

3/2-directional valve, Series AP

- Qn 1►2 = 190 l/min
- Qn 2►3 = 150 l/min
- Compressed air connection output M5
- Pipe connection



Type	Poppet valve
Activation	Mechanical
Switching principle	3/2
Working pressure min./max.	0 ... 10 bar
Ambient temperature min./max.	-30 ... 80 °C
Medium temperature min./max.	-30 ... 80 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 ... 5 mg/m³
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
0820408001		Plunger	Internal thread	M5
0820408002		Roller	Internal thread	M5
0820408003		Roller lever, one-way trip	Internal thread	M5
0820408004		Push button	Internal thread	M5
0820408005		Lever	Internal thread	M5
R450055451		panel installation	Internal thread	M5

Part No.	Compressed air connection Output	Flow		Weight	Fig.	
		Qn 1 ► 2	Qn 2 ► 3			
0820408001	M5	190 l/min	150 l/min	0,036 kg	Fig. 1	-
0820408002	M5	190 l/min	150 l/min	0,05 kg	Fig. 2	-
0820408003	M5	190 l/min	150 l/min	0,055 kg	Fig. 3	-
0820408004	M5	190 l/min	150 l/min	0,05 kg	Fig. 4	-
0820408005	M5	190 l/min	150 l/min	0,042 kg	Fig. 5	-
R450055451	M5	190 l/min	150 l/min	0,068 kg	Fig. 6	1)

Nominal flow Qn at 6 bar and $\Delta p = 1$ bar

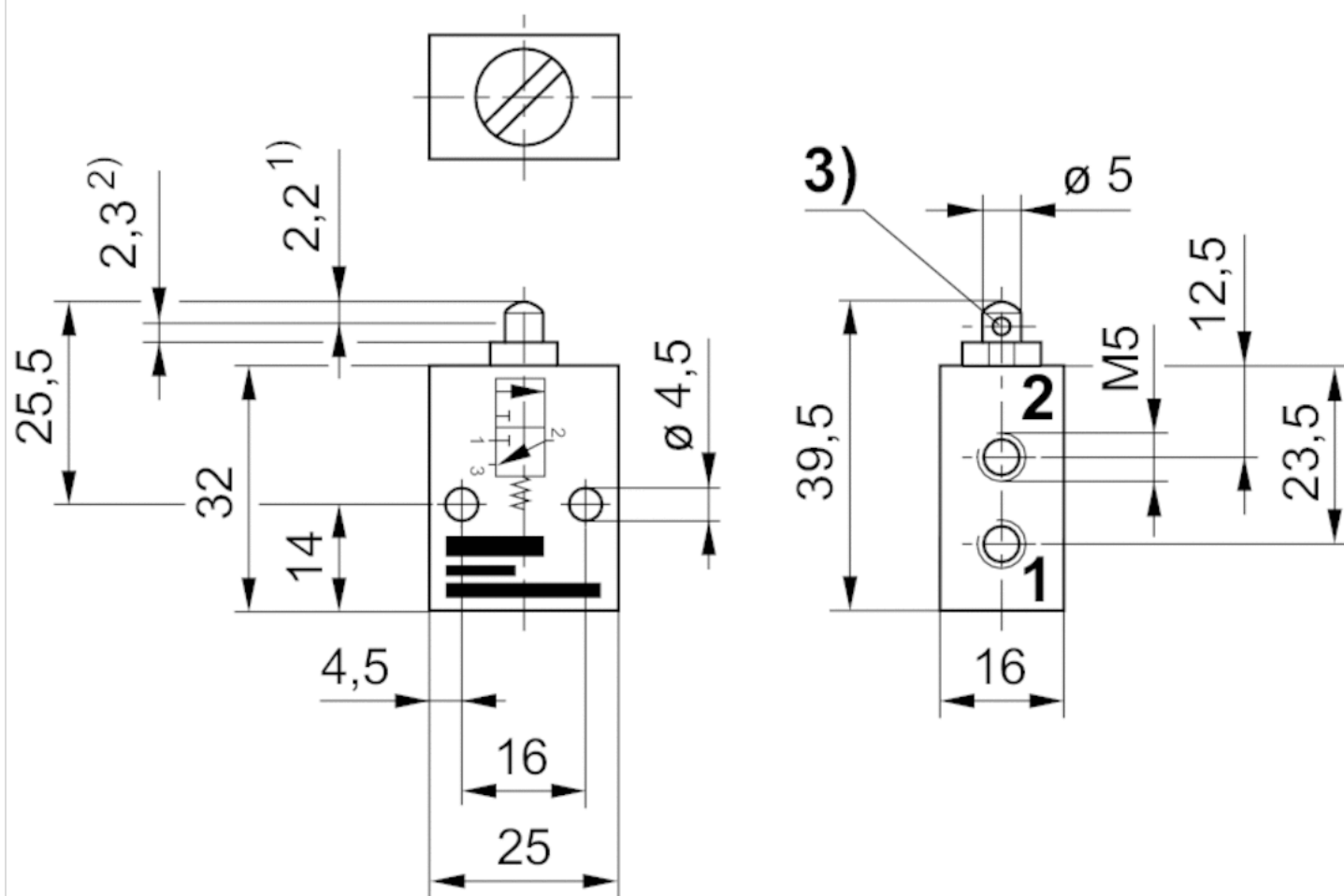
1) Please order control button separately., Cannot be combined with mushroom button with detent and rotary release R412012741

Technical information

Material	
Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions, Fig. 1, Basic valve



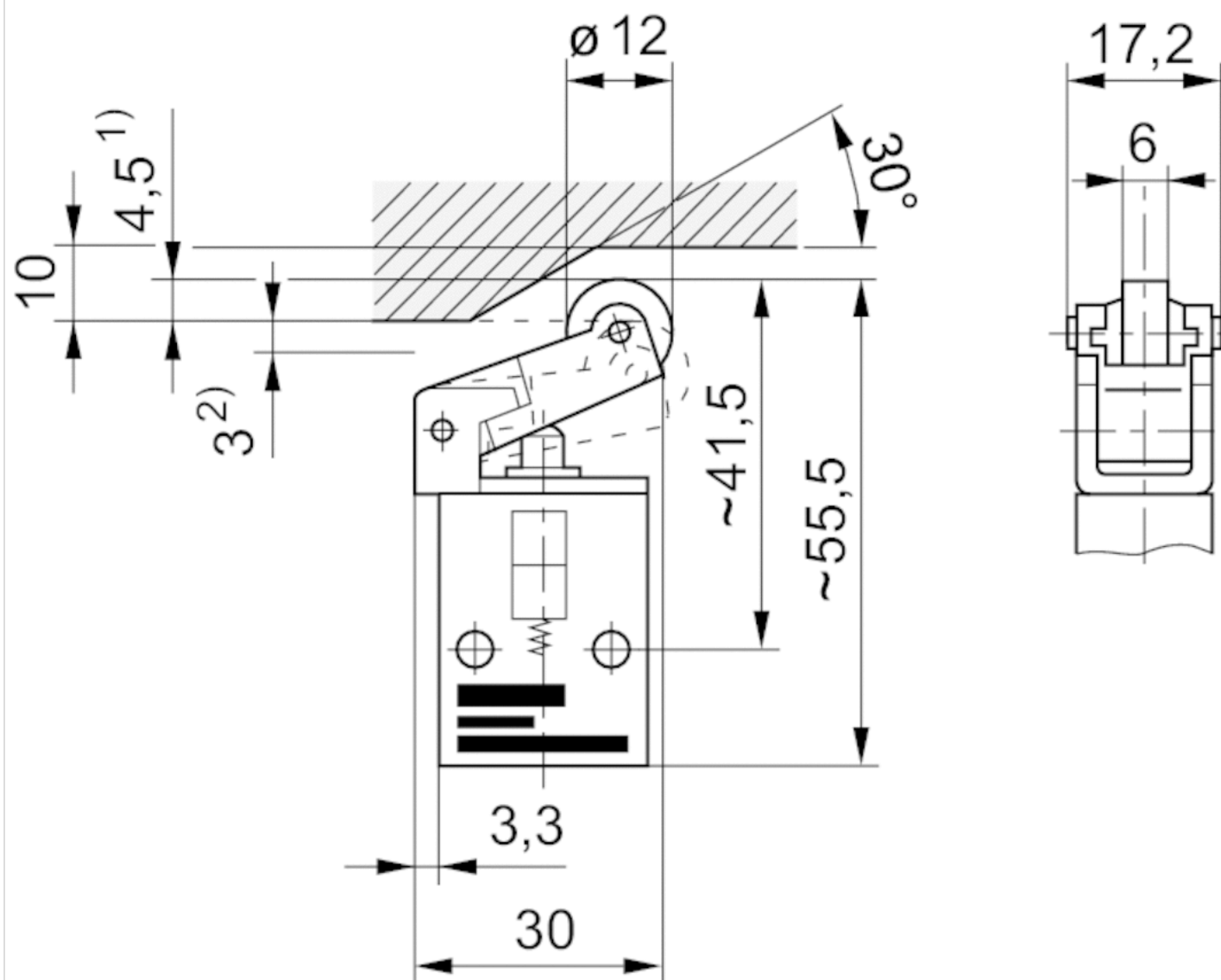
1) actuating stroke

2) overstroke

3) Exhaust

Dimensions of basic valve apply to all types of actuation.

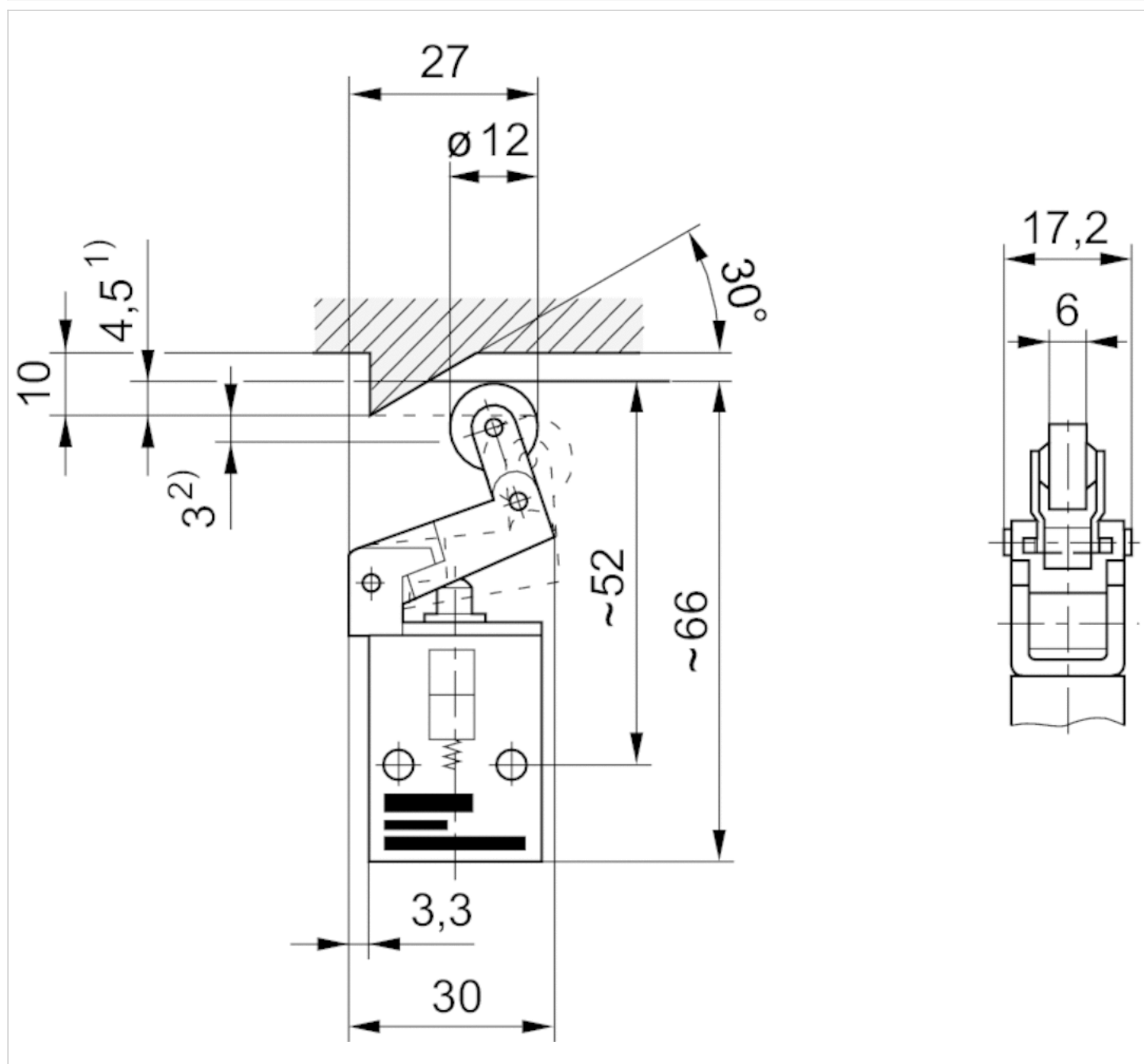
Dimensions, Fig. 2



1) actuating stroke

2) overstroke

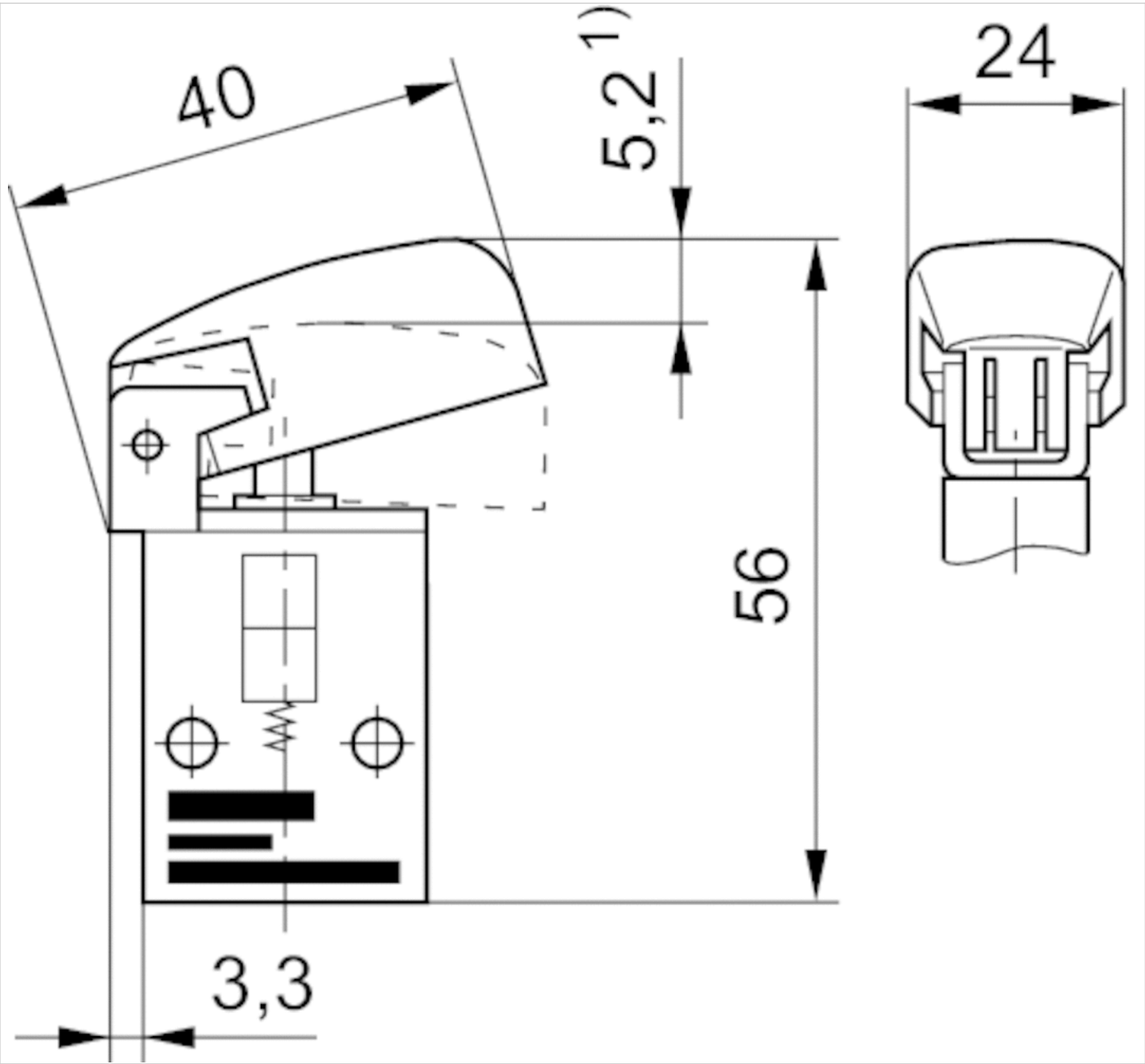
Dimensions, Fig. 3



1) actuating stroke

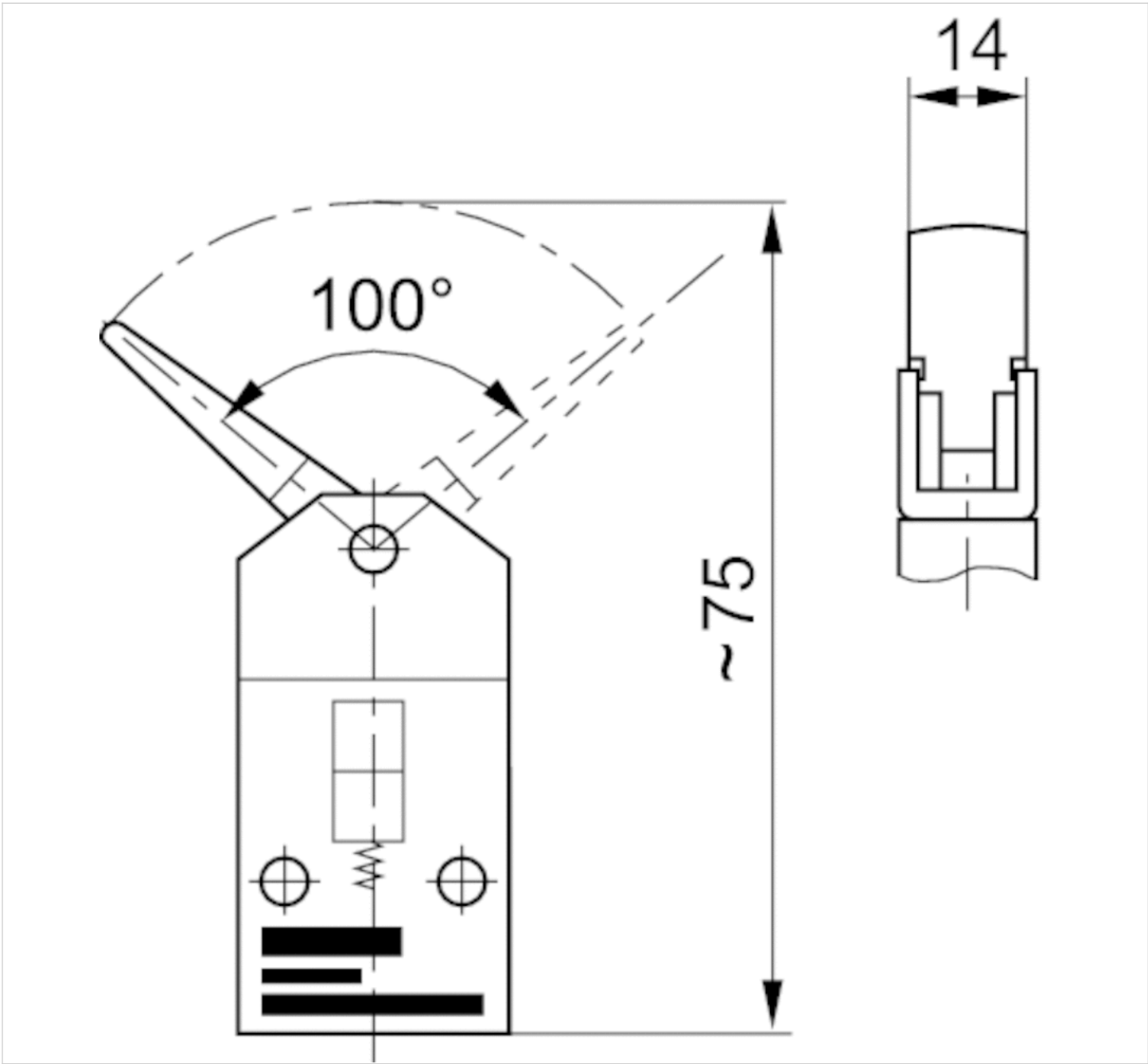
2) overstroke

Dimensions, Fig. 4



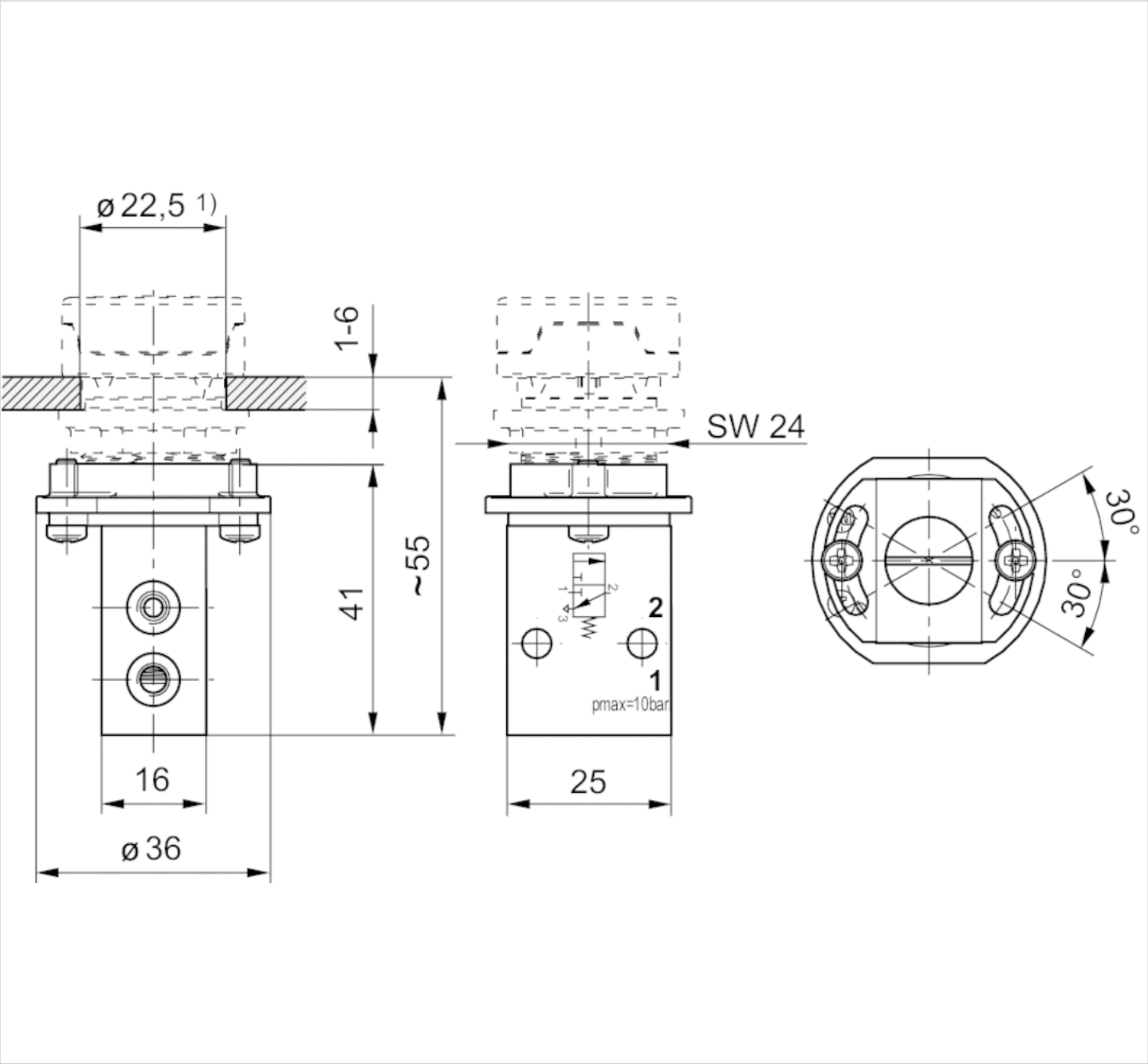
1) actuating stroke

Dimensions, Fig. 5



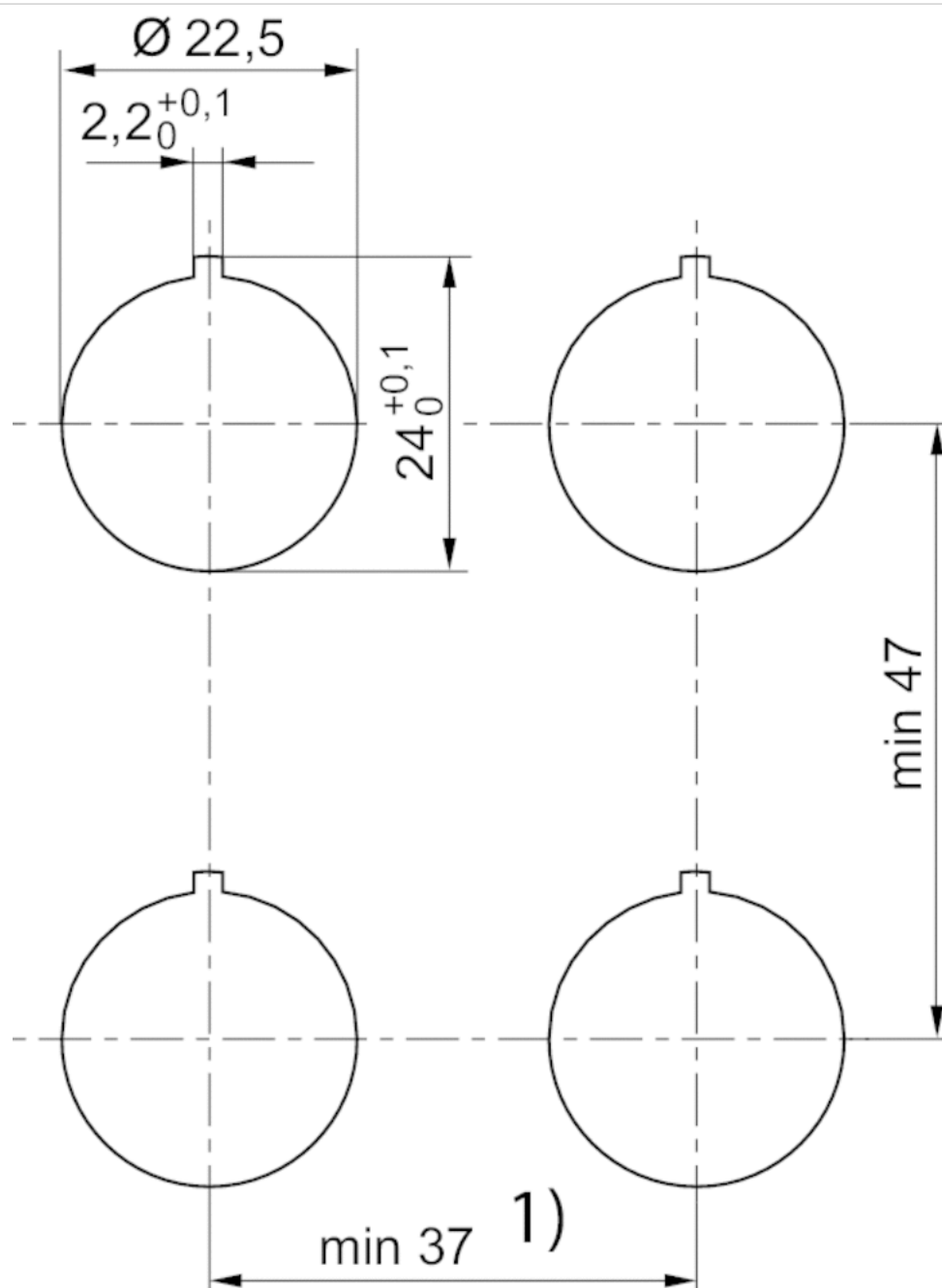
actuating torque: 5 Ncm

Dimensions, Fig. 6



1) cut-out in the front plate

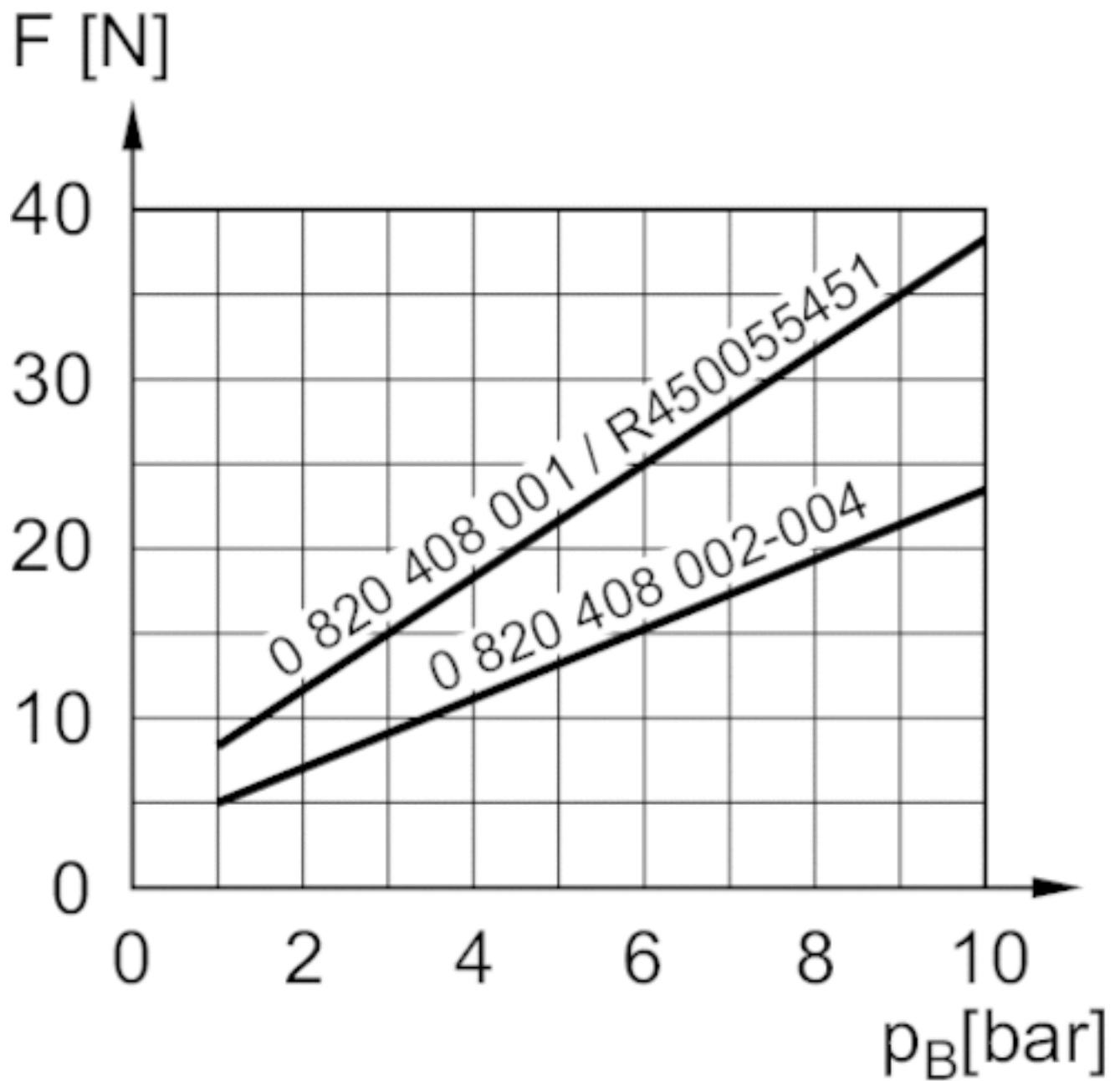
Dimensions, cut-out in the front plate



1) For the mushroom buttons (R412012738, R412012739, R412012740) a minimum distance 41 mm must be ensured.

Diagrams

Actuating force+



F = actuating force
 p_B = Working pressure

Efficient pneumatic solutions, our program: cylinders and drives, valves and valve systems, air supply management



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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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