

# 3/2-directional valve, Series ST





- With spring return
- $Q_n = 280 \text{ l/min}$
- 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 $Q_n$	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  $Q_n$  at 6 bar and  $\Delta p = 1 \text{ bar}$

1) See diagram

Technical information

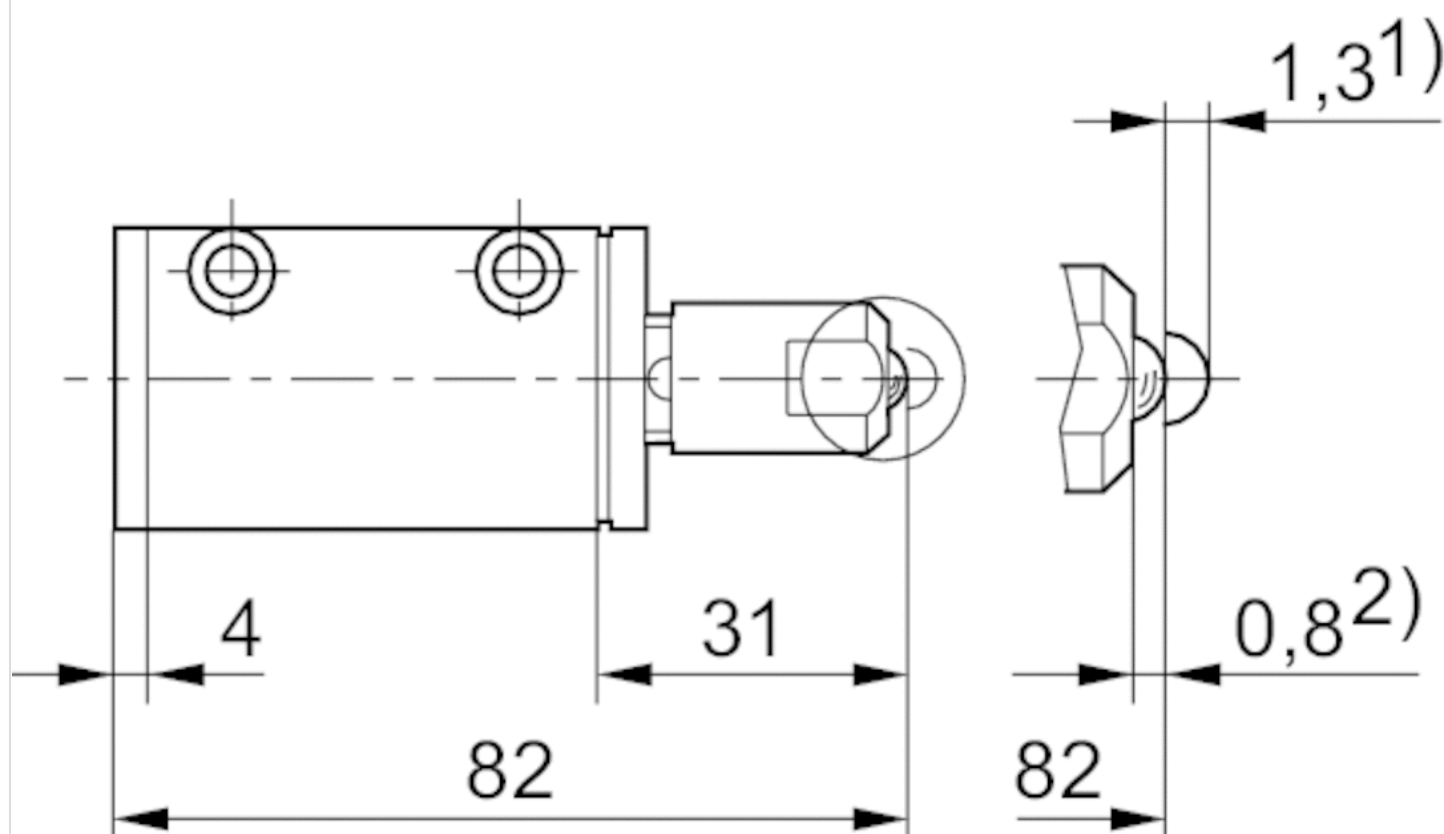
Notice: This product may only be operated with oiled compressed air.

Technical information

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

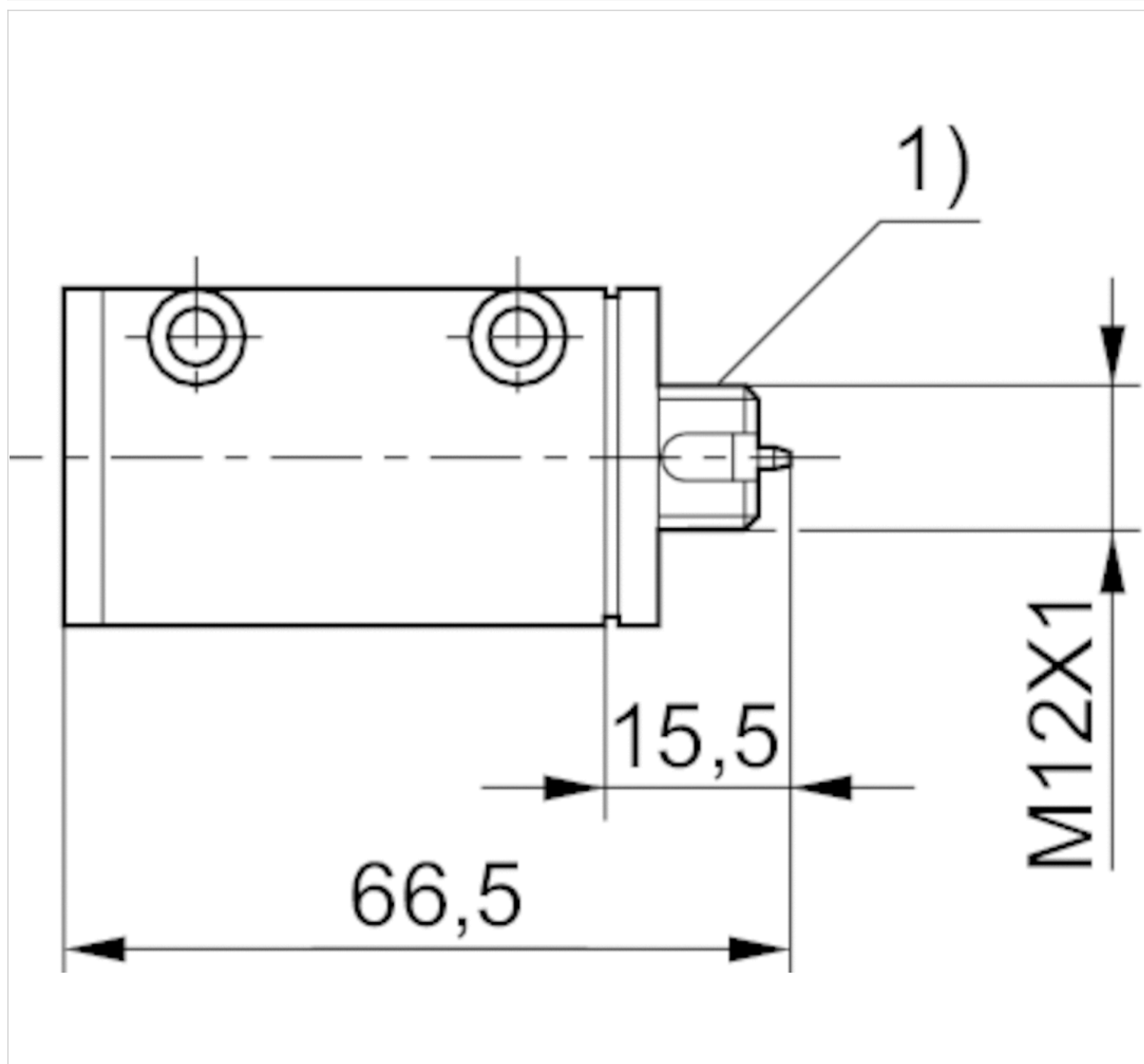
## Dimensions

### Dimensions, Fig. 1



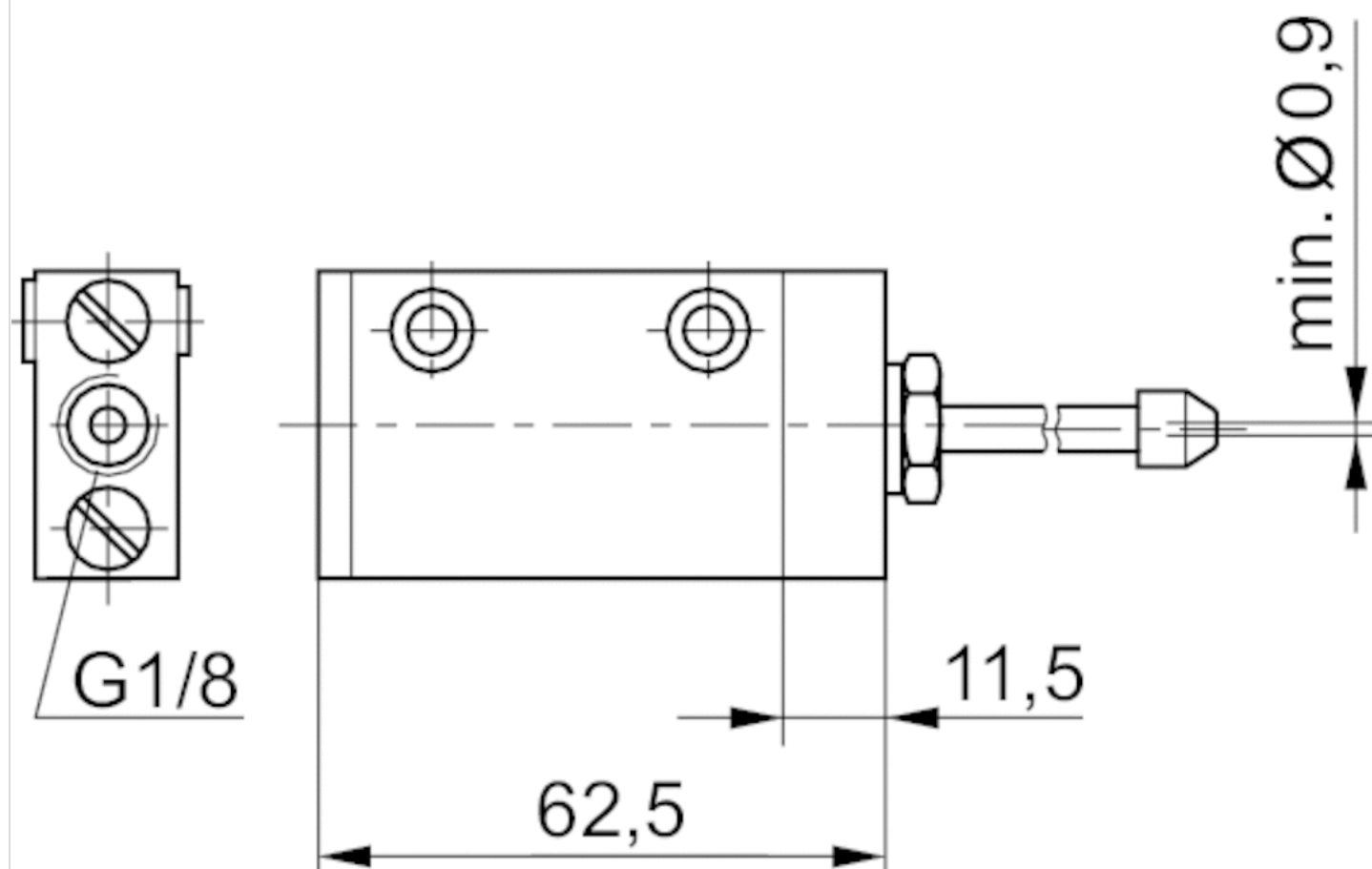
1) Actuating stroke 2) overstroke  
connection via 2 through-holes in housing

Dimensions, Fig. 2



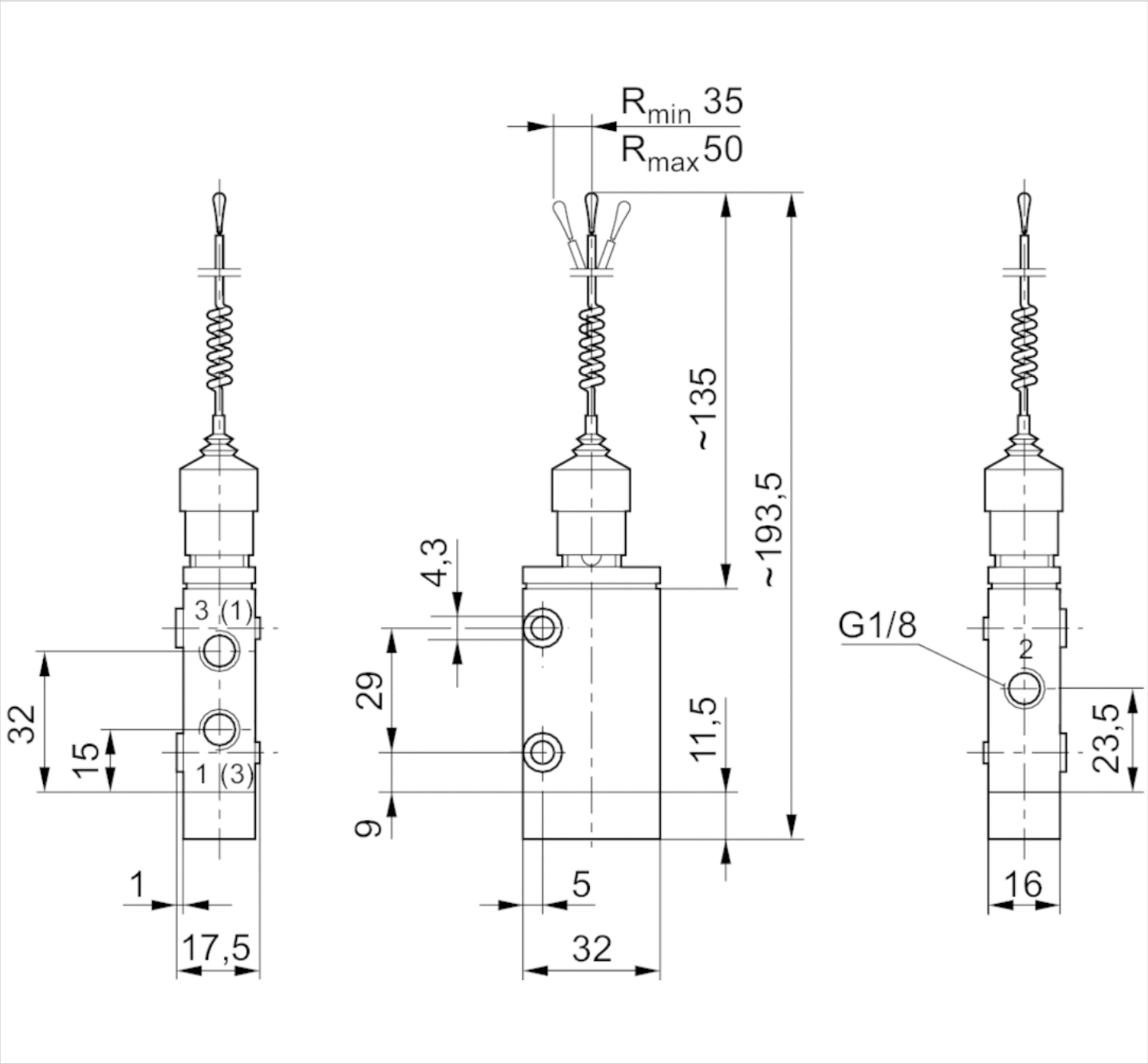
1) not intended as mounting thread  
Mounting via 2 through-holes in housing

Dimensions, Fig. 3



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

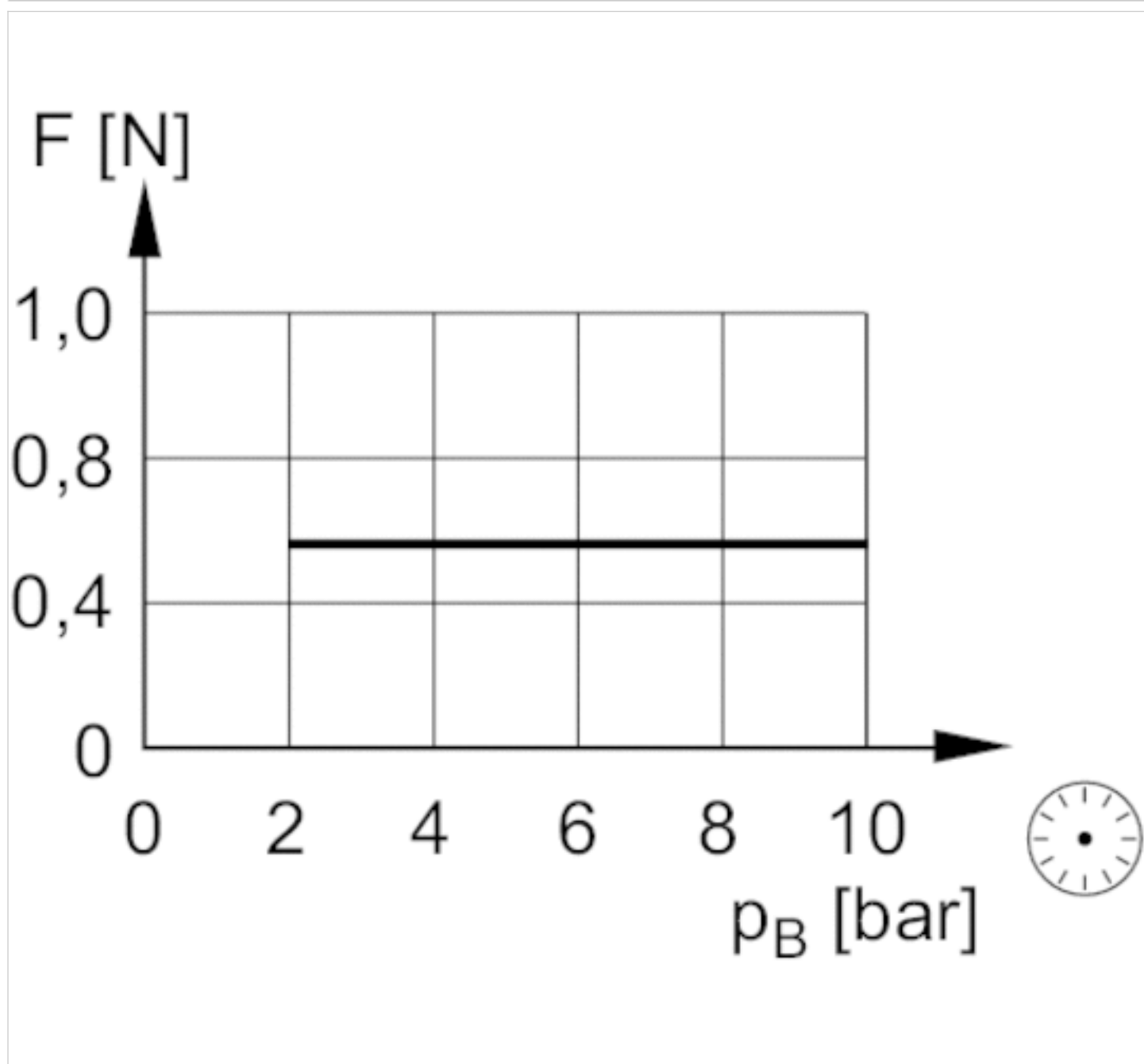
Dimensions, Fig. 4



Mounting via 2 through-holes in housing

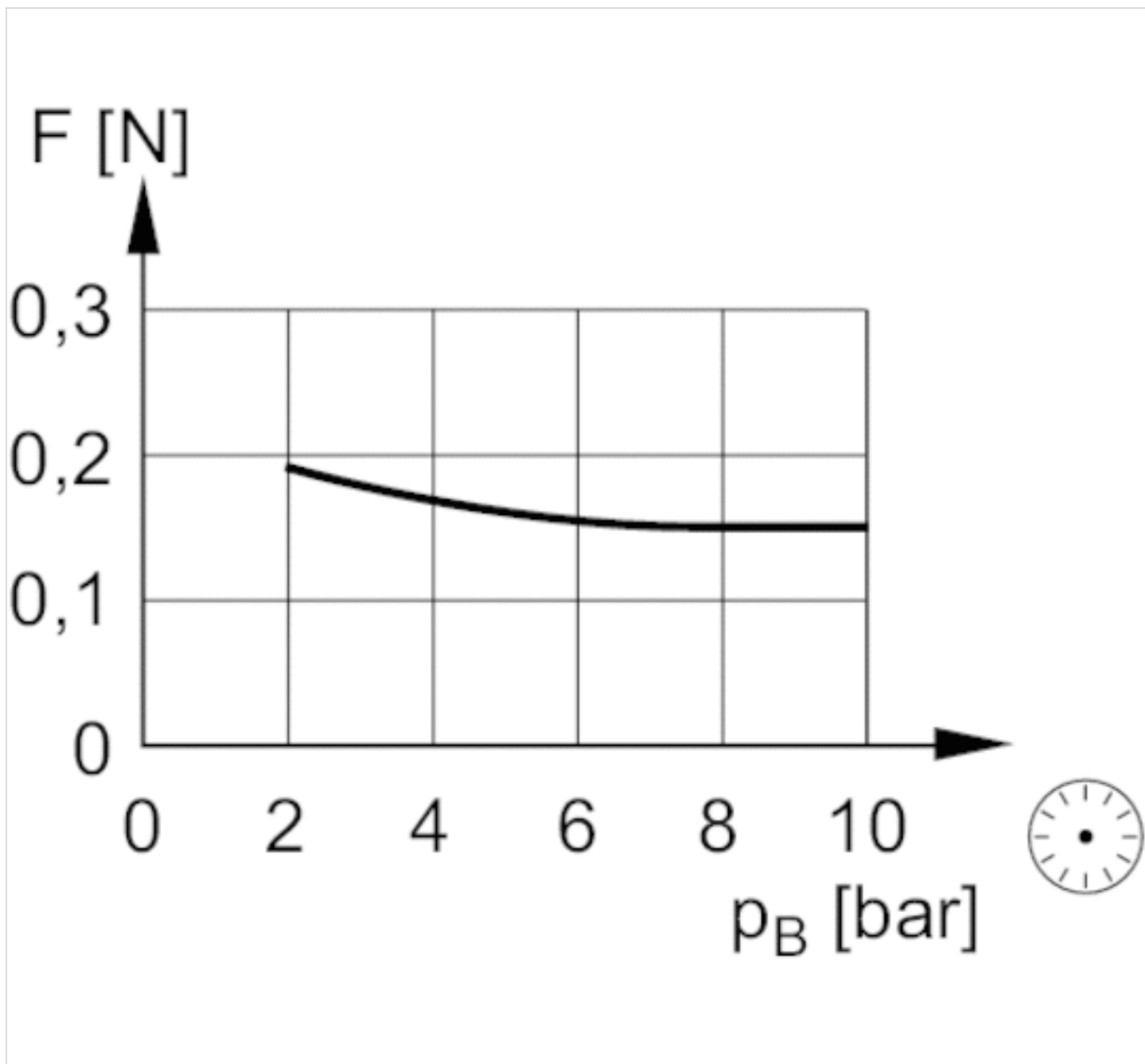
## Diagrams

Diagram, Fig. 1



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

Diagram, Fig. 2

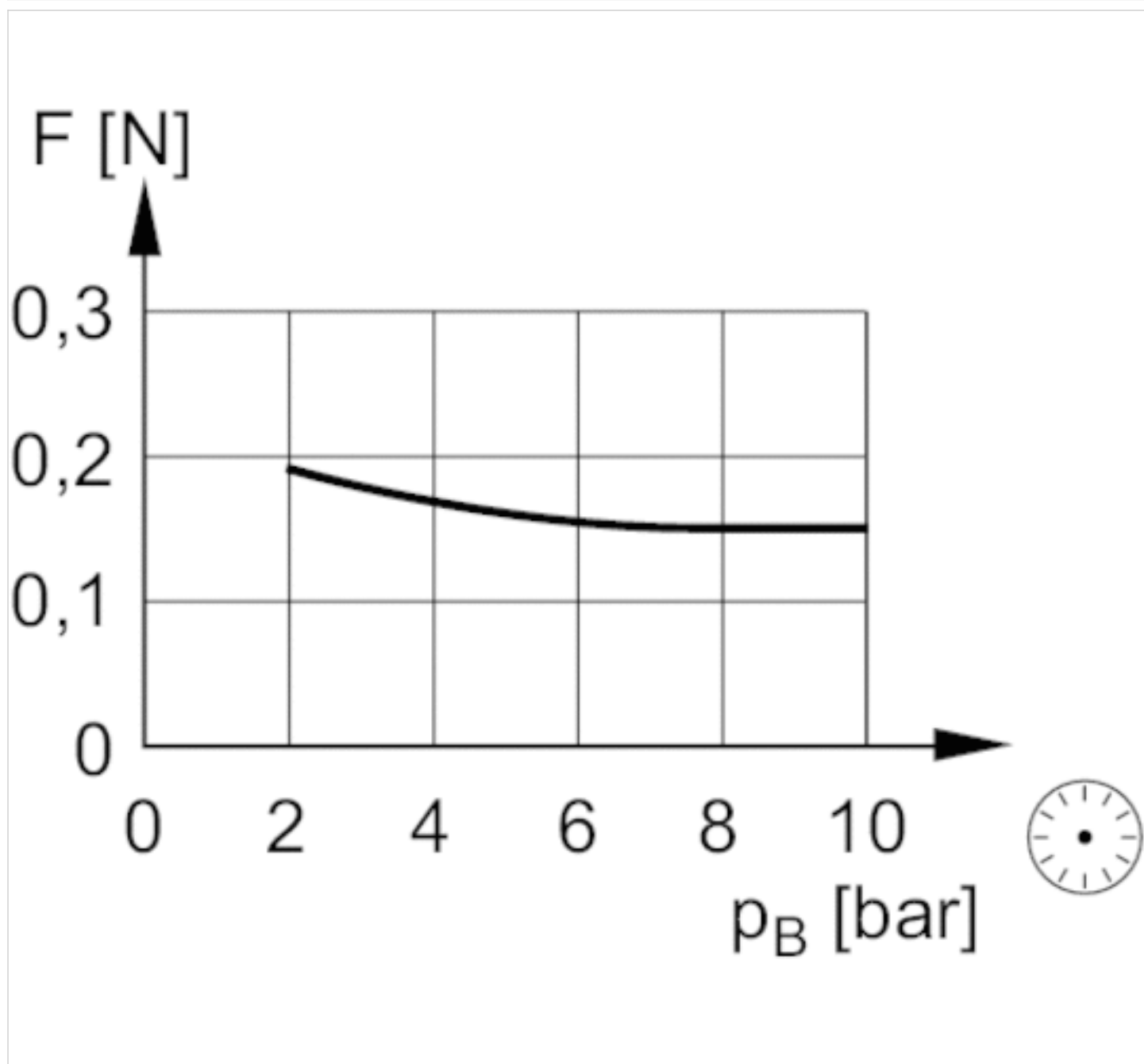


$F$  = actuating force at the rear end of the spring-loaded rod

$p_B$  = Working pressure



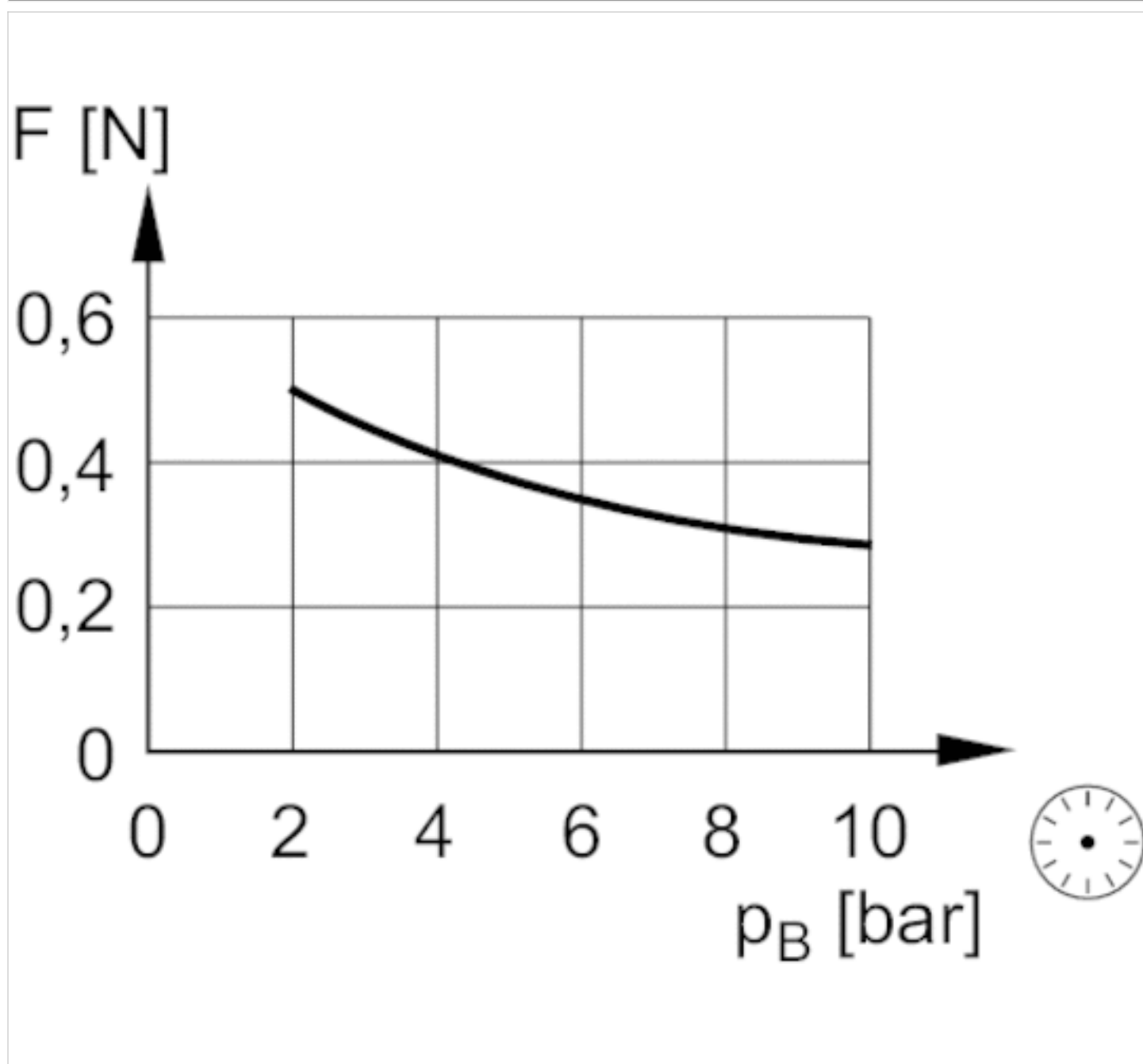
Diagram, Fig. 3



$F$  = actuating force at the rear end of the spring-loaded rod

$p_B$  = Working pressure

Diagram, Fig. 4



$F$  = actuating force at the rear end of the spring-loaded rod

$p_B$  = Working pressure

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An example configuration is depicted on the title page. The delivered product may thus vary from that in the illustration. Subject to change. This Document, as well as the data, specifications and other information set forth in it, are the exclusive property of AVENTICS GmbH. It may not be reproduced or given to third parties without its consent. Only use the AVENTICS products shown in industrial applications. Read the product documentation completely and carefully before using the product. Observe the applicable regulations and laws of the respective country. When integrating the product into applications, note the system manufacturer's specifications for safe use of the product. The data specified only serve to describe the product. No statements concerning a certain condition or suitability for a certain application can be derived from our information. The information given does not release the user from the obligation of own judgement and verification. It must be remembered that the products are subject to a natural process of wear and aging.

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