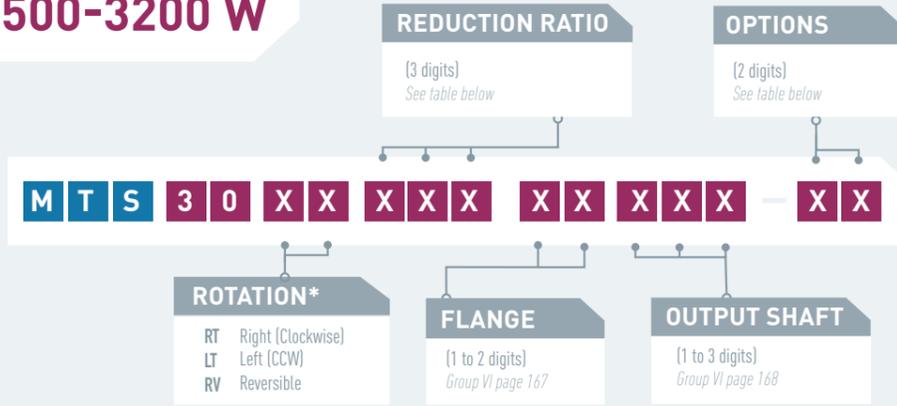
|                             |   |                   |
|-----------------------------|---|-------------------|
| Watt ► Horse power          | Newton meter ► Pound feet                             | Millimeter ► Inch |
| Watt x 0,001341 = hp        | Nm x 0,7376 = lb.ft                                   | mm x 0,03937 = in |
| Bar ► Pound per square Inch | Normo Liter / minute ► Standard cubic feet per minute | Kilogram ► Pound  |
| Bar x 14,5 = psi            | NL / min x 0,03531 = scfm                             | Kg x 2,205 = lb   |



# MOTORS MTS 30

## POWER 2500-3200 W

MTS 30



\* rotation direction is defined when looking from the back of the motor

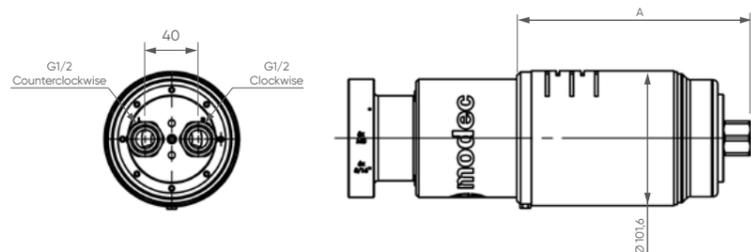
| PERFORMANCES | MTS 30 XT           |    | Reduction ratio | Air supply pressure | Speed (rpm) |      | Torque (N.m) |             |                 | Max Power (W) | Air cons (NL/min) | Dimensions |        |             |
|--------------|---------------------|----|-----------------|---------------------|-------------|------|--------------|-------------|-----------------|---------------|-------------------|------------|--------|-------------|
|              | Air motor reference |    |                 |                     | @ max Power | Free | @ max Power  | Max (stall) | Starting torque |               |                   | A (mm)     | Ø (mm) | Weight (kg) |
|              |                     |    |                 |                     |             |      |              |             |                 |               |                   |            |        |             |
|              | MTS 30 XT 004       | 4  | 6,2 bars        | 1345                | 2690        | 23   | 44           | 39          | 3209            | 3100          | 176               | 101,6      | 7,3    |             |
|              |                     |    | 5 bars          | 1217                | 2434        | 19   | 36           | 31          | 2416            | 2500          |                   |            |        |             |
|              |                     |    | 4 bars          | 1107                | 2214        | 16   | 29           | 25          | 1850            | 2000          |                   |            |        |             |
|              | MTS 30 XT 005       | 5  | 6,2 bars        | 1040                | 2079        | 29   | 57           | 50          | 3209            | 3100          | 176               | 101,6      | 7,3    |             |
|              |                     |    | 5 bars          | 940                 | 1881        | 25   | 46           | 41          | 2416            | 2500          |                   |            |        |             |
|              |                     |    | 4 bars          | 855                 | 1711        | 21   | 37           | 33          | 1850            | 2000          |                   |            |        |             |
|              | MTS 30 XT 007       | 7  | 6,2 bars        | 681                 | 1362        | 45   | 87           | 77          | 3209            | 3100          | 176               | 101,6      | 7,3    |             |
|              |                     |    | 5 bars          | 616                 | 1232        | 37   | 71           | 62          | 2416            | 2500          |                   |            |        |             |
|              |                     |    | 4 bars          | 560                 | 1120        | 32   | 57           | 50          | 1850            | 2000          |                   |            |        |             |
|              | MTS 30 XT 011       | 11 | 6,2 bars        | 475                 | 951         | 64   | 125          | 110         | 3209            | 3100          | 176               | 101,6      | 7,3    |             |
|              |                     |    | 5 bars          | 430                 | 860         | 54   | 101          | 89          | 2416            | 2500          |                   |            |        |             |
|              |                     |    | 4 bars          | 391                 | 782         | 45   | 82           | 72          | 1850            | 2000          |                   |            |        |             |
|              | MTS 30 XT 014       | 14 | 6,2 bars        | 363                 | 725         | 85   | 163          | 144         | 3209            | 3100          | 176               | 101,6      | 7,3    |             |
|              |                     |    | 5 bars          | 328                 | 656         | 70   | 133          | 117         | 2416            | 2500          |                   |            |        |             |
|              |                     |    | 4 bars          | 298                 | 597         | 59   | 107          | 94          | 1850            | 2000          |                   |            |        |             |
|              | MTS 30 XT 018       | 18 | 6,2 bars        | 280                 | 560         | 109  | 212          | 186         | 3209            | 3100          | 176               | 101,6      | 7,3    |             |
|              |                     |    | 5 bars          | 253                 | 507         | 91   | 172          | 151         | 2416            | 2500          |                   |            |        |             |
|              |                     |    | 4 bars          | 231                 | 461         | 77   | 139          | 122         | 1850            | 2000          |                   |            |        |             |
|              | MTS 30 XT 023       | 23 | 6,2 bars        | 217                 | 433         | 141  | 274          | 241         | 3209            | 3100          | 176               | 101,6      | 7,3    |             |
|              |                     |    | 5 bars          | 196                 | 392         | 118  | 222          | 195         | 2416            | 2500          |                   |            |        |             |
|              |                     |    | 4 bars          | 178                 | 356         | 99   | 180          | 158         | 1850            | 2000          |                   |            |        |             |
|              | MTS 30 XT 027       | 27 | 6,2 bars        | 184                 | 367         | 167  | 323          | 284         | 3209            | 3100          | 176               | 101,6      | 7,3    |             |
|              |                     |    | 5 bars          | 166                 | 332         | 139  | 262          | 231         | 2416            | 2500          |                   |            |        |             |
|              |                     |    | 4 bars          | 151                 | 302         | 117  | 212          | 187         | 1850            | 2000          |                   |            |        |             |
|              | MTS 30 XT 035       | 35 | 6,2 bars        | 142                 | 284         | 216  | 418          | 368         | 3209            | 3100          | 176               | 101,6      | 7,3    |             |
|              |                     |    | 5 bars          | 128                 | 257         | 180  | 339          | 298         | 2416            | 2500          |                   |            |        |             |
|              |                     |    | 4 bars          | 117                 | 233         | 151  | 274          | 241         | 1850            | 2000          |                   |            |        |             |
|              | MTS 30 XT 054       | 54 | 6,2 bars        | 93                  | 186         | 330  | 638          | 562         | 3209            | 3100          | 176               | 101,6      | 7,3    |             |
|              |                     |    | 5 bars          | 84                  | 168         | 275  | 518          | 456         | 2416            | 2500          |                   |            |        |             |
|              |                     |    | 4 bars          | 76                  | 153         | 231  | 419          | 369         | 1850            | 2000          |                   |            |        |             |

For connection and lubrication, see page 145

Data indicated in this table have an accuracy of +/- 5%

### LAYOUT

MTS 30



### OPTIONS AVAILABLE FOR THIS MOTOR

| Option             | 00 | 01 | 02 | 03 | 04 | 05 | 07 | 09 | 10 | 11 | 12 | 13 | 14 | 16 | 17 | 21 | 22 | 23 | 27 | 28 | 29 | 30 | 36 | 37 |
|--------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Collected exhaust  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| ATEX certification |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Left/Right switch* |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Lubrication free   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Kit start          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Inox               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Code               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

+ List of available accessories for this motor page 145

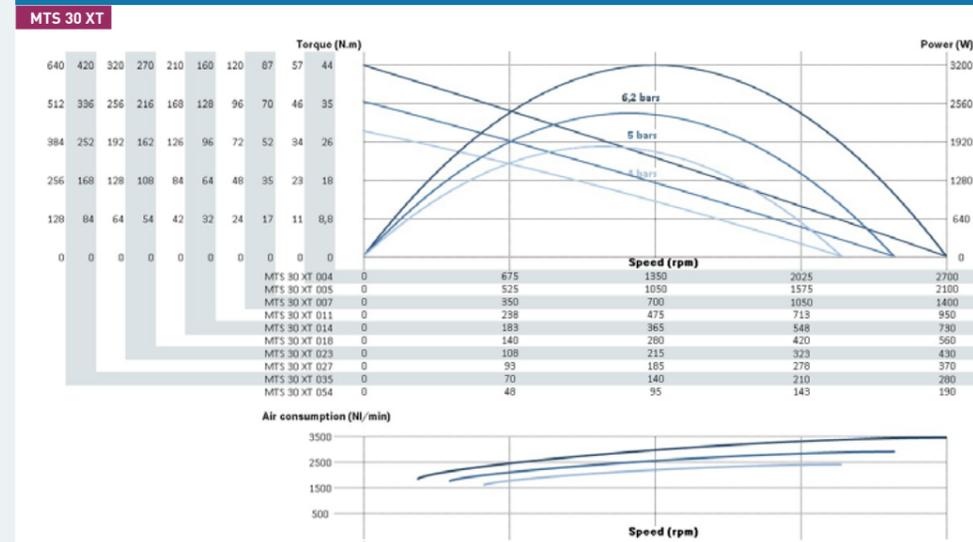
\* Reversible motors only

| PERFORMANCES | MTS 30 RV     |      | Air motor reference | Reduction ratio | Air supply pressure | Speed (rpm) |             | Torque (N.m)    |        |        | Max Power (W) | Air cons (NL/min) | Dimensions  |  |  |
|--------------|---------------|------|---------------------|-----------------|---------------------|-------------|-------------|-----------------|--------|--------|---------------|-------------------|-------------|--|--|
|              | @ max Power   | Free |                     |                 |                     | @ max Power | Max (stall) | Starting torque | A (mm) | Ø (mm) |               |                   | Weight (kg) |  |  |
|              |               |      |                     |                 |                     |             |             |                 |        |        |               |                   |             |  |  |
|              | MTS 30 RV 004 | 4    | 6,2 bars            | 1052            | 2104                | 23          | 39          | 29              | 2509   | 3000   | 176           | 101,6             | 7,4         |  |  |
|              |               |      | 5 bars              | 968             | 1935                | 20          | 33          | 25              | 1983   | 2400   |               |                   |             |  |  |
|              |               |      | 4 bars              | 880             | 1759                | 16          | 27          | 20              | 1483   | 1900   |               |                   |             |  |  |
|              | MTS 30 RV 005 | 5    | 6,2 bars            | 813             | 1626                | 29          | 50          | 38              | 2509   | 3000   | 176           | 101,6             | 7,4         |  |  |
|              |               |      | 5 bars              | 748             | 1496                | 25          | 43          | 32              | 1983   | 2400   |               |                   |             |  |  |
|              |               |      | 4 bars              | 680             | 1360                | 21          | 35          | 26              | 1483   | 1900   |               |                   |             |  |  |
|              | MTS 30 RV 007 | 7    | 6,2 bars            | 532             | 1065                | 45          | 77          | 58              | 2509   | 3000   | 176           | 101,6             | 7,4         |  |  |
|              |               |      | 5 bars              | 490             | 979                 | 39          | 65          | 49              | 1983   | 2400   |               |                   |             |  |  |
|              |               |      | 4 bars              | 445             | 890                 | 32          | 54          | 40              | 1483   | 1900   |               |                   |             |  |  |
|              | MTS 30 RV 011 | 11   | 6,2 bars            | 372             | 743                 | 64          | 110         | 83              | 2509   | 3000   | 176           | 101,6             | 7,4         |  |  |
|              |               |      | 5 bars              | 342             | 684                 | 55          | 93          | 70              | 1983   | 2400   |               |                   |             |  |  |
|              |               |      | 4 bars              | 311             | 622                 | 46          | 77          | 58              | 1483   | 1900   |               |                   |             |  |  |
|              | MTS 30 RV 014 | 14   | 6,2 bars            | 284             | 567                 | 85          | 145         | 109             | 2509   | 3000   | 176           | 101,6             | 7,4         |  |  |
|              |               |      | 5 bars              | 261             | 522                 | 73          | 122         | 92              | 1983   | 2400   |               |                   |             |  |  |
|              |               |      | 4 bars              | 237             | 474                 | 60          | 101         | 76              | 1483   | 1900   |               |                   |             |  |  |
|              | MTS 30 RV 018 | 18   | 6,2 bars            | 219             | 438                 | 109         | 187         | 140             | 2509   | 3000   | 176           | 101,6             | 7,4         |  |  |
|              |               |      | 5 bars              | 202             | 403                 | 94          | 158         | 119             | 1983   | 2400   |               |                   |             |  |  |
|              |               |      | 4 bars              | 183             | 367                 | 77          | 131         | 98              | 1483   | 1900   |               |                   |             |  |  |
|              | MTS 30 RV 023 | 23   | 6,2 bars            | 169             | 339                 | 141         | 242         | 182             | 2509   | 3000   | 176           | 101,6             | 7,4         |  |  |
|              |               |      | 5 bars              | 156             | 312                 | 122         | 205         | 154             | 1983   | 2400   |               |                   |             |  |  |
|              |               |      | 4 bars              | 142             | 283                 | 100         | 169         | 127             | 1483   | 1900   |               |                   |             |  |  |
|              | MTS 30 RV 027 | 27   | 6,2 bars            | 144             | 287                 | 167         | 286         | 215             | 2509   | 3000   | 176           | 101,6             | 7,4         |  |  |
|              |               |      | 5 bars              | 132             | 264                 | 144         | 242         | 182             | 1983   | 2400   |               |                   |             |  |  |
|              |               |      | 4 bars              | 120             | 240                 | 118         | 200         | 150             | 1483   | 1900   |               |                   |             |  |  |
|              | MTS 30 RV 035 | 35   | 6,2 bars            | 111             | 222                 | 216         | 370         | 278             | 2509   | 3000   | 176           | 101,6             | 7,4         |  |  |
|              |               |      | 5 bars              | 102             | 204                 | 186         | 313         | 235             | 1983   | 2400   |               |                   |             |  |  |
|              |               |      | 4 bars              | 93              | 186                 | 153         | 259         | 194             | 1483   | 1900   |               |                   |             |  |  |
|              | MTS 30 RV 054 | 54   | 6,2 bars            | 73              | 145                 | 330         | 565         | 424             | 2509   | 3000   | 176           | 101,6             | 7,4         |  |  |
|              |               |      | 5 bars              | 67              | 134                 | 284         | 478         | 359             | 1983   | 2400   |               |                   |             |  |  |
|              |               |      | 4 bars              | 61              | 121                 | 233         | 395         | 296             | 1483   | 1900   |               |                   |             |  |  |

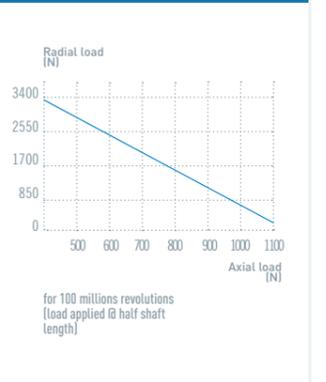
For connection and lubrication, see page 145

Data indicated in this table have an accuracy of +/- 5%

### POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS

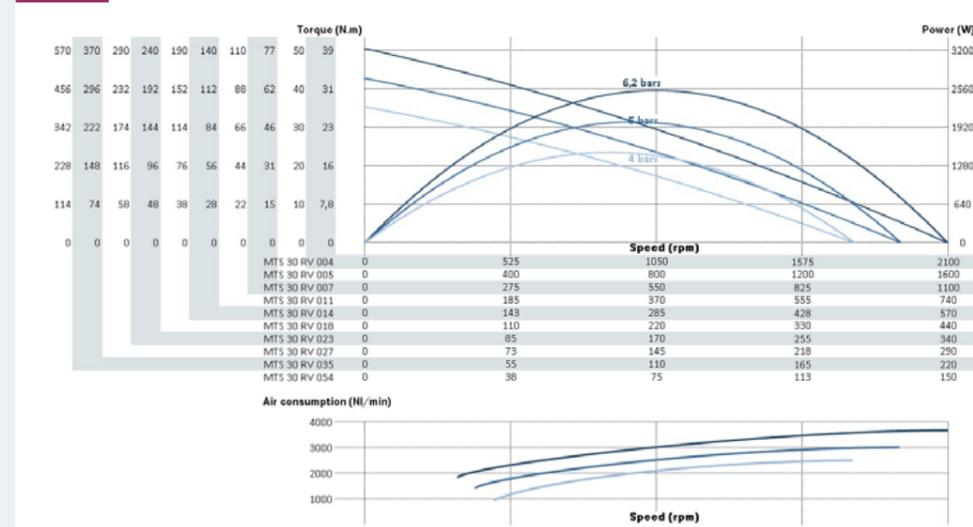


### MAXIMUM RADIAL & AXIAL LOAD



### NOTES

MTS 30 RV



# MOTORS NTS 30

## POWER 2500-3200 W

### REDUCTION RATIO

(3 digits)  
See table below

### OPTIONS

(2 digits)  
See table on right page

**N T S 3 0 X X X X X X X X - X X**

### ROTATION\*

- RT Right (Clockwise)
- LT Left (CCW)
- RV Reversible

### FLANGE

(1 to 2 digits)  
Group VI page 167

### OUTPUT SHAFT

(1 to 3 digits)  
Group VI page 168

\* rotation direction is defined when looking from the back of the motor

NTS 30 XT

NTS 30 RV

### OPTIONS AVAILABLE FOR THE NTS 30 XT

|                    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |
|--------------------|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--|--|--|--|--|--|
| Collected exhaust  |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |
| ATEX certification |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |
| Lubrication free   |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |
| Kit start          |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |
| Code               | 00 | 01 | 02 | 04 | 05 | 07 | 09 | 10 | 13 | 14 | 21 | 22 |  |  |  |  |  |  |  |  |

### OPTIONS AVAILABLE FOR THE NTS 30 RV

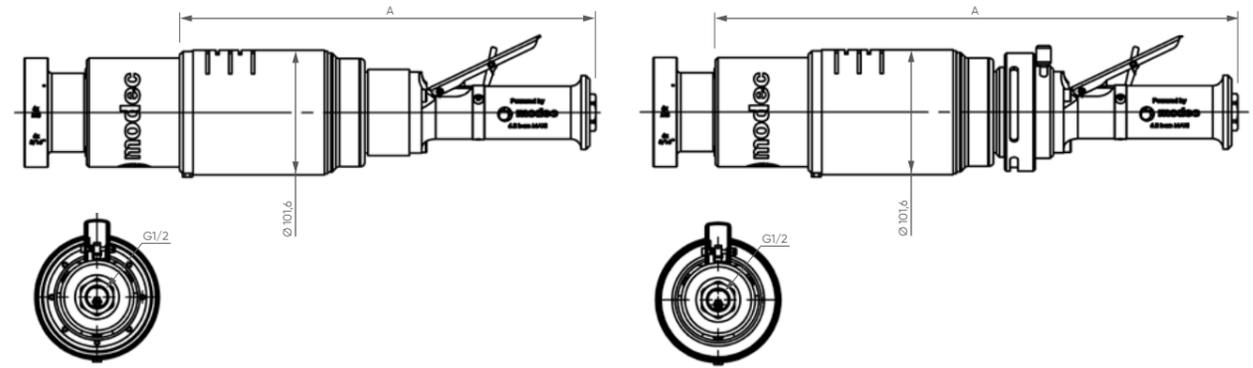
|                    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------|----|----|----|----|----|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| ATEX certification |    |    |    |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Left/Right switch  |    |    |    |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lubrication free   |    |    |    |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Kit start          |    |    |    |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Code               | 03 | 12 | 16 | 17 | 29 | 30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

+ List of available accessories for this motor page 145

### LAYOUT

NTS 30 XT

NTS 30 RV



### PERFORMANCES

| Air motor reference | Reduction ratio | Air supply pressure | Speed (rpm) |      | Torque (N.m) |             |                 | Max Power (W) | Air cons (Nl/min) | Dimensions |        |             |
|---------------------|-----------------|---------------------|-------------|------|--------------|-------------|-----------------|---------------|-------------------|------------|--------|-------------|
|                     |                 |                     | @ max Power | Free | @ max Power  | Max (stall) | Starting torque |               |                   | A (mm)     | Ø (mm) | Weight (kg) |
| NTS 30 XT 004       | 4               | 6,2 bars            | 1345        | 2690 | 23           | 44          | 39              | 3209          | 3100              | 340,5      | 101,6  | 8,2         |
|                     |                 | 5 bars              | 1217        | 2434 | 19           | 36          | 31              | 2416          | 2500              |            |        |             |
|                     |                 | 4 bars              | 1107        | 2214 | 16           | 29          | 25              | 1850          | 2000              |            |        |             |
| NTS 30 XT 005       | 5               | 6,2 bars            | 1040        | 2079 | 29           | 57          | 50              | 3209          | 3100              | 340,5      | 101,6  | 8,2         |
|                     |                 | 5 bars              | 940         | 1881 | 25           | 46          | 41              | 2416          | 2500              |            |        |             |
|                     |                 | 4 bars              | 855         | 1711 | 21           | 37          | 33              | 1850          | 2000              |            |        |             |
| NTS 30 XT 007       | 7               | 6,2 bars            | 681         | 1362 | 45           | 87          | 77              | 3209          | 3100              | 340,5      | 101,6  | 8,2         |
|                     |                 | 5 bars              | 616         | 1232 | 37           | 71          | 62              | 2416          | 2500              |            |        |             |
|                     |                 | 4 bars              | 560         | 1120 | 32           | 57          | 50              | 1850          | 2000              |            |        |             |
| NTS 30 XT 011       | 11              | 6,2 bars            | 475         | 951  | 64           | 125         | 110             | 3209          | 3100              | 340,5      | 101,6  | 8,2         |
|                     |                 | 5 bars              | 430         | 860  | 54           | 101         | 89              | 2416          | 2500              |            |        |             |
|                     |                 | 4 bars              | 391         | 782  | 45           | 82          | 72              | 1850          | 2000              |            |        |             |
| NTS 30 XT 014       | 14              | 6,2 bars            | 363         | 725  | 85           | 163         | 144             | 3209          | 3100              | 340,5      | 101,6  | 8,2         |
|                     |                 | 5 bars              | 328         | 656  | 70           | 133         | 117             | 2416          | 2500              |            |        |             |
|                     |                 | 4 bars              | 298         | 597  | 59           | 107         | 94              | 1850          | 2000              |            |        |             |
| NTS 30 XT 018       | 18              | 6,2 bars            | 280         | 560  | 109          | 212         | 186             | 3209          | 3100              | 340,5      | 101,6  | 8,2         |
|                     |                 | 5 bars              | 253         | 507  | 91           | 172         | 151             | 2416          | 2500              |            |        |             |
|                     |                 | 4 bars              | 231         | 461  | 77           | 139         | 122             | 1850          | 2000              |            |        |             |
| NTS 30 XT 023       | 23              | 6,2 bars            | 217         | 433  | 141          | 274         | 241             | 3209          | 3100              | 340,5      | 101,6  | 8,2         |
|                     |                 | 5 bars              | 196         | 392  | 118          | 222         | 195             | 2416          | 2500              |            |        |             |
|                     |                 | 4 bars              | 178         | 356  | 99           | 180         | 158             | 1850          | 2000              |            |        |             |
| NTS 30 XT 027       | 27              | 6,2 bars            | 184         | 367  | 167          | 323         | 284             | 3209          | 3100              | 340,5      | 101,6  | 8,2         |
|                     |                 | 5 bars              | 166         | 332  | 139          | 262         | 231             | 2416          | 2500              |            |        |             |
|                     |                 | 4 bars              | 151         | 302  | 117          | 212         | 187             | 1850          | 2000              |            |        |             |
| NTS 30 XT 035       | 35              | 6,2 bars            | 142         | 284  | 216          | 418         | 368             | 3209          | 3100              | 340,5      | 101,6  | 8,2         |
|                     |                 | 5 bars              | 128         | 257  | 180          | 339         | 298             | 2416          | 2500              |            |        |             |
|                     |                 | 4 bars              | 117         | 233  | 151          | 274         | 241             | 1850          | 2000              |            |        |             |
| NTS 30 XT 054       | 54              | 6,2 bars            | 93          | 186  | 330          | 638         | 562             | 3209          | 3100              | 340,5      | 101,6  | 8,2         |
|                     |                 | 5 bars              | 84          | 168  | 275          | 518         | 456             | 2416          | 2500              |            |        |             |
|                     |                 | 4 bars              | 76          | 153  | 231          | 419         | 369             | 1850          | 2000              |            |        |             |

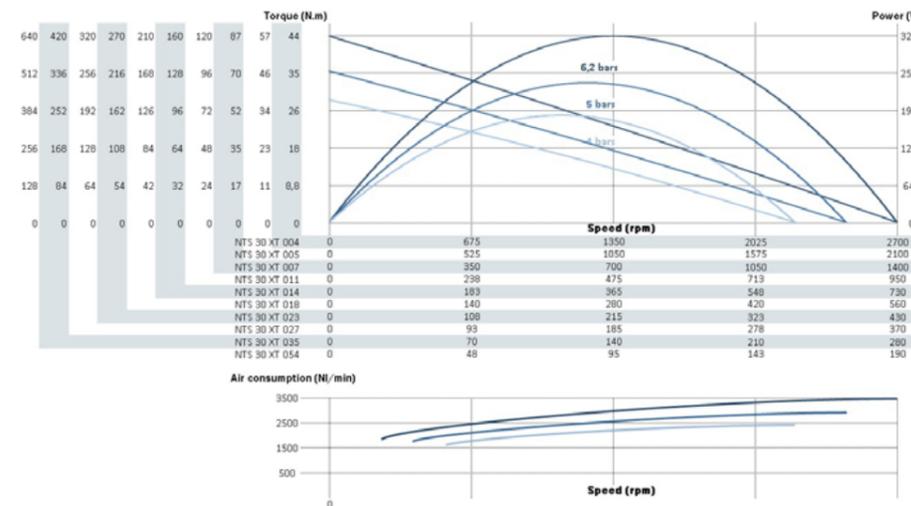
| Air motor reference | Reduction ratio | Air supply pressure | Speed (rpm) |      | Torque (N.m) |             |                 | Max Power (W) | Air cons (Nl/min) | Dimensions |        |             |
|---------------------|-----------------|---------------------|-------------|------|--------------|-------------|-----------------|---------------|-------------------|------------|--------|-------------|
|                     |                 |                     | @ max Power | Free | @ max Power  | Max (stall) | Starting torque |               |                   | A (mm)     | Ø (mm) | Weight (kg) |
| NTS 30 RV 004       | 4               | 6,2 bars            | 1052        | 2104 | 23           | 39          | 29              | 2509          | 3000              | 351,5      | 101,6  | 8,7         |
|                     |                 | 5 bars              | 968         | 1935 | 20           | 33          | 25              | 1983          | 2400              |            |        |             |
|                     |                 | 4 bars              | 880         | 1759 | 16           | 27          | 20              | 1483          | 1900              |            |        |             |
| NTS 30 RV 005       | 5               | 6,2 bars            | 813         | 1626 | 29           | 50          | 38              | 2509          | 3000              | 351,5      | 101,6  | 8,7         |
|                     |                 | 5 bars              | 748         | 1496 | 25           | 43          | 32              | 1983          | 2400              |            |        |             |
|                     |                 | 4 bars              | 680         | 1360 | 21           | 35          | 26              | 1483          | 1900              |            |        |             |
| NTS 30 RV 007       | 7               | 6,2 bars            | 532         | 1065 | 45           | 77          | 58              | 2509          | 3000              | 351,5      | 101,6  | 8,7         |
|                     |                 | 5 bars              | 490         | 979  | 39           | 65          | 49              | 1983          | 2400              |            |        |             |
|                     |                 | 4 bars              | 445         | 890  | 32           | 54          | 40              | 1483          | 1900              |            |        |             |
| NTS 30 RV 011       | 11              | 6,2 bars            | 372         | 743  | 64           | 110         | 83              | 2509          | 3000              | 351,5      | 101,6  | 8,7         |
|                     |                 | 5 bars              | 342         | 684  | 55           | 93          | 70              | 1983          | 2400              |            |        |             |
|                     |                 | 4 bars              | 311         | 622  | 46           | 77          | 58              | 1483          | 1900              |            |        |             |
| NTS 30 RV 014       | 14              | 6,2 bars            | 284         | 567  | 85           | 145         | 109             | 2509          | 3000              | 351,5      | 101,6  | 8,7         |
|                     |                 | 5 bars              | 261         | 522  | 73           | 122         | 92              | 1983          | 2400              |            |        |             |
|                     |                 | 4 bars              | 237         | 474  | 60           | 101         | 76              | 1483          | 1900              |            |        |             |
| NTS 30 RV 018       | 18              | 6,2 bars            | 219         | 438  | 109          | 187         | 140             | 2509          | 3000              | 351,5      | 101,6  | 8,7         |
|                     |                 | 5 bars              | 202         | 403  | 94           | 158         | 119             | 1983          | 2400              |            |        |             |
|                     |                 | 4 bars              | 183         | 367  | 77           | 131         | 98              | 1483          | 1900              |            |        |             |
| NTS 30 RV 023       | 23              | 6,2 bars            | 169         | 339  | 141          | 242         | 182             | 2509          | 3000              | 351,5      | 101,6  | 8,7         |
|                     |                 | 5 bars              | 156         | 312  | 122          | 205         | 154             | 1983          | 2400              |            |        |             |
|                     |                 | 4 bars              | 142         | 283  | 100          | 169         | 127             | 1483          | 1900              |            |        |             |
| NTS 30 RV 027       | 27              | 6,2 bars            | 144         | 287  | 167          | 286         | 215             | 2509          | 3000              | 351,5      | 101,6  | 8,7         |
|                     |                 | 5 bars              | 132         | 264  | 144          | 242         | 182             | 1983          | 2400              |            |        |             |
|                     |                 | 4 bars              | 120         | 240  | 118          | 200         | 150             | 1483          | 1900              |            |        |             |
| NTS 30 RV 035       | 35              | 6,2 bars            | 111         | 222  | 216          | 370         | 278             | 2509          | 3000              | 351,5      | 101,6  | 8,7         |
|                     |                 | 5 bars              | 102         | 204  | 186          | 313         | 235             | 1983          | 2400              |            |        |             |
|                     |                 | 4 bars              | 93          | 186  | 153          | 259         | 194             | 1483          | 1900              |            |        |             |
| NTS 30 RV 054       | 54              | 6,2 bars            | 73          | 145  | 330          | 565         | 424             | 2509          | 3000              | 351,5      | 101,6  | 8,7         |
|                     |                 | 5 bars              | 67          | 134  | 284          | 478         | 359             | 1983          | 2400              |            |        |             |
|                     |                 | 4 bars              | 61          | 121  | 233          | 395         | 296             | 1483          | 1900              |            |        |             |

For connection and lubrication, see page 145

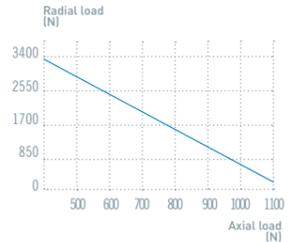
Data indicated in this table have an accuracy of +/- 5%

### POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS

NTS 30 XT



### MAXIMUM RADIAL & AXIAL LOAD

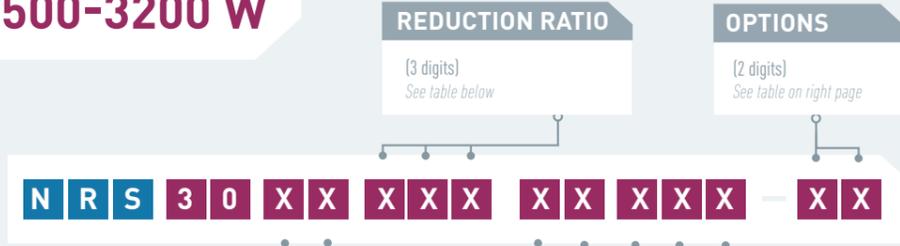


### NOTES



# MOTORS NRS 30

## POWER 2500-3200 W



\* rotation direction is defined when looking from the back of the motor

### OPTIONS AVAILABLE FOR THE NRS 30 XT

|                    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
|--------------------|----|----|----|----|----|----|----|----|----|----|----|----|--|--|
| Collected exhaust  |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| ATEX certification |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| Lubrication free   |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| Kit start          |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
| Code               | 00 | 01 | 02 | 04 | 05 | 07 | 09 | 10 | 13 | 14 | 21 | 22 |  |  |

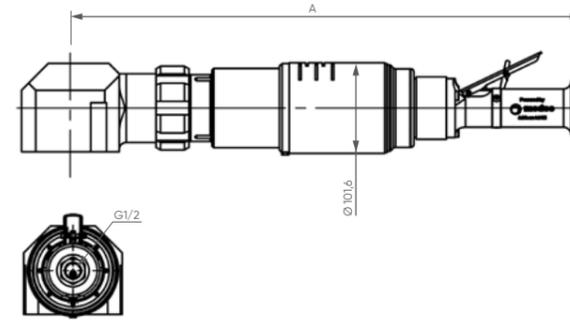
### OPTIONS AVAILABLE FOR THE NRS 30 RV

|                    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |
|--------------------|----|----|----|----|----|----|--|--|--|--|--|--|--|--|
| ATEX certification |    |    |    |    |    |    |  |  |  |  |  |  |  |  |
| Left/Right switch  |    |    |    |    |    |    |  |  |  |  |  |  |  |  |
| Lubrication free   |    |    |    |    |    |    |  |  |  |  |  |  |  |  |
| Kit start          |    |    |    |    |    |    |  |  |  |  |  |  |  |  |
| Code               | 03 | 12 | 16 | 17 | 29 | 30 |  |  |  |  |  |  |  |  |

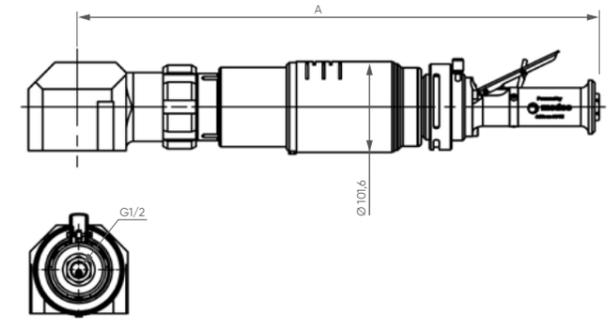
+ List of available accessories for this motor page 145

### LAYOUT

#### NRS 30 XT



#### NRS 30 RV



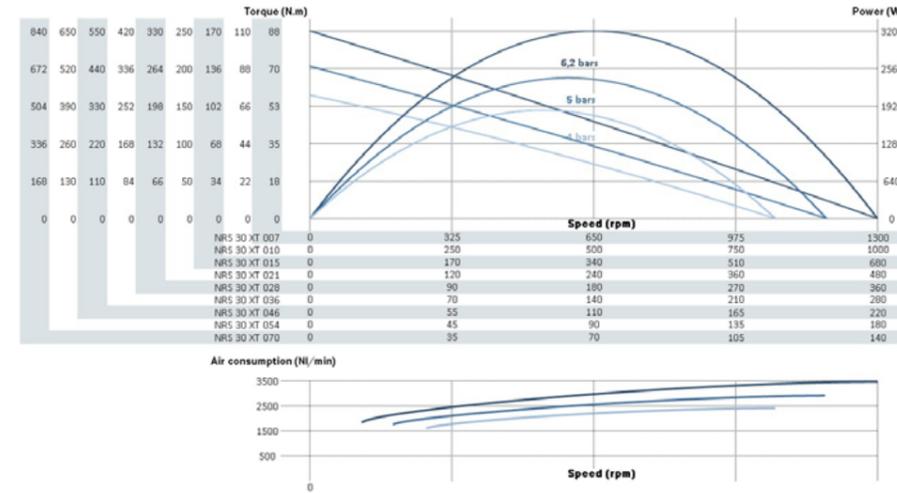
| PERFORMANCES | NRS 30 XT           |                 |                     |             |             |                 |                 |              |             |             |               |                   |            |  |  |
|--------------|---------------------|-----------------|---------------------|-------------|-------------|-----------------|-----------------|--------------|-------------|-------------|---------------|-------------------|------------|--|--|
|              | Air motor reference | Reduction ratio | Air supply pressure |             | Speed (rpm) |                 |                 | Torque (N.m) |             |             | Max Power (W) | Air cons (Nl/min) | Dimensions |  |  |
|              |                     |                 | @ max Power         | Free        | @ max Power | Max (stall)     | Starting torque | A (mm)       | Ø (mm)      | Weight (kg) |               |                   |            |  |  |
|              | NRS 30 XT 007       | 7               | 6,2 bars            | 673         | 1345        | 46              | 88              | 78           | 3208        | 3100        | 576,1         | 101,6             | 14,4       |  |  |
| 5 bars       |                     |                 | 608                 | 1217        | 38          | 71              | 63              | 2418         | 2500        |             |               |                   |            |  |  |
| 4 bars       |                     |                 | 553                 | 1107        | 32          | 58              | 51              | 1858         | 2000        |             |               |                   |            |  |  |
|              | NRS 30 XT 010       | 10              | 6,2 bars            | 520         | 1040        | 59              | 114             | 100          | 3208        | 3100        | 576,1         | 101,6             | 14,4       |  |  |
| 5 bars       |                     |                 | 470                 | 940         | 49          | 92              | 81              | 2418         | 2500        |             |               |                   |            |  |  |
| 4 bars       |                     |                 | 428                 | 855         | 41          | 75              | 66              | 1858         | 2000        |             |               |                   |            |  |  |
|              | NRS 30 XT 015       | 15              | 6,2 bars            | 340         | 681         | 90              | 174             | 153          | 3208        | 3100        | 576,1         | 101,6             | 14,4       |  |  |
| 5 bars       |                     |                 | 308                 | 616         | 75          | 141             | 124             | 2418         | 2500        |             |               |                   |            |  |  |
| 4 bars       |                     |                 | 280                 | 560         | 63          | 114             | 101             | 1858         | 2000        |             |               |                   |            |  |  |
|              | NRS 30 XT 021       | 21              | 6,2 bars            | 238         | 475         | 129             | 249             | 220          | 3208        | 3100        | 576,1         | 101,6             | 14,4       |  |  |
| 5 bars       |                     |                 | 215                 | 430         | 107         | 202             | 178             | 2418         | 2500        |             |               |                   |            |  |  |
| 4 bars       |                     |                 | 196                 | 391         | 91          | 164             | 144             | 1858         | 2000        |             |               |                   |            |  |  |
|              | NRS 30 XT 028       | 28              | 6,2 bars            | 181         | 363         | 169             | 327             | 288          | 3208        | 3100        | 576,1         | 101,6             | 14,4       |  |  |
| 5 bars       |                     |                 | 164                 | 328         | 141         | 265             | 233             | 2418         | 2500        |             |               |                   |            |  |  |
| 4 bars       |                     |                 | 149                 | 298         | 119         | 215             | 189             | 1858         | 2000        |             |               |                   |            |  |  |
|              | NRS 30 XT 036       | 36              | 6,2 bars            | 140         | 280         | 219             | 423             | 372          | 3208        | 3100        | 576,1         | 101,6             | 14,4       |  |  |
| 5 bars       |                     |                 | 127                 | 253         | 182         | 343             | 302             | 2418         | 2500        |             |               |                   |            |  |  |
| 4 bars       |                     |                 | 115                 | 231         | 154         | 278             | 244             | 1858         | 2000        |             |               |                   |            |  |  |
|              | NRS 30 XT 046       | 46              | 6,2 bars            | 108         | 217         | 283             | 547             | 482          | 3208        | 3100        | 576,1         | 101,6             | 14,4       |  |  |
| 5 bars       |                     |                 | 98                  | 196         | 236         | 444             | 391             | 2418         | 2500        |             |               |                   |            |  |  |
| 4 bars       |                     |                 | 89                  | 178         | 199         | 359             | 316             | 1858         | 2000        |             |               |                   |            |  |  |
|              | NRS 30 XT 054       | 54              | 6,2 bars            | 92          | 184         | 334             | 646             | 569          | 3208        | 3100        | 576,1         | 101,6             | 14,4       |  |  |
| 5 bars       |                     |                 | 83                  | 166         | 278         | 524             | 461             | 2418         | 2500        |             |               |                   |            |  |  |
| 4 bars       |                     |                 | 76                  | 151         | 235         | 424             | 373             | 1858         | 2000        |             |               |                   |            |  |  |
|              | NRS 30 XT 070       | 70              | 6,2 bars            | 71          | 142         | 432             | 836             | 736          | 3208        | 3100        | 576,1         | 101,6             | 14,4       |  |  |
| 5 bars       |                     |                 | 64                  | 128         | 360         | 678             | 597             | 2418         | 2500        |             |               |                   |            |  |  |
| 4 bars       |                     |                 | 58                  | 117         | 304         | 549             | 483             | 1858         | 2000        |             |               |                   |            |  |  |
|              | NRS 30 RV           |                 |                     |             |             |                 |                 |              |             |             |               |                   |            |  |  |
|              | Air motor reference | Reduction ratio | Air supply pressure |             | Speed (rpm) |                 |                 | Torque (N.m) |             |             | Max Power (W) | Air cons (Nl/min) | Dimensions |  |  |
| @ max Power  |                     |                 | Free                | @ max Power | Max (stall) | Starting torque | A (mm)          | Ø (mm)       | Weight (kg) |             |               |                   |            |  |  |
|              | NRS 30 RV 007       | 7               | 6,2 bars            | 526         | 1052        | 46              | 78              | 59           | 2509        | 3000        | 587           | 101,6             | 14,8       |  |  |
| 5 bars       |                     |                 | 484                 | 967         | 39          | 66              | 50              | 1976         | 2400        |             |               |                   |            |  |  |
| 4 bars       |                     |                 | 440                 | 880         | 32          | 55              | 41              | 1481         | 1900        |             |               |                   |            |  |  |
|              | NRS 30 RV 010       | 10              | 6,2 bars            | 406         | 813         | 59              | 101             | 76           | 2509        | 3000        | 587           | 101,6             | 14,8       |  |  |
| 5 bars       |                     |                 | 374                 | 748         | 50          | 86              | 64              | 1976         | 2400        |             |               |                   |            |  |  |
| 4 bars       |                     |                 | 340                 | 680         | 42          | 71              | 53              | 1481         | 1900        |             |               |                   |            |  |  |
|              | NRS 30 RV 015       | 15              | 6,2 bars            | 266         | 532         | 90              | 154             | 116          | 2509        | 3000        | 587           | 101,6             | 14,8       |  |  |
| 5 bars       |                     |                 | 245                 | 490         | 77          | 131             | 98              | 1976         | 2400        |             |               |                   |            |  |  |
| 4 bars       |                     |                 | 223                 | 445         | 64          | 108             | 81              | 1481         | 1900        |             |               |                   |            |  |  |
|              | NRS 30 RV 021       | 21              | 6,2 bars            | 186         | 372         | 129             | 221             | 166          | 2509        | 3000        | 587           | 101,6             | 14,8       |  |  |
| 5 bars       |                     |                 | 171                 | 342         | 110         | 188             | 141             | 1976         | 2400        |             |               |                   |            |  |  |
| 4 bars       |                     |                 | 155                 | 311         | 91          | 154             | 116             | 1481         | 1900        |             |               |                   |            |  |  |
|              | NRS 30 RV 028       | 28              | 6,2 bars            | 142         | 284         | 169             | 289             | 217          | 2509        | 3000        | 587           | 101,6             | 14,8       |  |  |
| 5 bars       |                     |                 | 130                 | 261         | 145         | 246             | 185             | 1976         | 2400        |             |               |                   |            |  |  |
| 4 bars       |                     |                 | 119                 | 237         | 119         | 202             | 152             | 1481         | 1900        |             |               |                   |            |  |  |
|              | NRS 30 RV 036       | 36              | 6,2 bars            | 110         | 219         | 219             | 375             | 281          | 2509        | 3000        | 587           | 101,6             | 14,8       |  |  |
| 5 bars       |                     |                 | 101                 | 202         | 187         | 319             | 239             | 1976         | 2400        |             |               |                   |            |  |  |
| 4 bars       |                     |                 | 92                  | 183         | 154         | 262             | 196             | 1481         | 1900        |             |               |                   |            |  |  |
|              | NRS 30 RV 046       | 46              | 6,2 bars            | 85          | 169         | 283             | 485             | 363          | 2509        | 3000        | 587           | 101,6             | 14,8       |  |  |
| 5 bars       |                     |                 | 78                  | 156         | 242         | 413             | 309             | 1976         | 2400        |             |               |                   |            |  |  |
| 4 bars       |                     |                 | 71                  | 142         | 200         | 339             | 254             | 1481         | 1900        |             |               |                   |            |  |  |
|              | NRS 30 RV 054       | 54              | 6,2 bars            | 72          | 144         | 334             | 572             | 429          | 2509        | 3000        | 587           | 101,6             | 14,8       |  |  |
| 5 bars       |                     |                 | 66                  | 132         | 286         | 487             | 365             | 1976         | 2400        |             |               |                   |            |  |  |
| 4 bars       |                     |                 | 60                  | 120         | 236         | 400             | 300             | 1481         | 1900        |             |               |                   |            |  |  |
|              | NRS 30 RV 070       | 70              | 6,2 bars            | 55          | 111         | 432             | 740             | 555          | 2509        | 3000        | 587           | 101,6             | 14,8       |  |  |
| 5 bars       |                     |                 | 51                  | 102         | 370         | 630             | 473             | 1976         | 2400        |             |               |                   |            |  |  |
| 4 bars       |                     |                 | 46                  | 93          | 305         | 518             | 388             | 1481         | 1900        |             |               |                   |            |  |  |

For connection and lubrication, see page 145

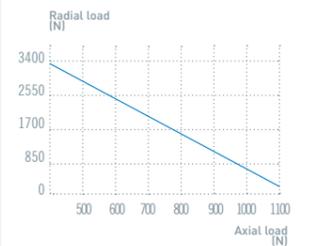
Data indicated in this table have an accuracy of +/- 5%

### POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS

#### NRS 30 XT

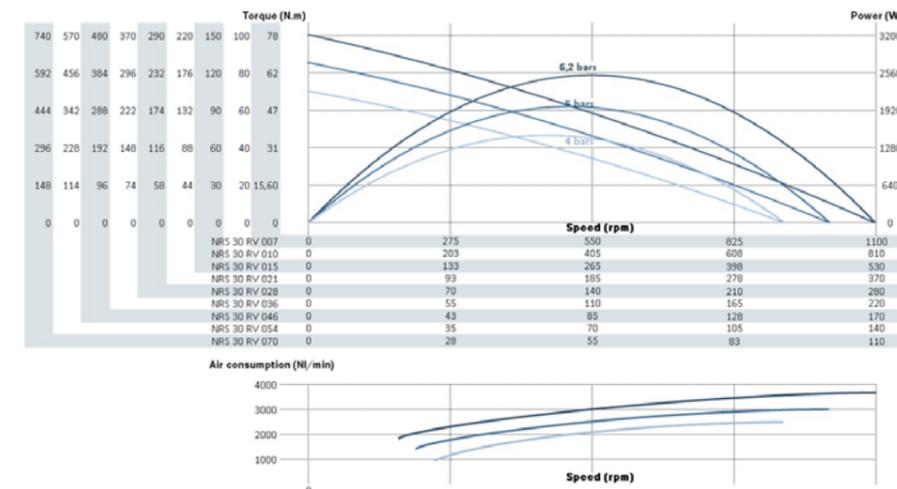


### MAXIMUM RADIAL & AXIAL LOAD



for 100 millions revolutions (load applied @ half shaft length)

#### NRS 30 RV



### NOTES

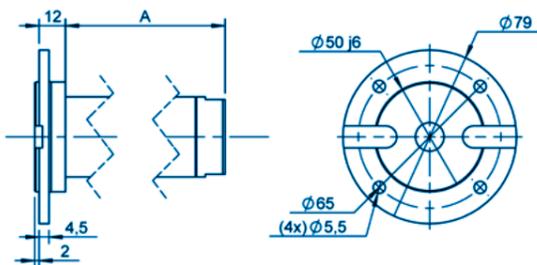
# FLANGES & SHAFTS

Coupling the motor on your machine is as critical as choosing the right motor ! With Modec, no need to modify your machine to make it compliant with the motor. We offer a wide choice of flanges and shafts so that you can find the ones that match your need. In case you don't find the right one, we can design and manufacture specific flanges and shafts on request.

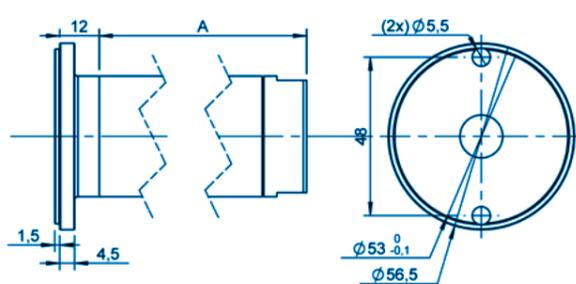
## FLANGES & SHAFTS GROUP I

MTE 05 MTS 05

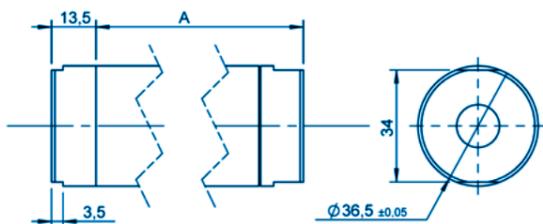
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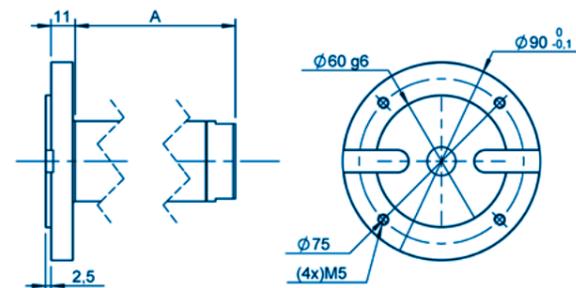
### GROUP I FLANGE B



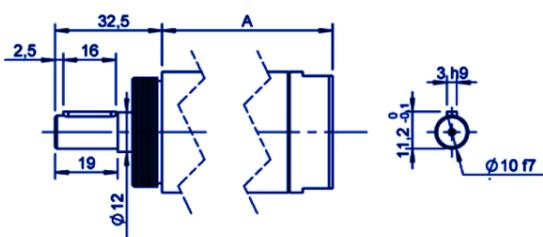
### GROUP I FLANGE P



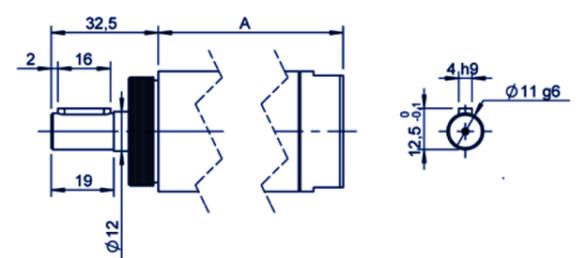
### GROUP I FLANGE S - IEC63B14



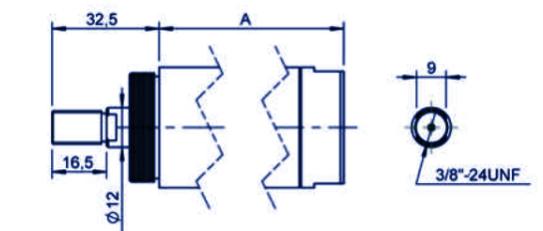
### GROUP I SHAFT CL1 - KEYED Ø10



### GROUP I SHAFT CL2 - KEYED Ø11 - IEC63B14



### GROUP I SHAFT FI1 - THREADED 3/8" 24UNF



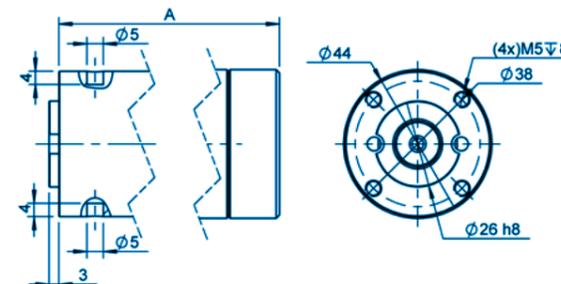
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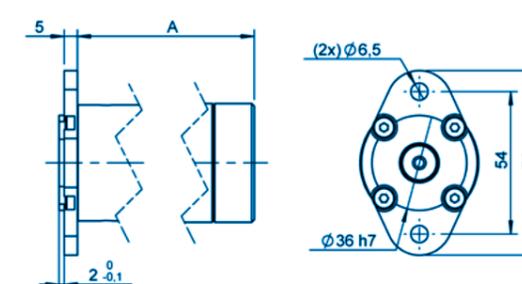
## FLANGES & SHAFTS GROUP II (1/2)

MTE 07 MTS 07

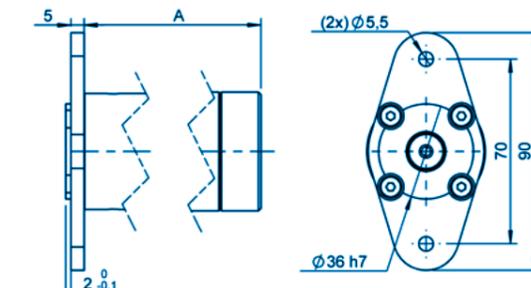
### GROUP II FLANGE AA



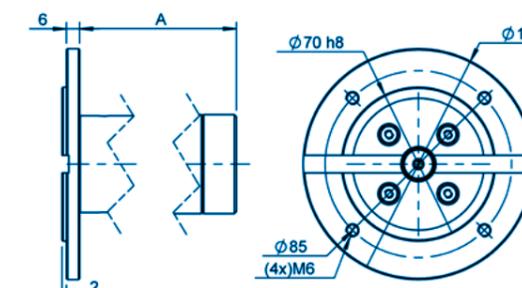
### GROUP II FLANGE AB



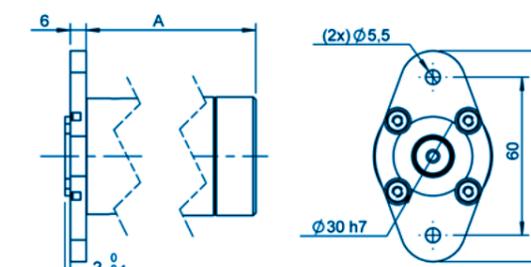
### GROUP II FLANGE AC



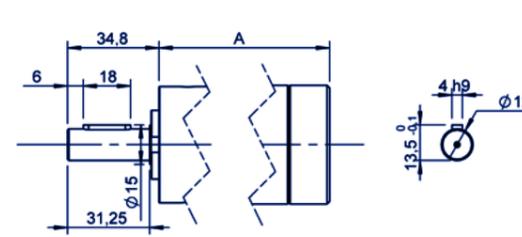
### GROUP II FLANGE AD - IEC 71B14



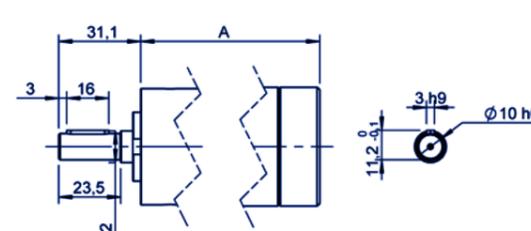
### GROUP II FLANGE AE



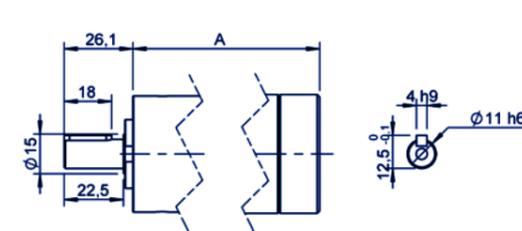
### GROUP II SHAFT 001 - KEYED Ø12



### GROUP II SHAFT 004 - KEYED Ø10



### GROUP II SHAFT 006 - KEYED Ø11

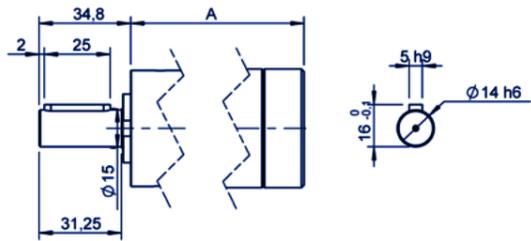


SHAFTS **GROUP II** (2/2)

MTE 07

MTS 07

**GROUP II** SHAFT S01 - KEYED Ø14 - IEC 71B14



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FLANGES & SHAFTS **GROUP III**

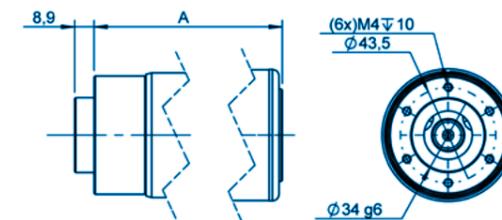
XTE 08

XTE 10

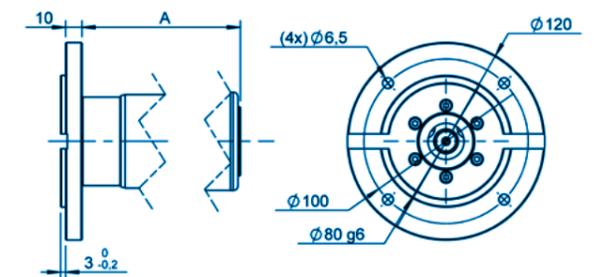
XTE 20

XTE 25

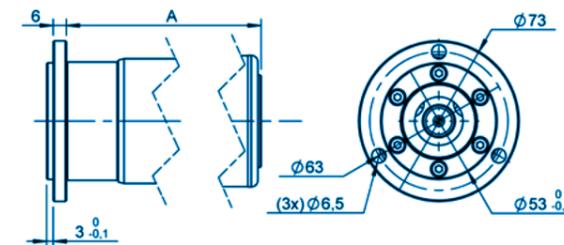
**GROUP III** FLANGE AA



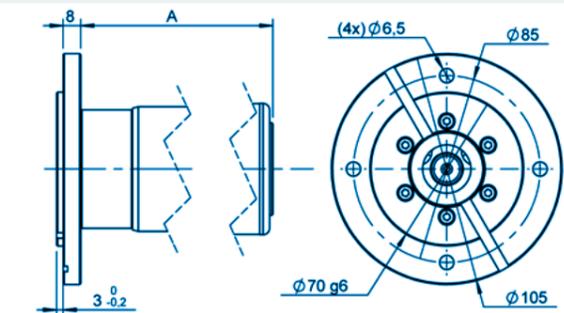
**GROUP III** FLANGE AB - IEC 80B14



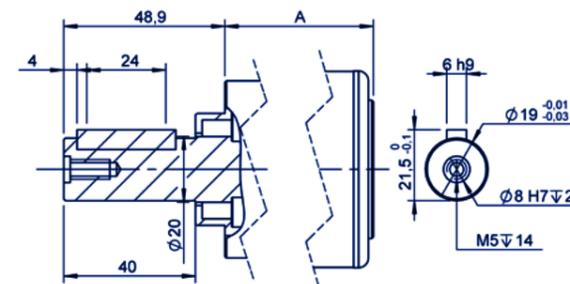
**GROUP III** FLANGE B



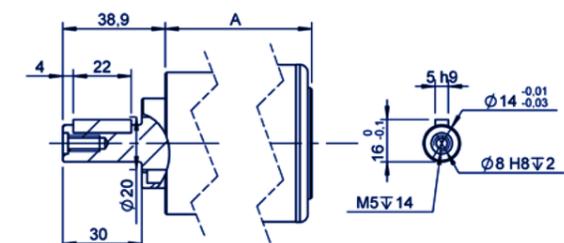
**GROUP III** FLANGE FJ - IEC 71B14



**GROUP III** SHAFT 001 - KEYED Ø19 - IEC 80B14



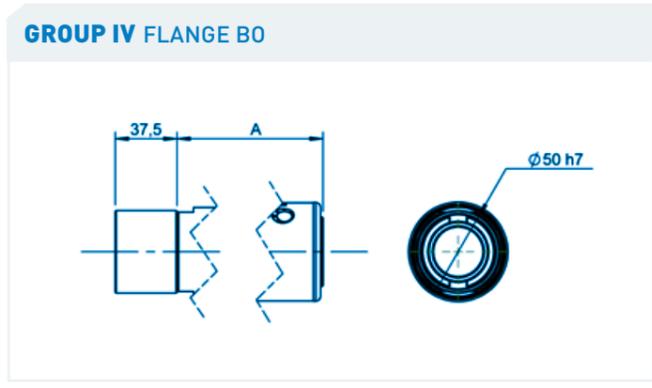
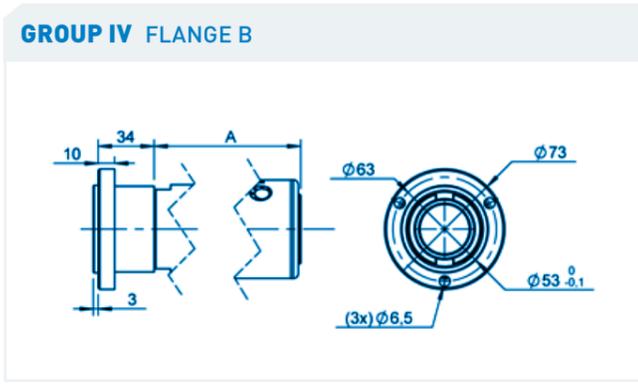
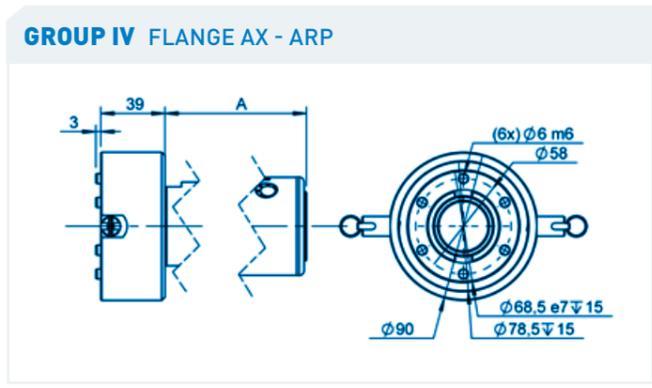
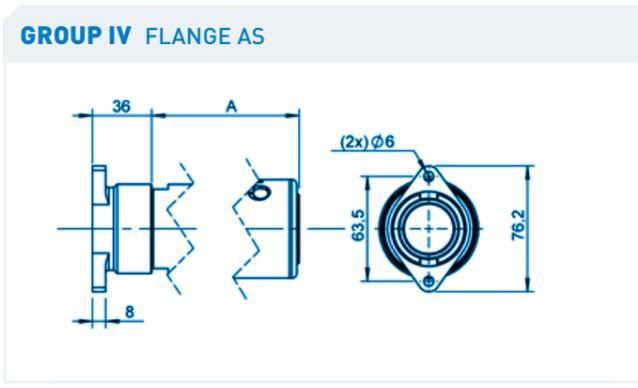
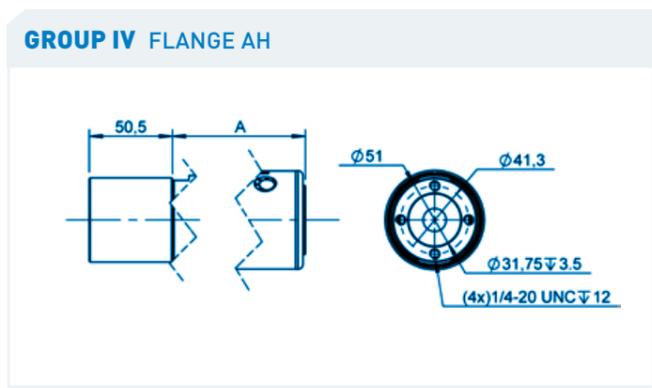
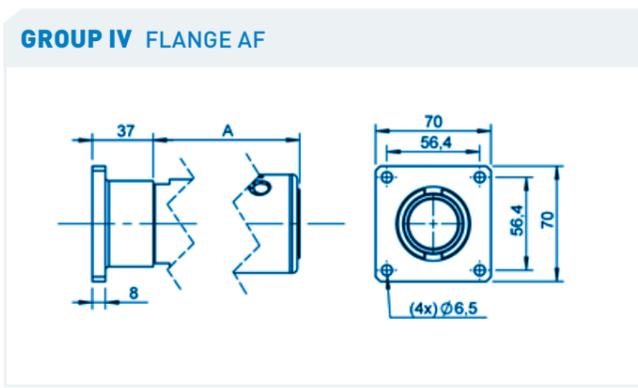
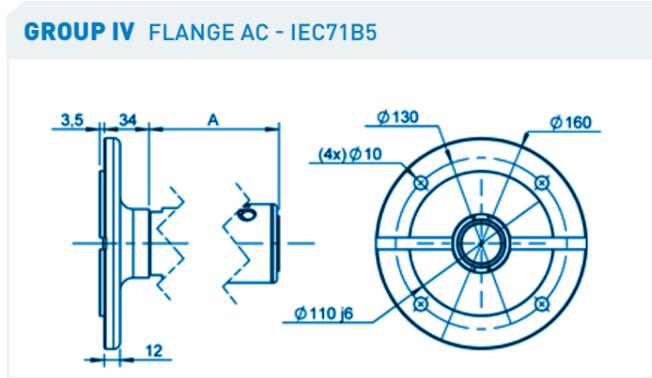
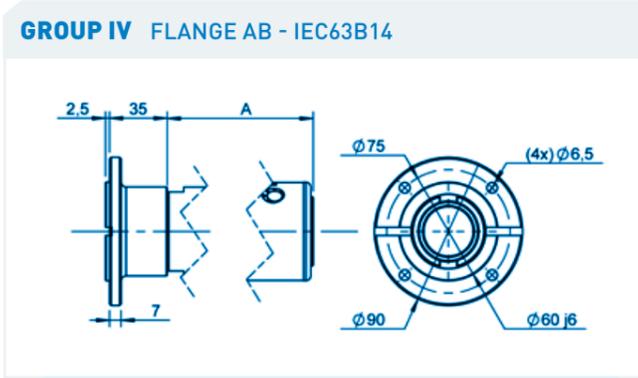
**GROUP III** SHAFT C25 - KEYED Ø14 - IEC 71B14



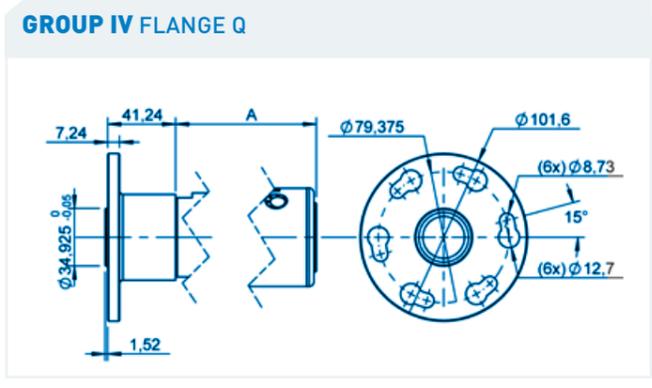
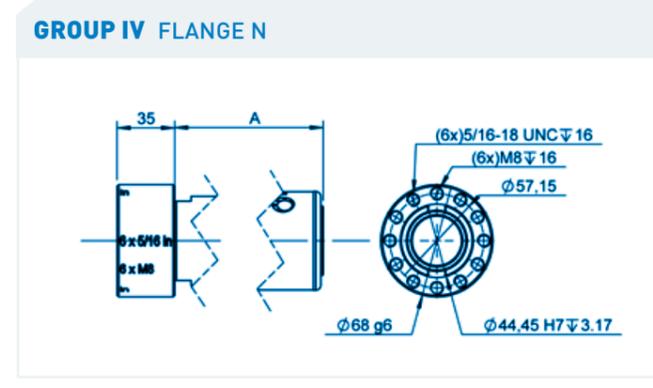
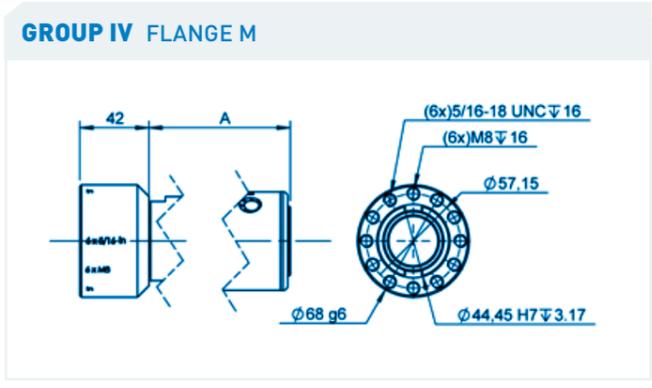
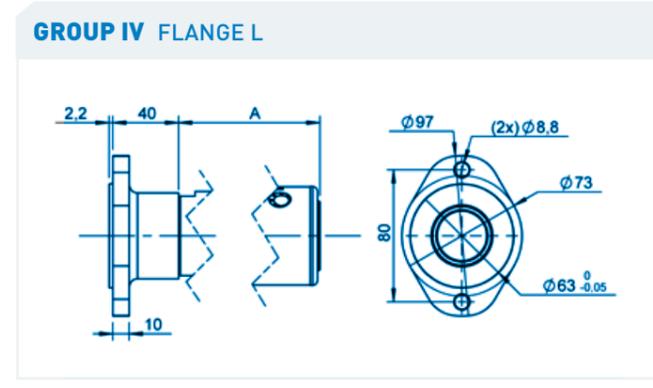
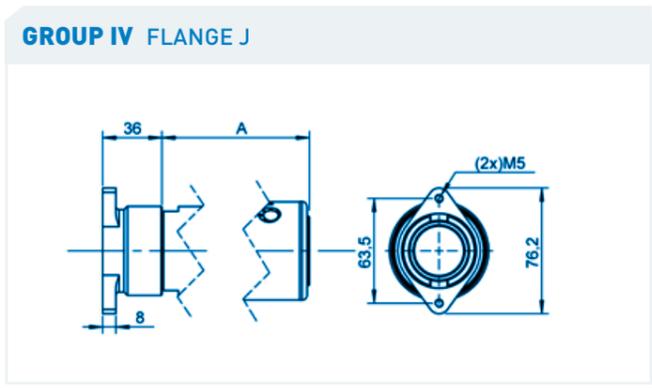
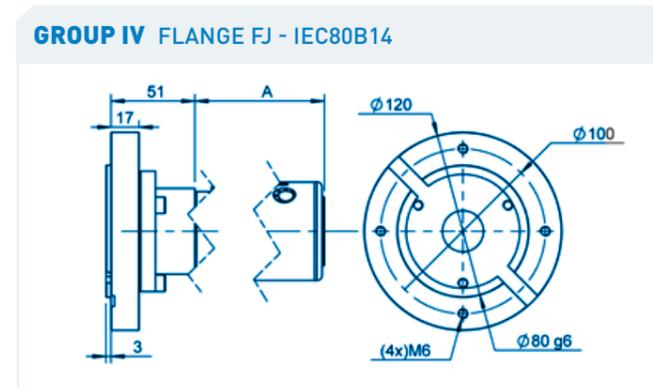
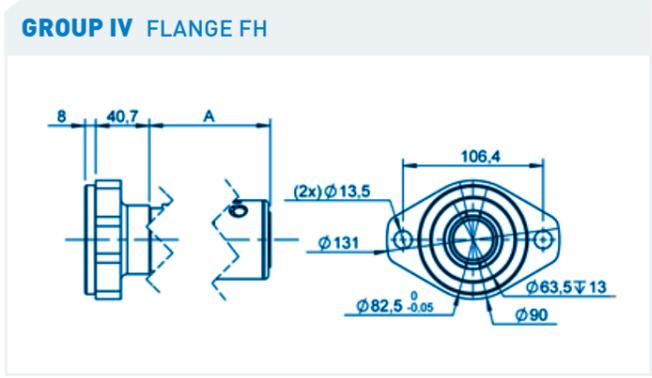
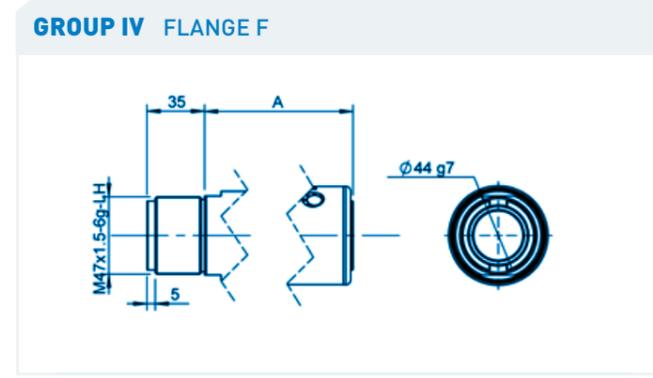
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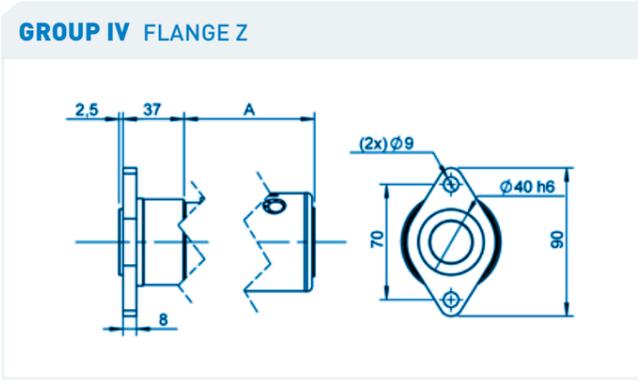
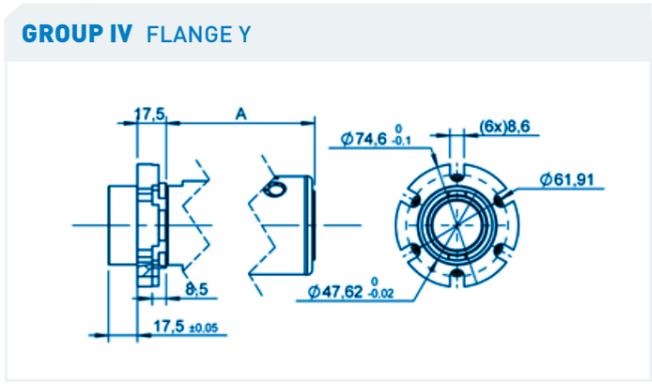
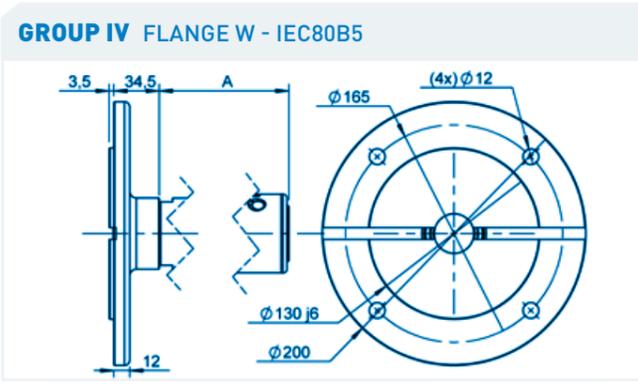
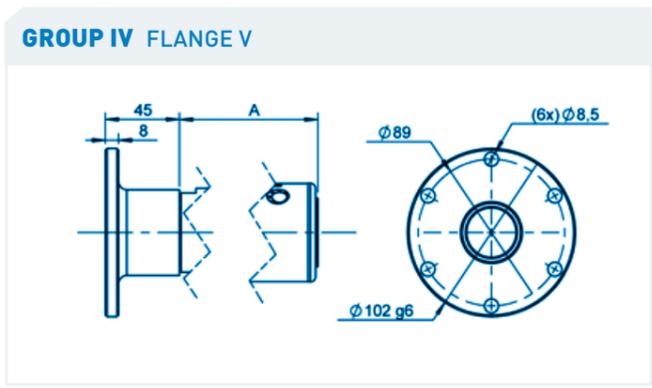
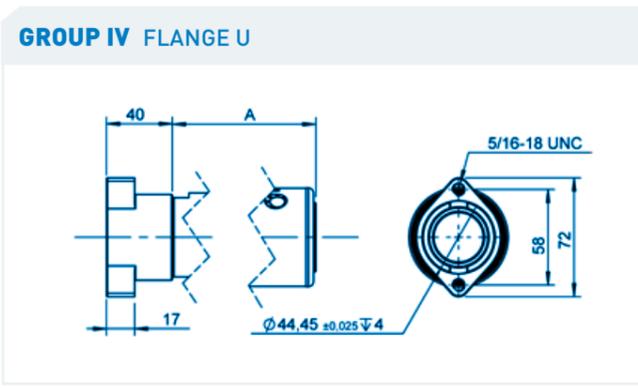
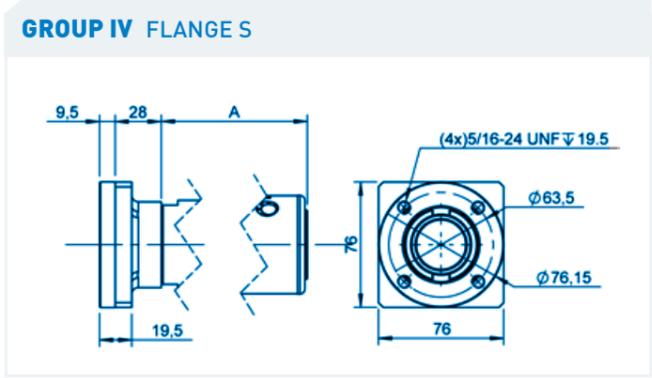
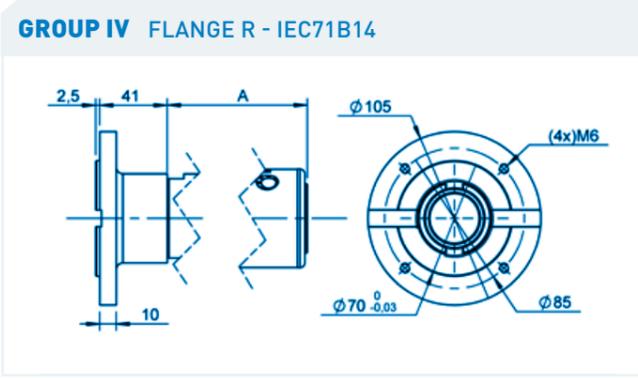
FLANGES **GROUP IV** (1/3) XTH 05 XTH 07 XTS 08 XTH 08 XTS 10 XTH 10 XTS 20 XTS 25



FLANGES **GROUP IV** (2/3) XTH 05 XTH 07 XTS 08 XTH 08 XTS 10 XTH 10 XTS 20 XTS 25

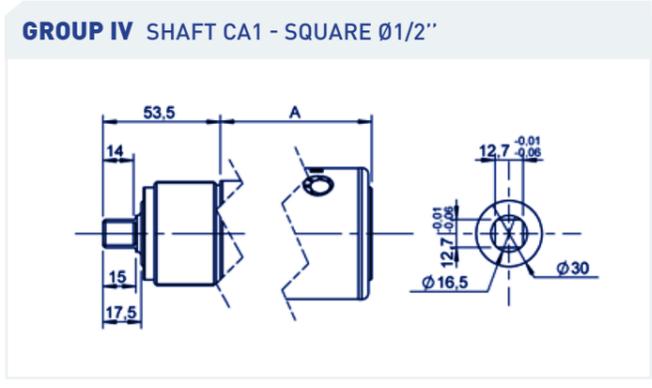
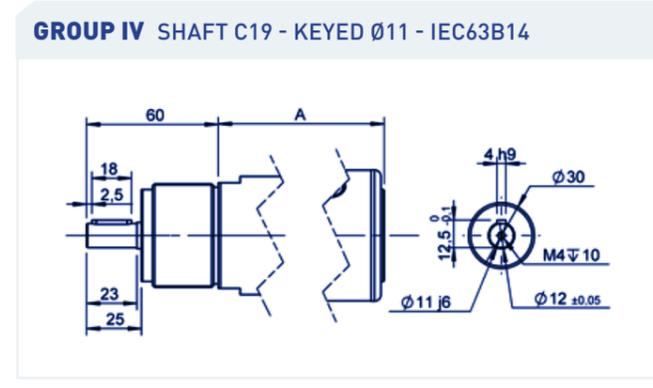
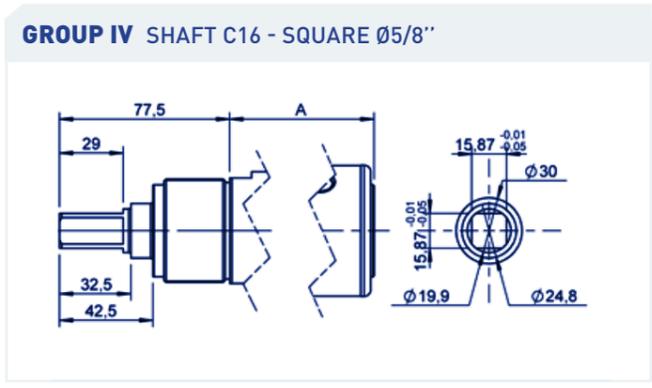
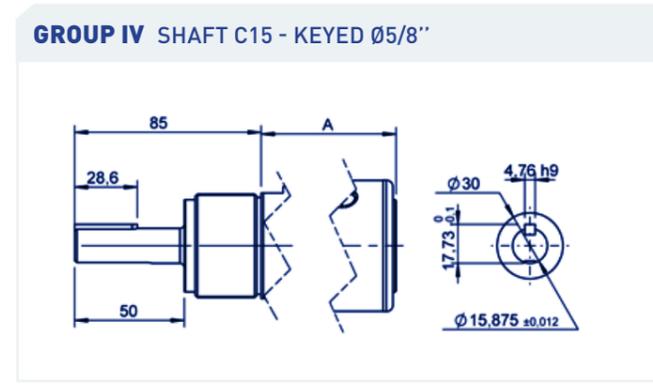
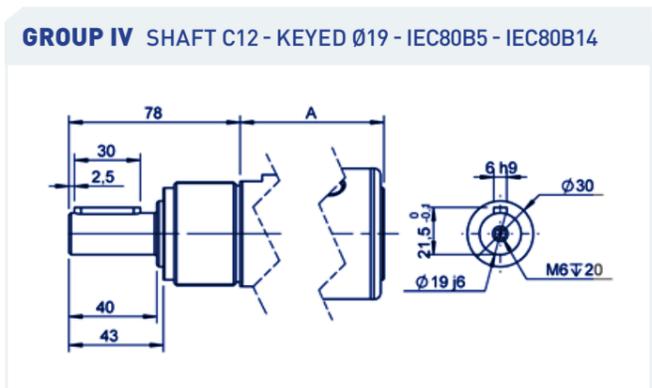
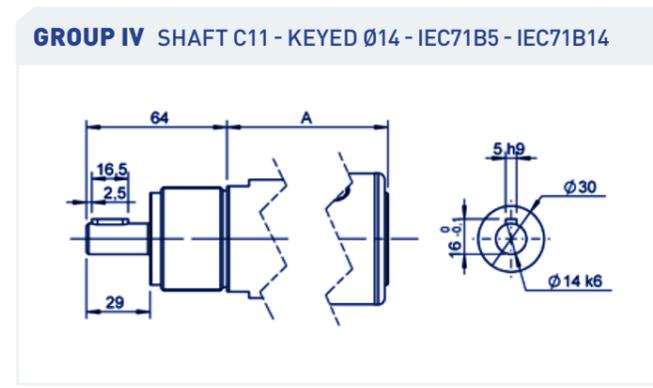
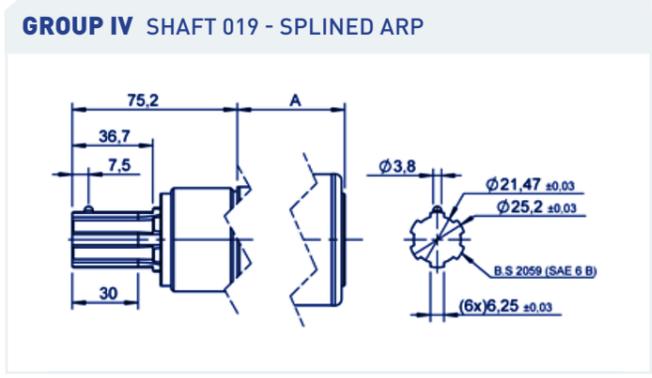
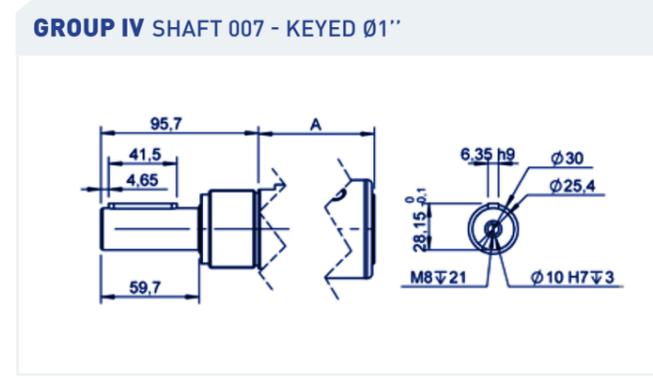


FLANGES **GROUP IV** (3/3) XTH 05 XTH 07 XTS 08 XTH 08 XTS 10 XTH 10 XTS 20 XTS 25

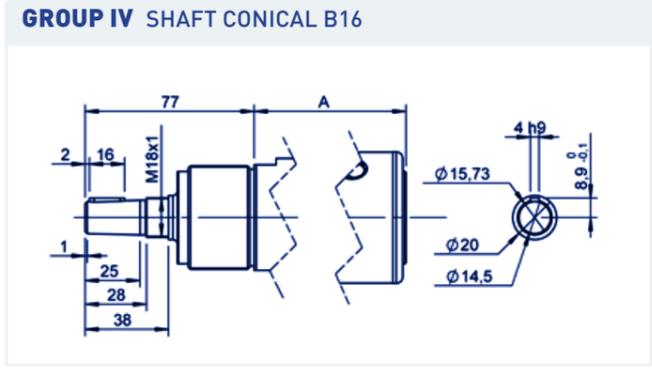
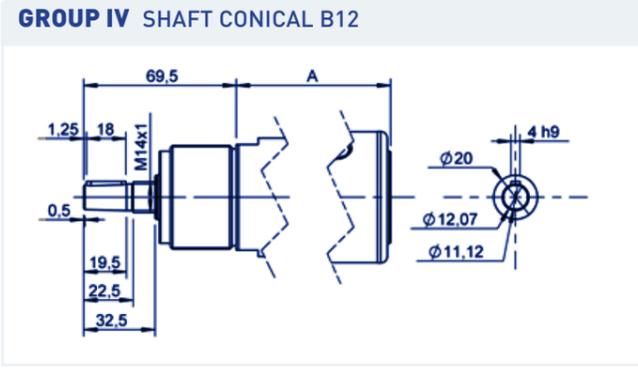
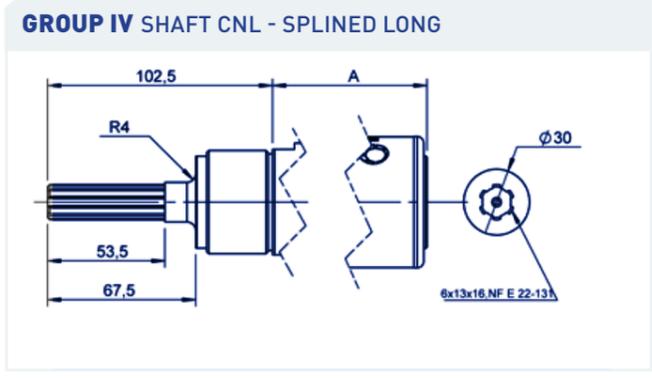
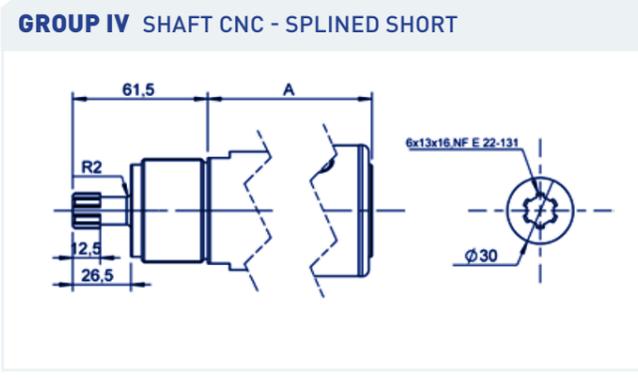
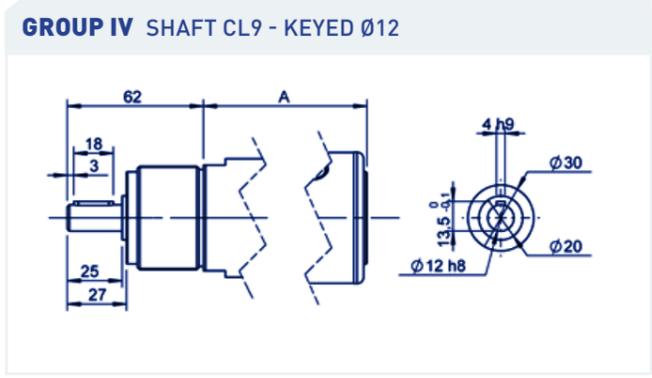
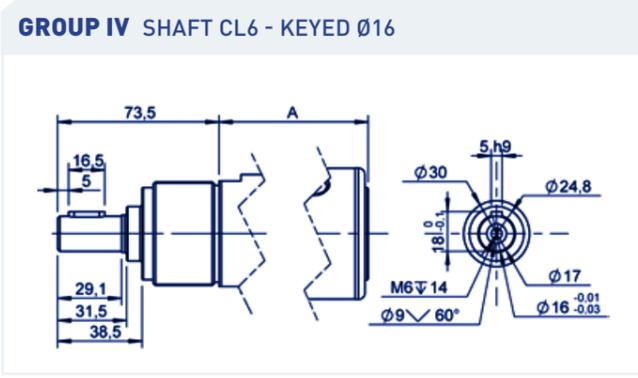
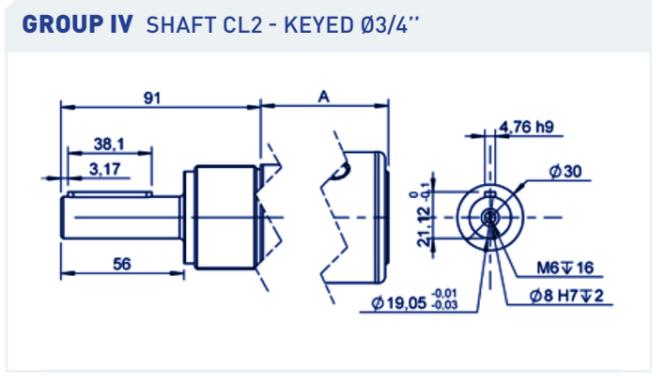
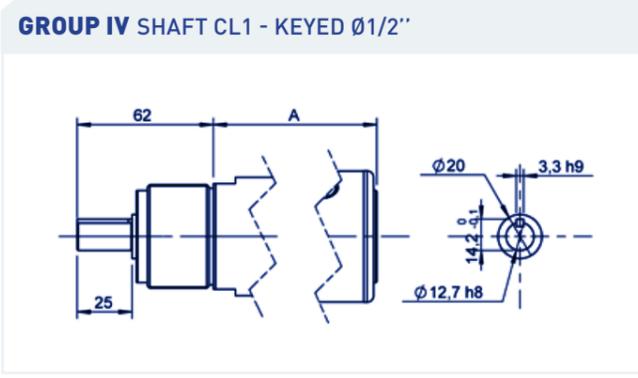


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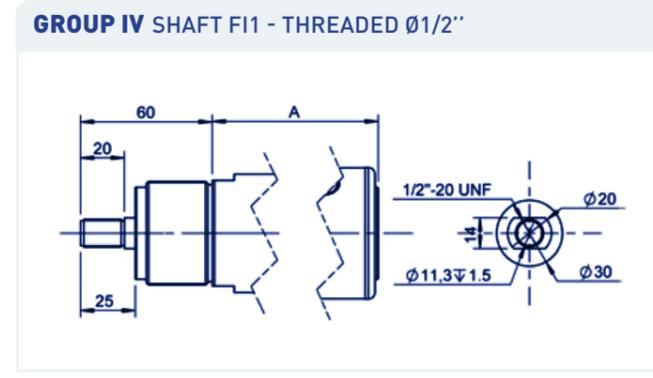
SHAFTS **GROUP IV** (1/3) XTH 05 XTH 07 XTS 08 XTH 08 XTS 10 XTH 10 XTS 20 XTS 25



SHAFTS **GROUP IV** (2/3) XTH 05 XTH 07 XTS 08 XTH 08 XTS 10 XTH 10 XTS 20 XTS 25



SHAFTS **GROUP IV** (3/3) XTH 05 XTH 07 XTS 08 XTH 08 XTS 10 XTH 10 XTS 20 XTS 25

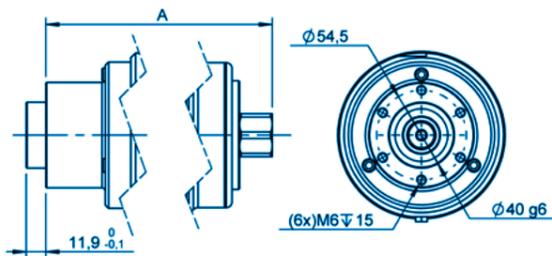


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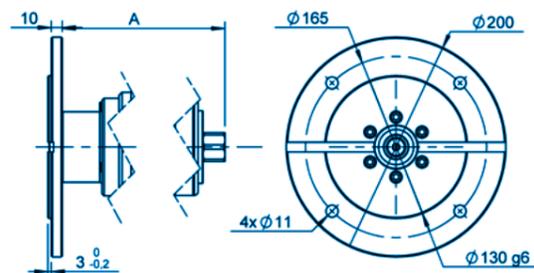
FLANGES & SHAFTS **GROUP V**

XTE 30

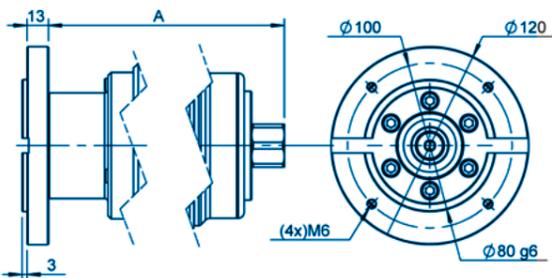
**GROUP V** FLANGE AA



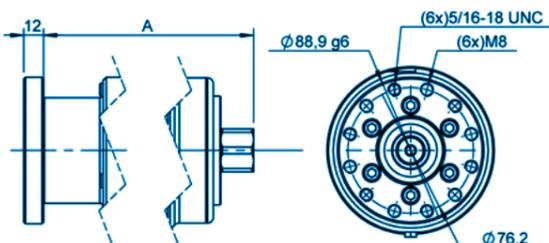
**GROUP V** FLANGE AB - IEC 80B5 - IEC 90B5



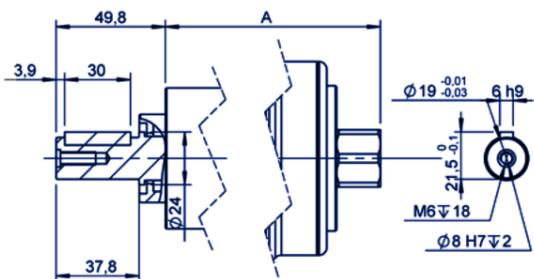
**GROUP V** FLANGE AC - IEC 80B14



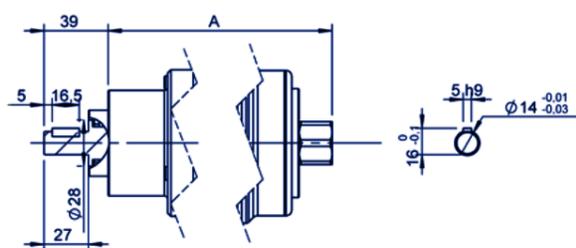
**GROUP V** FLANGE B



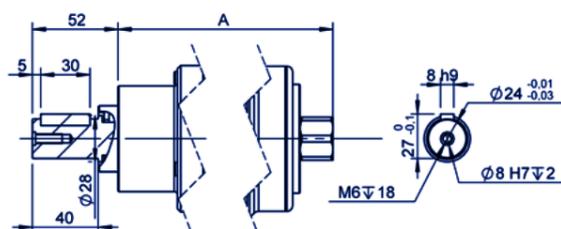
**GROUP V** SHAFT 001 - KEYED Ø19 - IEC 80B14 - IEC80B5



**GROUP V** SHAFT 002 - KEYED Ø14



**GROUP V** SHAFT CL6 - KEYED Ø24 - IEC 90B5



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FLANGES **GROUP VI**

XTZ 08

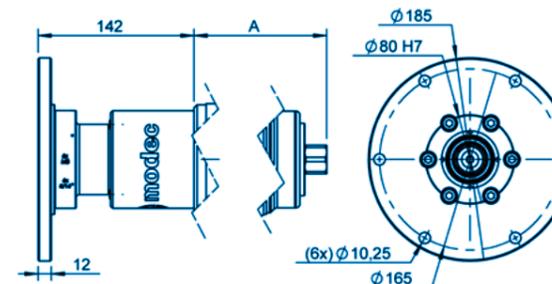
XTZ 10

XTZ 20

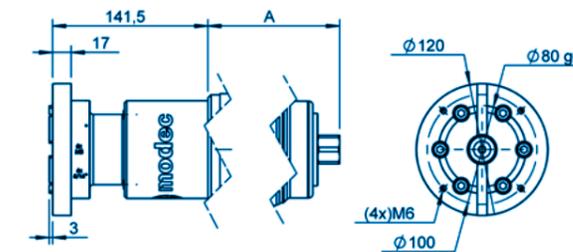
XTZ 25

XTS 30

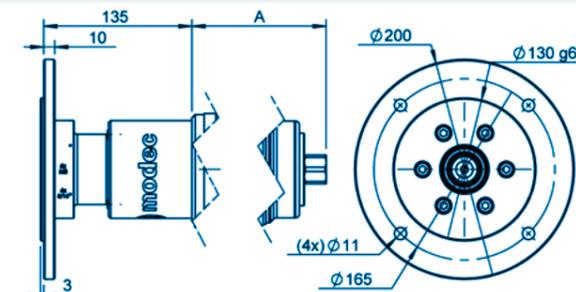
**GROUP VI** FLANGE AA



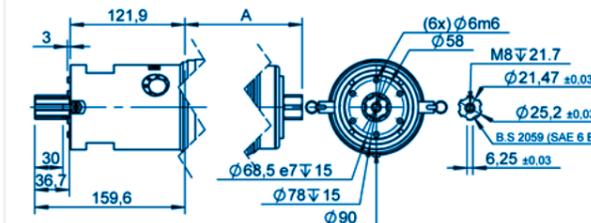
**GROUP VI** FLANGE AB - IEC80B14



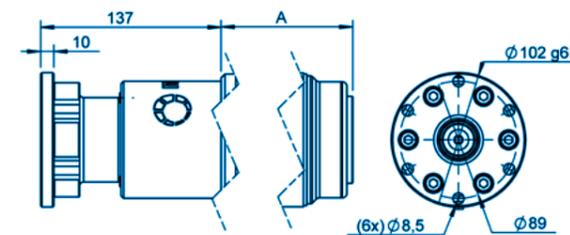
**GROUP VI** FLANGE AG - IEC80B5



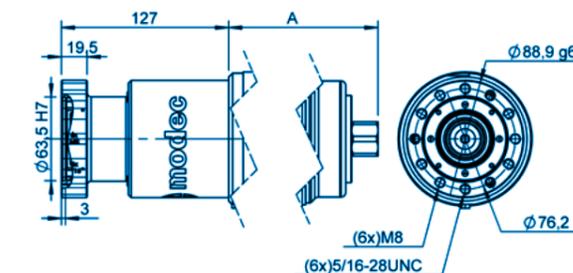
**GROUP VI** FLANGE AI WITH SHAFT CNW



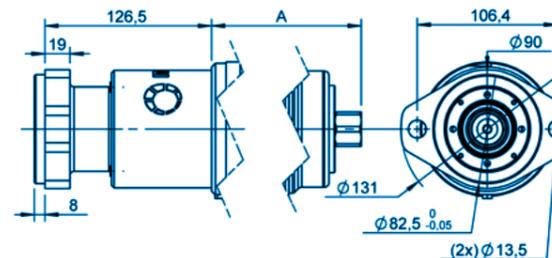
**GROUP VI** FLANGE AL



**GROUP VI** FLANGE B



**GROUP VI** FLANGE H



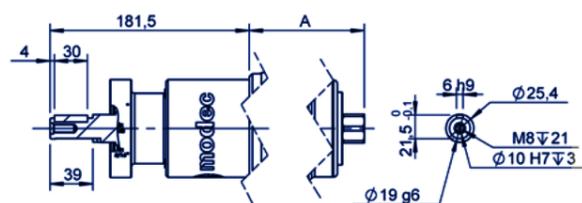
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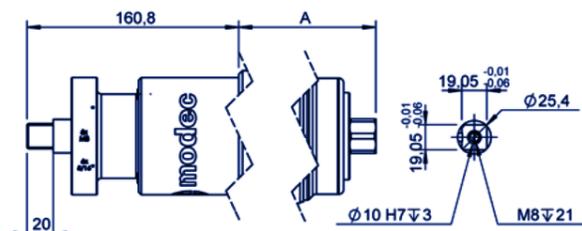
SHAFTS **GROUP VI**

- XTZ 08 XTZ 10 XTZ 20 XTZ 25 XTS 30

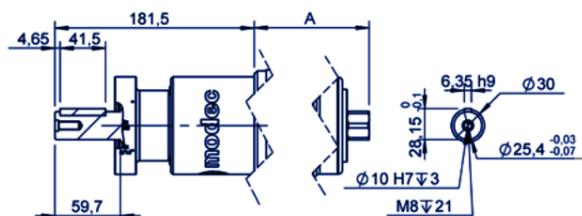
**GROUP VI** SHAFT 003 - KEYED  $\varnothing 19$  - IEC 80B14 - IEC 80B5



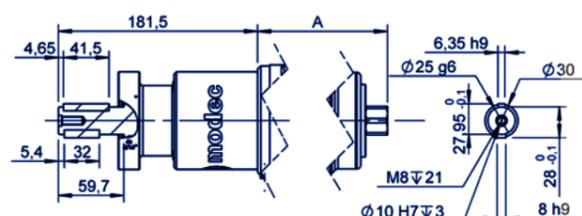
**GROUP VI** SHAFT CA1 - SQUARE 3/4"



**GROUP VI** SHAFT CL2 - KEYED  $\varnothing 1$ "



**GROUP VI** SHAFT CL4 - KEYED  $\varnothing 25$



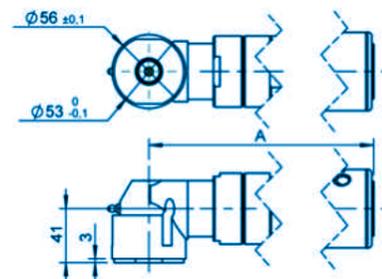
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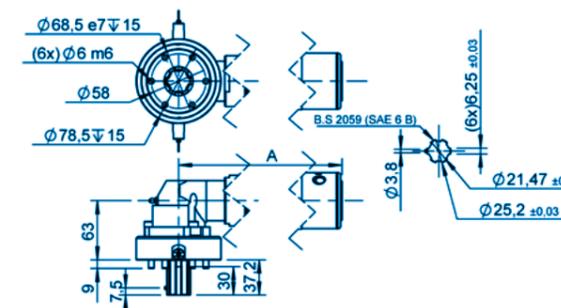
FLANGES **GROUP VII**

- XRH 05 XRH 07 XRS 08 XRS 10 XRS 20 XRS 25

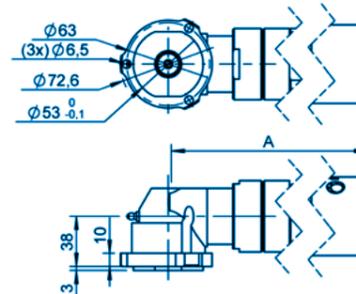
**GROUP VII** FLANGE AF



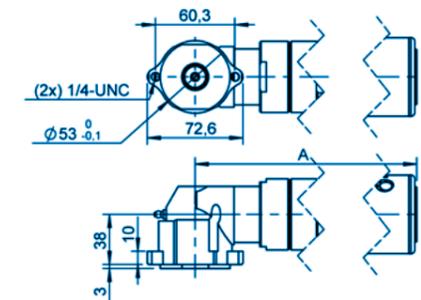
**GROUP VII** FLANGE AG WITH SHAFT 013



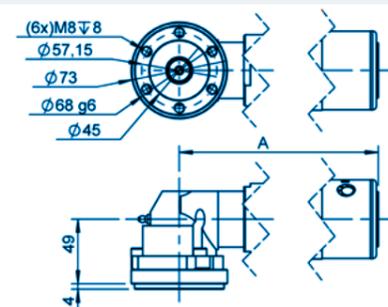
**GROUP VII** FLANGE B



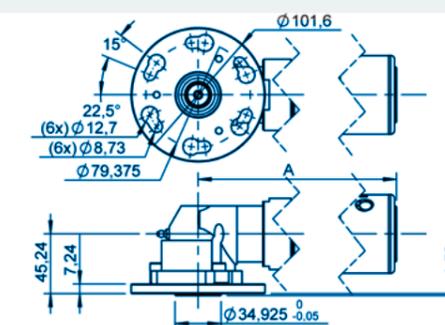
**GROUP VII** FLANGE E



**GROUP VII** FLANGE M



**GROUP VII** FLANGE Q



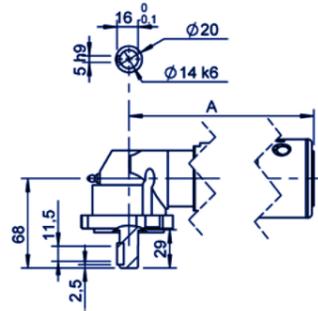
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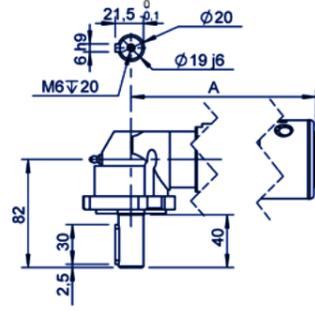
SHAFTS **GROUP VII** (1/2)

- XRH 05
XRH 07
XRS 08
XRS 10
XRS 20
XRS 25

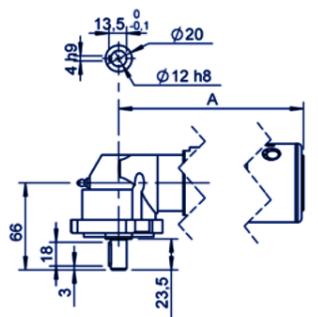
**GROUP VII** SHAFT 021 - KEYED Ø14



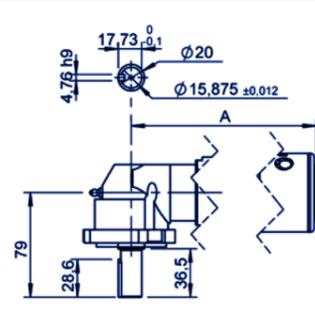
**GROUP VII** SHAFT C12 - KEYED Ø19



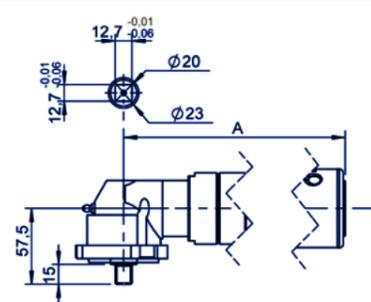
**GROUP VII** SHAFT C13 - KEYED Ø12



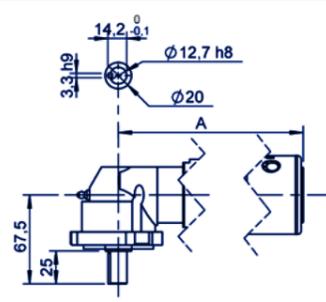
**GROUP VII** SHAFT C14 - KEYED Ø5/8"



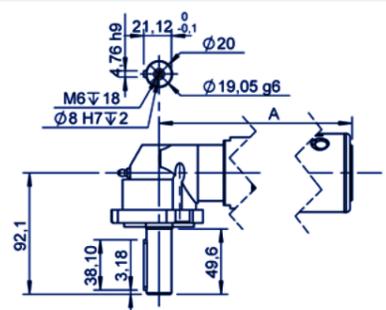
**GROUP VII** SHAFT CA1 - SQUARE 1/2"



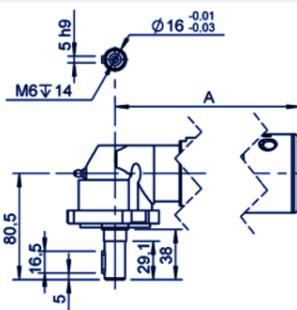
**GROUP VII** SHAFT CL1 - KEYED Ø1/2"



**GROUP VII** SHAFT CL2 - KEYED Ø3/4"



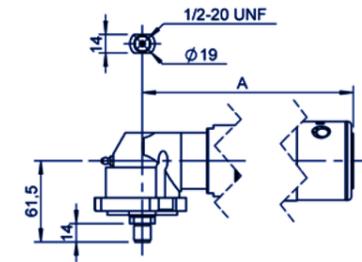
**GROUP VII** SHAFT CL6 - KEYED Ø16



SHAFTS **GROUP VII** (2/2)

- XRH 05
XRH 07
XRS 08
XRS 10
XRS 20
XRS 25

**GROUP VII** SHAFT FI1 - THREADED Ø1/2"



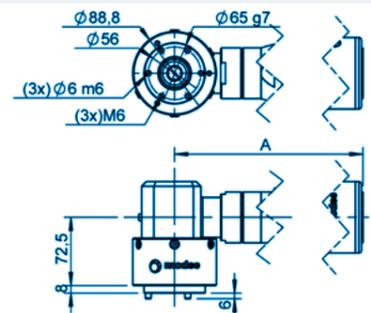
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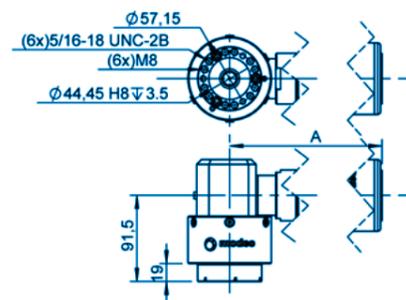
FLANGES **GROUP VIII**

- XRZ 05 XRZ 07 XRH 08 XRH 10 XRH 20 XRH 25

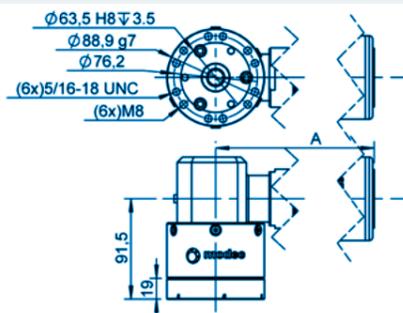
**GROUP VIII** FLANGE AA



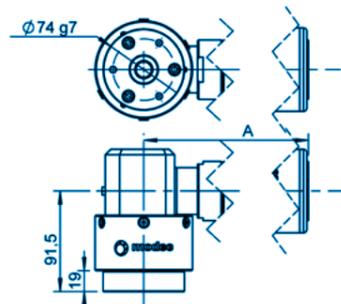
**GROUP VIII** FLANGE AB



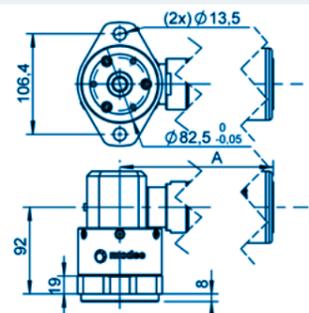
**GROUP VIII** FLANGE AC



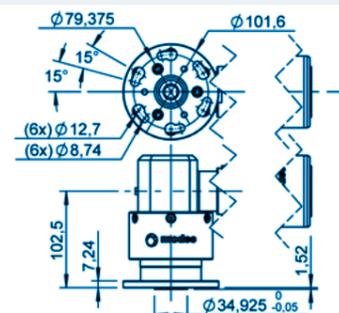
**GROUP VIII** FLANGE AD



**GROUP VIII** FLANGE AE



**GROUP VIII** FLANGE Q



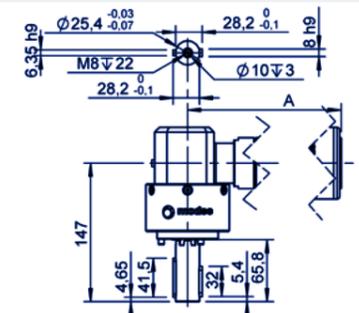
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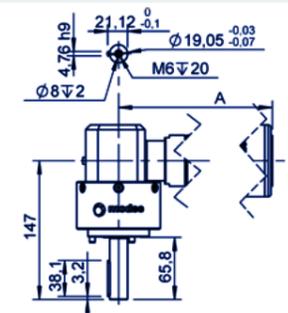
SHAFTS **GROUP VIII**

- XRZ 05 XRZ 07 XRH 08 XRH 10 XRH 20 XRH 25

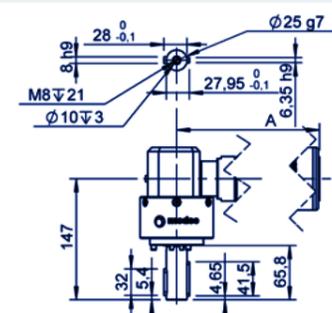
**GROUP VIII** SHAFT 001 - KEYED Ø1"



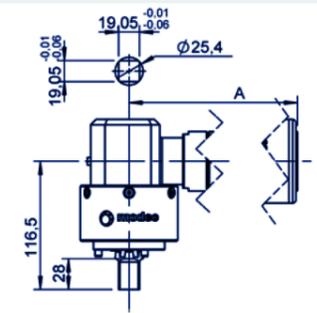
**GROUP VIII** SHAFT 002 - KEYED Ø3/4"



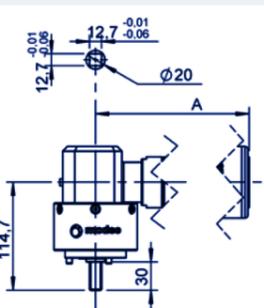
**GROUP VIII** SHAFT 003 - KEYED Ø25



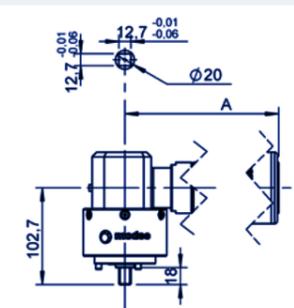
**GROUP VIII** SHAFT 004 - SQUARE 3/4"



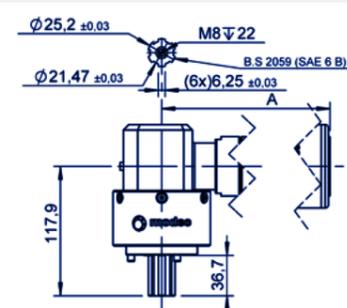
**GROUP VIII** SHAFT 005 - SQUARE 1/2" LONG



**GROUP VIII** SHAFT CA1 - SQUARE 1/2" SHORT



**GROUP VIII** SHAFT CNW - SPLINED



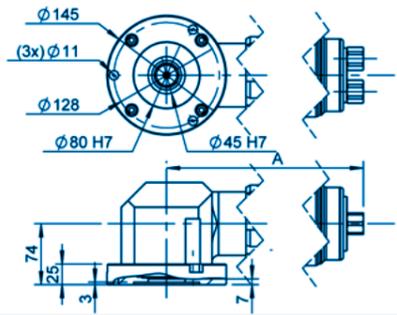
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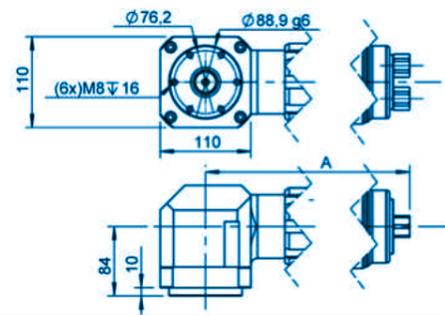
FLANGES & SHAFTS **GROUP IX**

- XRZ 08
- XRZ 10
- XRZ 20
- XRZ 25
- XRS 30

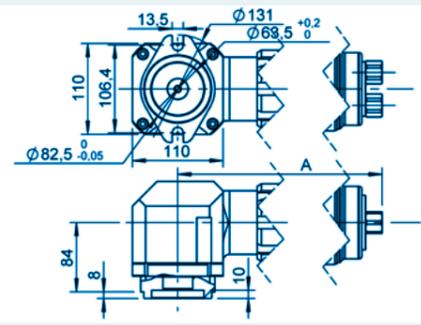
**GROUP IX** FLANGE A



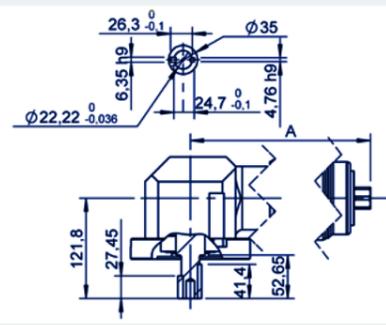
**GROUP IX** FLANGE B



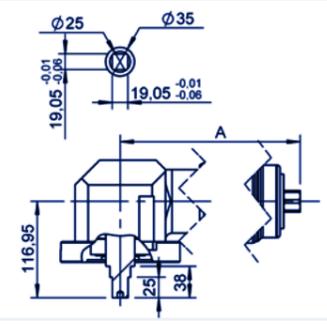
**GROUP IX** FLANGE H



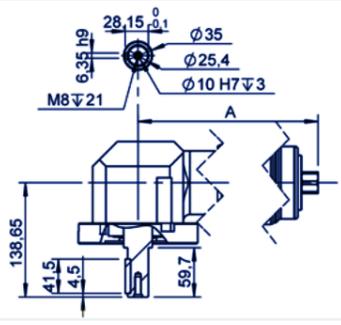
**GROUP IX** SHAFT 001 - KEYED 07/8"



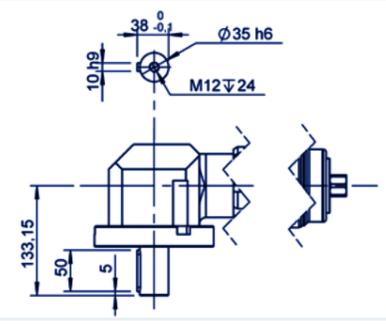
**GROUP IX** SHAFT 003 - KEYED 03/4"



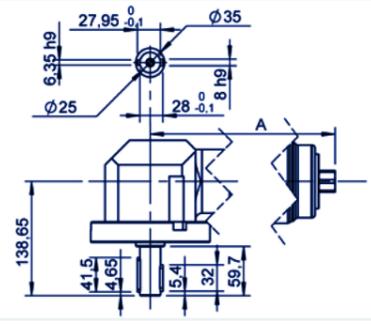
**GROUP IX** SHAFT CL2 - KEYED 01"



**GROUP IX** SHAFT CL3 - KEYED 035



**GROUP IX** SHAFT CL4 - KEYED 025



You didn't find  
your match ?  
  
Contact us !

# OPTIONS & ACCESSORIES

Modec offers a complete range of options and accessories required for an optimal performance of air motors and solutions.

**Options** are built into motors during manufacturing :

- Exhaust collectors
- ATEX certification
- Left/Right trigger (for reversible air motors only)
- « No lube kit » for oil free motors
- « Kit start » to ensure immediate start of the motor, even in difficult conditions
- Integrated speed control
- Stainless steel casing

Options are identified with the two last digits of the commercial reference. You will find on each product file a table indicating available options.

### OPTIONS AVAILABLE FOR THIS MOTOR

|                    | 01 | 02 | 03 | 09 | 10 | 11 | 12 | 13 | 14 |
|--------------------|----|----|----|----|----|----|----|----|----|
| Collected exhaust  | ▶  |    |    | ▶  | ▶  | ▶  |    |    |    |
| ATEX certification |    | ▶  |    |    |    |    |    |    |    |
| Left/Right switch* |    |    | ▶  |    |    |    |    | ▶  |    |
| Lubrication free   |    |    |    | ▶  |    |    |    | ▶  |    |
| Kit start          |    |    |    |    | ▶  |    |    |    | ▶  |
| Speed control**    |    |    |    |    |    |    |    |    | ▶  |
| Inox               |    |    |    |    |    | ▶  |    |    |    |
| Code               |    |    |    |    |    |    |    |    |    |

\* Reversible motors only \*\* Non reversible motors only

**Accessories** are complementary to motors and enable an optimal functioning of the complete system :

- Filtration, Regulation & Lubrication units (FRL)
- Safety Air Treatment Boxes (SAT Box)
- Air supply lubrication oil
- Motor control handles
- Filters & silencers
- Airflow controllers
- Motors maintenance kits
- Exhaust collector kits

## OPTIONS EXHAUST COLLECTORS

Exhaust collectors are to be mounted on the 10, 20, 25 & 30 series (other series air motors are always collected). They enable to collect exhaust in order to drive it towards a filter or silencer, or simply to bring it away from the working place.

Using an exhaust collector with a silencer may slightly reduce performance (30 series) or significantly increase it (10 and 20 series). See table p.181.

It will also increase the motor maximum diameter (see an example below for the "10" series).



| Series | Diameter (mm) | Connection |
|--------|---------------|------------|
| 10     | 87            | G3/4       |
| 20     | 103           | G3/4       |
| 25     | 120           | G3/4       |
| 30     | 130           | G3/4       |

Exhaust collectors can also be assembled on motors after manufacturing, as accessories (see chapter "Accessories" hereafter).

## ATEX CERTIFICATION

All modec air motors can be certified ATEX on request.

See chapter 7. Certifications in the General information section (page 18)



ATEX II 2 G D  
Ex h IIC T6...T4 Gb  
Ex h IIC T80°C...T135 Db

## LEFT/RIGHT TRIGGER

Available for reversible air motors only, this option allows to control the rotation direction directly on the motor with a simple trigger. No need for 5/3 distribution valve and separate air supply hoses. Very convenient for motors installed on machines where a manual rotation change is required.



## LUBRICATION FREE

Oil free motors are specially designed to work without adding oil in the air supply. This can be required in specific applications (clean rooms for example).

In that case, air quality, dryness and cleanness is even more critical to a good functioning and lifespan of the motor. One shall use adequate filtering units and check filters regularly. No lube air motors should not be used unloaded at free speed.

When motors are not in use, make sure that they are stored in a dry, clean and ventilated environment.

## « KIT START »

This option is typically required for applications where the motor is not frequently used and where it is important that motors will start immediately even after a long idle period. The kit start ensures that the vanes will always be out of the rotor notches and consequently that the motor will immediately start up when air comes in.



## STAINLESS STEEL MOTORS

Available for most of our models, that option increases our motors robustness and resistance to wet and corrosive environments.

## INTEGRATED SPEED CONTROL

The integrated speed control system enables to adjust the output shaft rotation speed simply by rotating the exhaust silencer. No need for external air flow regulator, it is a simple and efficient way to control speed. Available for « 10 » and « 20 » series non reversible air motors.



## ACCESSORIES FILTERING, PRESSURE REGULATION AND LUBRICATION UNITS (FRL)

The Filtering, pressure Regulation and Lubrication unit (FRL) is a mandatory element for a good air motor functioning, performance, service life and control. It ensures fluid (compressed air or inert gas) filtering, drying and lubrication so that the motor will be fed with a « clean » gas. It also controls the motor performances through air pressure.

The FRL unit should be installed less than 5 m upstream from the motor and should be properly dimensioned so that the flow is consistent with the motor's consumption. Make sure that pipes and fittings are also large enough for the airflow required.

modec offers a complete range of compact and sturdy FRL, adapted to industrial environment and easy to connect.

Self-relieving regulator. Lubrication with selective oil fog. Metal bowl with polypropylene oil level viewing window. Automatic oil refilling pressurized system

Recommended oil type : MODEC CO-16 oil (see hereafter)



| Reference              | AC106              | AC107              | AC108               |
|------------------------|--------------------|--------------------|---------------------|
| Max inlet pressure     | 16 bars            | 16 bars            | 16 bars             |
| Pressure gauge         | 0 / 10 bars        | 0 / 10 bars        | 0 / 10 bars         |
| Controlled pressure    | 0,5 / 8 bars       | 0,5 / 8 bars       | 0,5 / 8 bars        |
| Ambient temperature    | -10°C/ +50°C       | -10°C/ +50°C       | -10°C/ +50°C        |
| Oil bowl capacity      | 40 cm <sup>3</sup> | 80 cm <sup>3</sup> | 181 cm <sup>3</sup> |
| Filtration             | 5 µm               | 5 µm               | 5 µm                |
| Purge system           | Semi-auto          | Semi-auto          | Semi-auto           |
| Connection             | G ½                | G ½                | G ¾                 |
| Dimensions (A x B x C) | 240 x 145 x 100 mm | 271 x 167 x 112 mm | 342 x 210 x 142 mm  |
| Weight (empty)         | 1,5 kg             | 2,9 kg             | 3,85 kg             |

## SAFETY AIR TREATMENT BOX (SAT BOX)

### Safety

The Safety Air Treatment Box (SAT Box) is a safety device designed to protect people & material against damages and accidents. Placed upstream from the pneumatic actuators (motors, pistons or any portable pneumatic tools) the SAT Box provides numerous important safety features:

- Emergency kill switch
- Key safety lock (optional)
- Downstream automatic air-bleed
- Automatic switch off when air pressure drop is detected



As soon as the emergency kill switch is hit, the SAT Box ensures an instantaneous air bleed in the downstream circuit so that no residual energy may create an accidental motion after the stop.

In case air pressure drops below 2 bars, the SAT Box automatically shuts off and bleeds downstream circuit. One needs to press the "start" button again to restart flow. This prevents any unexpected start in case one person stops and restarts the compressor without information to the user.

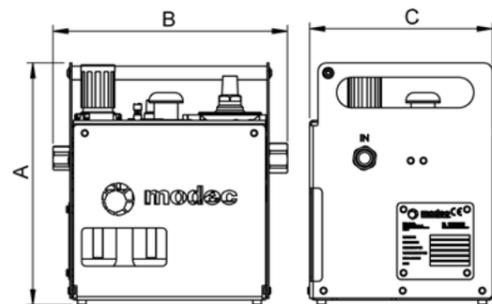
All these safety features are energized by air pressure, without any other source of energy required. This makes it possible to have it ATEX certified on request.

### Air treatment

The SAT Box also contains a FRL unit (Filtration, pressure Regulation and Filtration). Refer to the FRL description above.

### Easy control

The SAT Box can be equipped as an option with several remote control devices for an easy and efficient use (pedal, handle or emergency kill switch placed close to the operator).



All components are protected with a stable and sturdy metallic box designed for a heavy duty workshops and worksites use.

| Reference                    | AC118                | AC126                |
|------------------------------|----------------------|----------------------|
| Motors series                | 05, 07, 08, 10, 20   | 25, 30               |
| FRL type                     | AC107                | AC108                |
| Emergency kill switch        | Yes                  | Yes                  |
| Automatic air bleed          | Yes                  | Yes                  |
| Pressure gauge               | 0-10 bars            | 0-10 bars            |
| Filtration                   | 5 µm                 | 5 µm                 |
| Oil bowl capacity            | 80 cm <sup>3</sup>   | 181 cm <sup>3</sup>  |
| Controlled pressure          | 2 - 8 bars           | 2 - 8 bars           |
| Ambient temperature          | -10°C/+50°C          | -10°C/+50°C          |
| Connection                   | In G 1/2 - Out G 3/4 | In G 3/4 - Out G 3/4 |
| Dimensions (mm) A x B x C    | 277 x 216 x 286 mm   | 304 x 216 x 348 mm   |
| Weight (empty)               | 7.6 kg               | 11,7 kg              |
| Option :                     |                      |                      |
| Pedal remote control         | AC119                | AC127                |
| Handle remote control        | AC120                | AC128                |
| Remote Emergency Kill Switch | AC125                | AC129                |
| Remote pedal and EKS         | AC121                | AC130                |
| Remote Handle and EKS        | AC122                | AC131                |



## PNEUMATIC OIL modec CO-16

Lubricating oil specially selected for modec air motors and actuators

### Synthetic oil

|                             |                        |
|-----------------------------|------------------------|
| Kinematic viscosity at 40°C | : 22cSt                |
| Viscosity index             | : 145                  |
| Voluminal mass              | : 824kg/m <sup>3</sup> |
| Flash point                 | : +210°C               |
| Pour point                  | : -55°C                |
| Temperature of use          | : -55°C/130°C          |
| Reference                   | : AC149                |

## MOTOR CONTROL HANDLES



### Safety handles

Safety handles change your motor into a portable tool with a manual "on/off" control. It guarantees operator's safety thanks to a specific trigger that prevents any accidental start, and an automatic return system that ensures a complete stop of the air flow as soon as the handle is released.

This handle exist in different models depending on the motor it is designed for (power, reversible or non-reversible). It is delivered with the interface parts required for an easy assembly to the motor.



### Progressive control handle

The progressive control handle enables an efficient, ergonomic and safe control of the motor air supply, and consequently of the motor speed. It is particularly suited to applications requiring constant speed control and adaptation.

**Safe** : The progressive control handle shuts off automatically as soon as the operator releases it.

**Ergonomic** : It works like a motorbike throttle grip, it is intuitive and smooth.

**Versatile** : It can be assembled on the "08", "10", "20", "25" & "30" series, with or without safety handle.



### Left / Right switch

This simple "Left / Right" (or "CCW / CW") lever placed in the back of the motor allows a direct rotation direction control. No need for pipes, fittings and 5/3 distribution valve anymore.

| Series                        | Safety handles | Progressive control handles | Left / Right switch |
|-------------------------------|----------------|-----------------------------|---------------------|
| 08 XT                         | AC415          | AC417                       | N/A                 |
| 08 RV                         | AC416          | AC418                       | AC429               |
| 10 XT                         | AC406          | AC400                       | N/A                 |
| 10 RV                         | AC404          | AC408                       | AC430               |
| 20 XT                         | AC406          | AC400                       | N/A                 |
| 20 RV                         | AC403          | AC409                       | AC431               |
| 25 XT                         | AC412          | AC407                       | N/A                 |
| 25 RV                         | AC414          | AC410                       | AC432               |
| 30 XT                         | AC412          | AC407                       | N/A                 |
| 30 RV                         | AC414          | AC410                       | AC432               |
| Assembly on a safety handle   | N/A            | AC400                       | N/A                 |
| SAT Box remote control handle | AC405          | N/A                         | N/A                 |

## FILTERS & SILENCERS

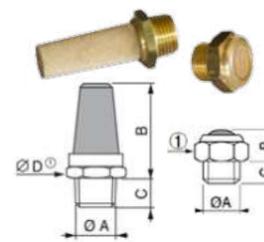
### 1. STANDARD EXHAUST SILENCERS

Extremely compact, these metallic or plastic silencers significantly reduce exhaust noise with a minimal impact on the motor overall size.

They also prevent any external parts or impurities from getting inside the motor through exhaust vent.

**IMPORTANT** : Make sure that the silencer maximum acceptable flow is consistent with the maximal air output flow of the motor in order to avoid impact on the motor performances (torque & speed).

#### METALLIC SILENCERS



| Reference                    | AC169                | AC168           | AC180           | AC181           | AC164            | AC182            |
|------------------------------|----------------------|-----------------|-----------------|-----------------|------------------|------------------|
| Operating pressure           | 0 → 10 bars          |                 |                 |                 |                  |                  |
| Ambient temperature          | - 10°C → + 80°C      |                 |                 |                 |                  |                  |
| Connection (ØA)              | G 1/8                | G 1/8           | G 1/4           | G 3/8           | G 1/2            | G 3/4            |
| Dimensions (B x C x ØD) (mm) | 10 x 6 x 13          | 22,4 x 5,6 x 13 | 41.6 x 8.4 x 16 | 49,2 x 8,8 x 24 | 54.6 x 11.4 x 27 | 82.3 x 12.7 x 36 |
| Weight                       | 6 g                  | 10 g            | 30 g            | 30 g            | 70 g             | 300 g            |
| Suitable for motors          | Refer to table p.181 |                 |                 |                 |                  |                  |

Mini metallic silencer (AC169): Stainless steel body, Nickel plated brass connection piece.  
Other metallic silencers : Porous bronze body, brass connection piece.

#### PLASTIC SILENCERS



| Reference                    | AC166                | AC150       | AC183        | AC184        | AC152         | AC153         |
|------------------------------|----------------------|-------------|--------------|--------------|---------------|---------------|
| Operating pressure           | 0 → 10 bars          |             |              |              |               |               |
| Ambient temperature          | - 10°C → + 80°C      |             |              |              |               |               |
| Connection (ØA)              | G 1/8                | G 1/4       | G 3/8        | G 1/2        | G 3/4         | G 1           |
| Dimensions (B x C x ØD) (mm) | 27 x 6 x 13          | 34 x 7 x 15 | 55 x 11 x 18 | 62 x 12 x 23 | 113 x 16 x 38 | 141 x 20 x 48 |
| Weight                       | 2 g                  | 4 g         | 6 g          | 10 g         | 40 g          | 65 g          |
| Suitable for motors          | Refer to table p.181 |             |              |              |               |               |

Polyethylene body, technical polymer connection piece.

## OPTIONS & ACCESSORIES

### 2. HEAVY DUTY EXHAUST SILENCERS

These silencers softly exhaust air and disperse it over a 360° pattern. It won't clog up even in harsh environment. Made of a corrosion-resistant metal, it can withstand shock and continuous, heavy duty use under many conditions.



| Reference                    | AC167                         | AC154                         | AC155                         | AC158                         | AC156                         | AC157        |
|------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------|
| Operating pressure           | 0 → 14 bars                   |                               |                               |                               |                               |              |
| Ambient temperature          | - 20°C → + 110°C              |                               |                               |                               |                               |              |
| Connection                   | G <sup>1</sup> / <sub>8</sub> | G <sup>1</sup> / <sub>4</sub> | G <sup>3</sup> / <sub>8</sub> | G <sup>1</sup> / <sub>2</sub> | G <sup>3</sup> / <sub>4</sub> | G1           |
| Dimensions (A x B x ØC (mm)) | 35 x 31 x 11                  | 44 x 39 x 14                  | 57 x 51 x 18                  | 69 x 61 x 22                  | 80 x 71 x 27                  | 99 x 88 x 33 |
| Weight                       | 9 g                           | 23 g                          | 36 g                          | 68 g                          | 122 g                         | 227 g        |
| Suitable for motors          | Refer to table p.181          |                               |                               |                               |                               |              |

Zinc-plated steel dichromate body, brass sieve

### 3. HIGH FLOW EXHAUST MUFFLER

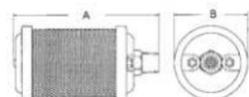
High flow exhaust muffler generate very minimal pressure drop while significantly reducing noise. They definitively are the best solution in terms of "Noise reduction / Pressure drop" ratio.

85% Noise Reduction

94% Flow Factor

Constructed with a unique expansion chamber, completely free of obstruction, exhaust air softly flows to the atmosphere without noise and oil fog, providing a clean, comfortable and productive work environment.

Composed entirely of corrosion-resistant material for long life and maintenance-free performance, units have a hex head, making it easy to attach to exhaust ports. They should be mounted in a protective position, free from excessive vibrations.



| Reference                | AC158                         | AC159                         | AC160    |
|--------------------------|-------------------------------|-------------------------------|----------|
| Operating pressure       | 0 → 10 bars                   |                               |          |
| Ambient temperature      | - 40°C → + 145°C              |                               |          |
| Connection               | G <sup>1</sup> / <sub>2</sub> | G <sup>3</sup> / <sub>4</sub> | G1       |
| Dimensions (A x ØB) (mm) | 152 x 80                      | 183 x 86                      | 222 x 98 |
| Weight                   | 340                           | 450 g                         | 590 g    |
| Suitable for motors      | Refer to table p.181          |                               |          |

### 4. EXHAUST FILTERS & SILENCERS

Designed to reduce both exhaust noise level and pollution by eliminating solid particles and oil aerosols, these silencers must be assembled in vertical position (slope : 15° max.).

Pressure drops due to clogging of cartridge must not exceed 0,5 bar, in which case replace cartridge.

Condensates are automatically drained once they exceed a given level. The drain may however be activated manually by turning the knurled switch (1/4 turn).



Aluminum housing and polypropylene (PP) bowl.  
Filter element : fibrous texture bonded by a plastic resin.  
Sealed by a rubber gasket.

| Reference                    | AC165                         | AC161                         | AC162          |
|------------------------------|-------------------------------|-------------------------------|----------------|
| Operating pressure           | 0 → 16 bars                   |                               |                |
| Ambient temperature          | - 5°C → + 50°C                |                               |                |
| Connection (ØG)              | G <sup>1</sup> / <sub>2</sub> | G <sup>3</sup> / <sub>4</sub> | G1             |
| Dimensions (A x B x ØC) (mm) | 12 x 180 x 90                 | 12 x 180 x 90                 | 15 x 250 x 110 |
| Weight                       | 600                           | 560 g                         | 1070 g         |
| Suitable for motors          | Refer to table p.181          |                               |                |

### 5. AIR MOTORS / SILENCERS CORRESPONDENCE TABLE AND POWER IMPACT

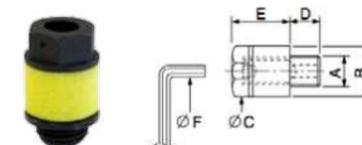
|                           | Size         | 05                   |                      | 07      |       | 08      |       | 10XT          |               | 10RV    |               | 20 XT   |               | 20 RV         |               | 25            |               | 30      |       |
|---------------------------|--------------|----------------------|----------------------|---------|-------|---------|-------|---------------|---------------|---------|---------------|---------|---------------|---------------|---------------|---------------|---------------|---------|-------|
|                           |              | Exhaust              | Inlet                | Exhaust | Inlet | Exhaust | Inlet | Exhaust       | Inlet         | Exhaust | Inlet         | Exhaust | Inlet         | Exhaust       | Inlet         | Exhaust       | Inlet         | Exhaust | Inlet |
| Plastic                   | Reference    | AC166                | AC166                | AC150   | AC166 | AC183   | AC150 | AC152         | AC152         | AC183   | AC239 + AC153 | AC183   | AC239 + AC153 | AC151         |               |               |               |         |       |
|                           | Power impact | -14%                 |                      | -10%    |       | -10%    |       | 0             |               | 0       | 15%           |         | 20%           |               | 0             |               |               |         | -3%   |
| Metallic                  | Reference    | AC168<br>OU<br>AC169 | AC168<br>OU<br>AC169 | AC180   | AC168 | AC181   | AC180 | AC182         |               | AC182   | AC181         | AC182   | AC182         | AC181         | AC182         |               | AC181         | AC182   | AC164 |
|                           | Power impact | -14%                 |                      | -10%    |       | -10%    |       | 0             |               | 0       | 15%           |         | 20%           |               | 0             |               |               |         | 0     |
| Heavy duty                | Reference    | AC167                | AC167                | AC154   | AC167 | AC155   | AC154 | AC156         |               | AC156   | AC155         | AC156   | AC156         | AC155         | AC239 + AC157 | AC155         | AC239 + AC157 | AC184   |       |
|                           | Power impact | -14%                 |                      | -10%    |       | -10%    |       | 0             |               | 0       | 15%           |         | 20%           |               | 0             |               |               | 0       |       |
| High flow exhaust muffler | Reference    |                      |                      |         |       |         |       | AC211 + AC158 | AC211 + AC158 |         | AC159         | AC159   |               | AC239 + AC160 |               | AC239 + AC160 |               |         |       |
|                           | Power impact |                      |                      |         |       |         |       | 0             | 0             |         | 15%           |         | 20%           |               | 0             |               | -6%           |         |       |
| Filter                    | Reference    |                      |                      |         |       |         |       | AC211 + AC165 | AC211 + AC165 |         | AC161         | AC161   |               | AC239 + AC162 |               | AC239 + AC162 |               |         |       |
|                           | Power impact |                      |                      |         |       |         |       | 0             | 0             |         | 0             | 0       |               | 0             |               | 0             |               |         |       |

## AIRFLOW CONTROLLERS

### 1. SPEED CONTROL MUFFLERS

The Polyethylene Speed Control Muffler is designed to adjust the pressure gap between air input and output of the motor by controlling the low end of the flow range. In that way, input pressure remains unchanged and there is no impact on the loaded starting torque, although the torque and speed at max power are reduced. It also reduces decibel levels to an OSHA approved level.

It can be used with air or filtered inert gases, lubricated or not.



| Reference                           | AC170                         | AC171                         | AC172                         | AC173<br>+AC211                |
|-------------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------------|
| Operating pressure                  | 0 → 10 bars                   |                               |                               |                                |
| Ambient temperature                 | - 10°C → + 80°C               |                               |                               |                                |
| Connection (ØA)                     | G <sup>1</sup> / <sub>8</sub> | G <sup>1</sup> / <sub>4</sub> | G <sup>3</sup> / <sub>8</sub> | G <sup>1</sup> / <sub>2</sub>  |
| Dimensions (B x C x D x E x F (mm)) | 15 x 13 x 6 x 14.5 x 2.5      | 18 x 15 x 7 x 22 x 4          | 24 x 20 x 8 x 30 x 6          | 30 x 25 x 10 x 40 x 8          |
| Weight                              | 5g                            | 10 g                          | 30 g                          | 50 g                           |
| Suitable for motors                 | « 05 »                        | « 07 »                        | « 08 »                        | « 10 », « 20 », « 25 », « 30 » |

Its body is made of highly versatile and cost-effective nylon. The adjusting screw is made of high tensile steel and is coated with electroplated zinc.

### 2. IN-LINE FLOW REGULATORS

In-line flow regulators control the motor air supply flow and consequently its rotation speed. They are particularly compact and easy to install either on the air motor inlet port or on the air supply pipe. They can also be used on the exhaust port.



Aluminum body  
In-line flow regulators come with appropriate fittings for assembly on air motors inlet ports.

| Reference                  | AC186                           | AC187                           | AC188                           | AC189                           | AC190                           | AC191                           | AC192                           |
|----------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| Operating pressure         | 0 → 17 bars                     |                                 |                                 |                                 |                                 |                                 |                                 |
| Ambient temperature        | -40°C - +120°C                  |                                 |                                 |                                 |                                 |                                 |                                 |
| Air motor inlet connection | G <sup>1</sup> / <sub>8</sub> " | G <sup>1</sup> / <sub>8</sub> " | G <sup>1</sup> / <sub>4</sub> " | G <sup>3</sup> / <sub>8</sub> " | G <sup>3</sup> / <sub>8</sub> " | G <sup>3</sup> / <sub>8</sub> " | G <sup>1</sup> / <sub>2</sub> " |
| Air supply connection      | G <sup>1</sup> / <sub>8</sub> " | G <sup>1</sup> / <sub>4</sub> " | G <sup>1</sup> / <sub>4</sub> " | G <sup>3</sup> / <sub>8</sub> " | G <sup>3</sup> / <sub>8</sub> " | G <sup>1</sup> / <sub>2</sub> " | G <sup>1</sup> / <sub>2</sub> " |
| Dimension (A x B)          | 50,8 x 20,6                     | 64,8 x 26,9                     | 64,8 x 26,9                     | 73,4 x 31,8                     | 73,4 x 31,8                     | 82,6 x 41,4                     | 82,6 x 41,4                     |
| Weight                     | 5g                              | 10g                             | 10g                             | 15g                             | 15g                             | 25g                             | 25g                             |
| Suitable for motors        | "05"                            | "07"                            | "08"                            | "10XT"<br>"20XT"                | "10RV"<br>"20RV"                | "25"                            | "30"                            |

## MAINTENANCE KITS



Maintenance kits contain two sets of parts required for one regular motor maintenance (refer to chapter 6 "Air motors storage & maintenance" in the first part of this catalogue). With one kit, you can perform two maintenance operations.

Maintenance kits come with an instruction notice and video tutorials are available on our **You Tube channel**.

| Reference | 05    | 07    | 08    | 10         | 20    | 25    | 30    |
|-----------|-------|-------|-------|------------|-------|-------|-------|
| Standard  | AC300 | AC301 | AC302 | XT : AC303 | AC304 | AC305 | AC306 |
|           |       |       |       | RV : AC308 |       |       |       |
| Lube free | AC310 | AC311 | AC312 | XT : AC313 | AC314 | AC315 | AC316 |
|           |       |       |       | RV : AC318 |       |       |       |
| Kit start | AC320 | AC321 | AC322 | XT : AC323 | AC324 | AC325 | AC326 |
|           |       |       |       | RV : AC328 |       |       |       |

## EXHAUST COLLECTOR KITS

Exhaust collector kits can be easily assembled on 10, 20, 25 & 30 series motors and allow to use silencers, filters, airflow controllers, or simply a pipe to bring exhaust away from the working place.

Using an exhaust collector with a silencer may slightly reduce performance (30 series) or significantly increase it (10 and 20 series). See table p.180

It will also increase the motor maximum diameter (see table p.176.).

| Reference        | AC340                         | AC341                         | AC342                         | AC343                         |
|------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Diameter (mm)    | 87                            | 103                           | 120                           | 130                           |
| Connection       | G <sup>3</sup> / <sub>4</sub> |
| Air motor series | 10                            | 20                            | 25                            | 30                            |

# SPECIAL PRODUCTS & TOOLS

## NUT RUNNERS



All our motors can be used as nut runners by using the stall torque as a maximum torque that can be set by simply adjusting air pressure.

Just refer to the "NR" products type data sheet in each series and families.

NR products type are made of a handle, a motor and a right angle head which make them a perfect, safe and ergonomic bolting tool, with a power range from 400 W ("08" series) to 3200 W ("30" series) and a bolting torque that can reach up to 1000 Nm.

It is important to note that these nut runners cannot be used as precision tools. The accuracy of the torque values indicated is +/-5%.

## TAPPING MACHINES



All our motors can also be used as tapping machines in their NTxxRV type.

We have designed a specific range of tapping machines with an appropriate safety handle and rotation control. We have specific shafts designed for tappers.

*Refer to the TRS08 product data sheet on page 70.*

## SPECIAL MOTORS

Flexibility, Expertize and Innovation are our main strengths. We regularly design special motors on customer request for specific applications, and we love that !



Submarine stainless steel air motor

High speed motor for deburring / machining

Special shape & dimension air motor

Air fail brake motor

Whether it is submarine air motors, motors with air fail brakes, torque limiters or special flanges and shafts, we will answer your specific request quickly and precisely. Just ask us!

Don't hesitate to contact us

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