



PRODUCT OVERVIEW

QUALITY MADE IN EUROPE

QUALITY MADE BY JOYNER

Moving more than just air





MOVING MORE THAN

Your partner for customized pneumatic solutions.



JOYNER pneumatic GmbH is a renowned manufacturer of pneumatic cylinders and valves. Based on a broad range of standard products, we offer our customers industry-, product-, and application-specific custom pneumatic solutions. We are a recognized partner not only for customers in the industrial automation sector.

At JOYNER, you can get everything you need for pneumatics from a single source. From exhaust air throttles to cylinder attachments – even for smooth-running cylinders or those made of stainless steel.

Spare parts service for Knorr pneumatics worldwide: Whether K-rings or complete pistons, directional or flow control valves, clamping or universal cylinders. Even for very old systems, JOYNER still supplies original spare parts today.

JUST AIR



Many well-known companies in the process industry that deal with fittings and valve automation trust us, as do manufacturers of commercial, municipal and rail vehicles.

Since 1993, we have been creating unique product solutions by combining technical expertise and a spirit of partnership.



JOYNER manufactures the core areas of its pneumatics range in two of its own factories. This makes us flexible, fast, and cost-efficient.

At JOYNER, you are buying from a pneumatics specialist that covers all stages of the value chain, from development to sales.

Based on a standard range, we produce custom pneumatic components in various quantities.

Manufactured in processes certified according to DIN EN ISO 9001: 2015 zertifiziert sind. Since 1995, we have been continuously audited by accredited testing companies.

STANDARD CYLINDERS



Round cylinders according to DIN ISO 6432

- Piston diameter 8 to 25 mm
- Single and double acting
- With and without magnetic piston
- Also available in special designs such as extended piston rod

Round cylinders

- Piston diameter 32 to 63 mm
- Single and double acting
- With and without magnetic piston
- With and without adjustable end position cushioning

Are you looking for cylinders for extended temperature ranges, stainless steel products, or ATEX-certified drives? Then you will find the right product at JOYNER!



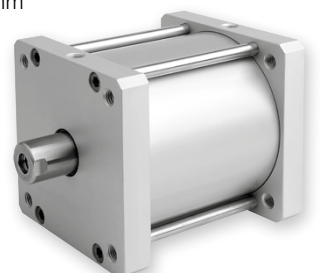
Compact cylinders according to DIN ISO 21287

- Piston diameter 20 to 125 mm
- Single and double acting
- Spring on cover or head side
- With magnetic piston
- Also available in special designs



Compact cylinders pull rod type

- Piston diameter 125 mm to 250 mm
- Single and double acting
- Spring on cover or head side
- With magnetic piston
- Also available in special designs



STANDARD CYLINDERS



Not afraid of big animals:
JOYNER manufactures
cylinders with piston
diameters up to 400 mm

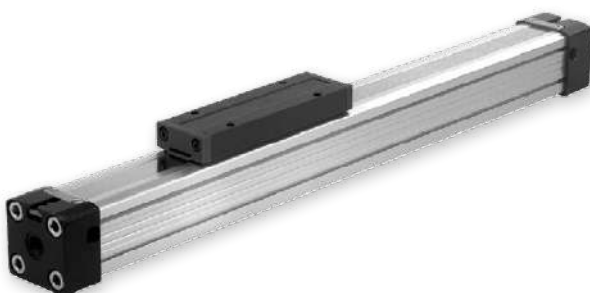
Cylinders according to DIN ISO 15552

Profile tube cylinders DVP – piston diameter 32 to 100 mm

Tie rod cylinders DI – piston diameter 125 to 320 mm

Profile cylinders DAP – ECO piston diameter 32 to 125 mm

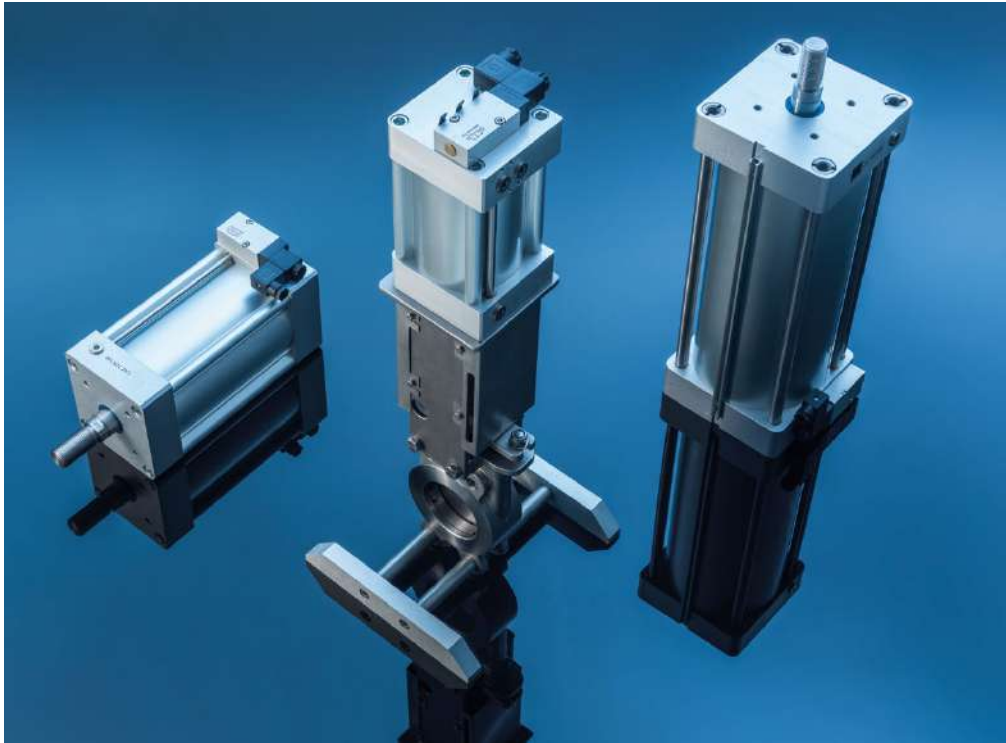
- Double-acting, spring cylinders upon request
- With adjustable end position cushioning
- With and without magnetic piston
- DAP also available with anti-rotation feature
- Piston rod made of stainless steel or hard chrome-plated
- Also available in special designs



Piston rodless actuators

- Piston diameter 16 to 63 mm
- Various carriage shapes
- Also available as dual actuators
- Also with additional linear guide
- Various interchangeable sliding elements

SONDERZYLINDER



Guide unit AMCCG

- Piston diameter 16 to 100 mm
- Always double-acting
- Various sliding elements

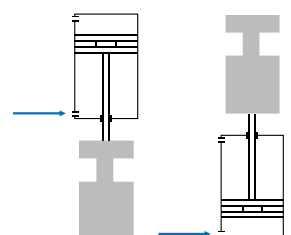
Cylinders with integrated NAMUR interface

- Profile cylinder, piston diameter 80 to 125 mm
- Tie rod cylinders, piston diameter 160 to 320 mm
- Double-acting, spring cylinders on request
- Integrated end position damping
- Interface to valve according to VDI/VDE 3845
- Attachments DIN ISO 15552 can be used
- Interface on cylinder head according to DIN 3358 / ISO 5210
- Ideal for direct mounting of gate valves



Smooth-running cylinder according to DIN ISO 15552

- Profile cylinder, piston diameter 63 to 125 mm
- Tension rod cylinder, piston diameter 160 to 250 mm
- Particularly smooth-running due to minimized friction
- Always single-acting
- Pulling and pushing versions
- Ideal for handling equipment



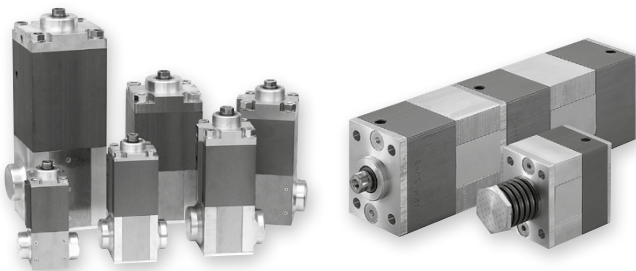
Also available in stainless steel for extended temperature ranges and for potentially explosive atmospheres.

SPECIAL CYLINDERS



Knock cylinders

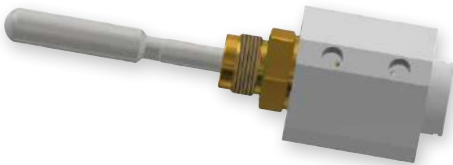
- Piston diameter 80 mm
- Switching frequency 120 to 540 switches/min
- Switching frequency adjustable via integrated throttle 10 Nm at 6 bar
- Ideal for loosening deposits on silos and freight cars



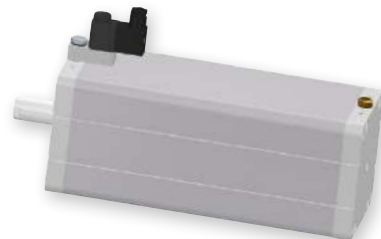
High-force cylinders

- Without pressure intensifier
- Up to 10 times the cylinder force
- Maintenance-free
- On pressure or tension with translated piston force
- Constant pressure output
- Immediate force available without compression-related delay
- Forces up to 150 kN

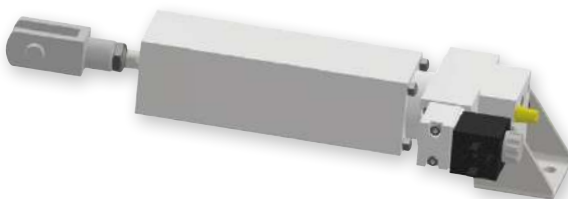
Special devices



Cylinder for particularly dirty and hot environments, e.g., opening and closing the spray nozzles of an asphalt paver.



Compact cylinder-valve unit for process automation, opening and closing process valves.



Cylinder-valve unit as a ready-to-install assembly for rail vehicles.



Cylinder with integrated position detection via a displacement measurement system and an integrated position controller.

STANDARD VALVES



Standard valves from JOYNER

- Connection size M5 to G 3/4"
- Manual, mechanical, pneumatic, and electric actuation
- "Floating O-ring" sealing system
- Modular system allows for customer-specific adaptations

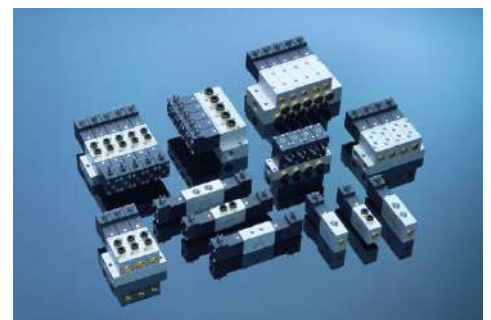
Solenoid valves in three sizes

- MH series, M5 to G 3/4", from 22 mm width, 3 watts / 5 VA
- MD series, M5 to G 1/8", 16 mm width, 1.8 watts
- MMD series MMD, plug-in screw connection, 10.5 mm wide, 0.6 watts



Various, modular interlocking systems

- Can also be used for pneumatic and hand lever valves
- Mounting on DIN rail with clamping elements



Are you interested in valves
for extended temperature
ranges, made of stainless
steel, or for potentially
explosive atmospheres?
Keep scrolling!



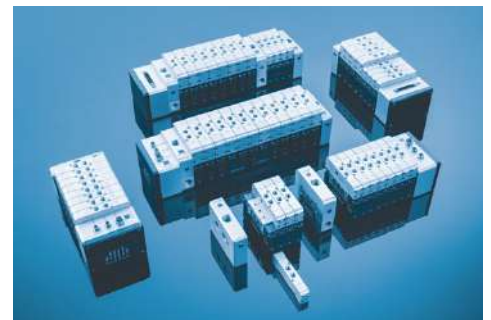
STANDARD VALVES



Modular valve terminals for various BUS protocols.

Valve terminals series MD/MK

- 2 to 14 valve positions
- 3/2- or 5/2-way valves, mono- and bistable, 5/3-way valves
- Water-repellent system IP 65
- Sizes with flow rates from 50 l/min to 1250 l/min
- Also for IO-Link



Modular valve terminals for SUB-D and BUS

- Pneumatic and electrical modular design
- 4 valves with 8 solenoids per module
- Maximum of 8 modules for 32 valves / 64 solenoids.
- 5/2-, 5/3- and double 3/2-way valves available
- For 16 mm valves NW 4 and 22 mm valves NW 5
- Available BUS protocols: ProfiNET, EtherCAT, Modbus/TCP, CANopen (others upon request)
- Pneumatic intermediate feed with and without isolation



Electrical modules for SUB-D and BUS



Module with compressed air and vent connections



Intermediate feed

PRODUCTS FOR PROCESS AUTOMATION



NAMUR valve range

- 3/2-, 5/2-, and 5/3-way solenoid valves
- Pneumatic and hand lever valves
- 1/4" (NAMUR 1) and 1/2" (NAMUR 2)
- Throttles with NAMUR connection
- Many devices made of stainless steel and for extended temperature ranges



NAMUR Flex

The MH 350 701 with air spring and MH 351 701 with combination spring are 5/2-way valves.



By adding the "flex plate," the valve becomes a 3/2-way valve with spring chamber ventilation.



Unique accessories for smart valve automation

- Quick exhaust blocks
- Valves for ensuring "fail-safe" positions
- Control valves for emergency operation via tanks
- Devices for protecting maintenance personnel
- Spring chamber ventilation even without NAMUR valve
- Control of butterfly valves with inflatable seals
- Made of aluminum, many devices also made of stainless steel

The range of accessories for intelligent valve automation is unique worldwide. Many devices are also suitable for use in potentially explosive atmospheres.

PRODUCTS FOR PROCESS AUTOMATION



Cylinder-valve units with NAMUR interface

- Made of aluminum for cylinders with piston diameters from 32 to 320 mm
- Made of stainless steel for cylinders with piston diameters from 32 to 200 mm
- Modular solutions or fixed "valve bridges" Also ideal for retrofitting existing actuators
- For valve interfaces NAMUR 1 and NAMUR 2
- For double-acting actuators, spring cylinders possible
- 5/2 and 5/3 directional valves, 3/2 directional valves possible

Special flange valves



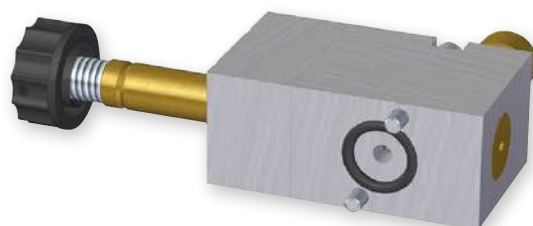
Space-saving design for a small rotary actuator in mechanical engineering



5-way valve with hollow screws on ports 2 and 4 for particularly precise adjustment of the opening and closing speeds

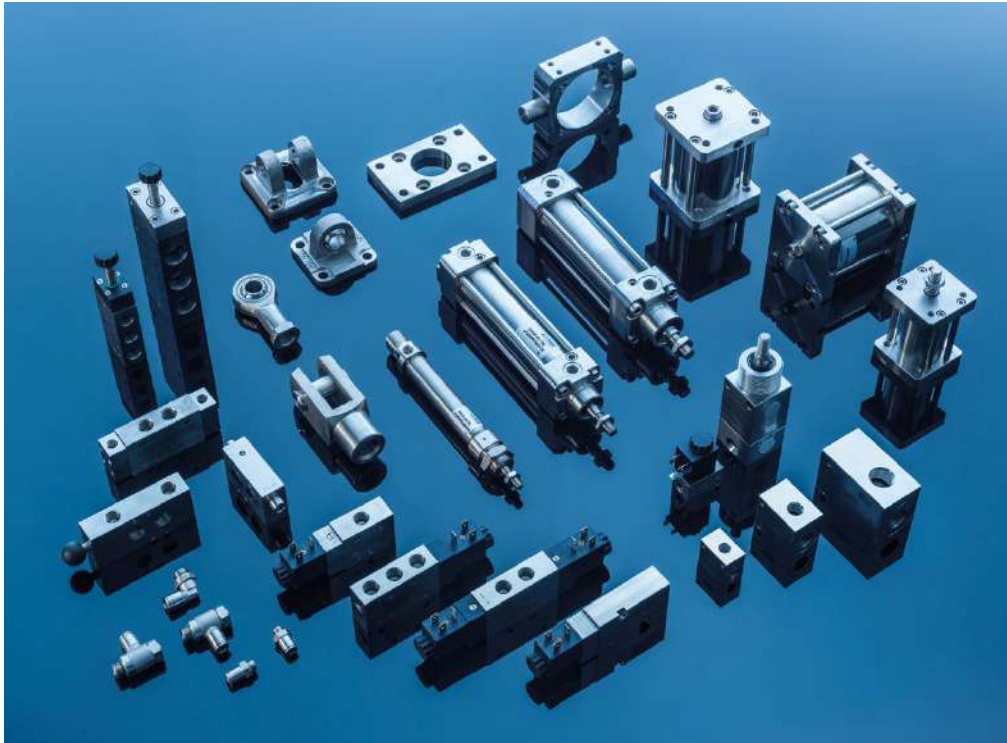


5-way valve for actuators with a "non-NAMUR interface" for valve automation



5-way valve for actuators with a "non-NAMUR interface" for valve automation

PNEUMATICS FOR DEMANDING CONDITIONS



If solid stainless steel devices are not an option for cost or weight reasons, special coatings, e.g. "EMATAL," and the replacement of individual parts (stainless steel instead of brass) can achieve very good results.

Stainless steel pneumatics from JOYNER

- Round, compact, and drawbar cylinders
- Piston diameter 8 to 200 mm
- G 1/4" and G 1/2" valves
- Manually, mechanically, pneumatically, and electrically operated valves
- Valves according to NAMUR 1 and NAMUR 2
- Customized adaptations of cylinders and valves
- Wide range of accessories such as attachments and screw connections



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Stainless steel cylinders for underwater use

PNEUMATICS FOR DEMANDING CONDITIONS



The plus at sub-zero temperatures – low-temperature valves down to -50 °C

- G 1/8", G 1/4" and G 1/2" valves
- Manually, mechanically, pneumatically, and electrically operated
- Valves according to NAMUR 1 and NAMUR 2
- Cylinders with scrapers to prevent icing
- Also available in stainless steel

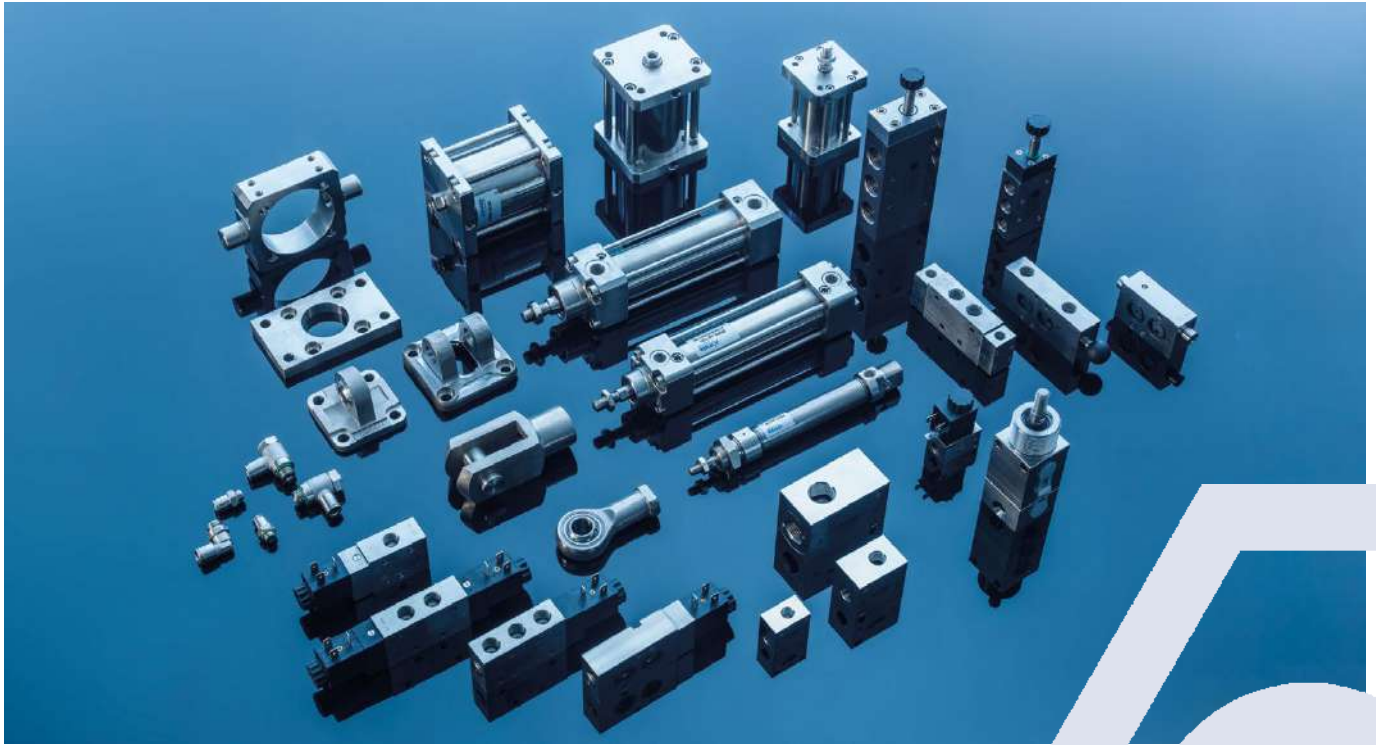
By using our innovative TT
AIR sealing system, even
wider temperature ranges
can be achieved.
Ideal for commercial,
municipal and rail vehicles.

Products for higher temperatures

- Virtually all JOYNER cylinders can be supplied for elevated temperature ranges
- Solenoid valves up to 80 °C
- Manually and pneumatically operated valves up to 120 °C
- Throttles up to 120 °C up to connection size G 3/4"



PNEUMATICS FOR POTENTIALLY EXPLOSIVE ATMOSPHERES



Cylinders for potentially explosive atmospheres

- Suitable for zones 1, 21, 2, and 22
- Round, compact, profile, and tie rod cylinders
- Cylinders made of aluminum and stainless steel
- Can be used in gas and dust atmospheres



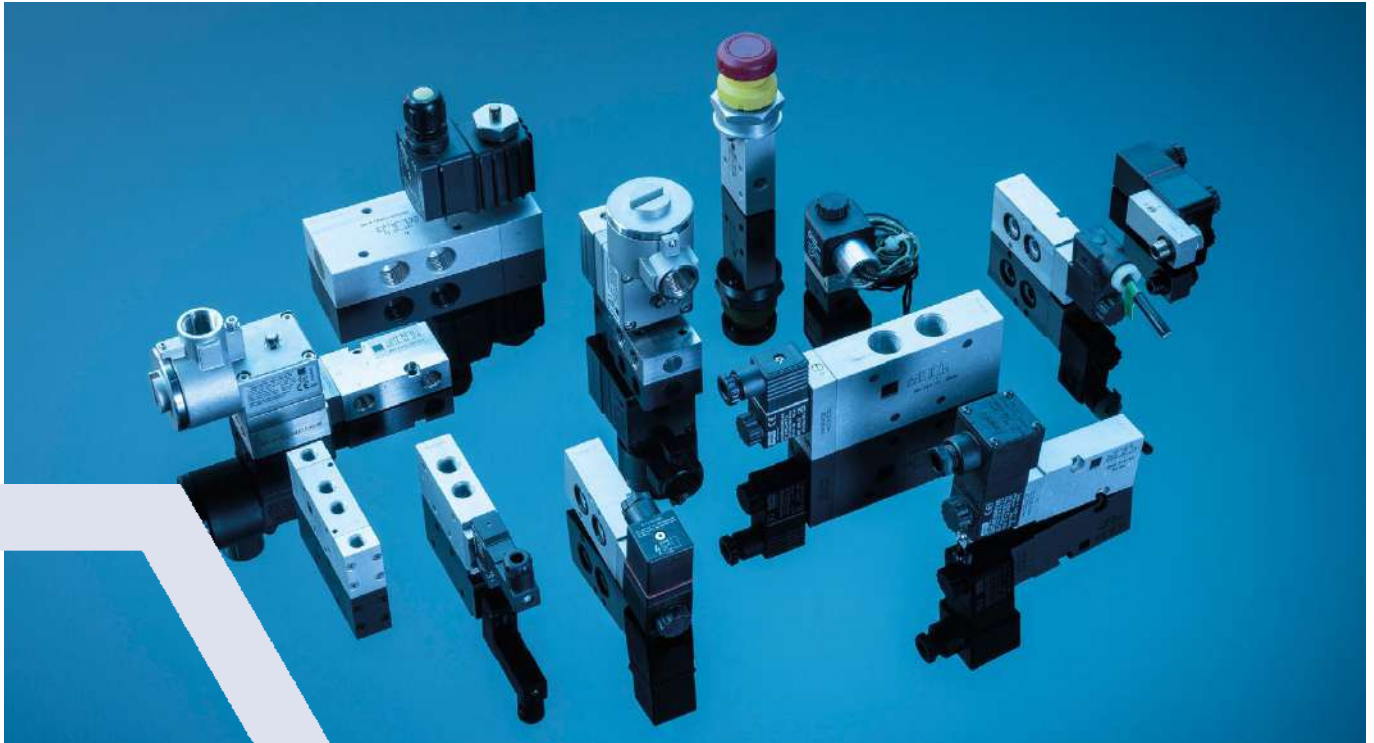
Cylinder-Valve Units ATEX-certified

ATEX-certified components can be used to easily assemble cylinder-valve units that can be used in potentially explosive atmospheres.

- Cylinder piston diameter 32 to 320 mm
- Also available in stainless steel up to piston diameter 200 mm



PNEUMATICS FOR POTENTIALLY EXPLOSIVE ATMOSPHERES



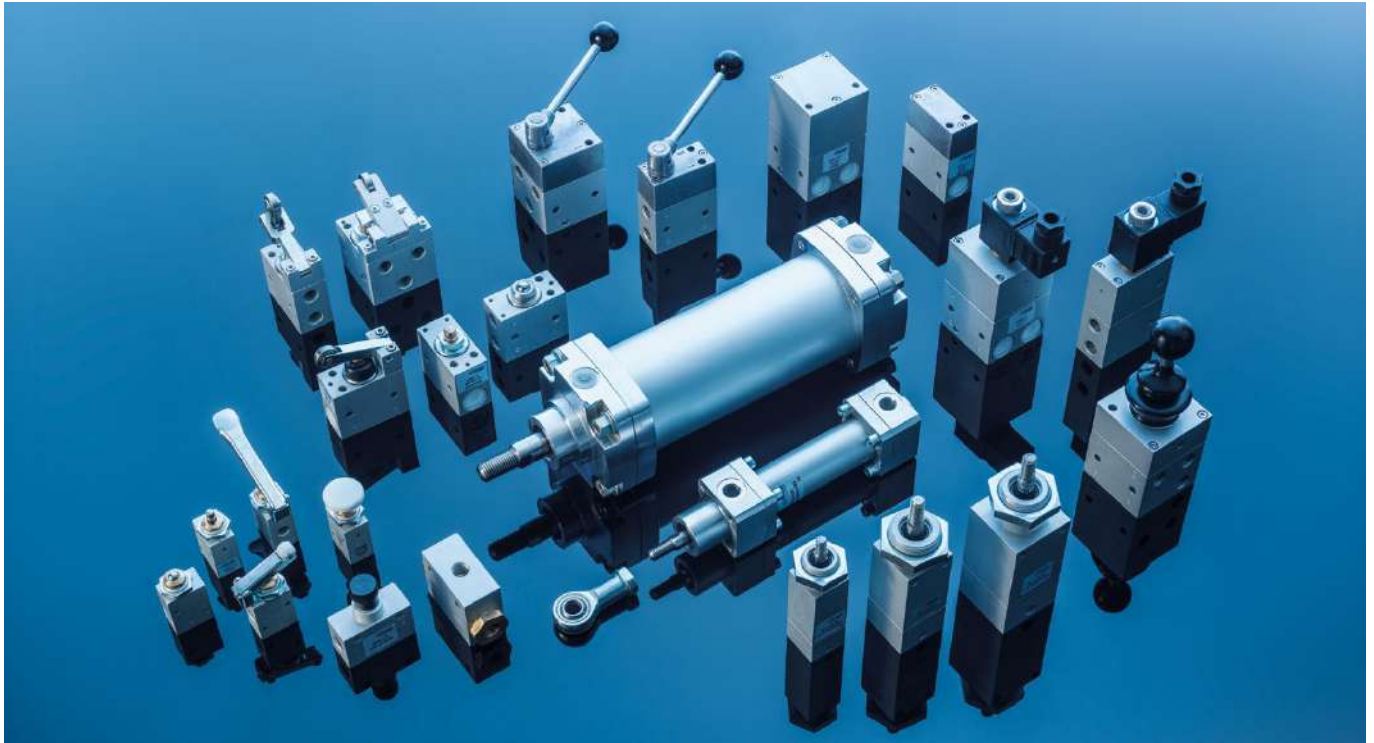
Valves for potentially explosive atmospheres

- Suitable for zones 1, 21, 2, and 22
- Manually, pneumatically, and electrically operated valves
- Valves made of aluminum and stainless steel
- Can be used in gas and dust atmospheres
- Also suitable for low temperatures
- Magnets with ignition protection types ec, m, emb, dm, d
- Intrinsically safe devices



For logic elements, control
and non-return valves,
and NAMUR accessories,
"Certificates of Conformity"
can often be issued.

PNEUMATIC COMPONENTS "KNORR"



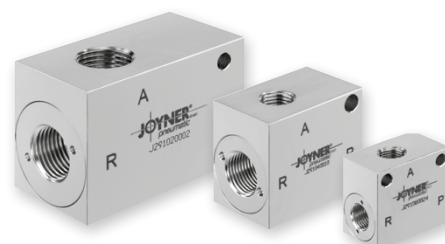
"KNORR" Valve Series

- 2/2-, 3/2-, 5/2-, and 5/3-way valves
- Seat valves with G 1/4" or M 14 x 1.5 and G 1/2" connections
- Spool valves with G 1/8" and M10 x 1 connection

Actuation types:

- Mechanical
- Manual
- Electrical
- Pneumatic
- Control and non-return valves

This series is particularly well-suited for heavy-duty applications in automotive manufacturing.



Worldwide spare parts service for cylinders, valves, and spare parts kits.

PNEUMATIC COMPONENTS "KNORR"

Your pneumatic supplier is discontinuing a product line that you still need:
Contact JOYNER – we have already been able to help numerous customers.



"KNORR" cylinder series

Cylinders are particularly smooth-running thanks to the use of K-rings

DUJ universal cylinders

- Piston diameter 30 to 200 mm
- Double-acting
- Also available with reinforced piston rod and in heat-resistant design

Clamping cylinders type SDJ / SEJ

- Piston diameter 20, 30 and 40 mm
- Double-acting and single-acting
- Extremely compact dimensions
- Mounting options on the body



K-rings and complete pistons

K-rings

- External sealing K-rings, piston diameter 12 to over 400 mm
- Internally sealing K-rings, rod diameter 6 to 60 mm
- Also available in high-and low-temperature versions
- Long service life
- Ability to bridge a wide tolerance range

Complete pistons

- Piston diameter 20 to 200 mm
- Particularly smooth-running thanks to the use of the K-ring

PNEUMATIC ACCESSORIES



Flow control and non-return valves

- Available as connectable devices and as functional fittings
- Sizes M5 to G 3/4"
- Also available in stainless steel and for extended temperature ranges



Fittings

- Extensive range of fittings
- Made of plastic, nickel-plated brass, and stainless steel
- Plug-in fittings, connectors, fittings, silencers
- Connection sizes M5 to G 2", up to hose diameter 14 mm
- For extended temperature ranges upon request



PNEUMATIC ACCESSORIES



Pneumatic hose

- Pneumatic pipes and hoses
- POM, PA, PE, various materials and colors
- Duo and spiral hoses also available

Upon request, we can assemble your hoses, cut them to length, and fit the appropriate screw connections.



Also available in stainless steel.



Air preparation units

- Extensive range of maintenance units from Germany's leading manufacturer
- Various series made of grivity or die-cast metal
- Modular design for excellent configurability
- All three series offer a wide range of sizes
- Connection sizes from G 1/8" to larger than G 1" e.g., condensate separators up to 3", pressure regulators up to 1,5"
- Pressure switches



Headquarters

JOYNER pneumatic GmbH

Im Netzbrunnen 6 · D-70825 Korntal-Münchingen
 Telefon +49 (0) 7150 91312-0 · Telefax +49 (0) 7150 91312-10
 Internet: www.joyner.de · E-Mail: info@joyner.de

JOYNER pneumatic GmbH

Schimmelbuschstraße 9 · D-40699 Erkrath
 Telefon +49 (0) 2104 3035-40 · Telefax +49 (0) 2104 3035-55
 Internet: www.joyner.de · E-Mail: erkrath@joyner.de

JOYNER PROGRAM PORTFOLIO:



Round Cylinders



DIN ISO 15552 Cylinders



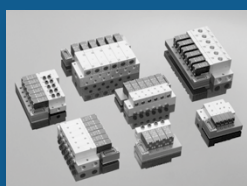
Compact Cylinders
DIN ISO 21287



Pneumatic Products
KNORR SERIES



Rodless Linear Cylinders



Valve Terminals
Interlocking Systems



Spool Valves



NAMUR Valves



Manual and Mechanical
Actuated Valves



K-rings and Complete Pistons

Moving more than just air

REPRESENTATIVES:

NORDBADEN, SAAR, PFALZ

Hekomatic

Drucklufttechnische Anlagen GmbH
 Marconistraße 17-21
 D-68309 Mannheim
 Phone +49 (0) 621 722963
 Telefax +49 (0) 621 722964
 Email: info@hekomatic.de

NORDDEUTSCHLAND

Wille GmbH

Engineering office for compressed air technology

Stickgraser Allee 1
 D-27751 Delmenhorst
 Phone +49 (0) 4221 45 009-0
 Telefax +49 (0) 4221 45 009-30
 Email: info@wille-gmbh.de