



# 5/2-directional valve, Series ST

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



Type
Activation
Lock type

Switching principle Sealing principle Nominal flow Qn

Working pressure min./max.

Ambient temperature min./max.

Medium temperature min./max.

Medium

Max. particle size

Oil content of compressed air

Mounting screw

Mounting screw tightening torque

Weight

Spool valve Mechanical not lockable

5/2

metal/metal sealing

280 l/min -0,95 ... 10 bar -15 ... 80 °C -15 ... 80 °C Compressed air

5 µm

5 ... 25 mg/m<sup>3</sup>

M4 with hexagon socket

2,5 Nm

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
0820403001	4   2 1   1   1   1   1   1   1   1   1   1	Plunger	Internal thread
0820403002	⇔ 1 12 5 1113W	Roller	Internal thread
0820403003	<b>~</b>	Roller lever, one-way trip	Internal thread
0820403004	= x 13 W	Push button	Internal thread
0820403005		Lever Internal threa	
0820403016	€ 1113W	Roller with single-action lever Internal thread	
0820403017	<b>~</b>	Roller with articulated lever Internal thread	
0820403019	4 2	Plunger	Internal thread
R422002213	======================================	panel installation Internal thread	

Part No.	Compressed air connection Input	Compressed air connection Output	Compressed air connection Exhaust
0820403001	G 1/8	G 1/8	G 1/8
0820403002	G 1/8	G 1/8	G 1/8
0820403003	G 1/8	G 1/8	G 1/8
0820403004	G 1/8	G 1/8	G 1/8
0820403005	G 1/8	G 1/8	G 1/8
0820403016	G 1/8	G 1/8	G 1/8
0820403017	G 1/8	G 1/8	G 1/8
0820403019	G 1/8	G 1/8	G 1/8
R422002213	G 1/8	G 1/8	G 1/8





Part No.	Operating force	Actuating torque	Material actuating control	Weight	Fig.	
	min.	Min.				
0820403001	11 N	-	Stainless steel	0,22 kg	Fig. 1	-
0820403002	6,5 N	-	Polyoxymethylene	0,23 kg	Fig. 2	-
0820403003	6,5 N	-	Polyoxymethylene	0,23 kg	Fig. 3	-
0820403004	6,5 N	-	Polyamide	0,23 kg	Fig. 4	-
0820403005	-	0,02 Nm	Polyamide	0,22 kg	Fig. 5	-
0820403016	10 N	-	Polyoxymethylene	0,34 kg	Fig. 6	-
0820403017	25 N	-	Polyoxymethylene	0,34 kg	Fig. 7	-
0820403019	5 N	-	Stainless steel	0,22 kg	Fig. 8	-
R422002213	11 N	-	Polyoxymethylene	0,22 kg	Fig. 9	1)

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

## Technical information

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

## Technical information

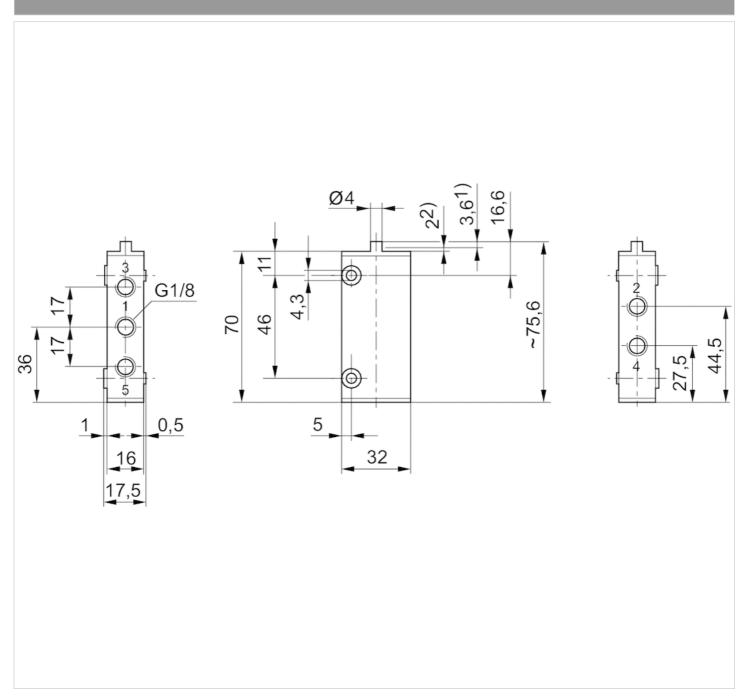
Material	
Housing	Stainless steel, hardened
Seals	Acrylonitrile butadiene rubber
Actuating element	Stainless steel Polyoxymethylene Polyamide
Front cover	Stainless steel Steel Polyamide Aluminum Steel, galvanized

<sup>1)</sup> Please order control button separately.



## Dimensions

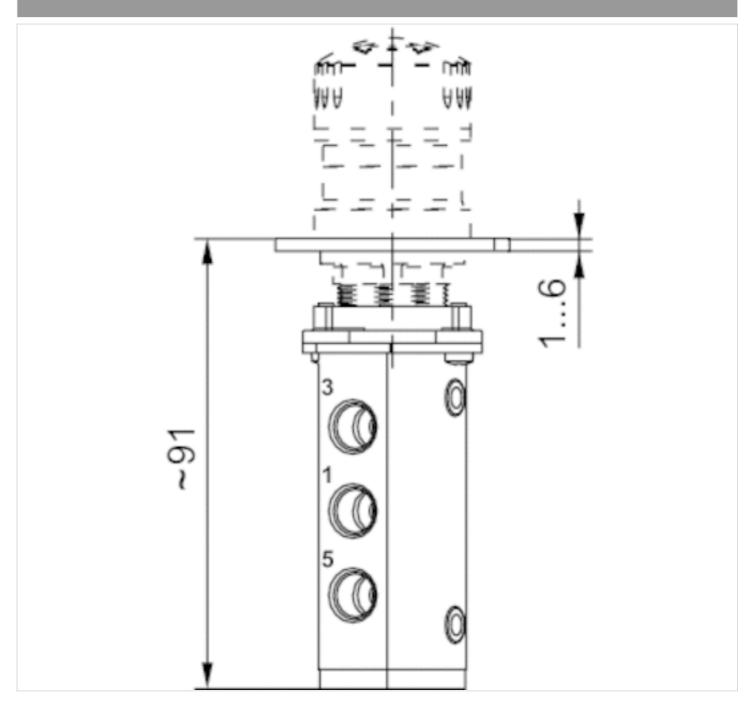
#### Dimensions, Fig. 1, Basic valve



1) Actuating stroke 2) overstroke connection via 2 through-holes in housing Dimensions of basic valve apply to all types of actuation.



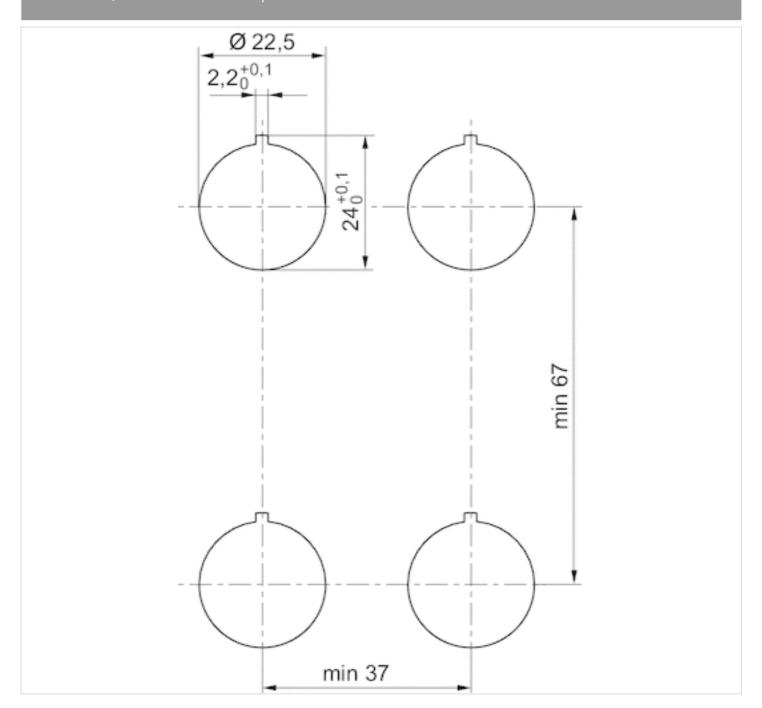
#### Overview drawing, Fig. 9



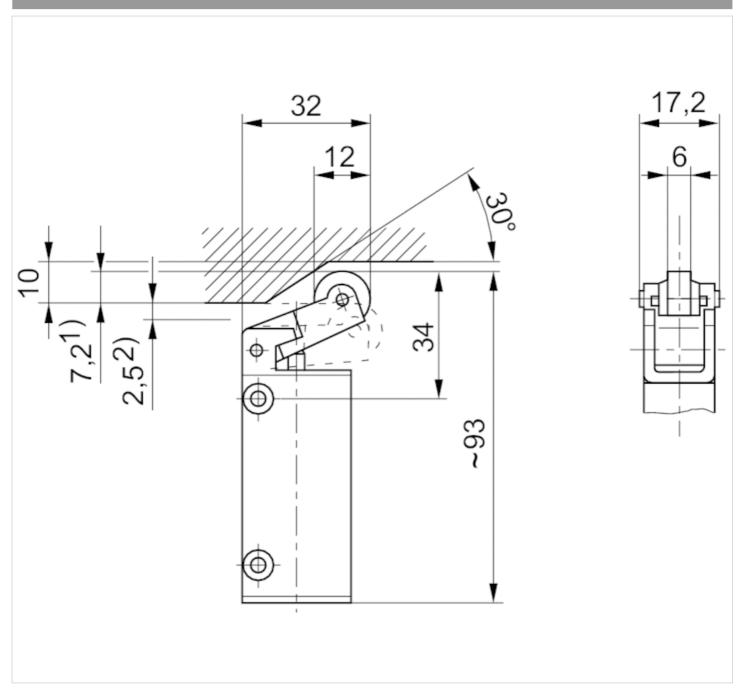




#### Dimensions, cut-out in the front plate



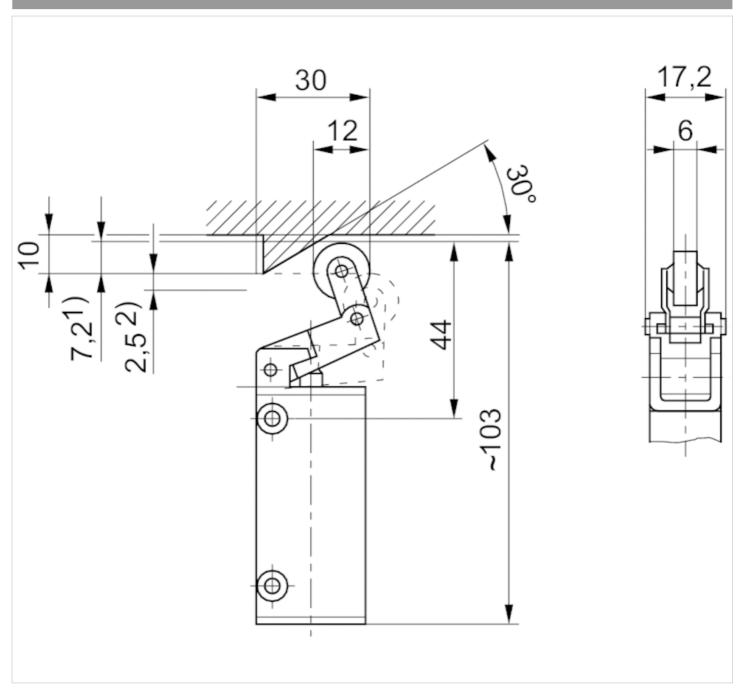




1) Actuating stroke 2) overstroke connection via 2 through-holes in housing

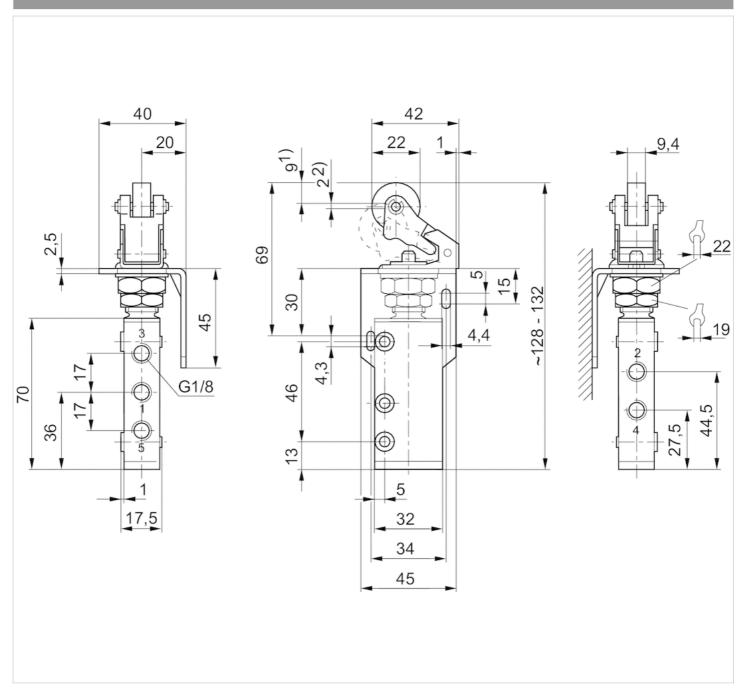






1) Actuating stroke 2) overstroke connection via 2 through-holes in housing

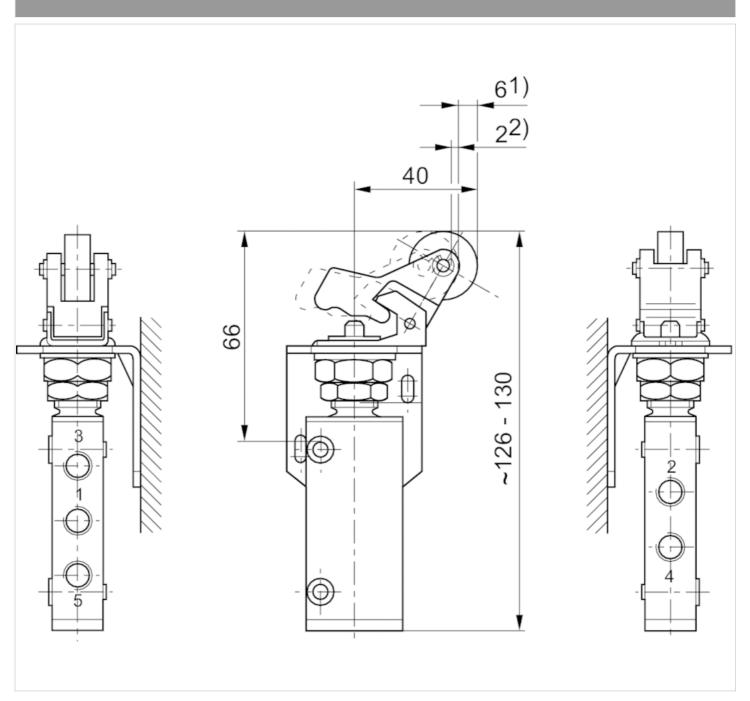




1) actuating stroke 2) overstroke

Can be adjusted by  $90^{\circ}$ , thereby providing 4 different angles of approach.



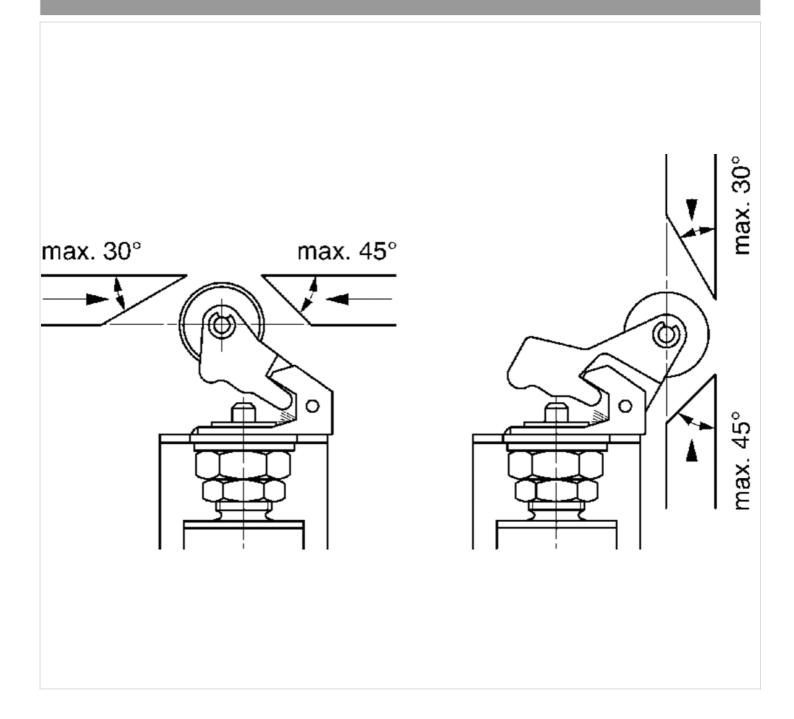


1) actuating stroke 2) overstroke

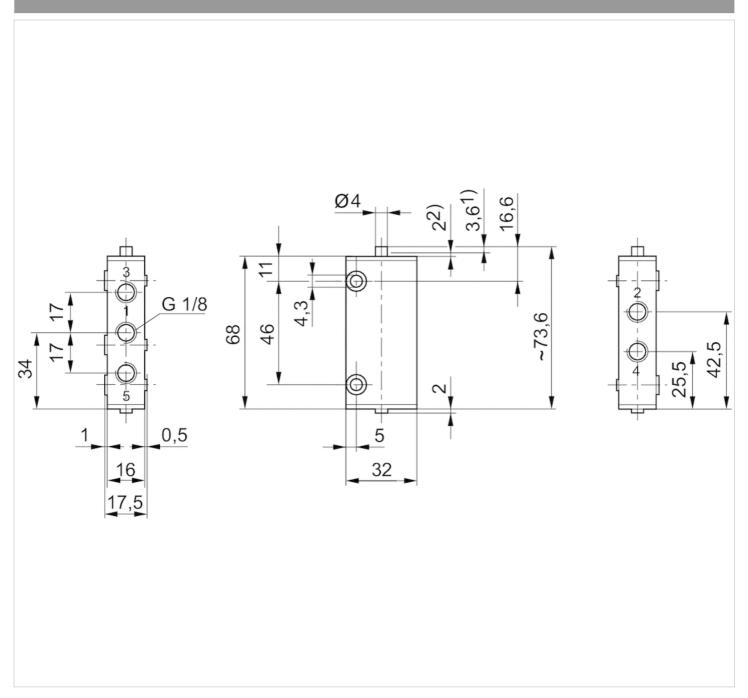
Can be adjusted by  $90^{\circ}$ , thereby providing 4 different angles of approach.



#### angle of approach for 0820402016 and 0820402017





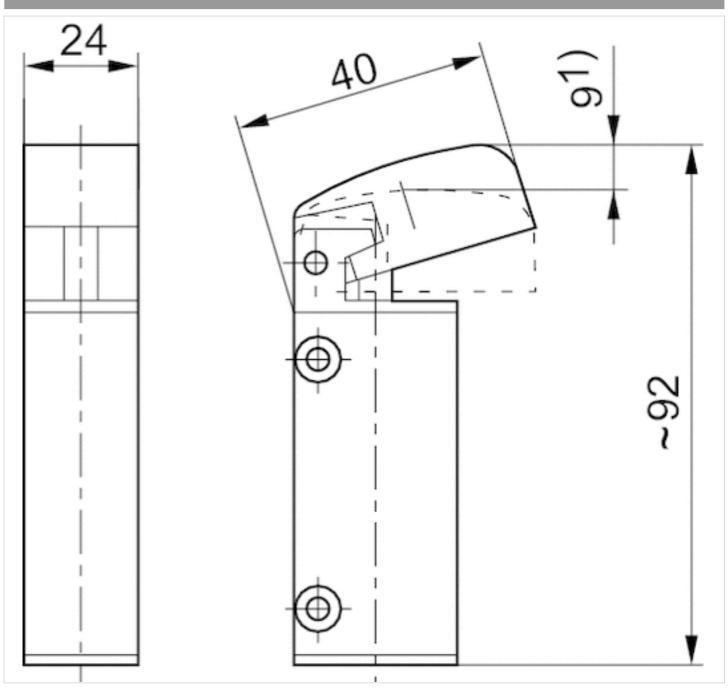


1) actuating stroke 2) overstroke

connection via 2 through-holes in housing. If the plunger is displaced all the way to the housing cover, the actuating stroke changes from 3.6 to 5.6 mm.



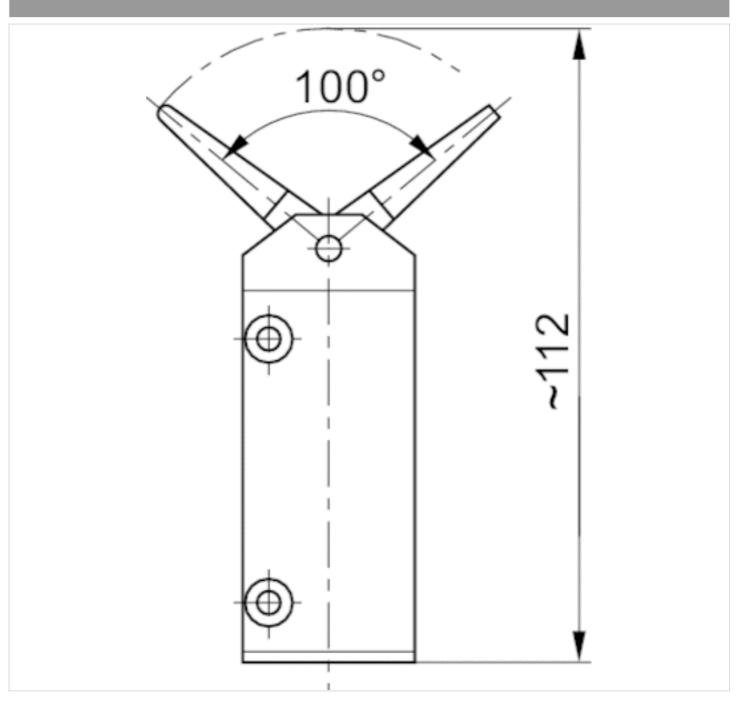




1) actuating stroke Mounting via 2 through-holes in housing

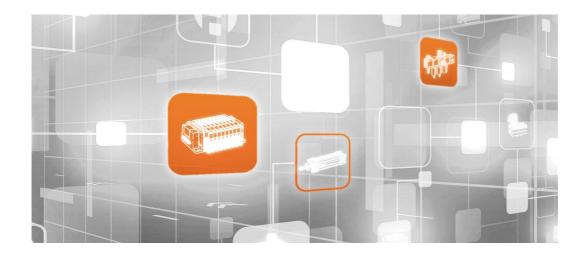






Mounting via 2 through-holes in housing

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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 again.

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