3/2-directional valve, Series ST

- With spring return
- Qn = 280 l/min
- Compressed air connection output G 1/8
- single solenoid
- Pipe connection

Type	Spool valve
Activation	Mechanical
Lock type	not lockable
Switching principle	3/2
Sealing principle	metal/metal sealing
Nominal flow Qn	280 l/min
Working pressure min./max.	2 ... 10 bar
Ambient temperature min./max.	-15 ... 80 °C
Medium temperature min./max.	-15 ... 80 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	5 ... 25 mg/m³
Mounting screw	M4 with hexagon socket
Mounting screw tightening torque	2,5 Nm
Weight	See table below

An example configuration is illustrated. The delivered product may thus deviate from the illustration.

Technical data

Part No.		Actuating element	Compressed air connection type	Compressed air connection Input
0820402014		Ball	Internal thread	G 1/8
0820402015		Nozzle	Internal thread	G 1/8
0820402018		Nozzle	Internal thread	G 1/8
0820402023		Spring-loaded rod	Internal thread	G 1/8

Part No.	Compressed air connection Output	Compressed air connection Exhaust	Material actuating control	Weight
0820402014	G 1/8	G 1/8	Stainless steel	0,18 kg
0820402015	G 1/8	G 1/8	Brass	0,17 kg
0820402018	G 1/8	G 1/8	Brass	0,16 kg
0820402023	G 1/8	G 1/8	-	0,18 kg

Part No.	Fig.	
0820402014	Fig. 1	-
0820402015	Fig. 2	-
0820402018	Fig. 3	-
0820402023	Fig. 4	1)

Nominal flow Qn at 6 bar and Δp = 1 bar

1) See diagram

Technical information

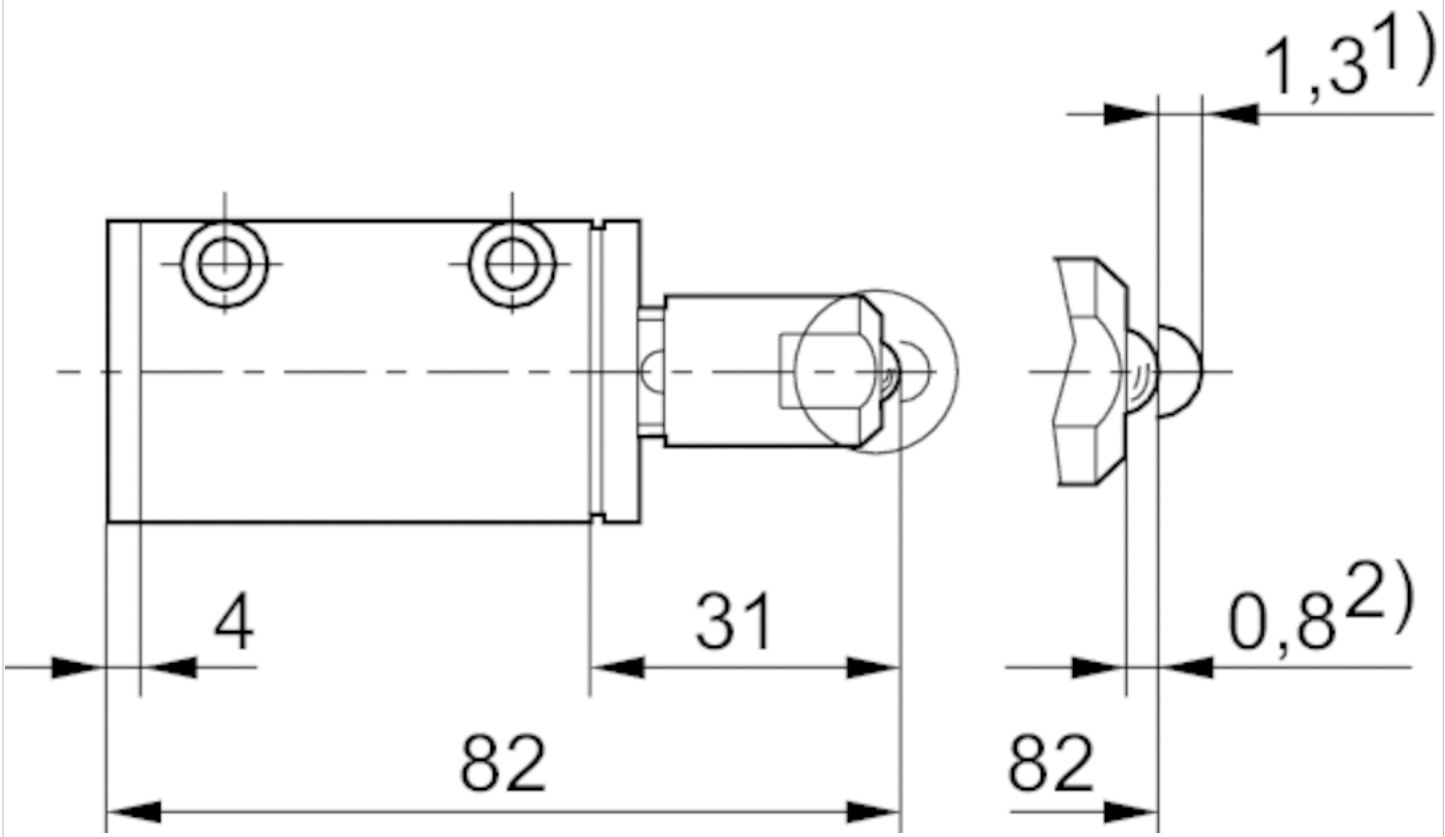
Notice: This product may only be operated with oiled compressed air.

Technical information

Material	
Housing	Stainless steel, hardened
Seals	Acrylonitrile butadiene rubber
Actuating element	Stainless steel Brass
Front cover	Aluminum Brass Polyamide
Threaded bushing	Brass

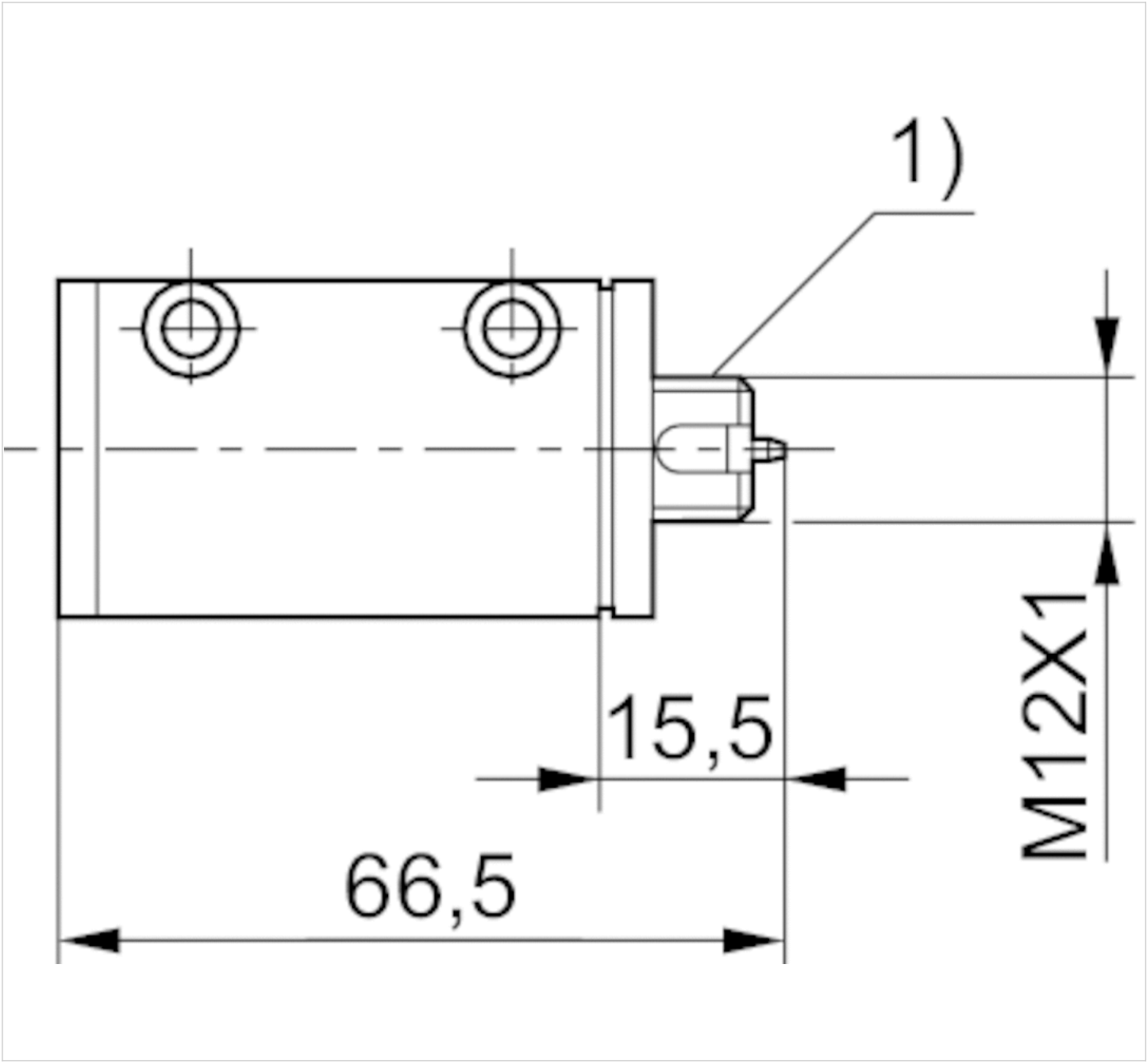
Dimensions

Dimensions, Fig. 1



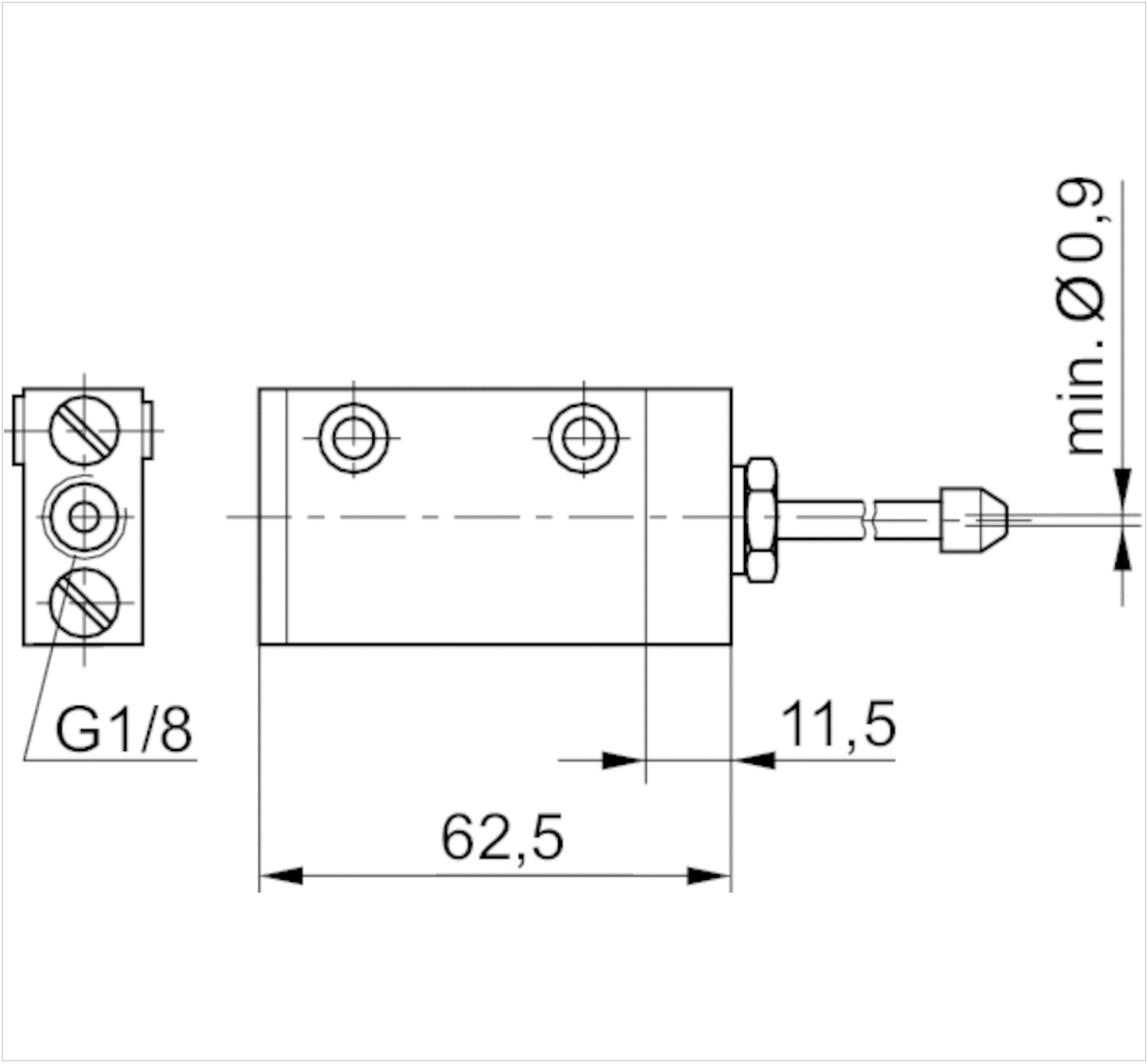
1) Actuating stroke 2) overstroke
connection via 2 through-holes in housing

Dimensions, Fig. 2



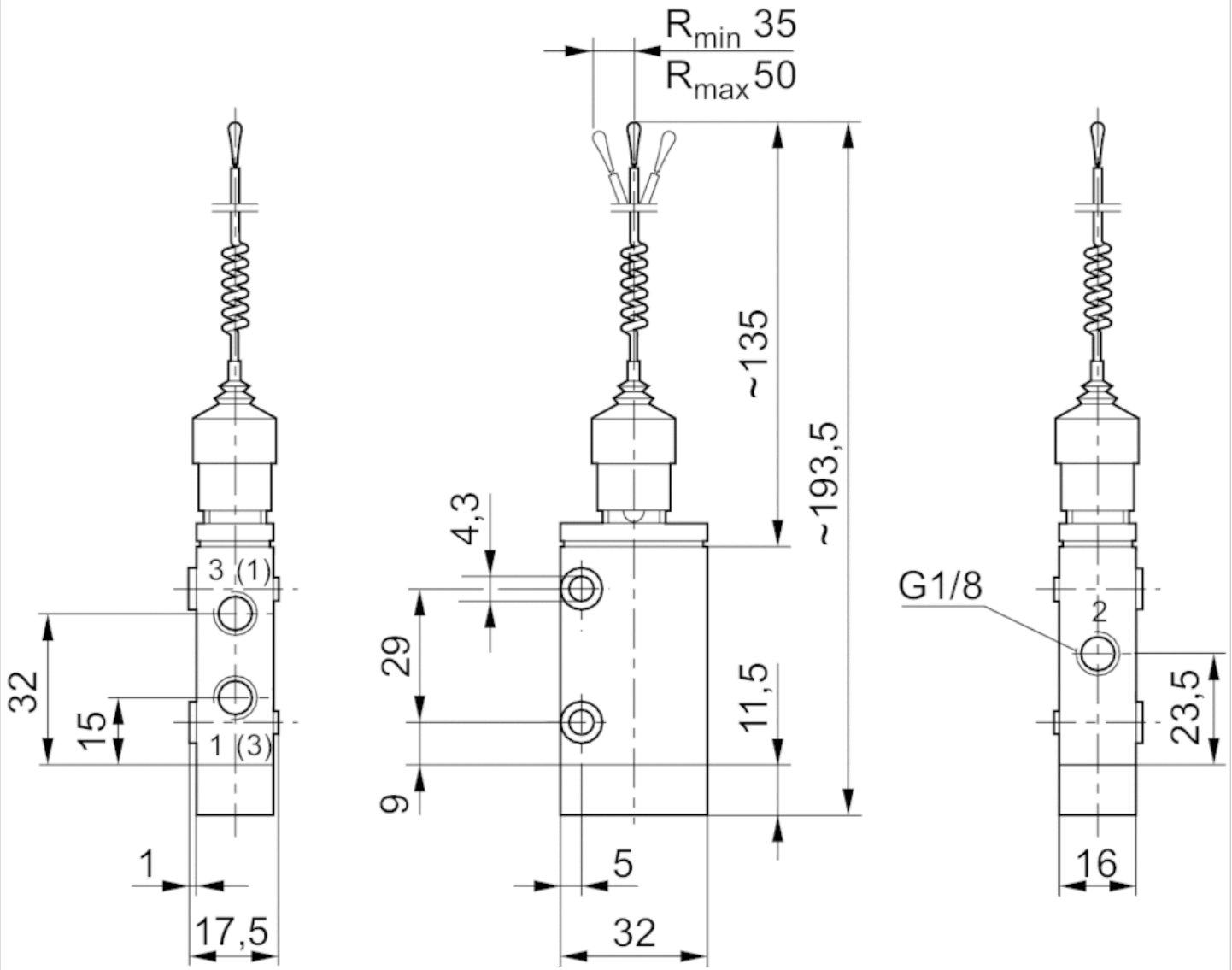
1) not intended as mounting thread
Mounting via 2 through-holes in housing

Dimensions, Fig. 3



Mounting via 2 through-holes in housingnozzle and tubing, not included in scope of delivery

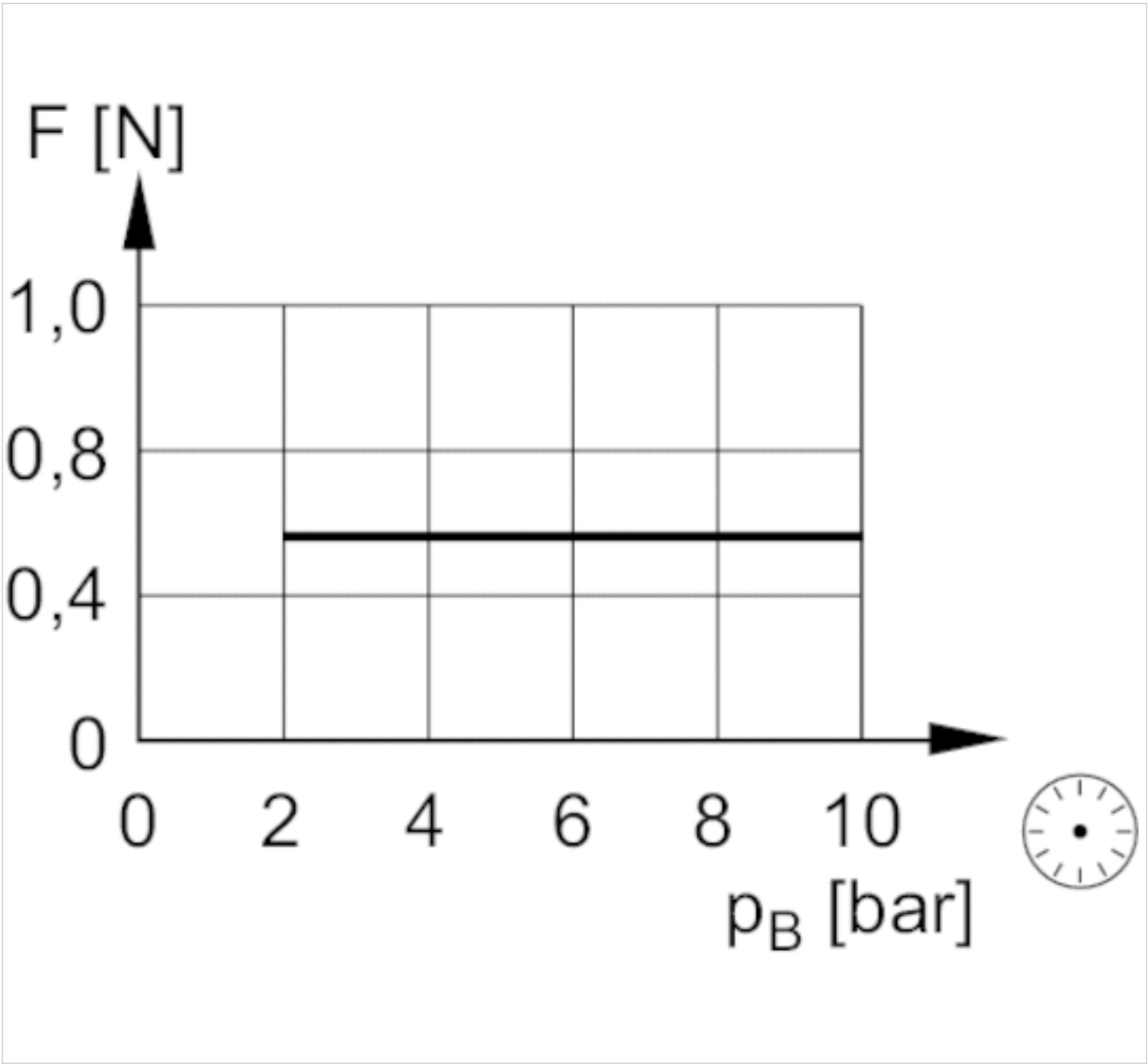
Dimensions, Fig. 4



Mounting via 2 through-holes in housing

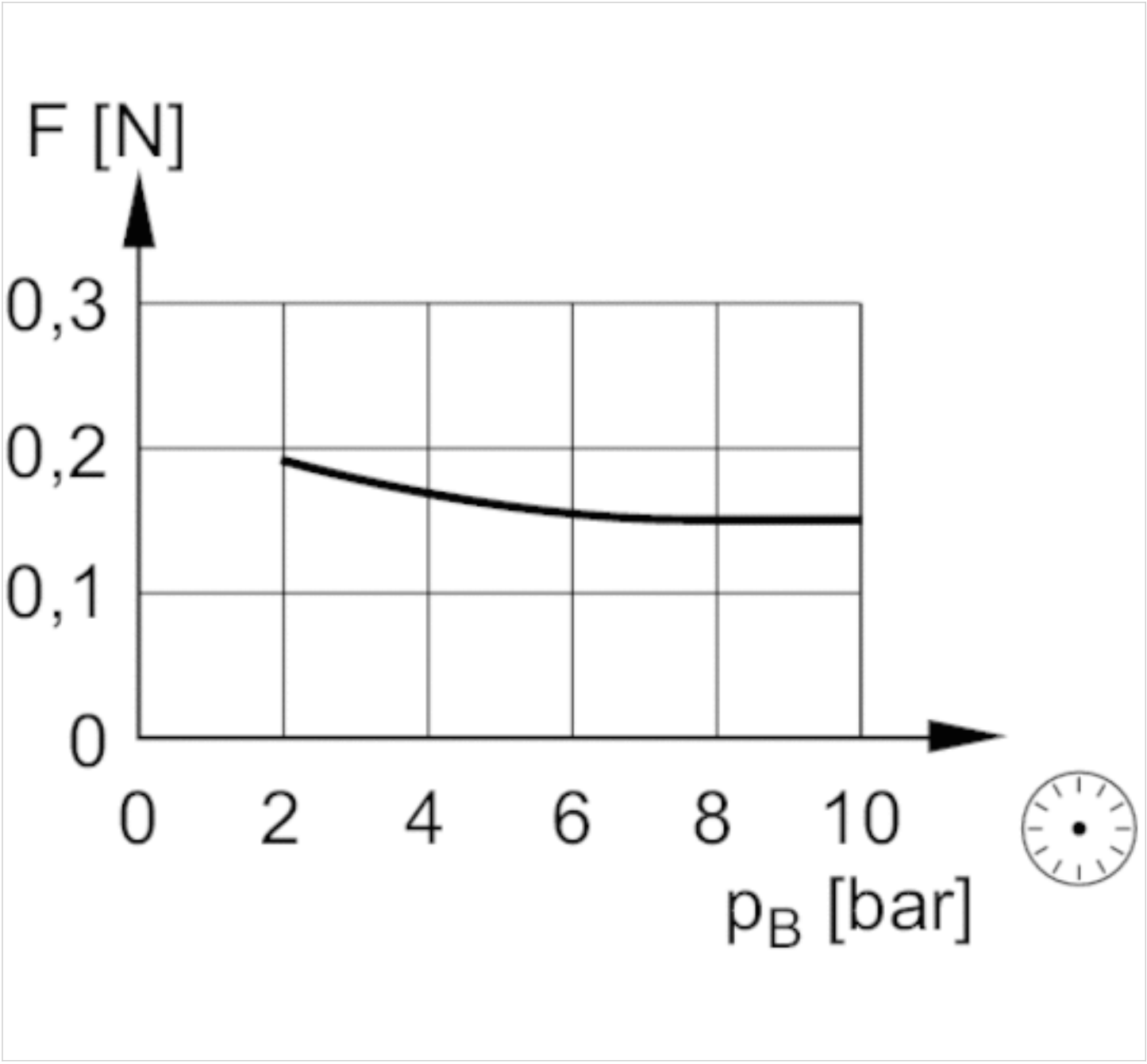
Diagrams

Diagram, Fig. 1



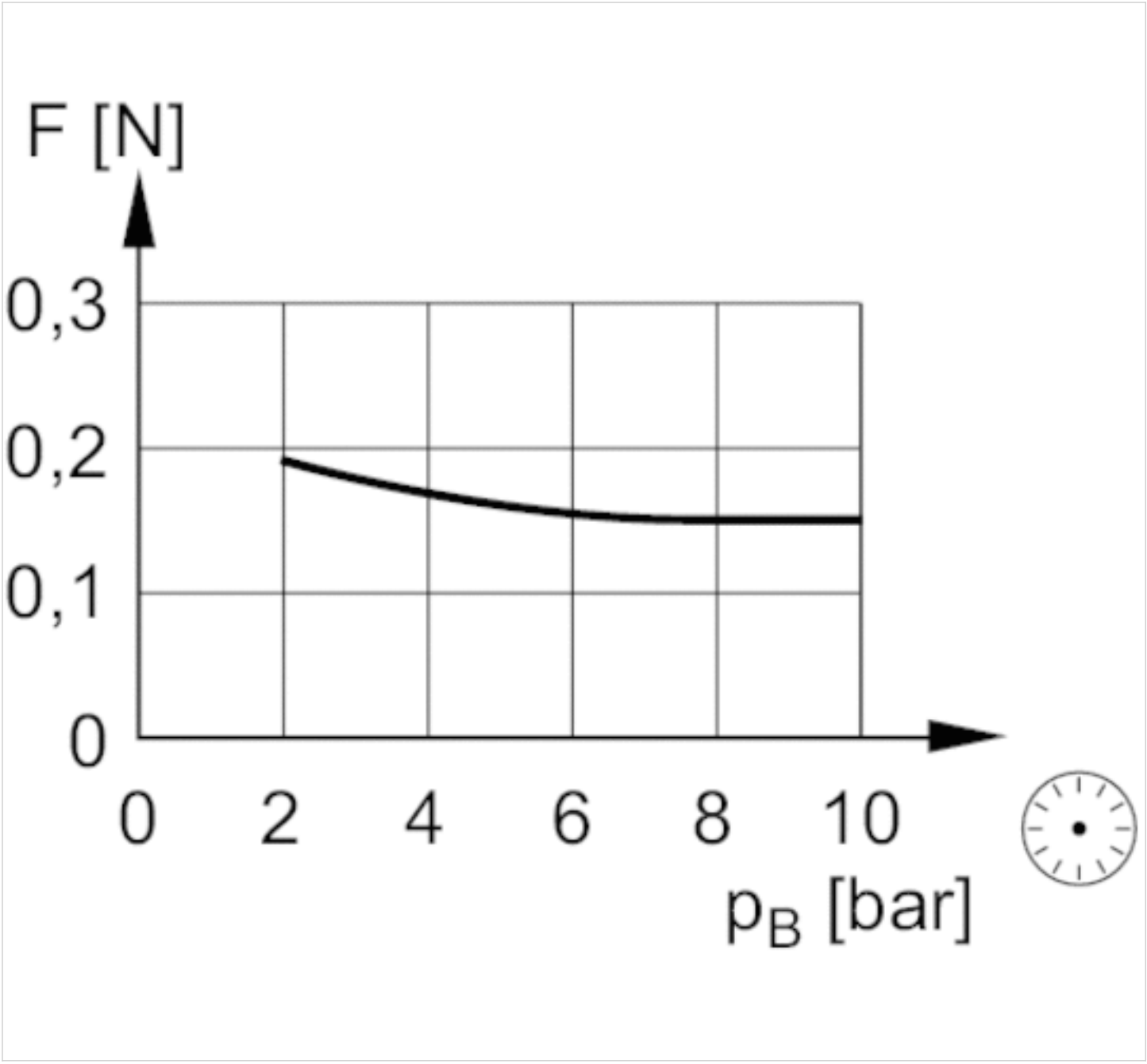
F = actuating force at the rear end of the spring-loaded rod
PB= Working pressure

Diagram, Fig. 2



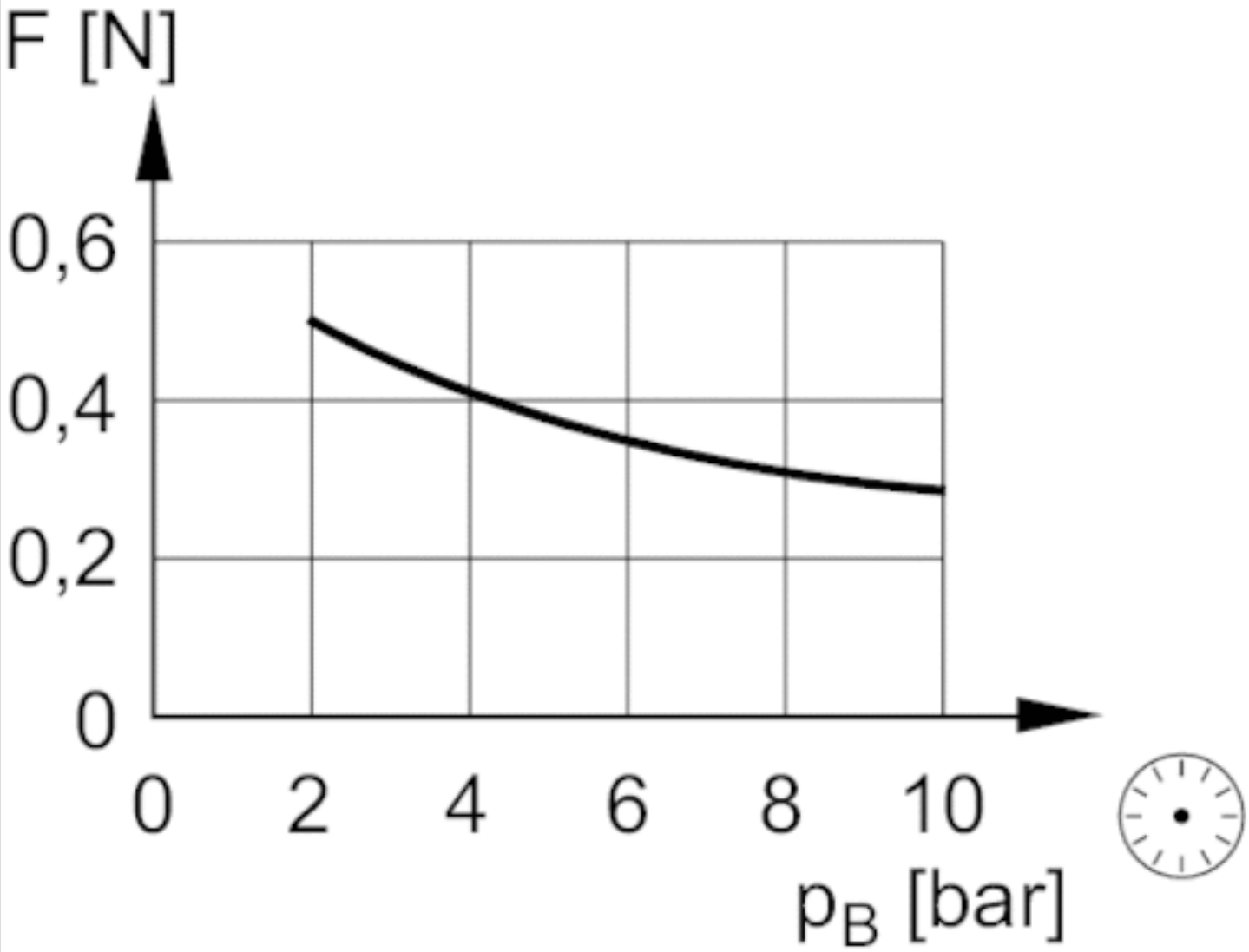
F = actuating force at the rear end of the spring-loaded rod
PB= Working pressure

Diagram, Fig. 3



F = actuating force at the rear end of the spring-loaded rod
PB= Working pressure

Diagram, Fig. 4



F = actuating force at the rear end of the spring-loaded rod
PB= Working pressure

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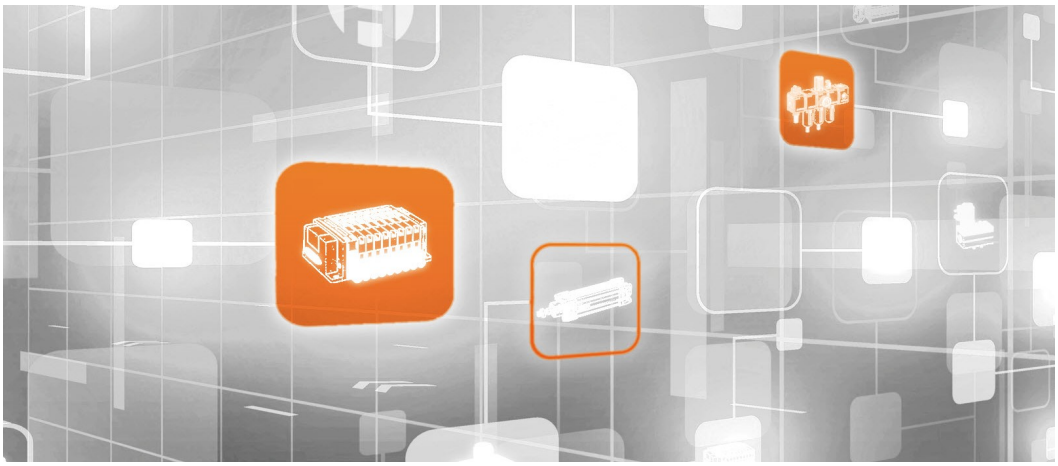

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