3/2-directional valve, Series AP

- Qn = 550 l/min
- Compressed air connection output G 1/4
- Pipe connection



Type	Poppet valve
Activation	Mechanical
Switching principle	3/2
Nominal flow Qn	550 l/min
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
0820400001		Plunger	Internal thread	G 1/4
0820400002		Roller	Internal thread	G 1/4
0820400003		Roller lever, one-way trip	Internal thread	G 1/4
0820400004		Push button	Internal thread	G 1/4
0820400005		Lever	Internal thread	G 1/4
0820400006		Pedal	Internal thread	G 1/4
0820400008		Pedal, with detent	Internal thread	G 1/4

Part No.	Compressed air connection Output	Compressed air connection Exhaust	Material actuating control
0820400001	G 1/4	G 1/4	Steel
0820400002	G 1/4	G 1/4	Polyoxymethylene
0820400003	G 1/4	G 1/4	Polyoxymethylene Steel
0820400004	G 1/4	G 1/4	Aluminum
0820400005	G 1/4	G 1/4	Steel Polyamide
0820400006	G 1/4	G 1/4	Aluminum
0820400008	G 1/4	G 1/4	Aluminum

Part No.	Weight	Fig.
0820400001	0,165 kg	Fig. 1
0820400002	0,265 kg	Fig. 2
0820400003	0,28 kg	Fig. 3
0820400004	0,29 kg	Fig. 4
0820400005	0,27 kg	Fig. 5
0820400006	1,2 kg	Fig. 6

Part No.	Weight	Fig.
0820400008	1,22 kg	Fig. 7

Nominal flow Qn at 6 bar and Δp = 1 bar

Technical information

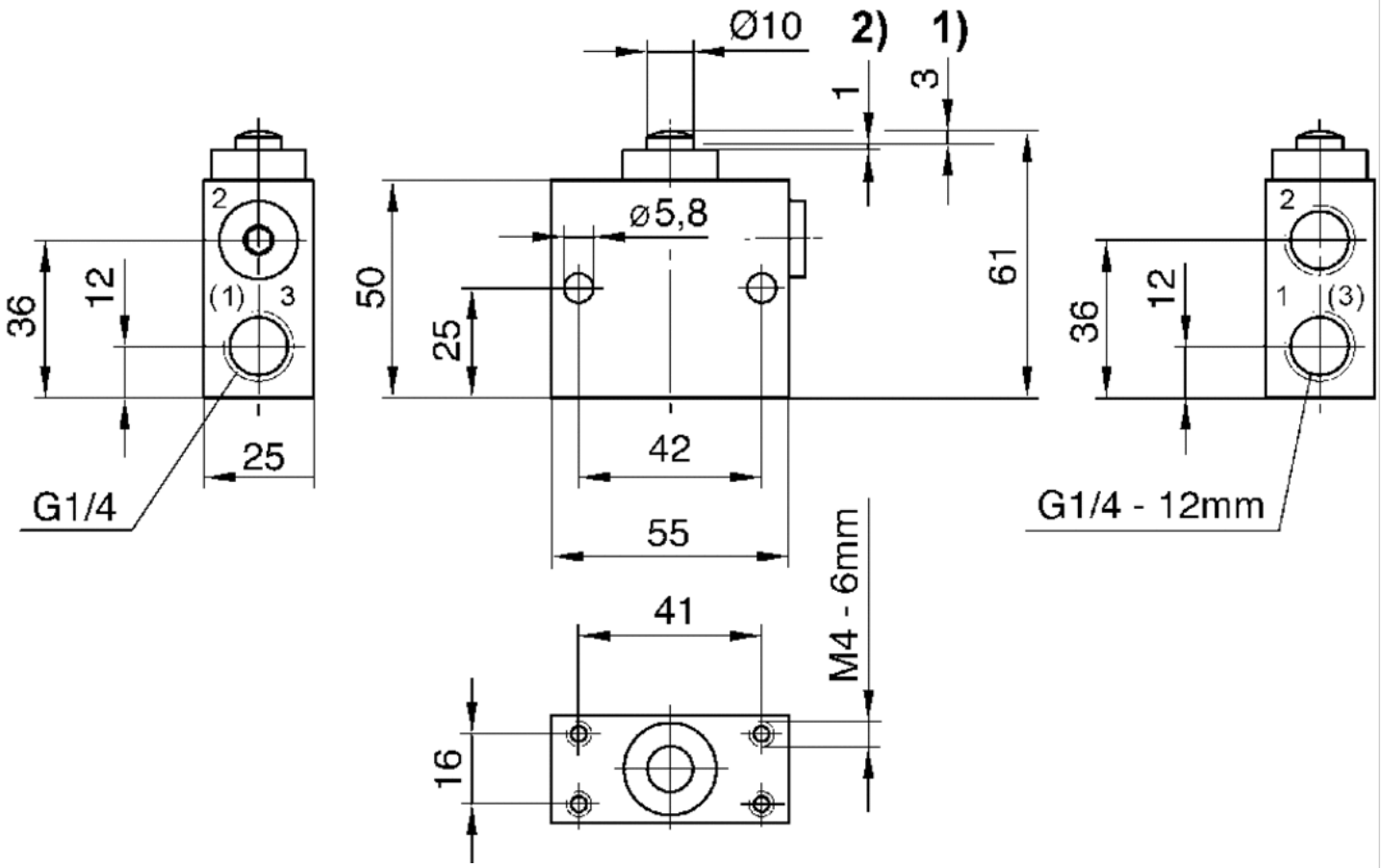
Sound pressure level measured at 6 bar at 1 m distance

Technical information

Material	
Housing	Aluminum
Seals	Acrylonitrile butadiene rubber
Actuating element	Steel Polyoxymethylene Polyoxymethylene, Steel Aluminum Steel, Polyamide

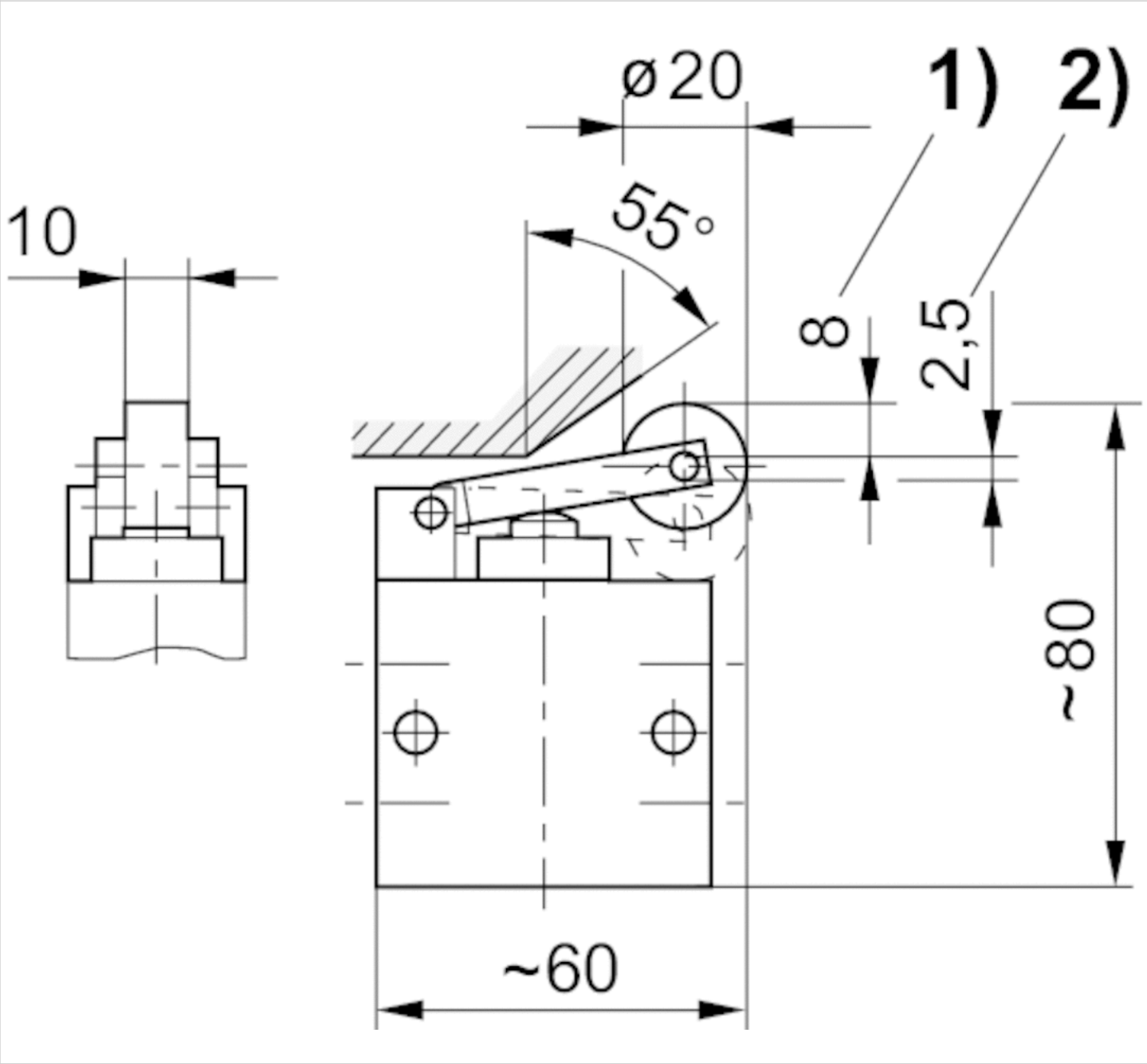
Dimensions

Dimensions, Fig. 1



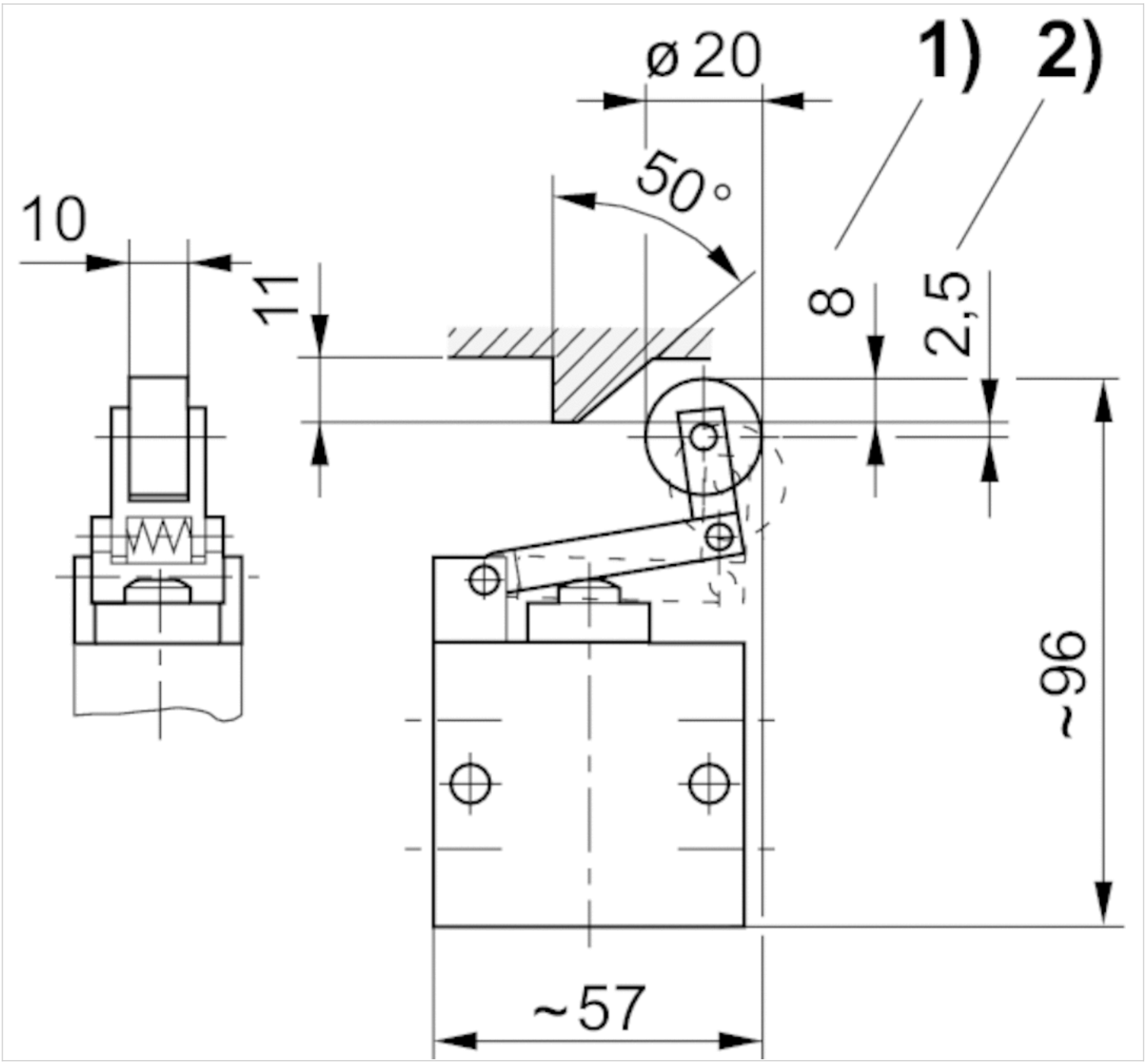
1) actuating stroke
2) overstroke
Dimensions of basic valve apply to all types of actuation.

Dimensions, Fig. 2



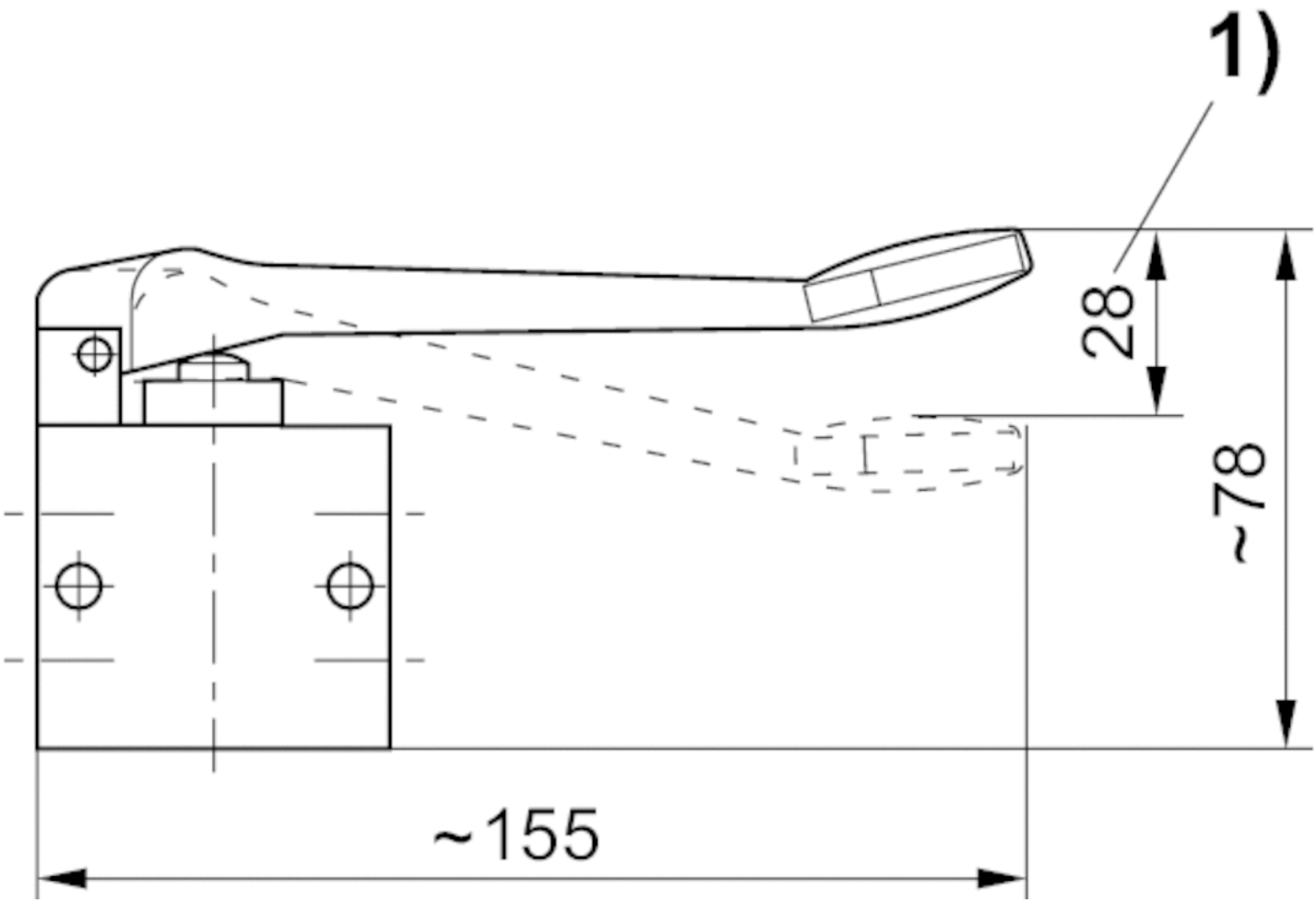
1) actuating stroke
2) overstroke

Dimensions, Fig. 3



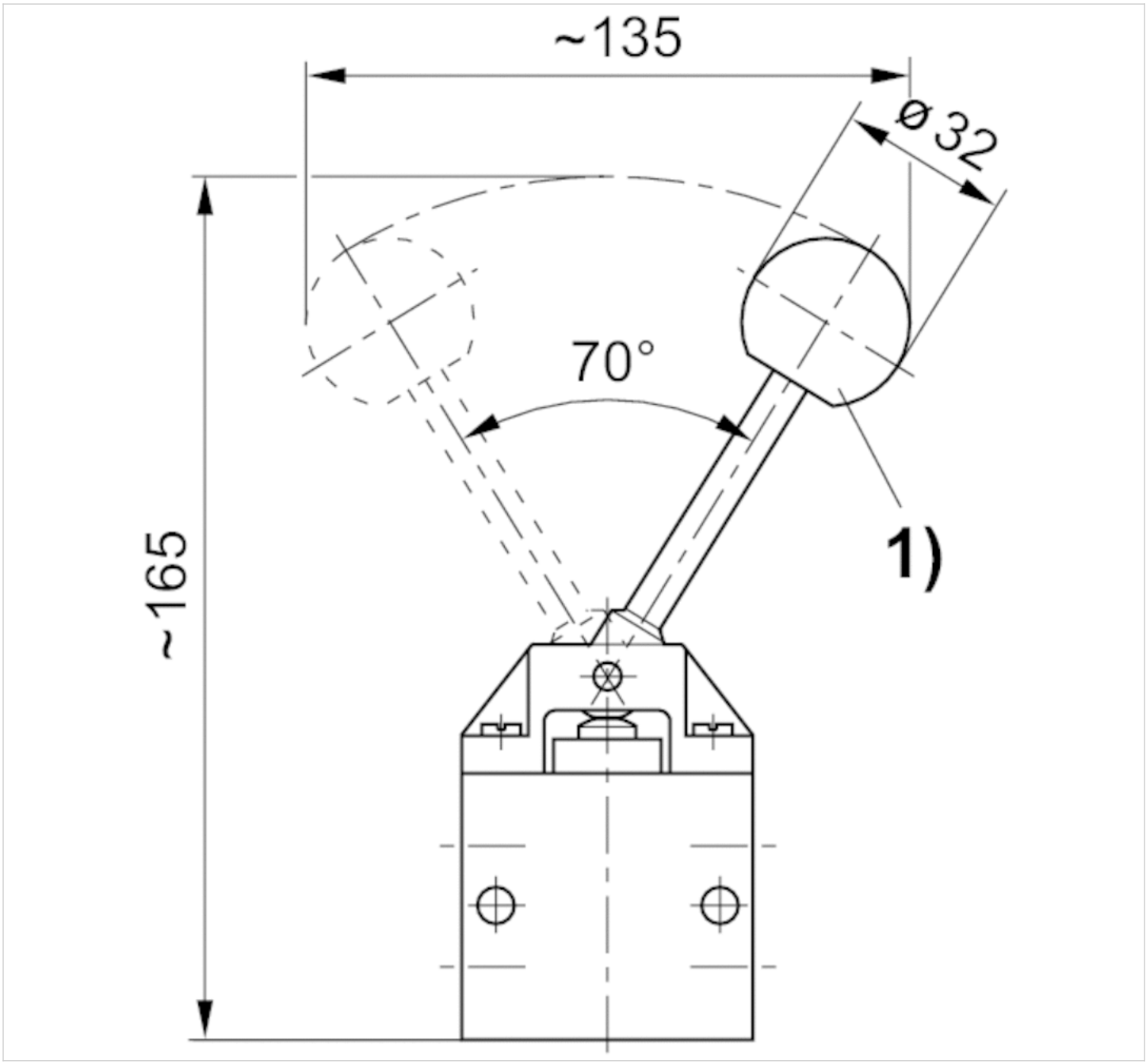
1) actuating stroke
2) overstroke

Dimensions, Fig. 4



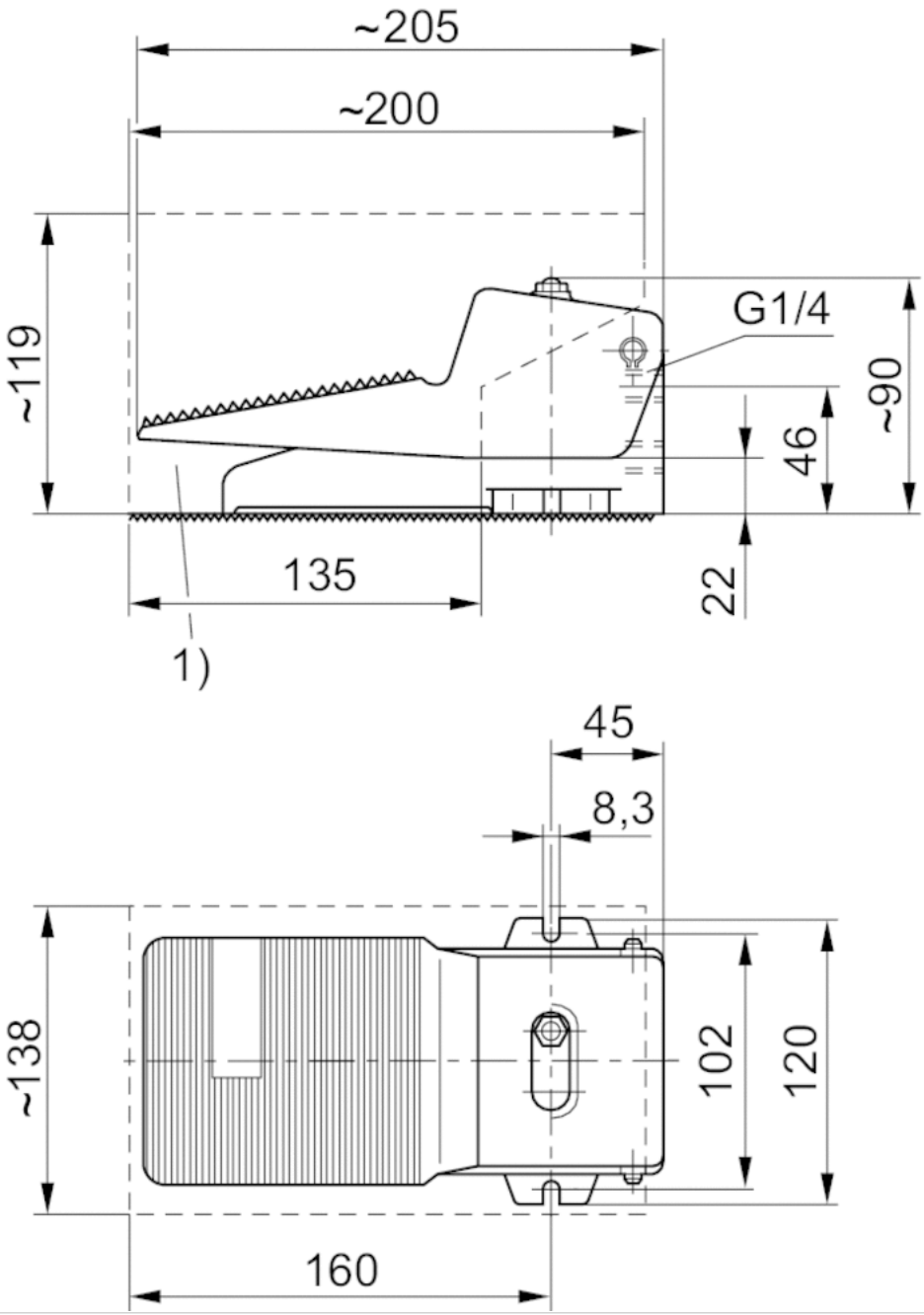
1) actuating stroke

Dimensions, Fig. 5



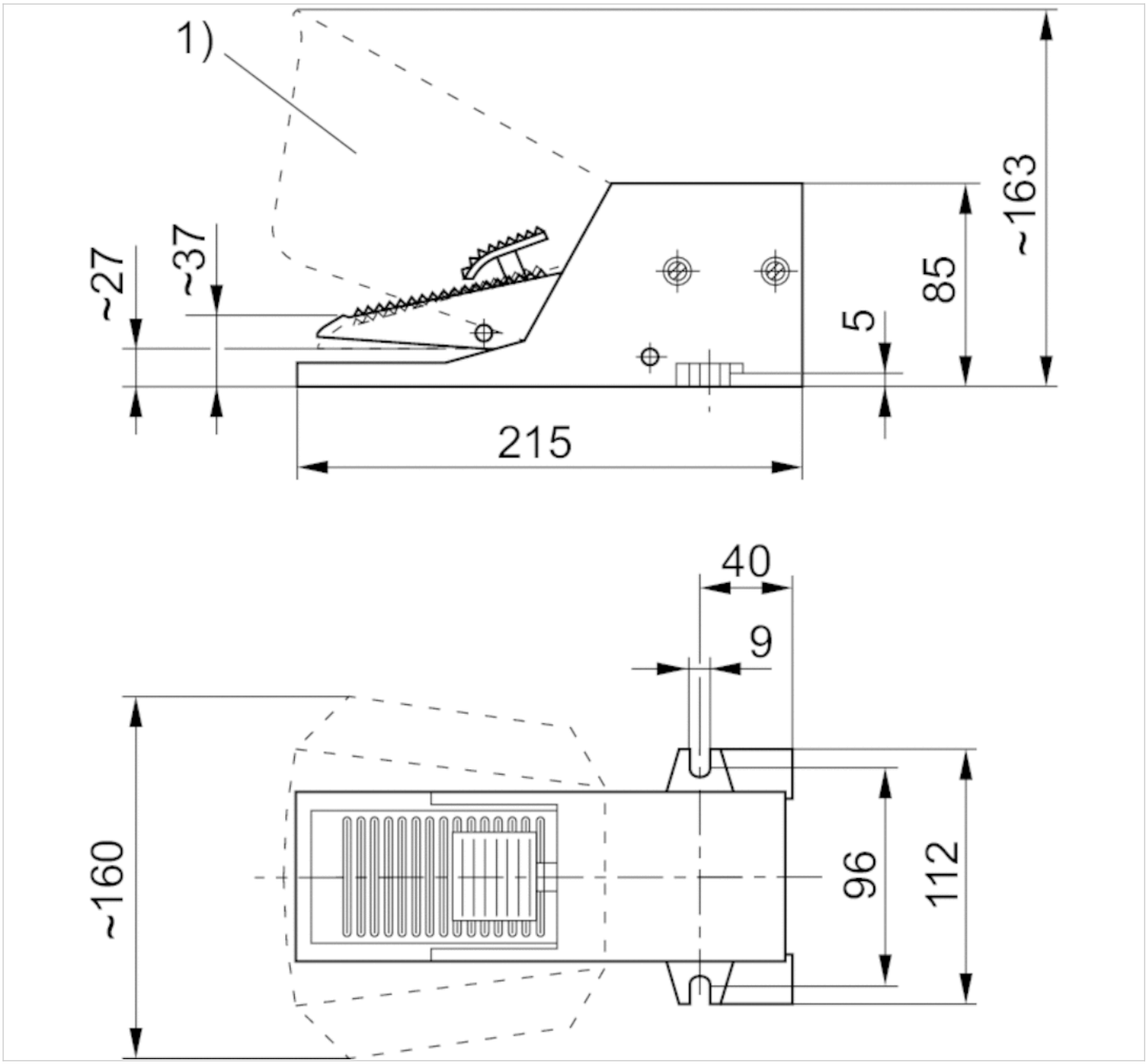
actuating torque: 40 Ncm
1) Ball

Dimensions, Fig. 6



1) optional protective cover, part number 1828104001

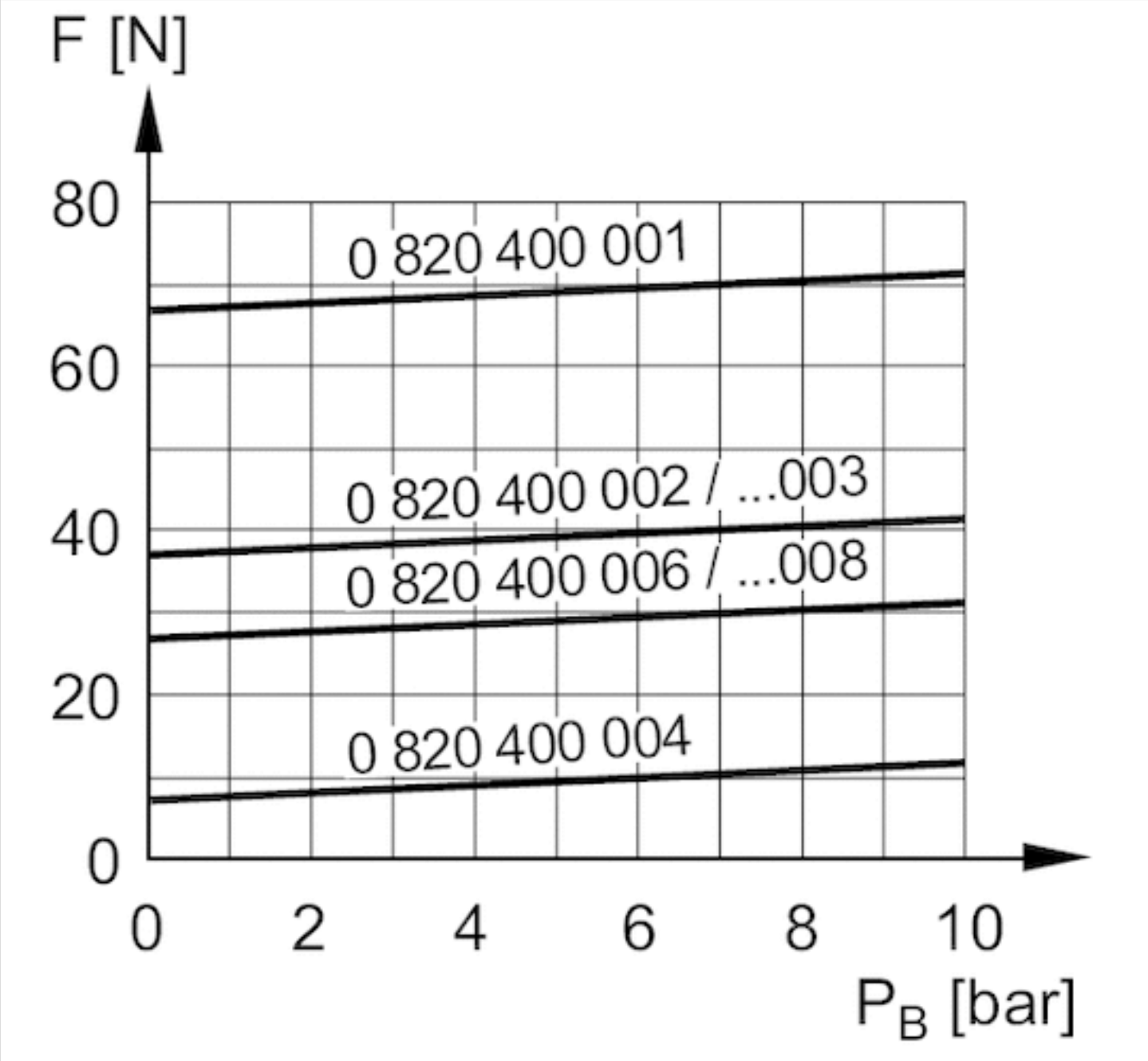
Dimensions, Fig. 7



1) optional protective cover, part number 1828104002

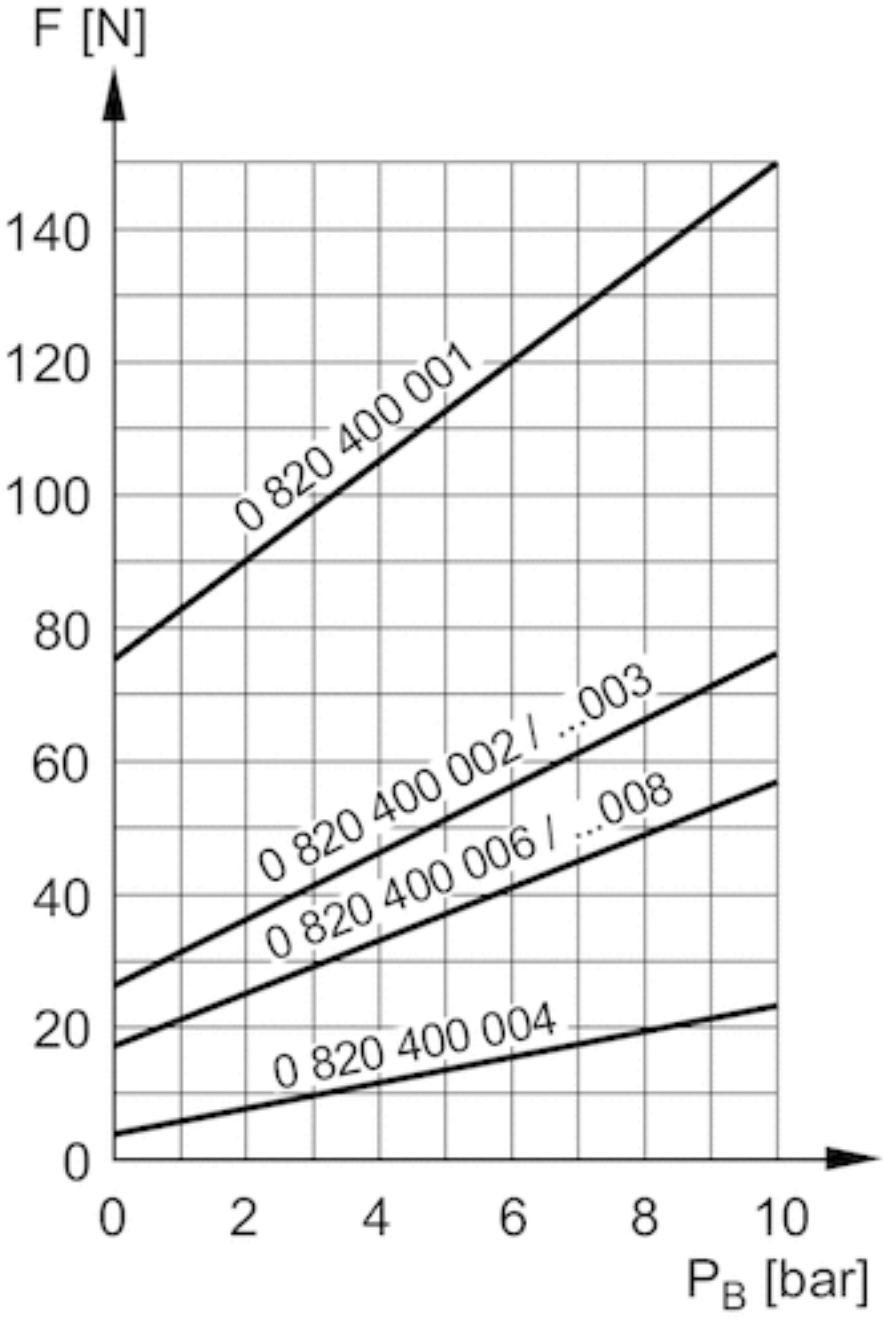
Diagrams

Actuating force+, Compressed air at port 1

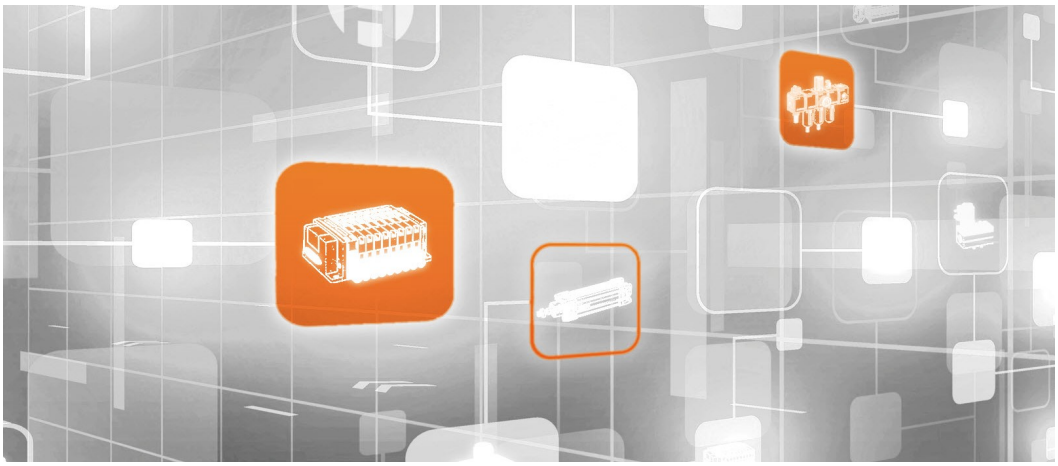


F = actuating force
PB= Working pressure

Compressed air at port 3



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



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