

Directional valves → Mechanically operated

**3/2-way valve, Series ST**

► Qn= 280 l/min ► pipe connection ► compressed air connection output: G 1/8 ► with spring return



00108044

Version	Spool valve not lockable
Sealing principle	metal/metal sealing
Working pressure min./max.	-0.95 bar / 10 bar
Ambient temperature min./max.	-15 °C / +80 °C
Medium temperature min./max.	-15 °C / +80 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	5 mg/m <sup>3</sup> - 25 mg/m <sup>3</sup>
Mounting screw	M4 with hexagon socket
mounting screw tightening torque	2.5 Nm
Materials:	
Housing	Stainless steel, hardened

**Technical Remarks**

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- Note: This product may only be operated with oiled compressed air.

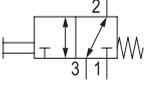
	Actuating control	Compressed air connection			Qn	Actuating force Min.	Actuating torque Min.	Part No.
		Input	Output	Exhaust				
	Plunger	G 1/8	G 1/8	G 1/8	280	11	-	0820402001
	Roller	G 1/8	G 1/8	G 1/8	280	6.5	-	0820402002
	Roller lever, one-way trip	G 1/8	G 1/8	G 1/8	280	6.5	-	0820402003
	Push button	G 1/8	G 1/8	G 1/8	280	6.5	-	0820402004
	Lever	G 1/8	G 1/8	G 1/8	280	-	0.02	0820402005
	Roller with single-action lever	G 1/8	G 1/8	G 1/8	280	10	-	0820402016
	Roller with articulated lever	G 1/8	G 1/8	G 1/8	280	25	-	0820402017
	Plunger	G 1/8	G 1/8	G 1/8	280	5	-	0820402019

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for detailed information Pneumatics catalog, online PDF, as of 2010-04-21, © Bosch Rexroth AG, subject to change

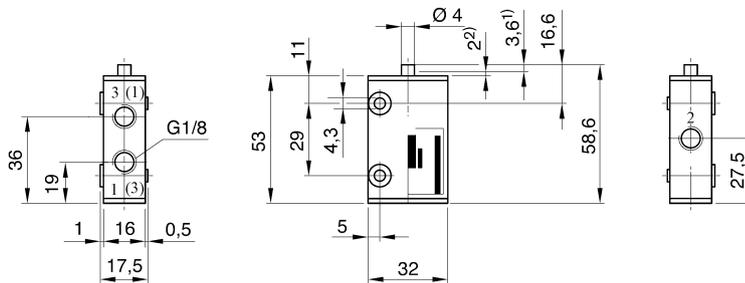
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	Actuating control	Compressed air connection			Qn	Actuating force Min.	Actuating torque Min.	Part No.
		Input	Output	Exhaust				
					[l/min]	[N]	[Nm]	
	panel installation	G 1/8	G 1/8	G 1/8	280	11	-	R422002211
Part No.	Material: Actuating control			Weight		Note		
						[kg]		
0820402001	Stainless steel			0.17		Fig. 1		
0820402002	Polyoxymethylene			0.18		Fig. 2		
0820402003	Polyoxymethylene			0.18		Fig. 3		
0820402004	Polyamide			0.18		Fig. 4		
0820402005	Polyamide			0.17		Fig. 5		
0820402016	Polyoxymethylene			0.29		Fig. 6		
0820402017	Polyoxymethylene			0.29		Fig. 7		
0820402019	Stainless steel			0.17		1); Fig. 8		
R422002211	Polyoxymethylene			0.18		2); Fig. 9		

1) horizontal installation position  
 2) Please order control button separately.  
 Nominal flow Qn at 6 bar and  $\Delta p = 1$  bar

**Dimensions, Fig. 1, Basic valve**

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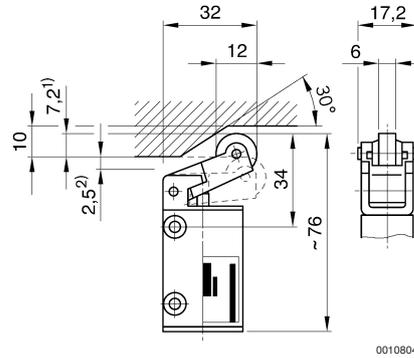
1) Actuating stroke 2) overstroke  
 connection via 2 through-holes in housing  
 Dimensions of basic valve apply to all types of actuation.

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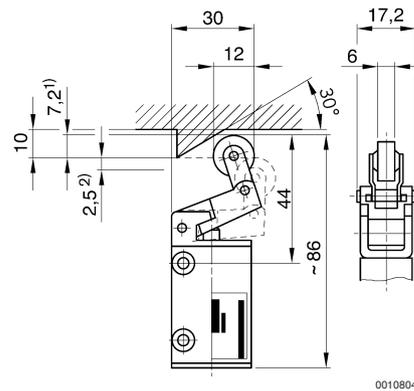
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Dimensions, Fig. 2



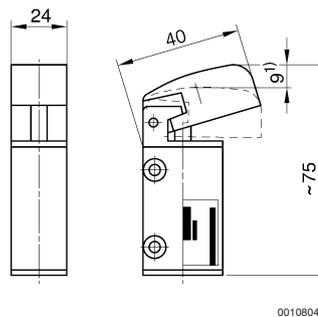
1) Actuating stroke 2) overstroke  
connection via 2 through-holes in housing

Dimensions, Fig. 3



1) actuating stroke  
2) overstroke

Dimensions, Fig. 4



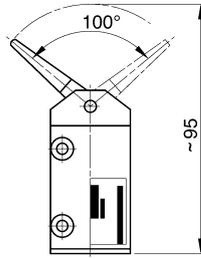
1) actuating stroke  
connection via 2 through-holes in housing

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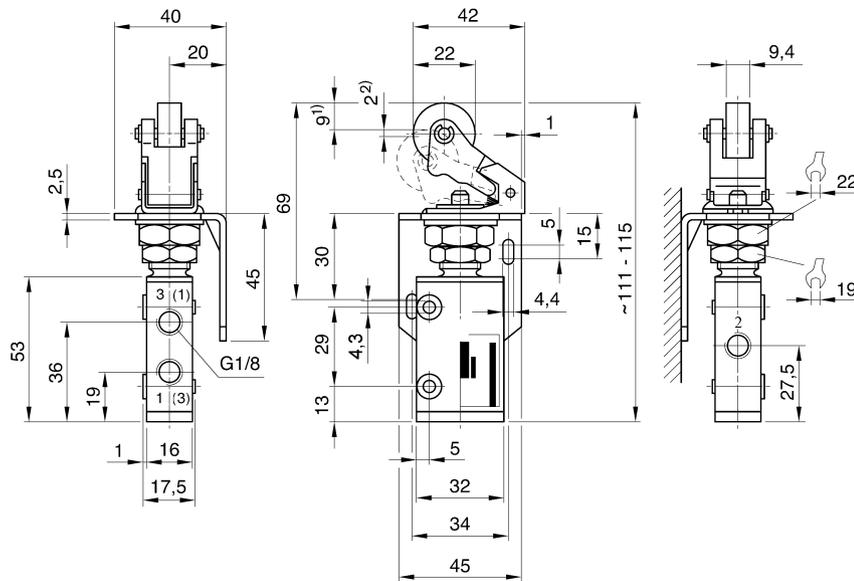
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Dimensions, Fig. 5



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Dimensions, Fig. 6



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1) actuating stroke 2) overstroke

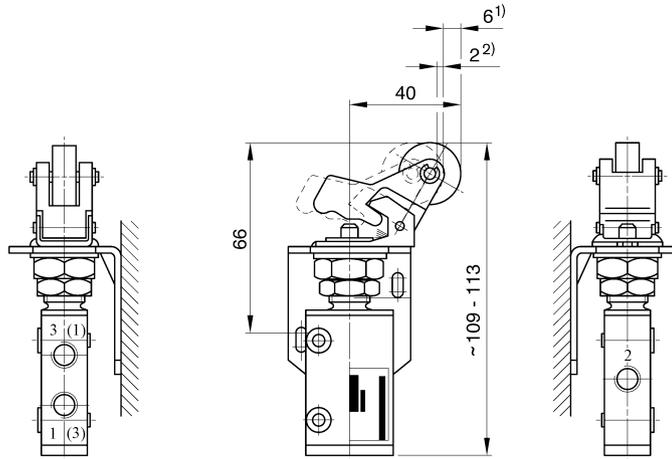
Can be adjusted by 90°, thereby providing 4 different angles of approach.

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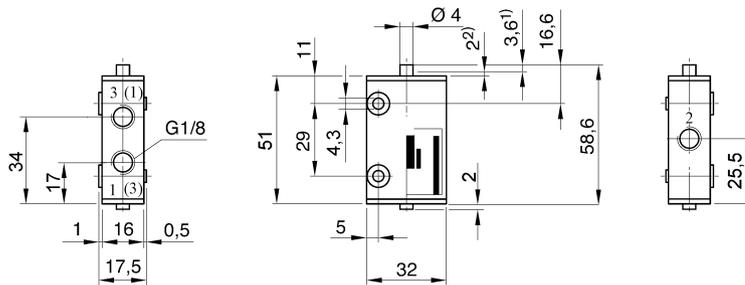
Dimensions, Fig. 7



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<sup>1)</sup> actuating stroke <sup>2)</sup> overstroke  
Can be adjusted by 90°, thereby providing 4 different angles of approach

Dimensions, Fig. 8



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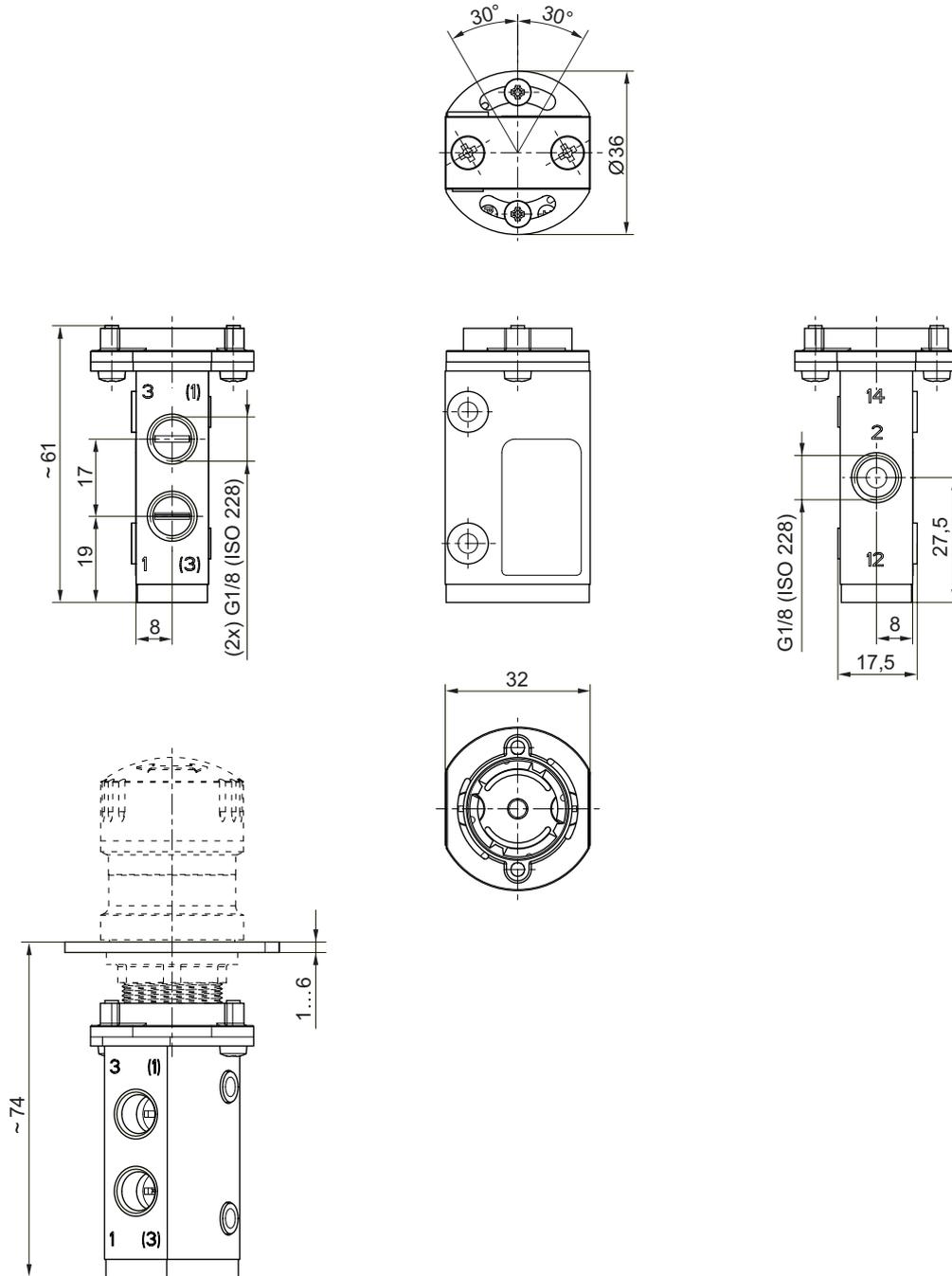
1) actuating stroke  
2) overstroke

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Dimensions, Fig. 9



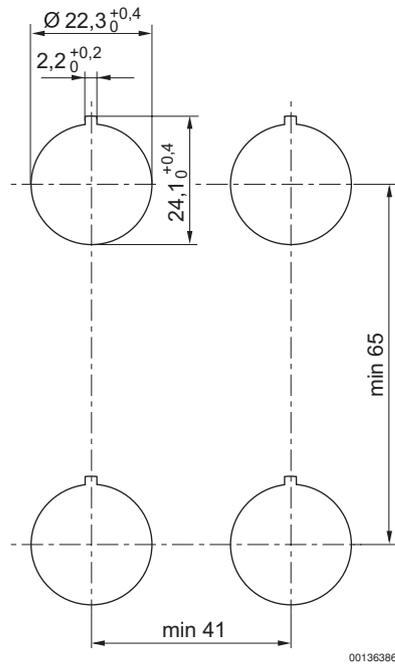
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## Dimensions, cut-out in the front plate



## angle of approach for 0820402016 and 0820402017

