

3/2-directional valve, Series AP

- Qn 1►2 = 250 l/min
- Qn 2►3 = 150 l/min
- Compressed air connection output G 1/8
- 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/m ³
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
0820402101		Plunger	Internal thread	G 1/8
0820402102		Roller	Internal thread	G 1/8
0820402103		Roller lever, one-way trip	Internal thread	G 1/8
0820402104		Push button	Internal thread	G 1/8
0820402105		Lever	Internal thread	G 1/8
R450055452		panel installation	Internal thread	G 1/8

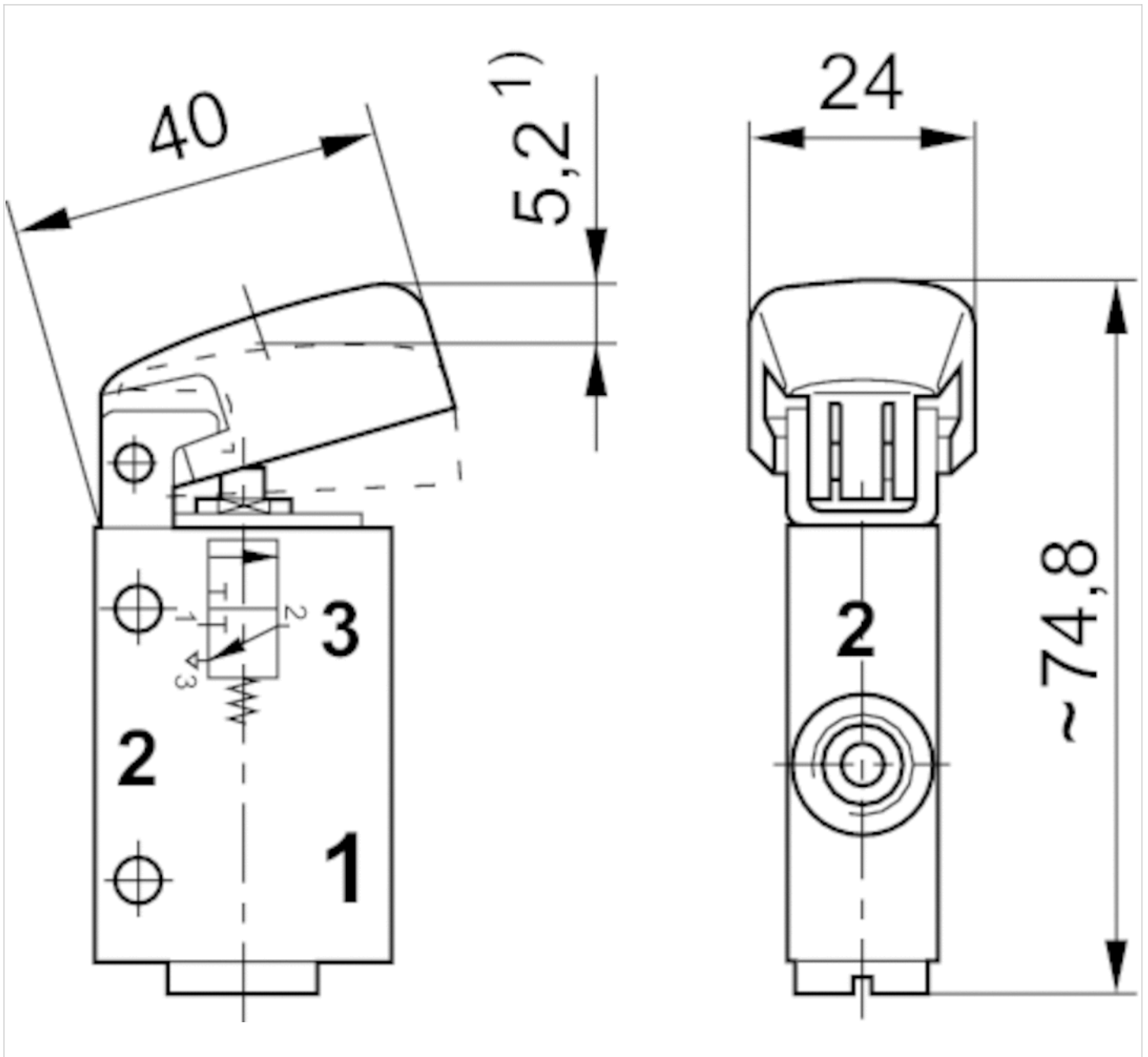
Part No.	Compressed air connection Output	Compressed air connection Exhaust	Flow		Weight
			Qn 1 ► 2	Qn 2 ► 3	
0820402101	G 1/8	G 1/8	250 l/min	150 l/min	0,07 kg
0820402102	G 1/8	G 1/8	250 l/min	150 l/min	0,08 kg
0820402103	G 1/8	G 1/8	250 l/min	150 l/min	0,085 kg
0820402104	G 1/8	G 1/8	250 l/min	150 l/min	0,085 kg
0820402105	G 1/8	G 1/8	250 l/min	150 l/min	0,075 kg
R450055452	G 1/8	G 1/8	250 l/min	150 l/min	0,09 kg

Part No.	Fig.	
0820402101	Fig. 1	-
0820402102	Fig. 2	-
0820402103	Fig. 3	-
0820402104	Fig. 4	-
0820402105	Fig. 5	-
R450055452	Fig. 6	1)

Nominal flow Qn at 6 bar and Δp = 1 bar

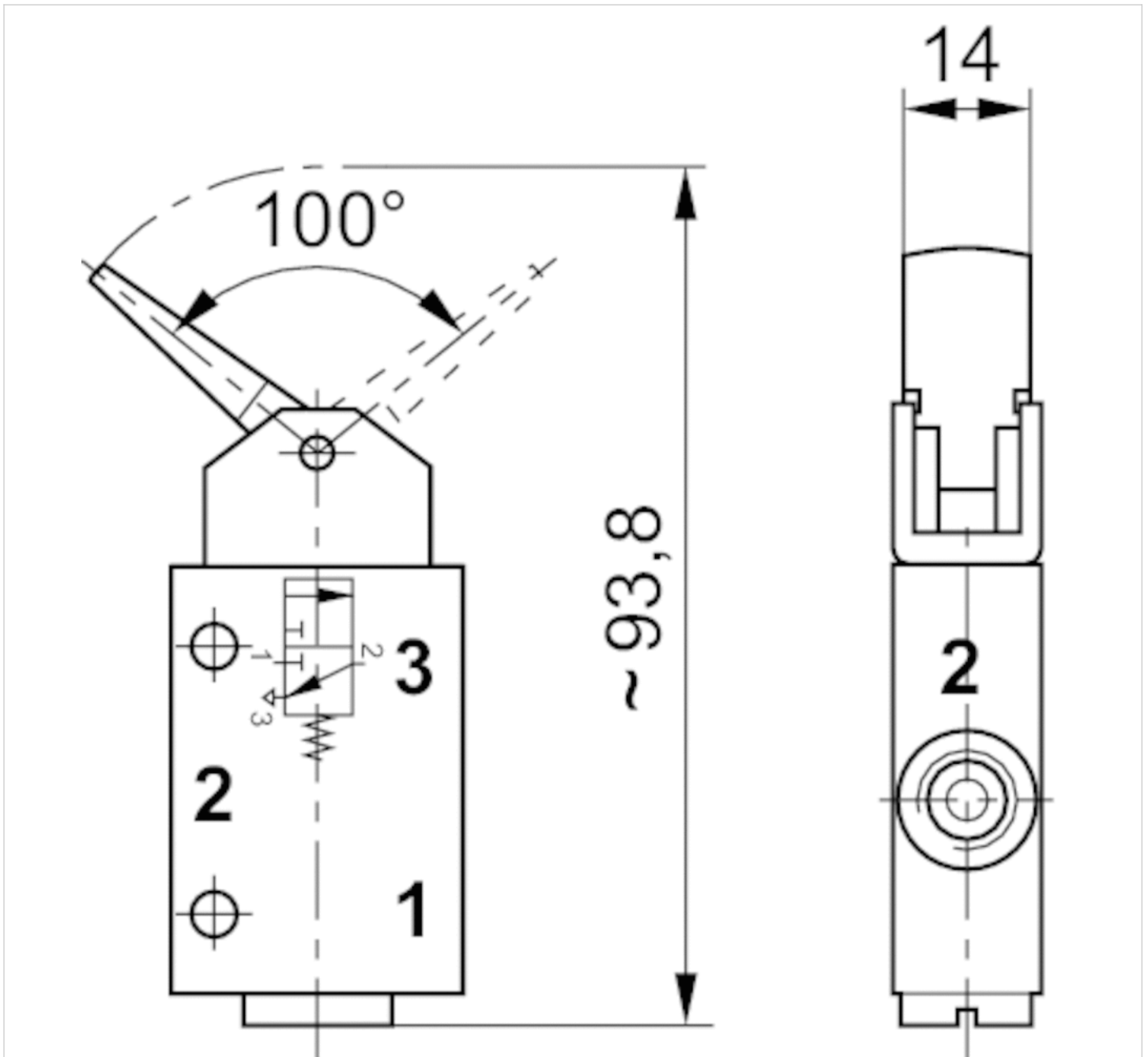
1) Please order control button separately., Cannot be combined with mushroom button with detent and rotary release R412012741

Dimensions, Fig. 4

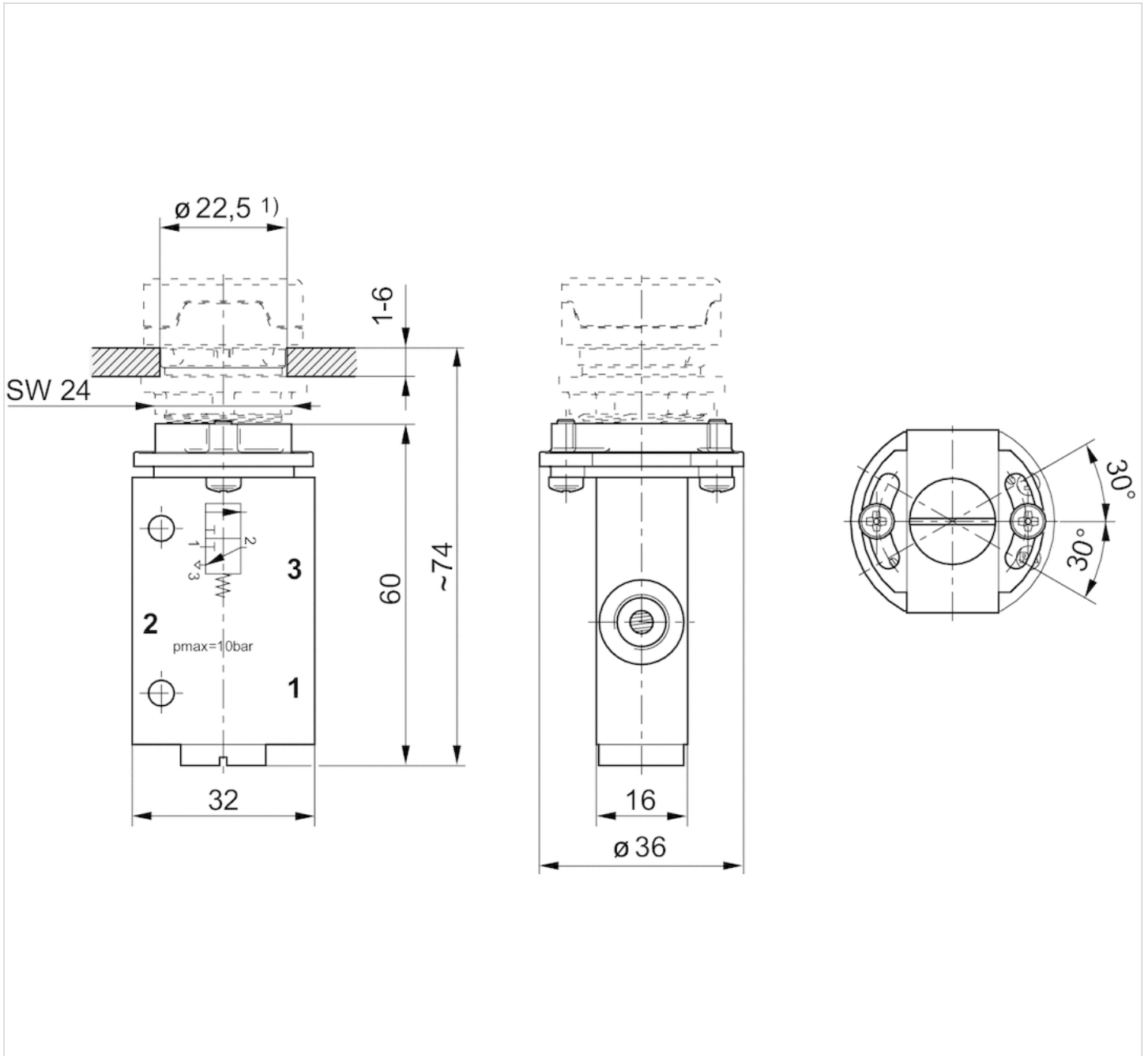


1) actuating stroke

Dimensions, Fig. 5

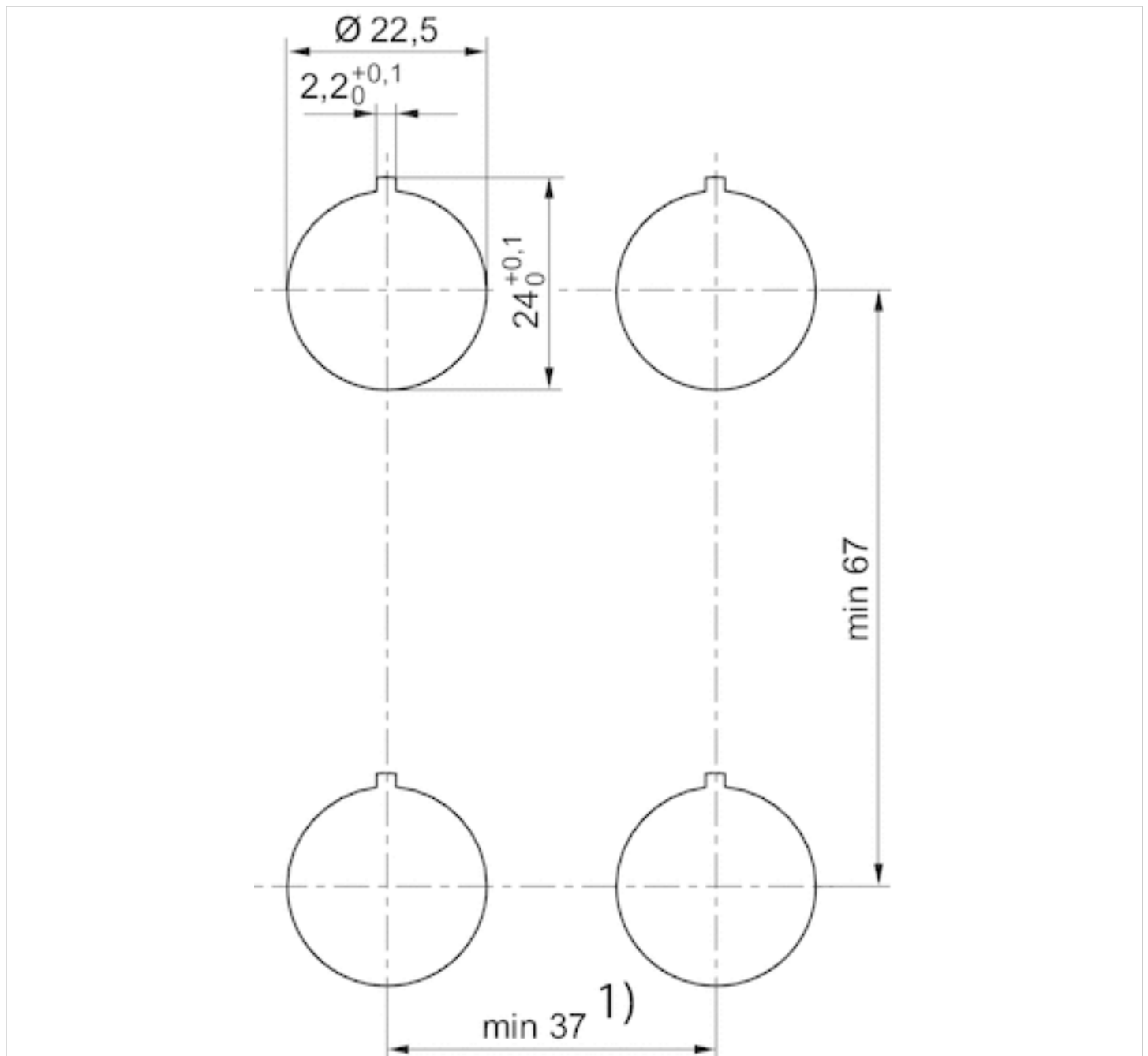


Dimensions, Fig. 6



1) cut-out in the front plate

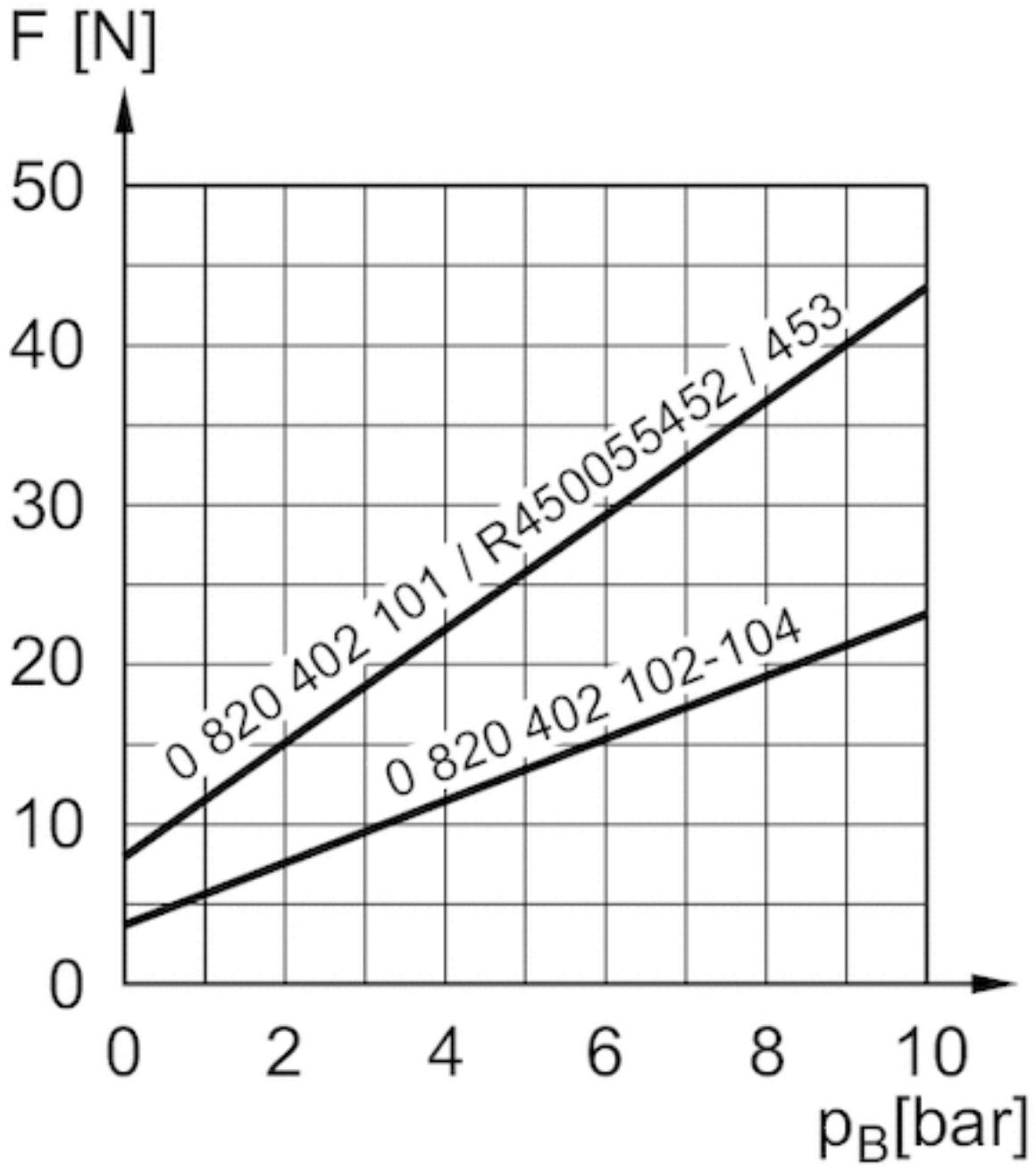
Dimensions, cut-out in the front plate



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

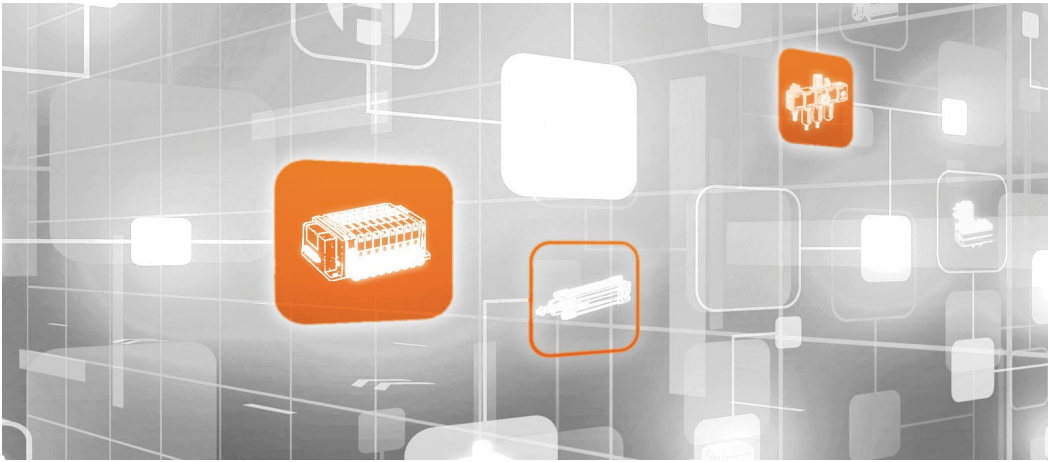
Diagrams

Actuating force+



F = actuating force
PB= Working pressure

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



Visit us: [Emerson.com/Aventics](https://www.emerson.com/Aventics)

Your local contact: [Emerson.com/contactus](https://www.emerson.com/contactus)



[Emerson.com](https://www.emerson.com)



[Facebook.com/EmersonAutomationSolutions](https://www.facebook.com/EmersonAutomationSolutions)



[LinkedIn.com/company/Emerson-Automation-Solutions](https://www.linkedin.com/company/Emerson-Automation-Solutions)



[Twitter.com/EMR_Automation](https://twitter.com/EMR_Automation)

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.

The Emerson logo is a trademark and service mark of Emerson Electric Co. Brand logotype are registered trademarks of one of the Emerson family of companies. All other marks are the property of their respective owners. © 2021 Emerson Electric Co. All rights reserved.
2021-09



CONSIDER IT SOLVED™