

GLOBE Airmotors | Boerhaaveweg 9-11 | NL - 2408 AD Alphen a/d Rijn | Tel +31 172 426 608 | info@globe-benelux.nl

We Make Movement From Air





Welcome at GLOBE,

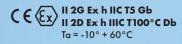
Specialized in air motors and high pressure equipment since 1986. Within GLOBE we have two specializations. The focus of GLOBE Airmotors produces its own air motors, and with a worldwide sales network, their products are always available with a very short delivery time.

GLOBE Test Equipment is a specialist in high pressure test systems, equipment and components.

Because of their own engineering and production department, they supply custom build solutions for their customers.

As specialist we keep close contact with our customers. A positive business atmosphere with excellent service and quality, are very important for us.

GLOBE has a high standard for the quality of our products. We are ISO 9001: 2015 certified to guarantee our work processes and quality. Pneumatic drives are often applied in explosive atmospheres. We can delever our air motors, brakes and gearboxes with ATEX certificate II.



The GLOBE team





Rev. 1 - 2020
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The GLOBE Compact Piston Air Motor

Efficient, strong & compact

The GLOBE compact piston motors are top-class air motors. During the development of our motors we have focused on achieving a long service life and high efficiency. That is why the GLOBE compact piston motors are even more reliable than other air motors. They are energy efficient thanks to their low air consumption. This air motor is unique because of it's low speed combined with high torque, without the use of a gearbox.

Typical applications are winding machines, dosing machines, conveyor belts, positioning machines, mixers, and manipulators.



This is what makes the GLOBE compact piston air motors special:



Runs like a train

Thanks to a nickel-plated housing and metal rollers in the pistons, the GLOBE compact piston air motors run even smoother with less resistance.



Low cost ownership

The GLOBE compact piston air motor reduces the air consumption, is low in maintenance and operates without lubrication.



Low noise level (76dBA)

The noise level does not exceed 76 dBA. This makes the air motor quieter compared to any other air motor.



Waterproof (IP64) and Inox

Our GLOBE compact piston air motors also ideal for the food, pharmaceutical and chemical industries.



Robust & High durability

Thanks to the unique design of the pistons and the housing, the GLOBE compact piston air motors have less wear. This results in a longer service life and requires less maintenance.



Energy efficient

The GLOBE compact piston air motors are efficient up to 90% more than other air motors.

Compact Piston Air Motor | Brochure · 3

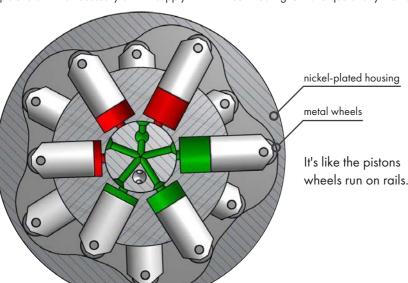


We Make Movement From Air

How the GLOBE Compact Piston Air Motor works

The compact radial piston air motor operates without rod or crank shaft. The radial arranged pistons travel along a curve and are controlled by the centre

The static control shaft supplies the driving pistons with the necessary air. Air supply



and release openings along the static shaft are periodically opened and closed by the rotation of the rotor to pressurise or release the pistons in an appropriate sequence. Six of the twelve driving pistons are actively contributing to the torque at any moment.

Once reaching the highest point on the curve, the air driving the piston is released by the control unit and the piston is forced into its lowermost position. This operating principle is equivalent with the one of a simple cylinder. The compact piston air motor's high torque is due to the power transmission of the pistons along the large external diameter of the curve. The friction connected with the travel along the curve is low due to the installation of rollers at the tip of the pistons. This results in high lifetime

Noise emissions were determined according to the noise measuring standards ISO 11202 and within the frame of the ISO 11200 standards. We used a silencer* for the test and the measured noise levels were below 76 dB for the RM012 and RM024. The pneumatic drive thus fulfils the noise regulations without requirement for ear protection devices. Shaft dimensions can be adapted according to the specific requirements of the client. Dimensions are shown in millimetres.

*Muffler can be ordered is not included as standard

Industries for the GLOBE compact piston air motor

Chemicals & Laboratory

Working safely in the chemical or laboratory industry is important. There are rules and legislation that guarantees the safety of employees and users of the products. There is plenty to consider with. When working with chemical or flammable substances, it's important to work with ATEX certified products. In addition, the rooms must always be clean. The products must be sterilisable and resistant to cleaning agents (IP64). Our GLOBE compact piston motors are available in stainless steel and with ATEX certificate (zone II).

Ⅲ Food & baverage

Food safety, legislation, sustainability and innovation. There is a lot involved in the food and beverage industry. The end product must be tasty and safe for consumption. In addition to the high hygiene requirements, the legal food standards must also be met. The GLOBE compact piston motors meet all the requirements for the food industry. During development, it has been taken into account that the materials and seals are food-safe. Our air motors are available in aluminium, stainless steel and plastic.

Pharma & Healthcare

In addition to registrations, packaging, research and development, there are other aspects in the

pharmaceutical and healthcare sector. Rooms must be sterile cleaned and when working with chemical or aggressive substances, the devices and machines must be ATEX certified. There may also be magnetically sensitive areas in health care. The GLOBE Compact piston motors are optional suitable in magnetically sensitive environments. They are available in aluminium, stainless steel or plastic. Do you want to know more about the possibilities or do you want advice that is appropriate for your environment? Our specialists are ready to help you.

There is a lot involved with automation. Think of speed, accuracy, efficiency, user-friendliness, industry 4.0,

networks, sustainability and precision. All these high requirements apply to the components used in automation. Our compact piston air motors are suitable for high-quality drive technology. We have developed a compact piston motor with a rev. counter especially for automation. This means that you can be even more accurate in speed, precision and

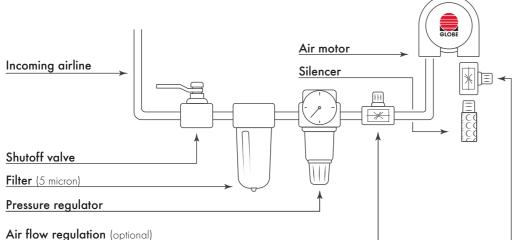
GLOBE Airmotors offers the right solution for all these challenges and of course always with the professional advice of our specialists.

Contact GLOBE airmotors for advise of the right air motor

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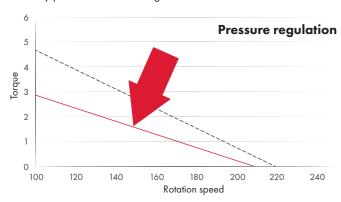


Air supply



Performance regulation

With the regulation of the inlet pressure and the flow rate, the performance can be adapted to the individual application. This is done by pressure or air flow regulation or a combination of both. The



This allows that the motor also can be started, while it is loaded. With a load reduction, the motor reacts immediately with an increase in speed.

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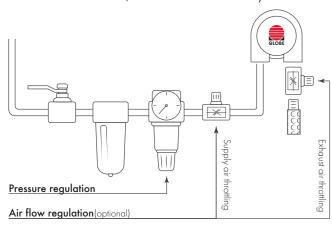
Air flow regulation

compressibility of the air generates a dampening effect in all ranges.



1. Pressure regulation

With pressure regulation the output power can be adjusted. When the supply pressure is decreased, the torque and power is reduced proportionally and the torque curve becomes flatter. The forces inside the motor are also reduced, which increases its durability.



2. Air flow regulation

Air flow regulation is the best way to reduce the output speed without the loss of torque. The air flow can be regulated with a throttling device. By throttling, the starting torque remains essentially the same but the torque curve is steeper. This means that under the same load fluctuation, the speed fluctuation is smaller in comparison with the pressure regulation. There is a distinction made between the following installation positions:

Exhaust air throttling

The exhaust air throttling is the less optimal way of throttling relating to the durability and the air consumption. The advantage of this method is that the rotational speed can be regulated constantly in the lower rotation range. In the border area of the rotation range, a combination of supply- and exhaust air throttling should be used. The exhaust throttling should be used for controlling low speed of rotation.

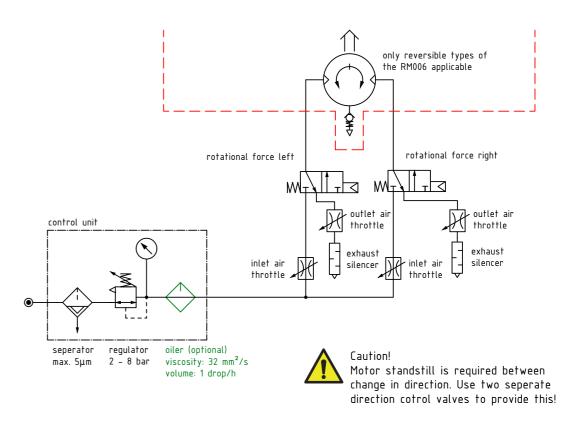
Supply air throttling

The supply air throttling generates better results in relation to the durability, the running smoothness and the air consumption.

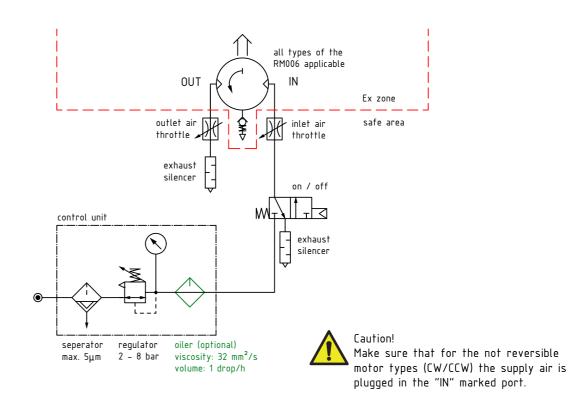
For optimal power and speed control we advise to use the combination of pressure and air flow regulation.

PNEUMATIC CONTROL

REVERSIBLE (standard version)



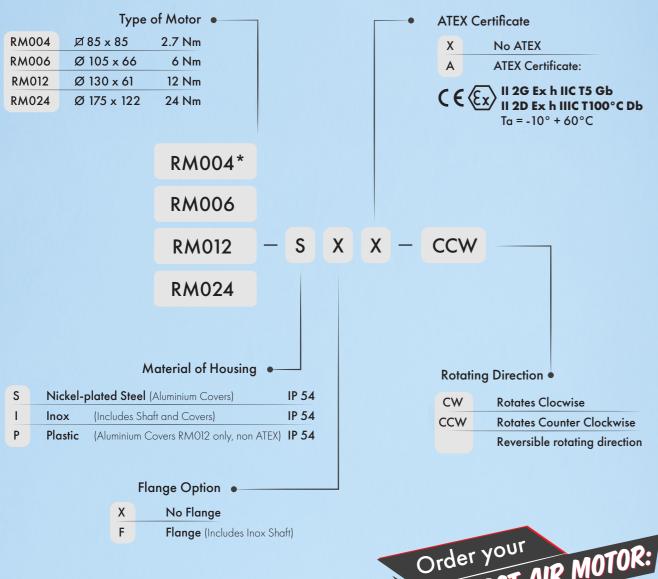
NOT REVERSIBLE (CW / CCW)



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Selection Code

Make your GLOBE compact piston air motor ordering code



*Standard shaft diameter is Ø9 mm, optional available in Ø14 mm







Specifications

| Туре | Rotation speed (reversible) | Rotation speed (CW & CCW) | Torque | Weight (reversible) | Weight CW & CCW | IP | Page |
|-----------|--------------------------------|------------------------------|--------|------------------------|--------------------|----|---------|
| | rpm | rpm | Nm | kg | kg | IP | nr |
| RM004-SXA | 60 – 550 | 100 – 800 | 2.7 | 2.2 | 2.1 | 54 | 12 - 13 |
| RM004-IXA | 60 – 550 | 100 – 800 | 2.7 | 4.9 | 4.6 | 54 | 12 - 13 |
| RM006-SXA | 50 – 650 | - | 6 | 2.8 | - | 54 | 16 |
| RM006-SXX | 50 - 650 | - | 6 | 2.8 | - | 54 | 16 |
| RM006-SFA | 50 – 650 | - | 6 | 3.1 | - | 54 | 17 |
| RM006-SFX | 50 - 650 | - | 6 | 3.1 | - | 54 | 17 |
| RM012-SXA | 50 – 350 | 50 – 450 | 12 | 3.8 | 3.8 | 54 | 20 |
| RM012-SXX | 50 – 350 | 50 – 450 | 12 | 3.8 | 3.8 | 50 | 20 |
| RM012-SFA | 50 – 350 | 50 – 450 | 12 | 4.6 | 4.6 | 54 | 21 |
| RM012-SFX | 50 – 350 | 50 – 450 | 12 | 4.6 | 4.6 | 50 | 21 |
| RM012-IXA | 50 – 350 | 50 – 450 | 12 | 4.9 | 4.9 | 54 | 20 |
| RM012-IXX | 50 – 350 | 50 – 450 | 12 | 4.9 | 4.9 | 64 | 20 |
| RM012-IFA | 50 – 350 | 50 – 450 | 12 | 6.5 | 6.5 | 54 | 21 |
| RM012-IFX | 50 – 350 | 50 – 450 | 12 | 6.5 | 6.5 | 64 | 21 |
| RM012-PXX | 50 – 350 | 50 – 450 | 12 | 4.2 | 4.2 | 64 | 22 |
| RM012-PFX | 50 – 350 | 50 – 450 | 12 | 5.8 | 5.8 | 64 | 22 |
| RM024-SXA | 50 – 350 | 50 – 450 | 24 | 7.6 | 7.6 | 54 | 25 |
| RM024-SXX | 50 – 350 | 50 – 450 | 24 | 7.6 | 7.6 | 50 | 25 |
| RM024-SFA | 50 – 350 | 50 – 450 | 24 | 8.2 | 8.2 | 54 | 26 |
| RM024-SFX | 50 – 350 | 50 – 450 | 24 | 8.2 | 8.2 | 50 | 26 |
| RM024-IXA | 50 – 350 | 50 – 450 | 24 | 10.9 | 10.9 | 54 | 25 |
| RM024-IXX | 50 – 350 | 50 – 450 | 24 | 10.9 | 10.9 | 64 | 25 |
| RM024-IFA | 50 – 350 | 50 – 450 | 24 | 12 | 12 | 54 | 26 |
| RM024-IFX | 50 – 350 | 50 – 450 | 24 | 12 | 12 | 64 | 26 |

GLOBE AIRMOTORS B.V.

RM004

Compact Piston Air Motors - 3.4Nm/2.5lbs ft.

The GLOBE RM004 is the smallest in the series. Like all our compact piston air motors, the RM004 also has a low speed and high torque without the use of a gearbox. They are extremely efficient, give high performance and are up to 90% more efficient than other air motors. Unlike our other compact piston motors, the GLOBE RM004 has a hard anodized aluminum housing with plastic wheels on the 7 pistons. It has a double bearing on the output shaft and is therefore suitable for direct drive applications. This makes the air motor even lighter without losing its power and efficiency.

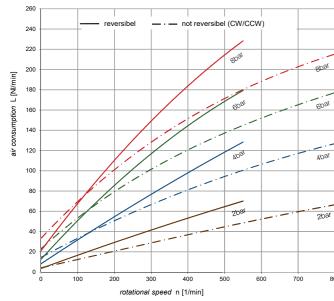
- » High starting torque
- » Starting torque 3,4 Nm / 30 inch lbs.
- » ATEX certified
- » Oil free (optional)

- » Silicone free
- » Easy to control
- » Very low air consumption
- » Easy to control

RM004 - Specifications

| Туре | Rotation speed (reversible) | Rotation speed (CW & CCW) | Torque | Weight (reversible) | Weight CW & CCW | IP |
|-----------|--------------------------------|------------------------------|--------|------------------------|--------------------|----|
| | rpm | rpm | Nm | kg | kg | IP |
| RM004-SXA | 60 – 550 | 100 – 800 | 2.7 | 2.2 | 2.1 | 54 |
| RM004-IXA | 60 – 550 | 100 – 800 | 2.7 | 4.9 | 4.6 | 54 |

Air Consumption RM004



- » Max. power:
- » Torque at max. power:
- » Starting torque:
- » Speed of rotation:
- » Weight:
- » Waterproof:
- » Air consumption:
- 0,07 kW / 0.09 H.P.
- 1,7 Nm / 15 inch lbs.
 - 3,4 Nm / 30 inch lbs. 100 - 800 rpm. CCW or CW
 - 60 550 rpm. Reversible
 - 2.1 4.6 kg.
- 170 NI/min.
 - 50 to 64 IP

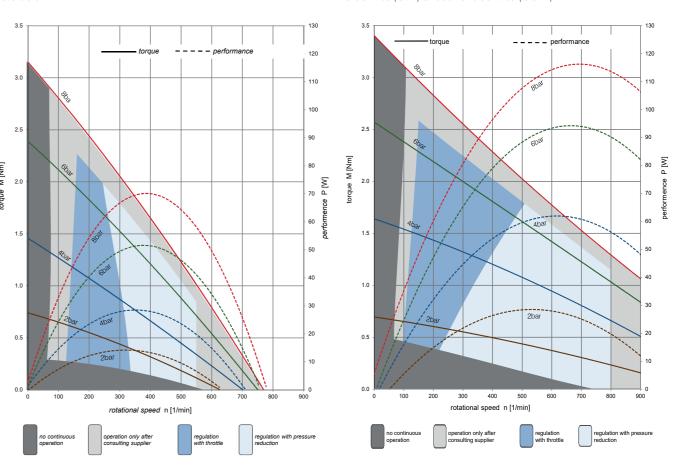


Performance RM004

Reversible

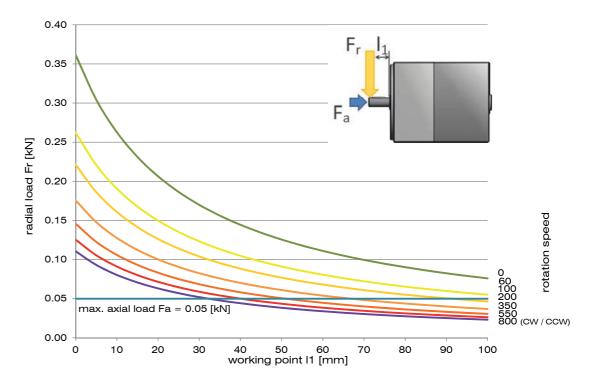
Performance RM004

Clockwise (CW) & Counter clockwise (CCW)



Loaddiagram RM004 | ATEX | SXA & IXA

Nickelplated steel housing & Inox housing | no flange | ATEX

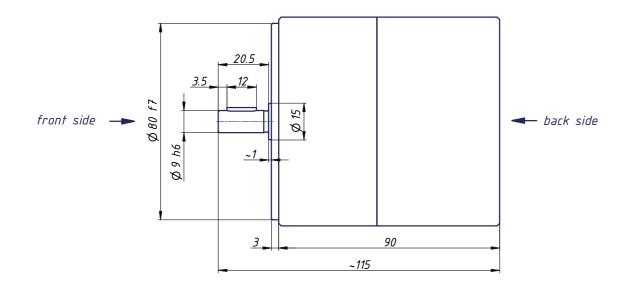


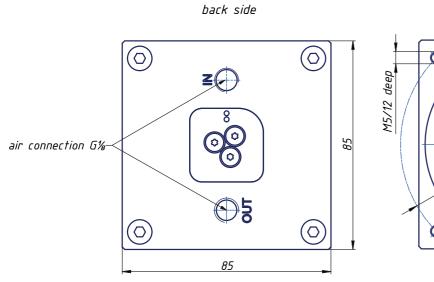
10 · Brochure | Compact Piston Air Motor Compact Piston Air Motor | Brochure · 11

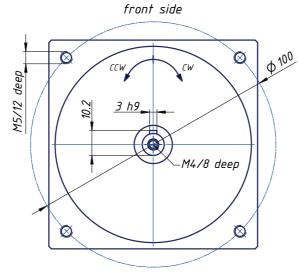
GLOBE AIRMOTORS B.V.

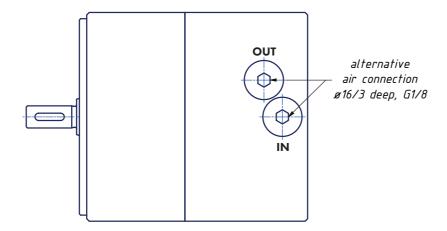
Dimensions RM004 | CW & CCW | SXA & IXA

Nickelplated steel housing & Inox housing | Clockwise & Counter clockwise



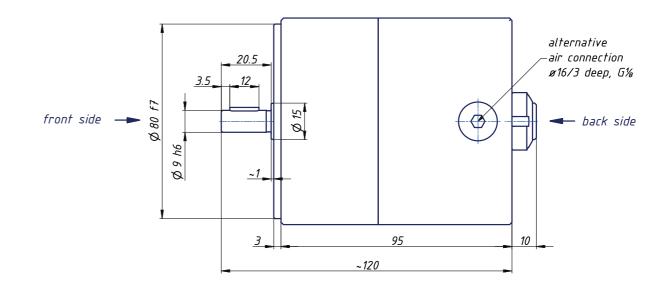


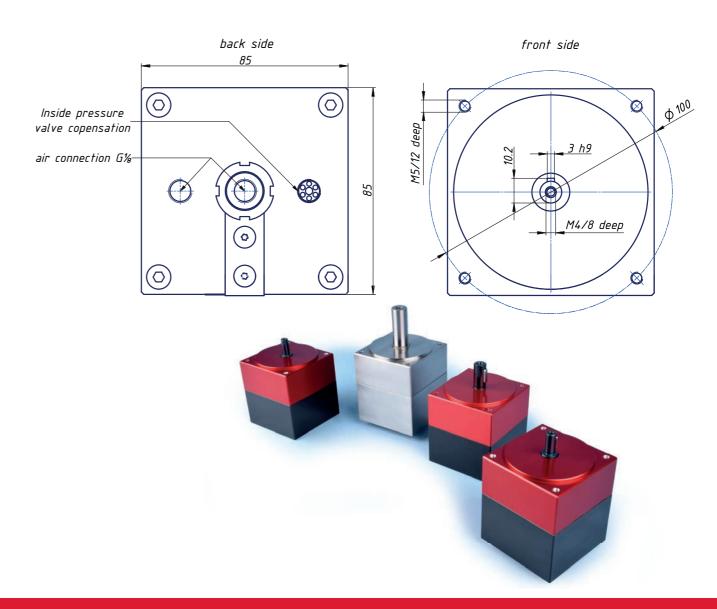




Dimensions RM004 | Reversible | SXA & IXA

Nickelplated steel housing & Inox housing | ATEX







RM006

Compact Piston Air motor - $7 \, \text{Nm} - / 5.2 \, \text{lbs} \, \text{ft}.$

The GLOBE RM006 compact piston air motor is unique in all ways! During development, we have committed ourselfs 100% on achieving a long service life and high efficiency. The new design of the RM006 features a nickel-plated housing and metal wheels in the pistons. This makes the RM006 even more reliable. It's like the wheels of the pistons run on rails, even smoother with less resistance. This not only makes the motor stronger, it has a longer service life because of less wear and therefor requires less maintenance. The GLOBE RM006 compact piston air motor is therefor successful in all areas. In addition, we tested it and compared it to comparable air motors on the market. Our GLOBE RM006 is at least 50% more efficient.

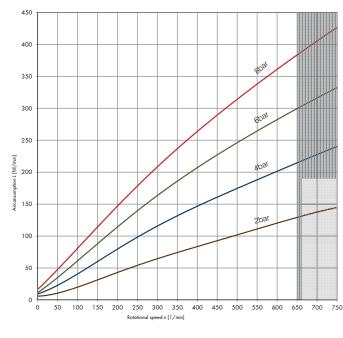
- » High starting torque
- » Starting torque 7 Nm / 5,2 lbs ft.
- » ATEX certified
- » Oil free (optional)

- » Silicone free
- » Easy to control
- » Very low air consumption
- » Reliable

RM006 - Specifications

| Туре | Rotation speed | Torque | Weight | IP |
|-----------|----------------|--------|--------|----|
| RM006-SXA | 50 – 650 rpm | 6 Nm | 2.8 kg | 54 |
| RM006-SXX | 50 - 650 rpm | 6 Nm | 2.8 kg | 54 |
| RM006-SFA | 50 – 650 rpm | 6 Nm | 3.1 kg | 54 |
| RM006-SFX | 50 - 650 rpm | 6 Nm | 3.1 kg | 54 |

Air Consumption RM006



- » Max. power:
- » Torque at max. power:
- » Starting torque:» Speed of rotation:
- » Weight:
- » Air consumption:
- » Waterproof:

3.6 Nm / 2.5 lbs ft.
7 Nm / 5. lbs. ft
50 - 650 rpm Reversible
2.8 kg. no flange
3.1 kg. with flange
340 NI/min.

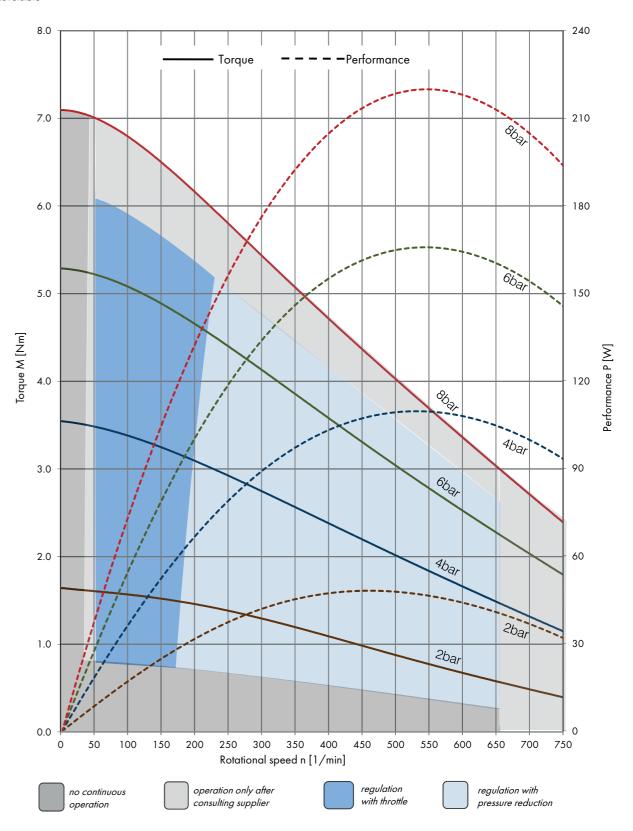
220 W / 0.21 H.P.



54 IP

Performance RM006

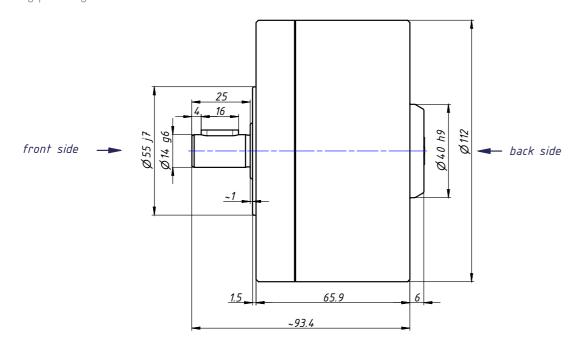
Reversible

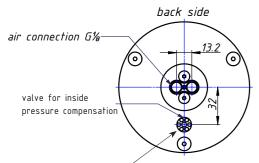


GLOBE AIRMOTORS B.V

Dimensions RM006 SXA & SXX

Nickelplated steel housing | No flange





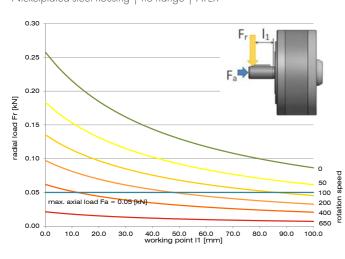
5 h9 M5x12

front side

No ATEX = air vent. through silencer

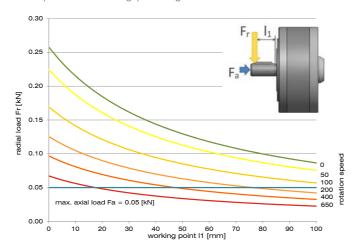
Load diagram RM006 SXA

Nickelplated steel housing | no flange | ATEX



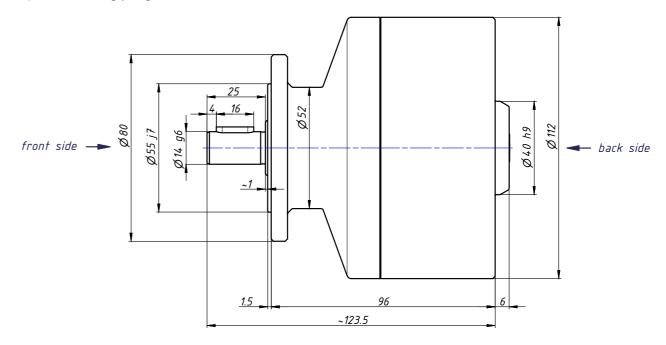
Load diagram RM006 SXX

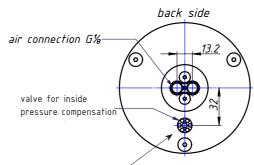
Nickelplated steel housing | no flange

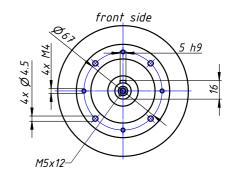


Dimensions RM006 SFA & SFX

Nickelplated steel housing | flange



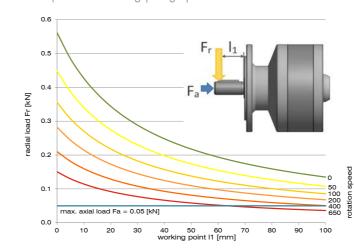




No ATEX = air vent. through silencer

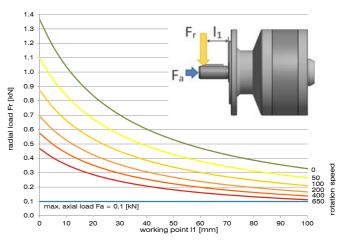
Load diagram RM006 SFA

Nickelplated steel housing | flange | ATEX



Load diagram RM006 SFX

Nickelplated steel housing | flange





RM012

Compact Piston Air motor - 14 Nm - / 10.3 lbs ft.

The GLOBE compact piston air motors are motors with a number of unique characteristics compared to other air motors.

Unique to this motor is the low speed combined with high torque without the use of a gearbox.

These motors are used in situations where air motors are not normally used.

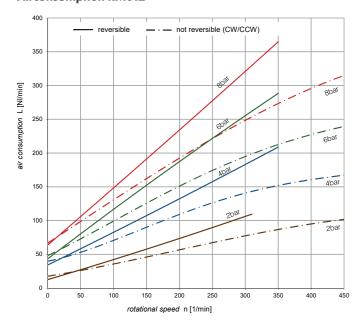
- » High starting torque
- » Starting torque 14 Nm / 10.3 lbs ft.
- » ATEX certified
- » Oil free (optional)

- » Silicone free
- » Easy to control
- » Very low air consumption
- » Reliable

RM012 - Specifications

| Туре | Rotation speed (reversible) | Rotation speed (CW & CCW) | Torque | Weight (reversible) | IP |
|-----------|-----------------------------|------------------------------|--------|------------------------|----|
| | rpm | rpm | Nm | kg | IP |
| RM012-SXA | 50 – 350 | 50 – 450 | 12 | 3.8 | 54 |
| RM012-SXX | 50 – 350 | 50 – 450 | 12 | 3.8 | 50 |
| RM012-SFA | 50 – 350 | 50 – 450 | 12 | 4.6 | 54 |
| RM012-SFX | 50 – 350 | 50 – 450 | 12 | 4.6 | 50 |
| RM012-IXA | 50 – 350 | 50 – 450 | 12 | 4.9 | 54 |
| RM012-IXX | 50 – 350 | 50 – 450 | 12 | 4.9 | 64 |
| RM012-IFA | 50 – 350 | 50 – 450 | 12 | 6.5 | 54 |
| RM012-IFX | 50 – 350 | 50 – 450 | 12 | 6.5 | 64 |
| RM012-PXX | 50 – 350 | 50 – 450 | 12 | 4.2 | 64 |
| RM012-PFX | 50 – 350 | 50 – 450 | 12 | 5.8 | 64 |

Airconsumption RM012



- » Max. power:
- » Torque at max. power:
- » Starting torque:
- » Speed of rotation:
- » Weight:
- » Air consumption:
- » Waterproof:

7 Nm / 5.1 lbs ft. 14.5 Nm / 10.7 lbs. ft 50 - 450 rpm. CCW or CW 50 - 350 rpm. Reversible 3.8 kg. no flange 4.6 kg. with flange 255 NI/min.

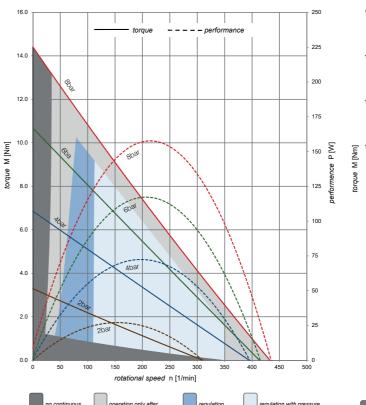
0.16 kW / 0.21 H.P.



54 to 64 IP

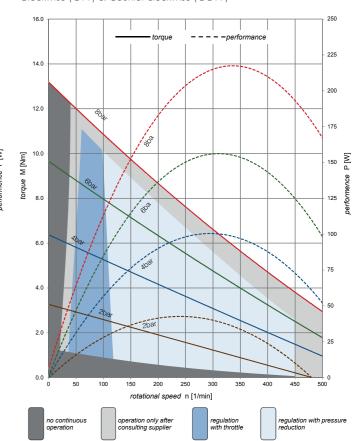
Performance RM012





Performance RM012

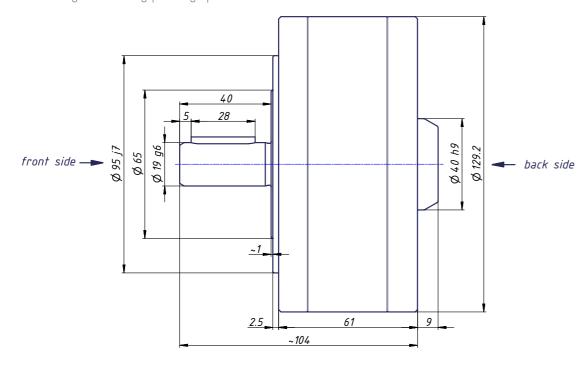
Clockwise (CW) & Counter clockwise (CCW)

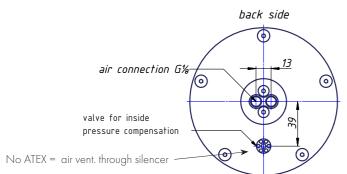


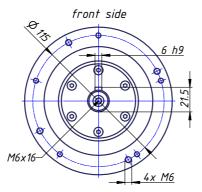


Dimensions RM012 SXA & IXA | SXX & IXX

Nickelplated steel housing & Inox housing | no flange | ATEX

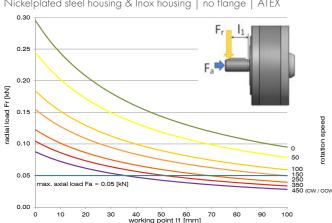






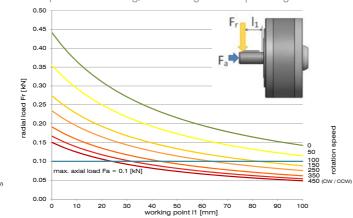
Load diagram RM012 SXA & IXA

Nickelplated steel housing & Inox housing | no flange | ATEX



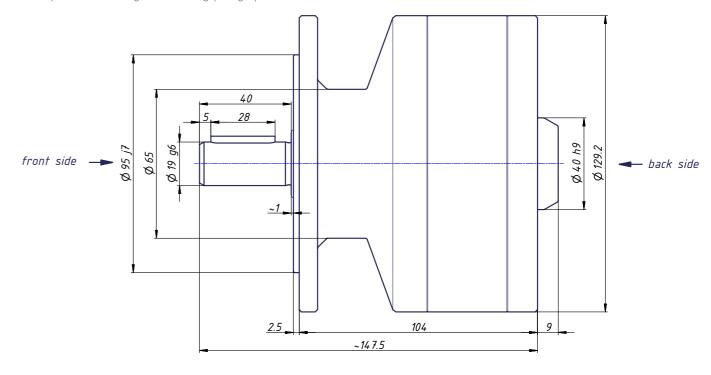
Load diagram RM012 SXX, IXX & PXX

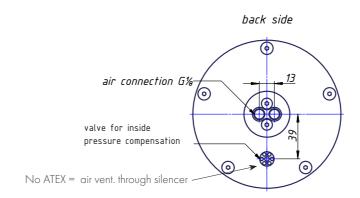
Nickelplated steel housing, Inox housing & Plastic | no flange

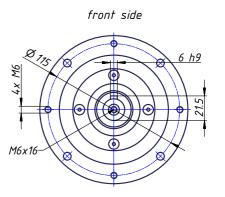


Dimensions RM012 SFA & IFA | SFX & IFX

Nickelplated steel housing & Inox housing | flange | ATEX

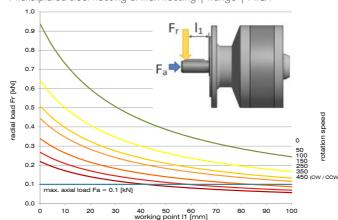






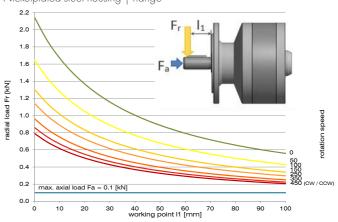
Load diagram RM012 SFA & IFA

Nickelplated steel housing & Inox housing | flange | ATEX



Load diagram RM012 SFX, IFX* & PFX*

Nickelplated steel housing | flange

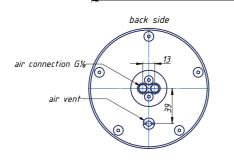


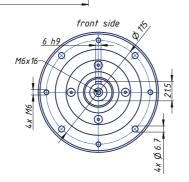
*For IFX & PFX the radial load is 20% less.

GLOBE AIRMOTORS B.V.

Dimensions RM012 PFX

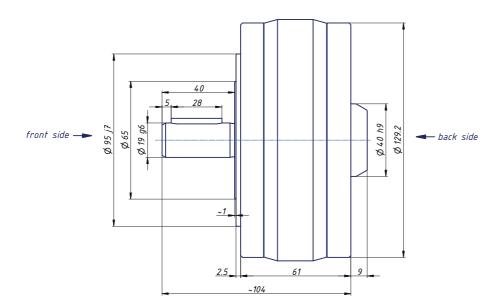
Plastic housing & Inox housing | flange | front side | fr

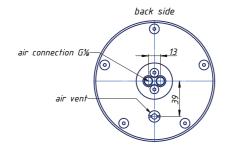


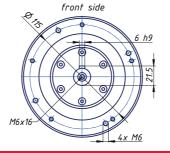


Dimensions RM012 PXX

Plastic housing & Inox housing | no flange







RM024

Compact Piston Air motor - 32 Nm - / 23.6 lbs ft.

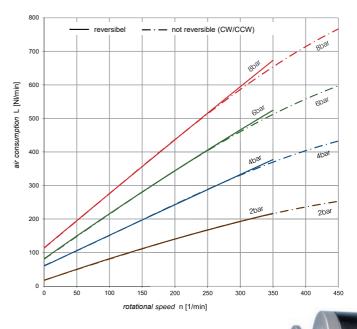
The GLOBE compact piston air motors RM024 is the largest and most powerful in the series. These motors have a number of unique features. With their low air consumption, they are up to 90% more efficient than other air motors. They have high torque at low speed without the use of a gearbox. In addition, they have a low noise level.

- » High starting torque
- » Starting torque 32 Nm / 23.6 lbs ft.
- » ATEX certified
- » Oil free (optional)

- » Silicone free
- » Easy to control
- » Very low air consumption
- » Reliable

| Туре | Rotation speed (reversible) | Rotation speed (CW & CCW) | Torque | Weight (reversible) | IP |
|-----------|--------------------------------|------------------------------|--------|------------------------|----|
| | rpm | rpm | Nm | kg | IP |
| RM024-SXA | 50 – 350 | 50 – 450 | 24 | 7.6 | 54 |
| RM024-SXX | 50 – 350 | 50 – 450 | 24 | 7.6 | 50 |
| RM024-SFA | 50 – 350 | 50 – 450 | 24 | 8.2 | 54 |
| RM024-SFX | 50 – 350 | 50 – 450 | 24 | 8.2 | 50 |
| RM024-IXA | 50 – 350 | 50 – 450 | 24 | 10.9 | 54 |
| RM024-IXX | 50 – 350 | 50 – 450 | 24 | 10.9 | 64 |
| RM024-IFA | 50 – 350 | 50 – 450 | 24 | 12 | 54 |
| RM024-IFX | 50 – 350 | 50 – 450 | 24 | 12 | 64 |

Airconsumption RM024



- » Max. power:
- » Torque at max. power:
- » Starting torque:
- » Speed of rotation:
- » Weight:
- » Air consumption:
- » Waterproof:

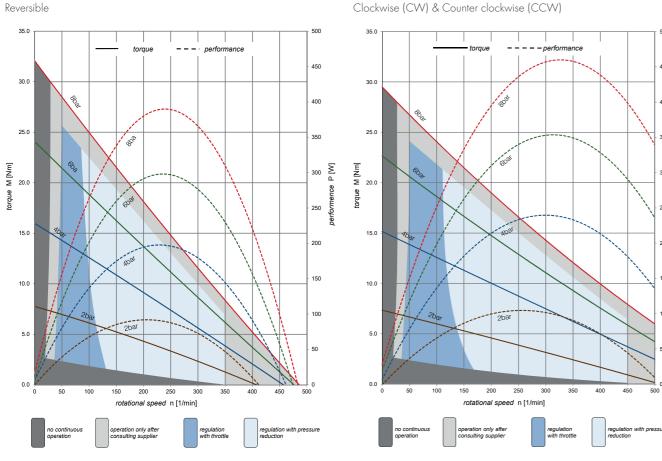
- 0.38 kW / 0.51 H.P. 15 Nm / 11 lbs ft.
- 32 Nm / 23.6 lbs. ft
- 50 450 rpm. CCW or CW
- 50 350 rpm. Reversible
- 3.8 kg. no flange
- 4.6 kg. with flange
- 255 NI/min.
- 50 to 64 IP





Performance RM024

Reversible

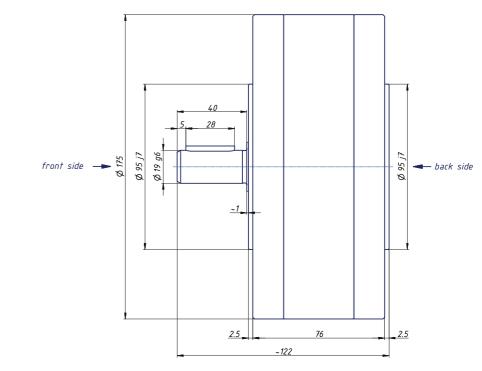


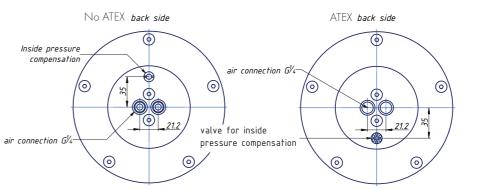
Performance RM024

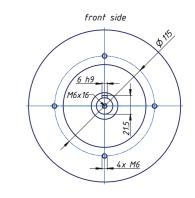


Dimensions RM024 SXA & IXA | SXX & IXX

Nickelplated steel housing & Inox housing | no flange | ATEX & No ATEX

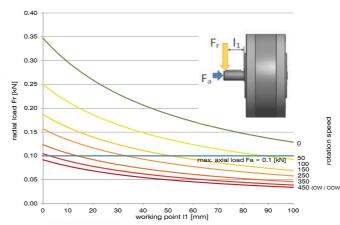






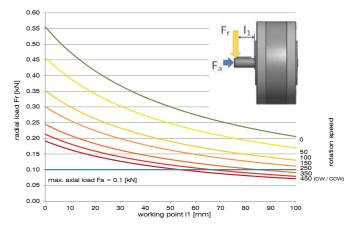
Load diagram RM024 SXA & IXA

Nickelplated steel housing & Inox housing | no flange | ATEX



Load diagram RM024 SXX & IXX

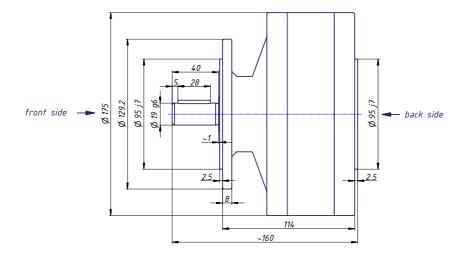
Nickelplated steel housing & Inox housing | no flange

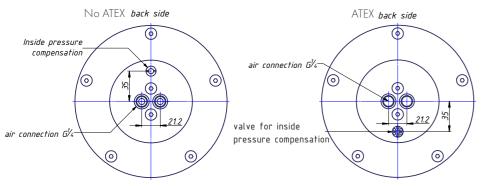


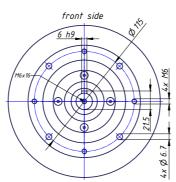
24 · Brochure | Compact Piston Air Motor Compact Piston Air Motor | Brochure · 25

Dimensions RM024 SFA & IFA | SFX & IFX

Nickelplated steel housing & Inox housing | flange | ATEX & No ATEX

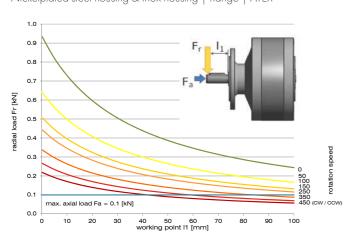






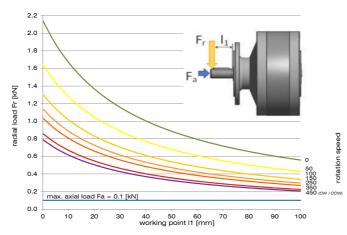
Load diagram RM024 SFA & IFA

Nickelplated steel housing & Inox housing | flange | ATEX



Load diagram RM024 SFX & IFX*

Nickelplated steel housing | flange



*For IFX the radial load is 30% less.



GLOBE Airmotors | Boerhaaveweg 9-11 | NL - 2408 AD Alphen a/d Rijn | Tel +31 172 426 608 | info@globe-benelux.nl



Vane Air Motors



Pneumatic Brakes



Compact Vane Air Motors



Planetary Geared Vane Air Motor



Radial Piston Air Motors



Specials: Costum Build

This document, as well as the CAD data of the compact piston air motors is available for download on globe-benelux.nl.

globe-benelux.nl

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e-mail: info@globe-benelux.nl

www.globe-benelux.nl

EU-Declaration of Conformity

We, GLOBE Airmotors B.V.:

Hereby declare in our sole responsibility, that the following pneumatic vane motor types:

GLOBE RM... series compact piston air motor

are in accordance with the Directives:

2014/34/EU, Equipment and Protective Systems in Potentially Explosive Atmospheres 2006/42/EC, Machinery Directive

The Equipment has been designed and manufactured to the relevant parts of the following harmonized standards:

EN 1127-1:2019, EN-ISO 80079-36:2016, EN-ISO 80079-37:2016, EN 12100:2010, EN 82079-1:2012, EN 4414:2010

The ATEX marking of the equipment is:

GLOBE Airmotors B.V.
Boerhaaveweg 9-11, 2408 AD Alphen aan den Rijn

Model: ..

Serial number: ...

Year build:

II 2G Ex h IIC T5 Gb
II 2D Ex h IIIC T100°C Db
-10° ≤ Ta ≤ + 60°C

A complete Technical File is held at the GLOBE Airmotors B.V office in Alphen aan den Rijn (NL). A copy of the Technical File is archived with file number EXVF-000015 at ExVeritas in the UK.

Alphen a/d Rijn 19-02-2022 GLOBE AIRMOTORS BV