

3/2-directional valve, Series ST

- $Q_n = 280 \text{ l/min}$
- Pilot valve width : 15 mm
- NC/NC
- Pipe connection
- Compressed air connection output : G 1/8
- Electrical connection : Plug, ISO 15217, form C
- Manual override : without detent, with detent
- single solenoid
- With spring return
- Pilot : internal



Version	Spool valve
Activation	Electrically
Pilot	internal
Sealing principle	metal/metal sealing
Working pressure min./max.	2 ... 10 bar
Control pressure min./max.	2 ... 10 bar
Ambient temperature min./max.	-10 ... 50 °C
Medium temperature min./max.	-10 ... 50 °C
Medium	Compressed air
Max. particle size	5 μm
Oil content of compressed air	5 ... 25 mg/m ³
Nominal flow Q_n	280 l/min
Protection class, with connection	IP65
Duty cycle	100 %
mounting screws	M4 with hexagon socket
Mounting screw tightening torque	2,5 Nm
Tightening torque tolerance	$\pm 0,5$
Weight	0,22 kg

Technical data

Part No.		MO	Compressed air connection	Compressed air connection
			Input	Output
0820031055			G 1/8	G 1/8
0820031053			G 1/8	G 1/8
0820031051			G 1/8	G 1/8
0820031052			G 1/8	G 1/8
0820031054			G 1/8	G 1/8
0820031050			G 1/8	G 1/8
0820031065			G 1/8	G 1/8
0820031063			G 1/8	G 1/8
0820031061			G 1/8	G 1/8
0820031062			G 1/8	G 1/8
0820031064			G 1/8	G 1/8
0820031060			G 1/8	G 1/8

Part No.	Compressed air connection	Operationalvoltage	Operationalvoltage
	Exhaust	DC	AC 50 Hz
0820031055	G 1/8	12 V	-
0820031053	G 1/8	-	24 V
0820031051	G 1/8	24 V	-
0820031052	G 1/8	24 V	-
0820031054	G 1/8	-	-
0820031050	G 1/8	-	230 V
0820031065	G 1/8	12 V	-
0820031063	G 1/8	-	24 V
0820031061	G 1/8	24 V	-
0820031062	G 1/8	24 V	-
0820031064	G 1/8	-	-
0820031060	G 1/8	-	230 V

Part No.	Operationalvoltage	Voltage tolerance	Voltage tolerance	Voltage tolerance
	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz
0820031055	-	-10% / +10%	-	-
0820031053	-	-	-10% / +10%	-
0820031051	-	-10% / +10%	-	-
0820031052	-	-10% / +10%	-	-
0820031054	110 V	-	-	-10% / +10%
0820031050	-	-	-10% / +10%	-
0820031065	-	-10% / +10%	-	-
0820031063	-	-	-10% / +10%	-
0820031061	-	-10% / +10%	-	-
0820031062	-	-10% / +10%	-	-
0820031064	110 V	-	-	-10% / +10%
0820031060	-	-	-10% / +10%	-

Part No.	Power consumption	Holding power	Holding power	Switch-on power
	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz
0820031055	2 W	-	-	-

Part No.	Power consumption	Holding power	Holding power	Switch-on power
	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz
0820031053	-	1,6 VA	-	2,2 VA
0820031051	2 W	-	-	-
0820031052	1 W	-	-	-
0820031054	-	-	1,4 VA	-
0820031050	-	1,6 VA	-	2,2 VA
0820031065	2 W	-	-	-
0820031063	-	1,6 VA	-	2,2 VA
0820031061	2 W	-	-	-
0820031062	1 W	-	-	-
0820031064	-	-	1,4 VA	-
0820031060	-	1,6 VA	-	2,2 VA

Part No.	Switch-on power	Typ. switch-on time	Typ. switch-off time	
	AC 60 Hz			
0820031055	-	13 ms	18 ms	-
0820031053	-	-	-	-
0820031051	-	13 ms	18 ms	-
0820031052	-	14 ms	20 ms	1)
0820031054	2 VA	-	-	-
0820031050	-	-	-	-
0820031065	-	13 ms	18 ms	-
0820031063	-	-	-	-
0820031061	-	13 ms	18 ms	-
0820031062	-	-	-	1)
0820031064	2 VA	-	-	-
0820031060	-	-	-	-

Nominal flow Q_n at 6 bar and $\Delta p = 1$ bar, MO = Manual override

1) Low power consumption

Technical information

The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

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 compressed air must remain constant during the life cycle.

Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

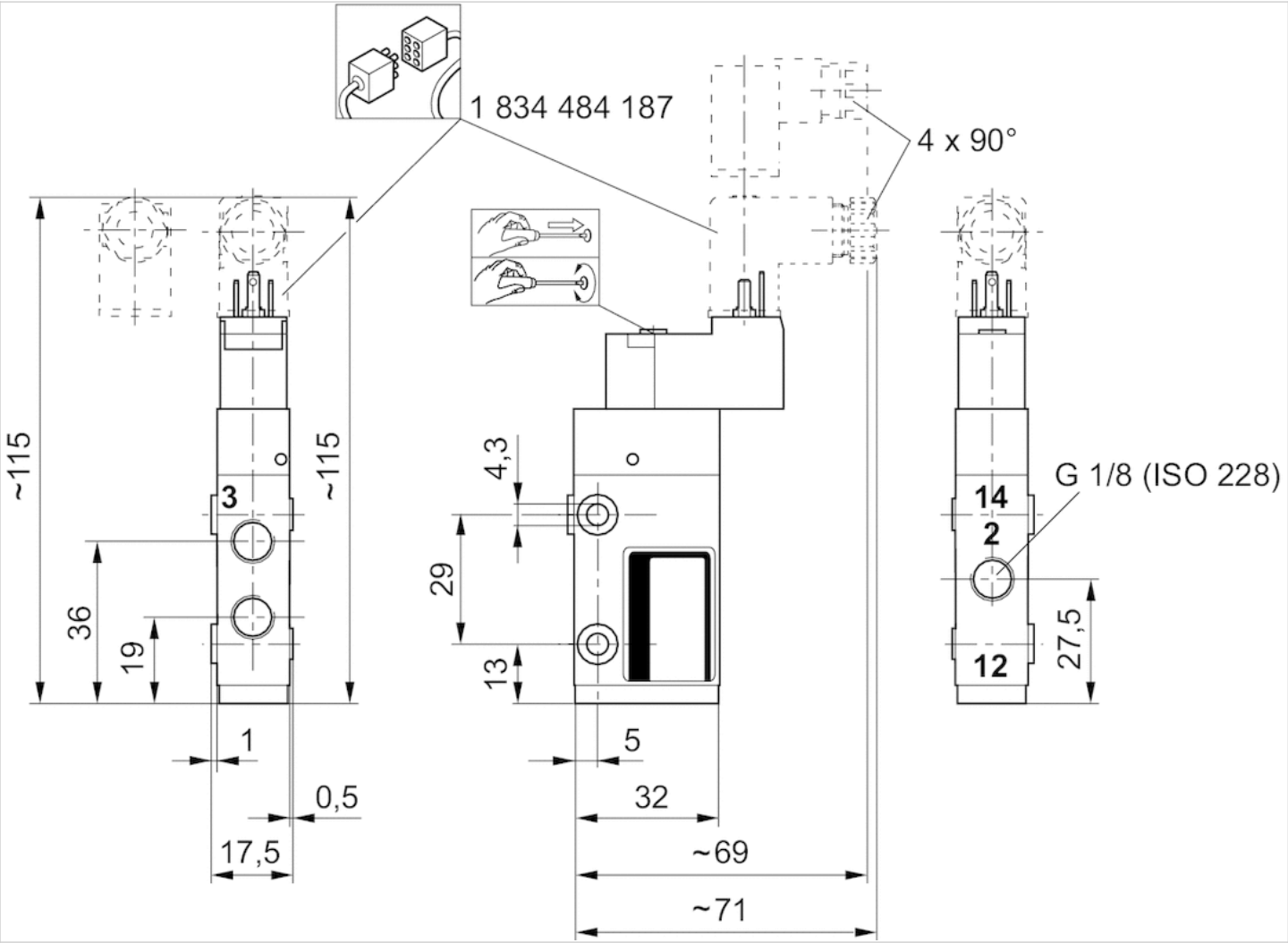
Notice: This product may only be operated with oiled compressed air.

Technical information

Material	
Housing	Stainless steel, hardened
Seals	Acrylonitrile butadiene rubber
Front plate	Aluminum, hard-anodized
End plate	Polyamide

Dimensions

Dimensions



5/2-directional valve, Series ST

- Qn = 280 l/min
- Pilot valve width : 15 mm
- Pipe connection
- Compressed air connection output : G 1/8
- Electrical connection : Plug, ISO 15217, form C
- Manual override : without detent, with detent
- single solenoid
- With spring return
- Pilot : internal



Version	Spool valve
Activation	Electrically
Pilot	internal
Sealing principle	metal/metal sealing
Working pressure min./max.	2 ... 10 bar
Control pressure min./max.	2 ... 10 bar
Ambient temperature min./max.	-10 ... 50 °C
Medium temperature min./max.	-10 ... 50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	5 ... 25 mg/m³
Nominal flow Qn	280 l/min
Protection class, with connection	IP65
Duty cycle	100 %
mounting screws	M4 with hexagon socket
Mounting screw tightening torque	2,5 Nm
Tightening torque tolerance	±0,5
Weight	0,27 kg

Technical data

Part No.		MO	Compressed air connection	Compressed air connection
			Input	Output
0820030055			G 1/8	G 1/8
0820030053			G 1/8	G 1/8
0820030051			G 1/8	G 1/8
0820030052			G 1/8	G 1/8
0820030054			G 1/8	G 1/8
0820030050			G 1/8	G 1/8
0820030065			G 1/8	G 1/8
0820030063			G 1/8	G 1/8
0820030061			G 1/8	G 1/8
0820030062			G 1/8	G 1/8
0820030064			G 1/8	G 1/8
0820030060			G 1/8	G 1/8

Part No.	Compressed air connection	Operationalvoltage	Operationalvoltage
	Exhaust	DC	AC 50 Hz
0820030055	G 1/8	12 V	-
0820030053	G 1/8	-	24 V
0820030051	G 1/8	24 V	-
0820030052	G 1/8	24 V	-
0820030054	G 1/8	-	-
0820030050	G 1/8	-	230 V
0820030065	G 1/8	12 V	-
0820030063	G 1/8	-	24 V
0820030061	G 1/8	24 V	-
0820030062	G 1/8	24 V	-
0820030064	G 1/8	-	-
0820030060	G 1/8	-	230 V

Part No.	Operationalvoltage	Voltage tolerance	Voltage tolerance	Voltage tolerance
	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz
0820030055	-	-10% / +10%	-	-
0820030053	-	-	-10% / +10%	-
0820030051	-	-10% / +10%	-	-
0820030052	-	-10% / +10%	-	-
0820030054	110 V	-	-	-10% / +10%
0820030050	-	-	-10% / +10%	-
0820030065	-	-10% / +10%	-	-
0820030063	-	-	-10% / +10%	-
0820030061	-	-10% / +10%	-	-
0820030062	-	-10% / +10%	-	-
0820030064	110 V	-	-	-10% / +10%
0820030060	-	-	-10% / +10%	-

Part No.	Power consumption	Holding power	Holding power	Switch-on power
	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz
0820030055	2 W	-	-	-

Part No.	Power consumption	Holding power	Holding power	Switch-on power
	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz
0820030053	-	1,6 VA	-	2,2 VA
0820030051	2 W	-	-	-
0820030052	1 W	-	-	-
0820030054	-	-	1,4 VA	-
0820030050	-	1,6 VA	-	2,2 VA
0820030065	2 W	-	-	-
0820030063	-	1,6 VA	-	2,2 VA
0820030061	2 W	-	-	-
0820030062	1 W	-	-	-
0820030064	-	-	1,4 VA	-
0820030060	-	1,6 VA	-	2,2 VA

Part No.	Switch-on power	Typ. switch-on time	Typ. switch-off time	
	AC 60 Hz			
0820030055	-	15 ms	20 ms	-
0820030053	-	-	-	-
0820030051	-	15 ms	20 ms	-
0820030052	-	15 ms	25 ms	1)
0820030054	2 VA	-	-	-
0820030050	-	-	-	-
0820030065	-	15 ms	20 ms	-
0820030063	-	-	-	-
0820030061	-	15 ms	20 ms	-
0820030062	-	15 ms	25 ms	1)
0820030064	2 VA	-	-	-
0820030060	-	-	-	-

Nominal flow Q_n at 6 bar and $\Delta p = 1$ bar, MO = Manual override

1) Low power consumption

Technical information

The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

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 compressed air must remain constant during the life cycle.

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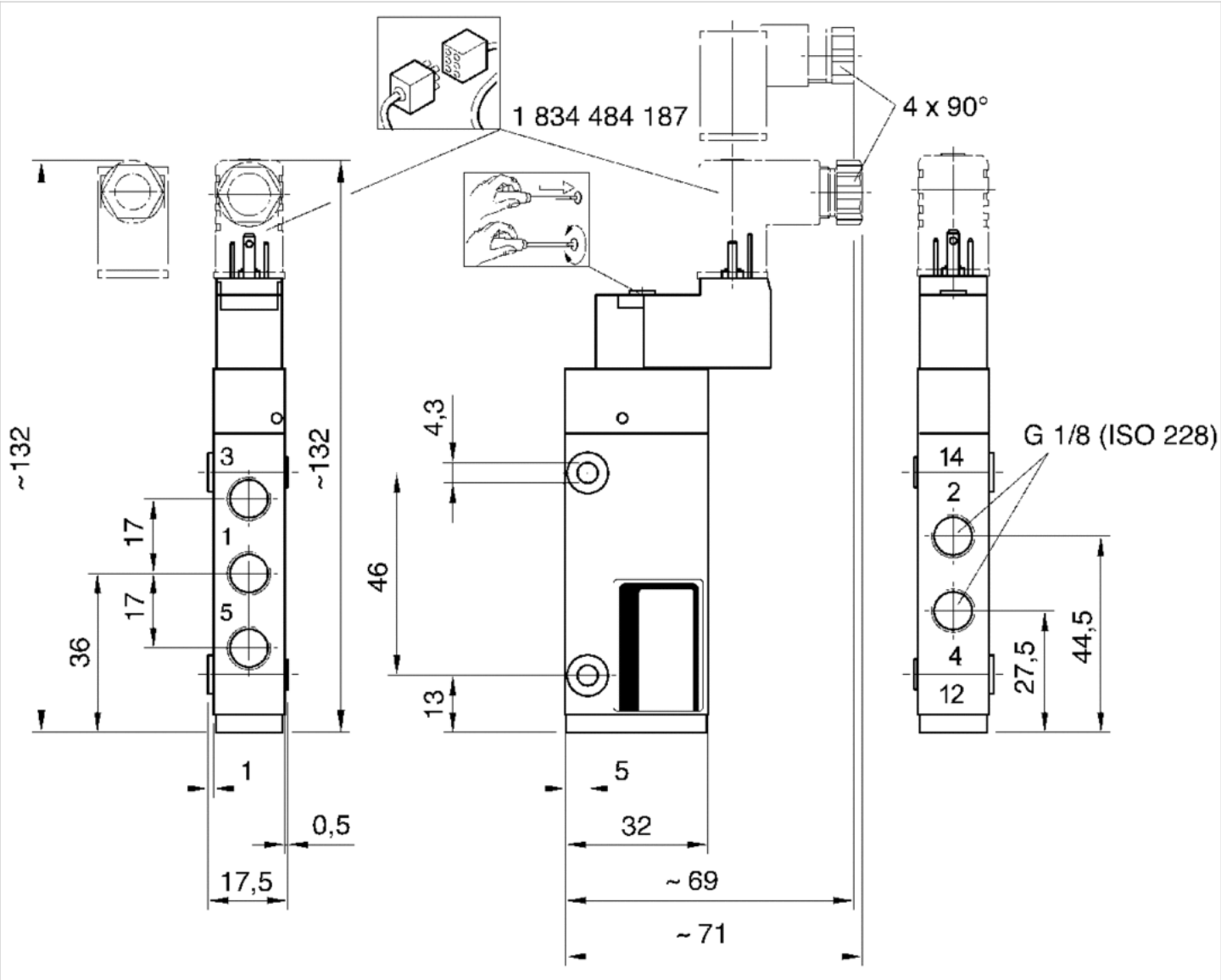
Notice: This product may only be operated with oiled compressed air.

Technical information

Material	
Housing	Stainless steel, hardened
Seals	Acrylonitrile butadiene rubber
Front plate	Aluminum, hard-anodized
End plate	Polyamide

Dimensions

Dimensions



5/2-directional valve, Series ST

- Qn = 280 l/min
- Pilot valve width : 15 mm
- Pipe connection
- Compressed air connection output : G 1/8
- Electrical connection : Plug, ISO 15217, form C
- Manual override : without detent, with detent
- Double solenoid
- Pilot : internal



Version	Spool valve
Activation	Electrically
Pilot	internal
Sealing principle	metal/metal sealing
Working pressure min./max.	2 ... 10 bar
Control pressure min./max.	2 ... 10 bar
Ambient temperature min./max.	-10 ... 50 °C
Medium temperature min./max.	-10 ... 50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	5 ... 25 mg/m³
Nominal flow Qn	280 l/min
Protection class,with connection	IP65
Duty cycle	100 %
mounting screws	M4 with hexagon socket
Mounting screw tightening torque	2,5 Nm
Tightening torque tolerance	±0,5
Weight	0,32 kg

Technical data

Part No.		MO	Compressed air connection	
			Input	Output
0820030155			G 1/8	G 1/8
0820030153			G 1/8	G 1/8
0820030151			G 1/8	G 1/8
0820030152			G 1/8	G 1/8
0820030154			G 1/8	G 1/8
0820030150			G 1/8	G 1/8
0820030165			G 1/8	G 1/8
0820030163			G 1/8	G 1/8
0820030161			G 1/8	G 1/8
0820030162			G 1/8	G 1/8
0820030164			G 1/8	G 1/8
0820030160			G 1/8	G 1/8

Part No.	Compressed air connection		Operationalvoltage	
	Exhaust		DC	AC 50 Hz
0820030155	G 1/8		12 V	-
0820030153	G 1/8		-	24 V

Part No.	Compressed air connection	Operationalvoltage	Operationalvoltage
	Exhaust	DC	AC 50 Hz
0820030151	G 1/8	24 V	-
0820030152	G 1/8	24 V	-
0820030154	G 1/8	-	-
0820030150	G 1/8	-	230 V
0820030165	G 1/8	12 V	-
0820030163	G 1/8	-	24 V
0820030161	G 1/8	24 V	-
0820030162	G 1/8	24 V	-
0820030164	G 1/8	-	-
0820030160	G 1/8	-	230 V

Part No.	Operationalvoltage	Voltage tolerance	Voltage tolerance	Voltage tolerance
	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz
0820030155	-	-10% / +10%	-	-
0820030153	-	-	-10% / +10%	-
0820030151	-	-10% / +10%	-	-
0820030152	-	-10% / +10%	-	-
0820030154	110 V	-	-	-10% / +10%
0820030150	-	-	-10% / +10%	-
0820030165	-	-10% / +10%	-	-
0820030163	-	-	-10% / +10%	-
0820030161	-	-10% / +10%	-	-
0820030162	-	-10% / +10%	-	-
0820030164	110 V	-	-	-10% / +10%
0820030160	-	-	-10% / +10%	-

Part No.	Power consumption	Holding power	Holding power	Switch-on power
	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz
0820030155	2 W	-	-	-
0820030153	-	1,6 VA	-	2,2 VA
0820030151	2 W	-	-	-
0820030152	1 W	-	-	-
0820030154	-	-	1,4 VA	-
0820030150	-	1,6 VA	-	2,2 VA
0820030165	2 W	-	-	-
0820030163	-	1,6 VA	-	2,2 VA
0820030161	2 W	-	-	-
0820030162	1 W	-	-	-
0820030164	-	-	1,4 VA	-
0820030160	-	1,6 VA	-	2,2 VA

Part No.	Switch-on power	Typ. switch-on time	Typ. switch-off time	
	AC 60 Hz			
0820030155	-	12 ms	12 ms	-
0820030153	-	-	-	-
0820030151	-	12 ms	12 ms	-
0820030152	-	13 ms	13 ms	1)
0820030154	2 VA	-	-	-
0820030150	-	-	-	-

Part No.	Switch-on power	Typ. switch-on time	Typ. switch-off time	
	AC 60 Hz			
0820030165	-	12 ms	12 ms	-
0820030163	-	-	-	-
0820030161	-	12 ms	12 ms	-
0820030162	-	13 ms	13 ms	1)
0820030164	2 VA	-	-	-
0820030160	-	-	-	-

Nominal flow Q_n at 6 bar and Δp = 1 bar, MO = Manual override

1) Low power consumption

Technical information

The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

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 compressed air must remain constant during the life cycle.

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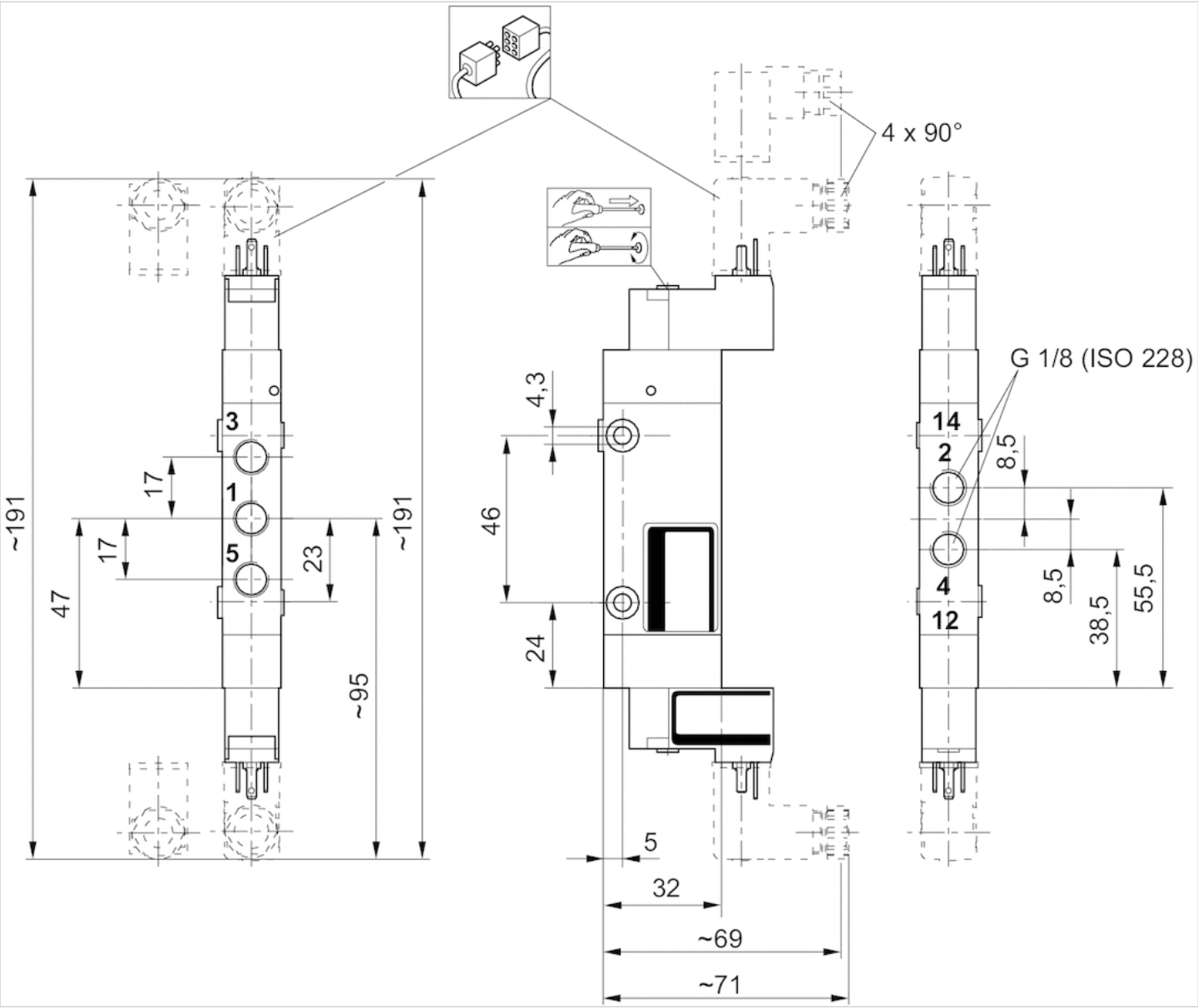
Notice: This product may only be operated with oiled compressed air.

Technical information

Material	
Housing	Stainless steel, hardened
Seals	Acrylonitrile butadiene rubber
Front plate	Aluminum, hard-anodized
End plate	Aluminum, hard-anodized

Dimensions

Dimensions



3/2-directional valve, Series ST

- Qn = 280 l/min
- Compressed air connection output G 1/8
- Single air pilot
- Pipe connection



Version	Spool valve
Activation	Pneumatically
Sealing principle	metal/metal sealing
Flow rate value Qn	280 l/min
Working pressure min./max.	-0,95 ... 10 bar
Control pressure min./max.	See table below
Ambient temperature min./max.	-15 ... 80 °C
Medium temperature min./max.	-15 ... 80 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	5 ... 25 mg/m³
Mounting screw	M4 with hexagon socket
Mounting screw tightening torque	2,5 Nm
Weight	See table below

Technical data

Part No.		Compressed air connection	Compressed air connection
		Input	Output
0820212001		G 1/8	G 1/8
0820213001		G 1/8	G 1/8

Part No.	Compressed air connection	Control pressure min./max.	Weight
	Exhaust		
0820212001	G 1/8	2 ... 10 bar	0,18 kg
0820213001	G 1/8	1,8 ... 10 bar	0,19 kg

Nominal flow Qn at 6 bar and Δp = 1 bar

Technical information

The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

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 compressed air must remain constant during the life cycle.

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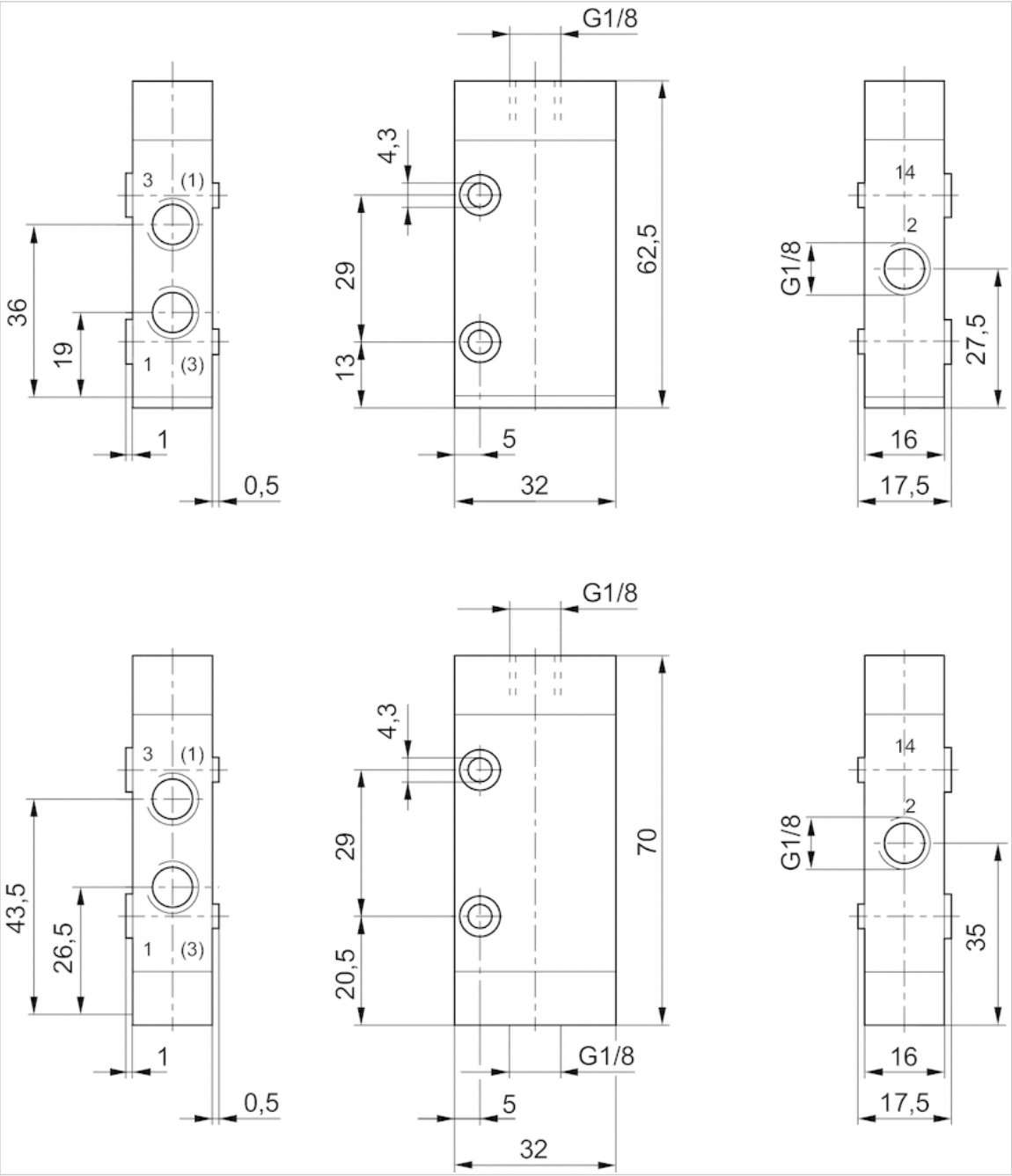
Technical information

Material	
Housing	Stainless steel, hardened
Seals	Acrylonitrile butadiene rubber

Material	
Front plate	Polyamide
Threaded bushing	Brass

Dimensions

Dimensions



5/2-directional valve, Series ST

- $Q_n = 280 \text{ l/min}$
- Compressed air connection output G 1/8
- Single air pilot
- Pipe connection



Version	Spool valve
Activation	Pneumatically
Sealing principle	metal/metal sealing
Flow rate value Q_n	280 l/min
Working pressure min./max.	See table below
Control pressure min./max.	See table below
Ambient temperature min./max.	-15 ... 80 °C
Medium temperature min./max.	-15 ... 80 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	5 ... 25 mg/m ³
Mounting screw	M4 with hexagon socket
Mounting screw tightening torque	2,5 Nm
Weight	See table below

Technical data

Part No.		Compressed air connection	
		Input	Output
0820204006		G 1/8	G 1/8
0820204003		G 1/8	G 1/8
0820205003		G 1/8	G 1/8
0820205006		G 1/8	G 1/8

Part No.	Compressed air connection	Working pressure min./max.	Control pressure min./max.
	Exhaust		
0820204006	G 1/8	2 ... 10 bar	6 bar
0820204003	G 1/8	-0,95 ... 10 bar	2 ... 10 bar
0820205003	G 1/8	-0,95 ... 10 bar	1,5 ... 10 bar
0820205006	G 1/8	-0,95 ... 10 bar	1,5 ... 10 bar

Part No.	Weight	Fig.	
0820204006	0,236 kg	Fig. 3	-
0820204003	0,231 kg	Fig. 1	1)
0820205003	0,231 kg	Fig. 2	1)
0820205006	0,235 kg	Fig. 3	1)

Nominal flow Q_n at 6 bar and $\Delta p = 1 \text{ bar}$

1)

Technical information

The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

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 compressed air must remain constant during the life cycle.

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

Technical information

Material	
Housing	Stainless steel, hardened
Seals	Acrylonitrile butadiene rubber
Front plate	Polyamide
Threaded bushing	Brass

Dimensions

Fig. 1

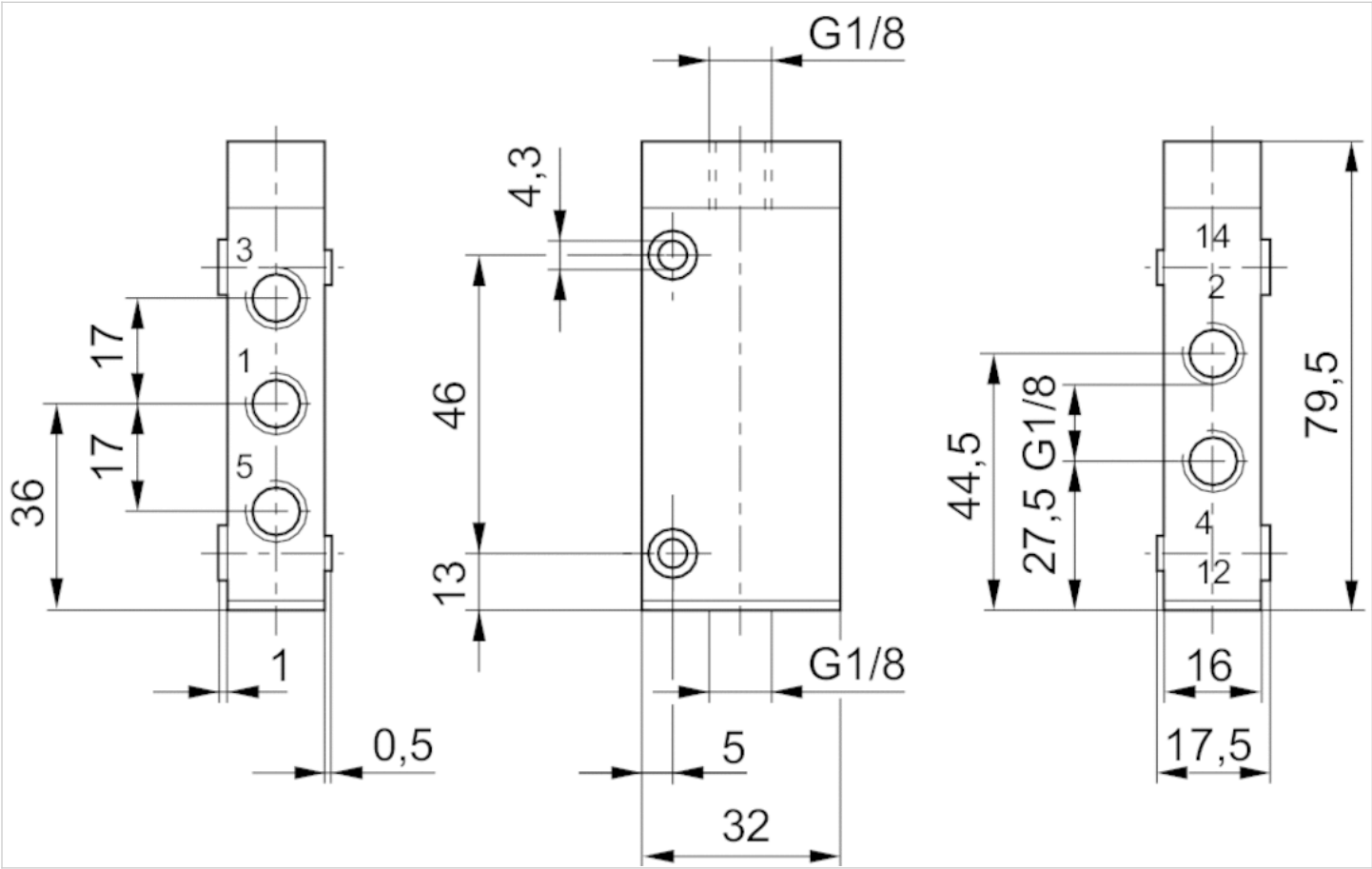


Fig. 2

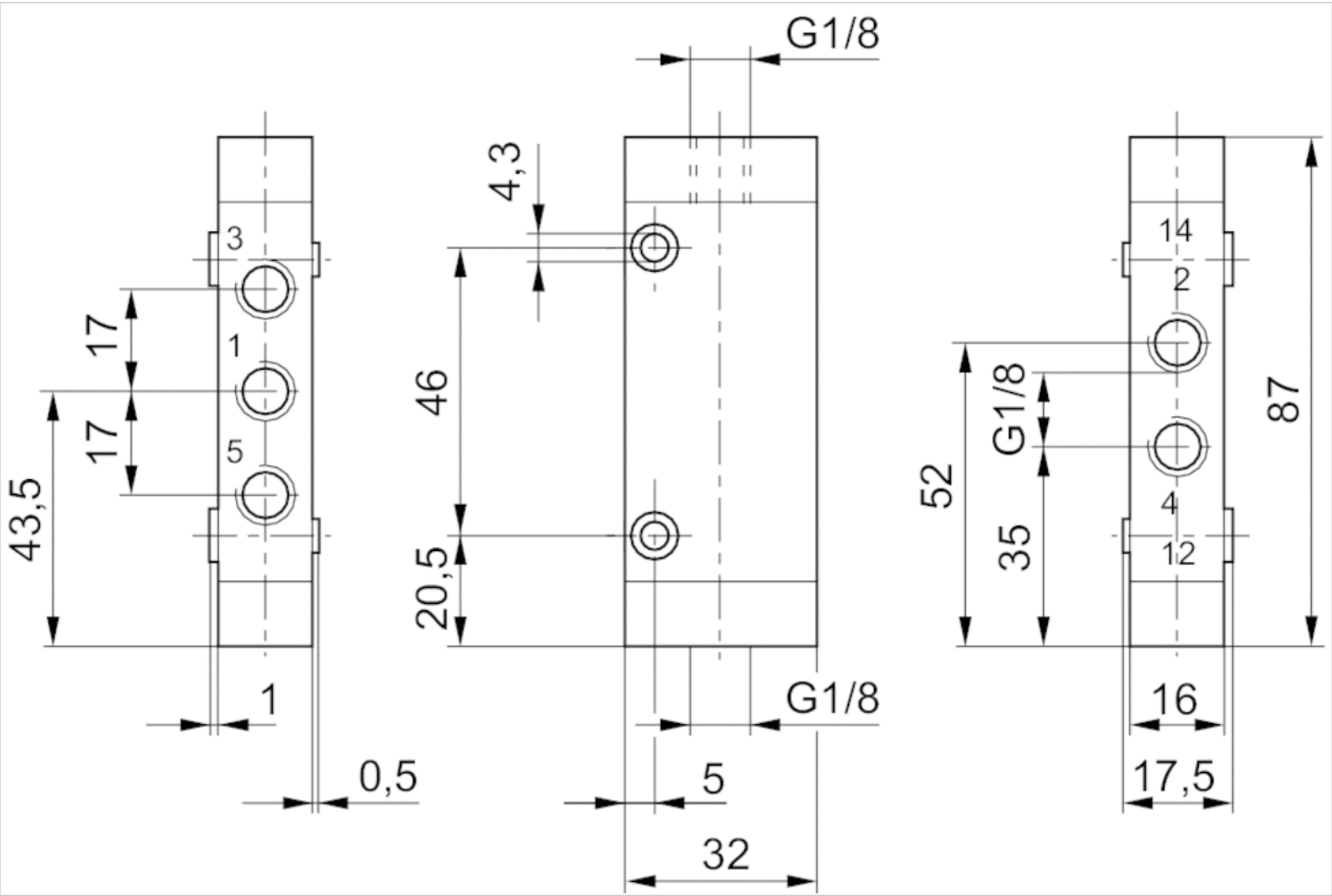
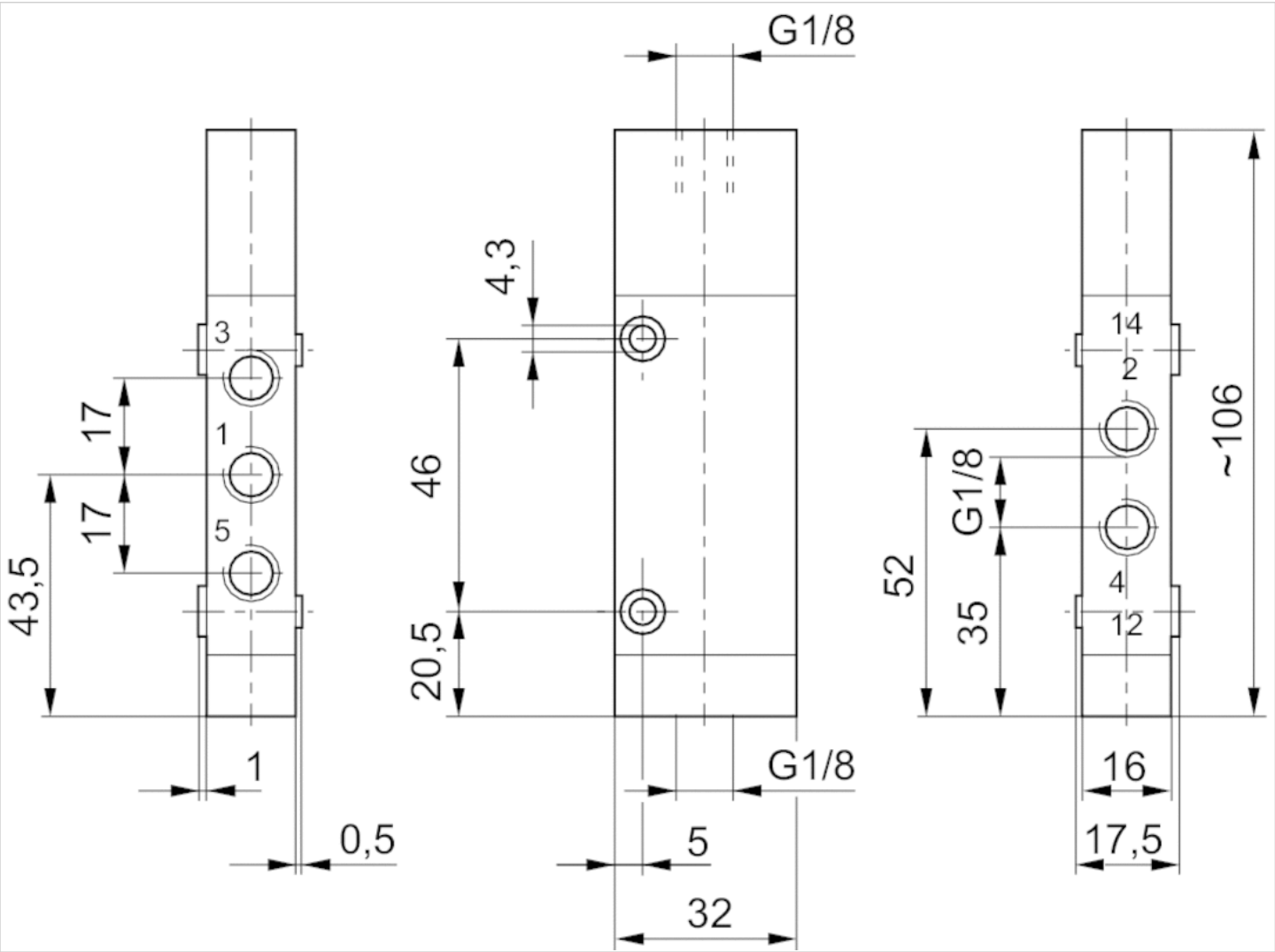
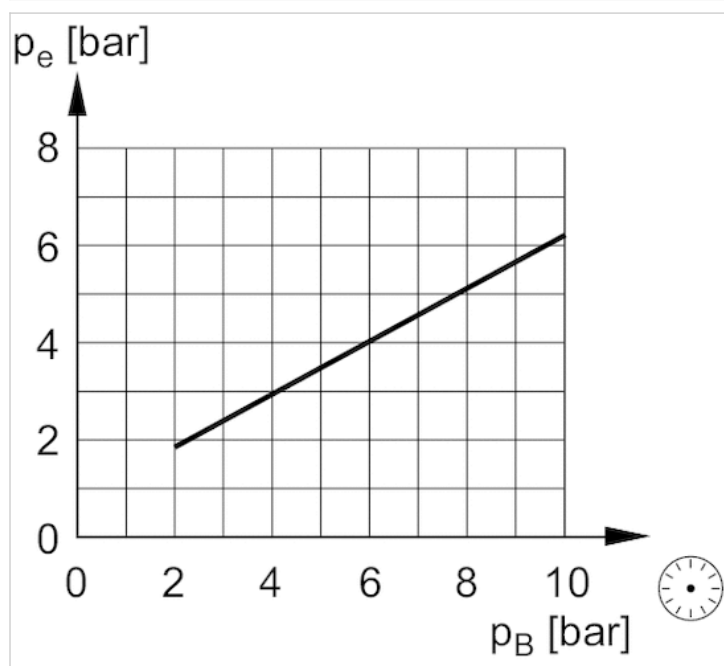


Fig. 3



Diagrams

Control pressure



p_e = external control pressure, min.

p_B = Working pressure

3/2-directional valve, Series ST

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



Version	Spool valve
Activation	Mechanical
Lock type	not lockable
Switching principle	3/2
Sealing principle	metal/metal sealing
Nominal flow Qn	280 l/min
Working pressure min./max.	-0,95 ... 10 bar
Ambient temperature min./max.	-15 ... 80 °C
Medium temperature min./max.	-15 ... 80 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	5 ... 25 mg/m³
Mounting screw	M4 with hexagon socket
Mounting screw tightening torque	2,5 Nm
Weight	See table below

Technical data

Part No.		Actuating element	Compressed air connection
			Input
0820402001		Plunger	G 1/8
0820402002		Roller	G 1/8
0820402003		Roller lever, one-way trip	G 1/8
0820402004		Push button	G 1/8
0820402005		Lever	G 1/8
0820402016		Roller with single-action lever	G 1/8
0820402017		Roller with articulated lever	G 1/8
0820402019		Plunger	G 1/8
R422002211		panel installation	G 1/8

Part No.	Compressed air connection	Compressed air connection	Operating force
	Output	Exhaust	min.
0820402001	G 1/8	G 1/8	11 N
0820402002	G 1/8	G 1/8	6,5 N
0820402003	G 1/8	G 1/8	6,5 N
0820402004	G 1/8	G 1/8	6,5 N
0820402005	G 1/8	G 1/8	-
0820402016	G 1/8	G 1/8	10 N
0820402017	G 1/8	G 1/8	25 N
0820402019	G 1/8	G 1/8	5 N
R422002211	G 1/8	G 1/8	11 N

Part No.	Actuating torque	Material actuating control	Weight	Fig.	
	Min.				
0820402001	-	Stainless steel	0,17 kg	Fig. 1	-
0820402002	-	Polyoxymethylene	0,18 kg	Fig. 2	-
0820402003	-	Polyoxymethylene	0,18 kg	Fig. 3	-
0820402004	-	Polyamide	0,18 kg	Fig. 4	-
0820402005	0,02 Nm	Polyamide	0,17 kg	Fig. 5	-
0820402016	-	Polyoxymethylene	0,29 kg	Fig. 6	-
0820402017	-	Polyoxymethylene	0,29 kg	Fig. 7	-
0820402019	-	Stainless steel	0,17 kg	Fig. 8	1)
R422002211	-	Polyoxymethylene	0,18 kg	Fig. 9	2)

Nominal flow Q_n at 6 bar and Δp = 1 bar

1) horizontal installation position

2) Please order control button separately.

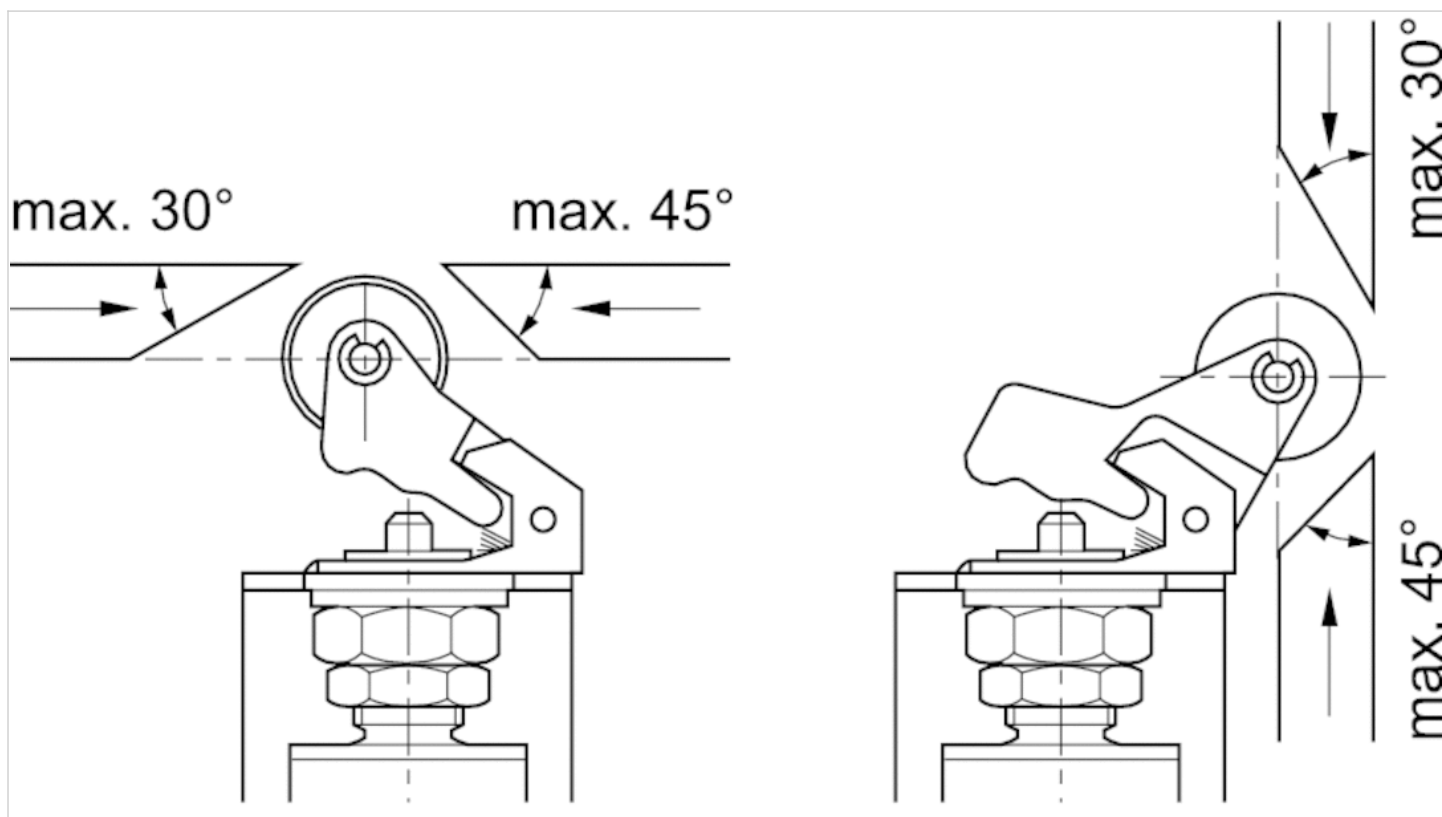
Technical information

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

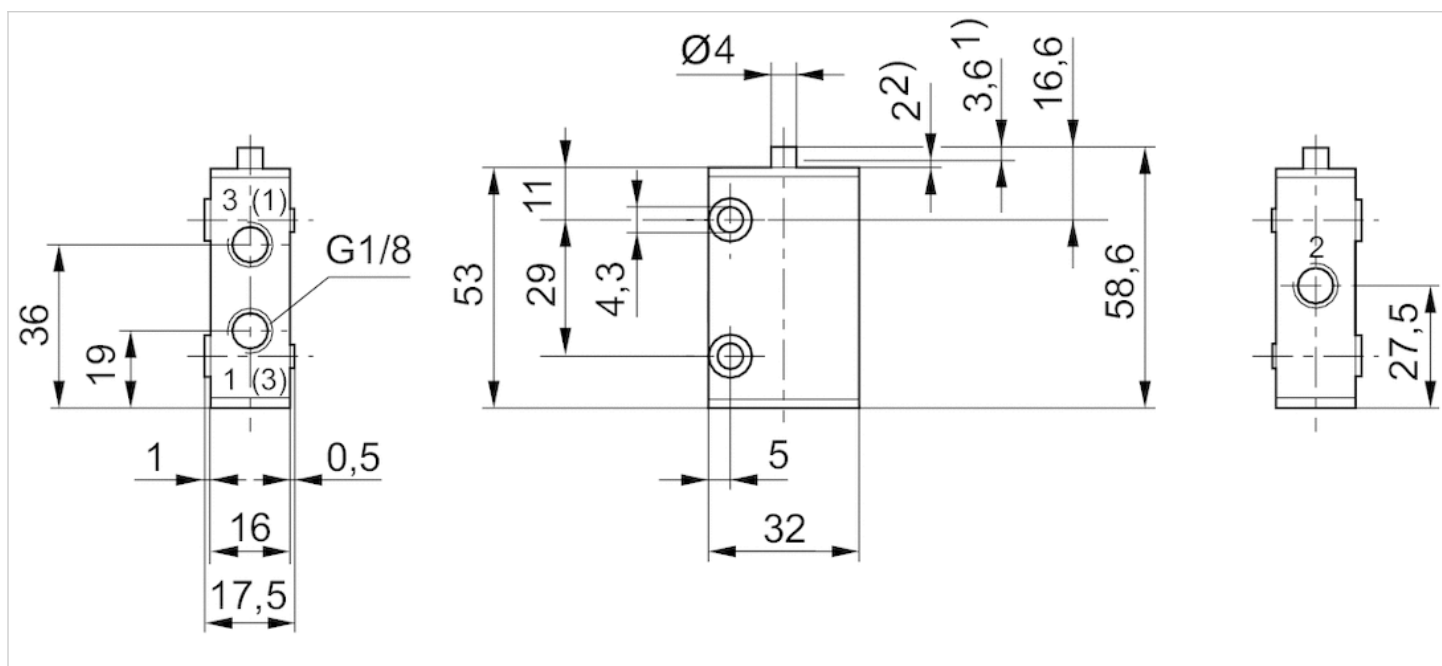
Technical information

Material	
Housing	Stainless steel, hardened
Actuating element	Stainless steel, Polyoxymethylene, Polyamide
Front cover	Stainless steel, Steel, Polyamide, Aluminum, Steel, galvanized

Dimensions

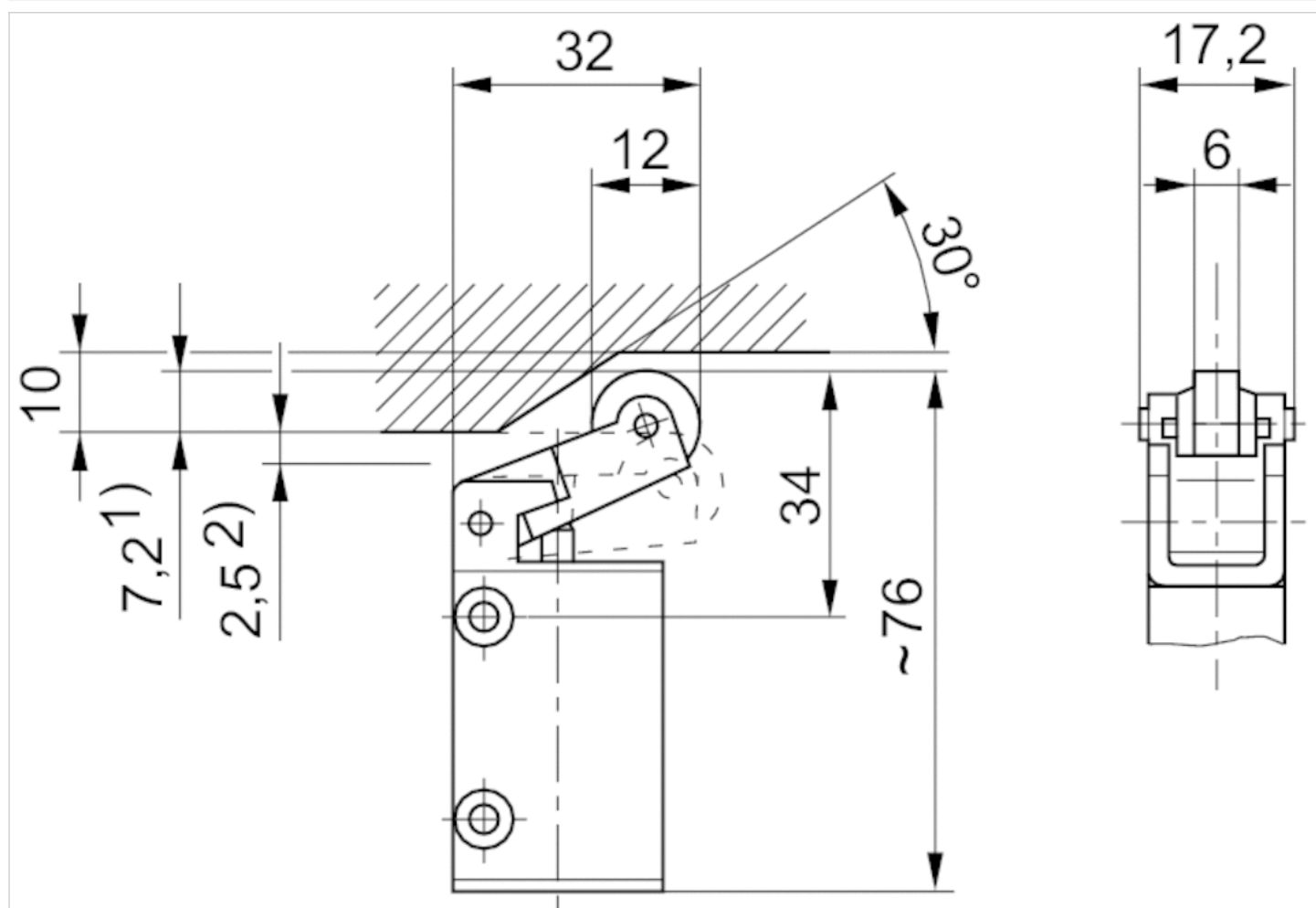


Dimensions Fig. 1 Basic valve



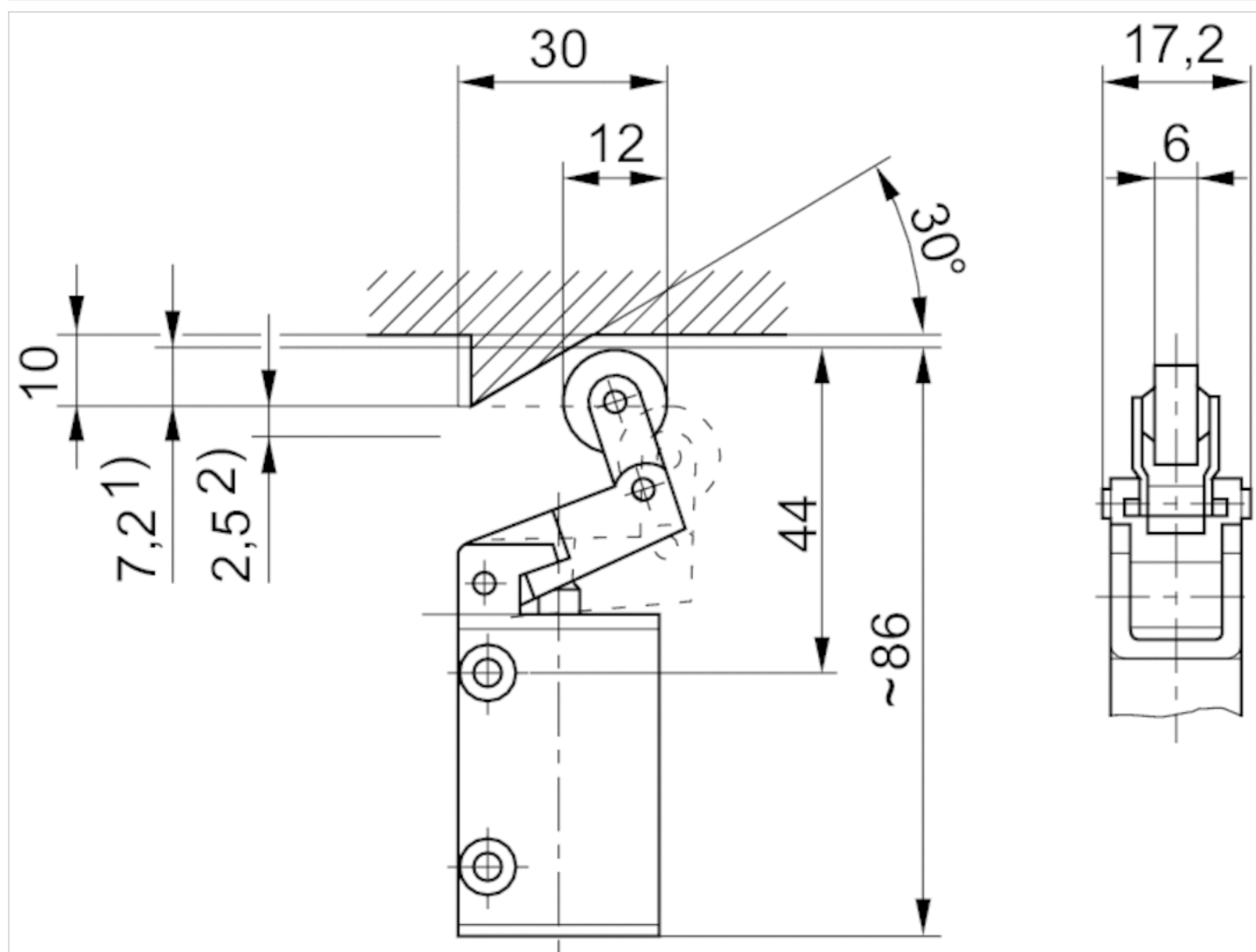
1) Actuating stroke 2) overstroke connection via 2 through-holes in housing
 Dimensions of basic valve apply to all types of actuation.

Dimensions Fig. 2



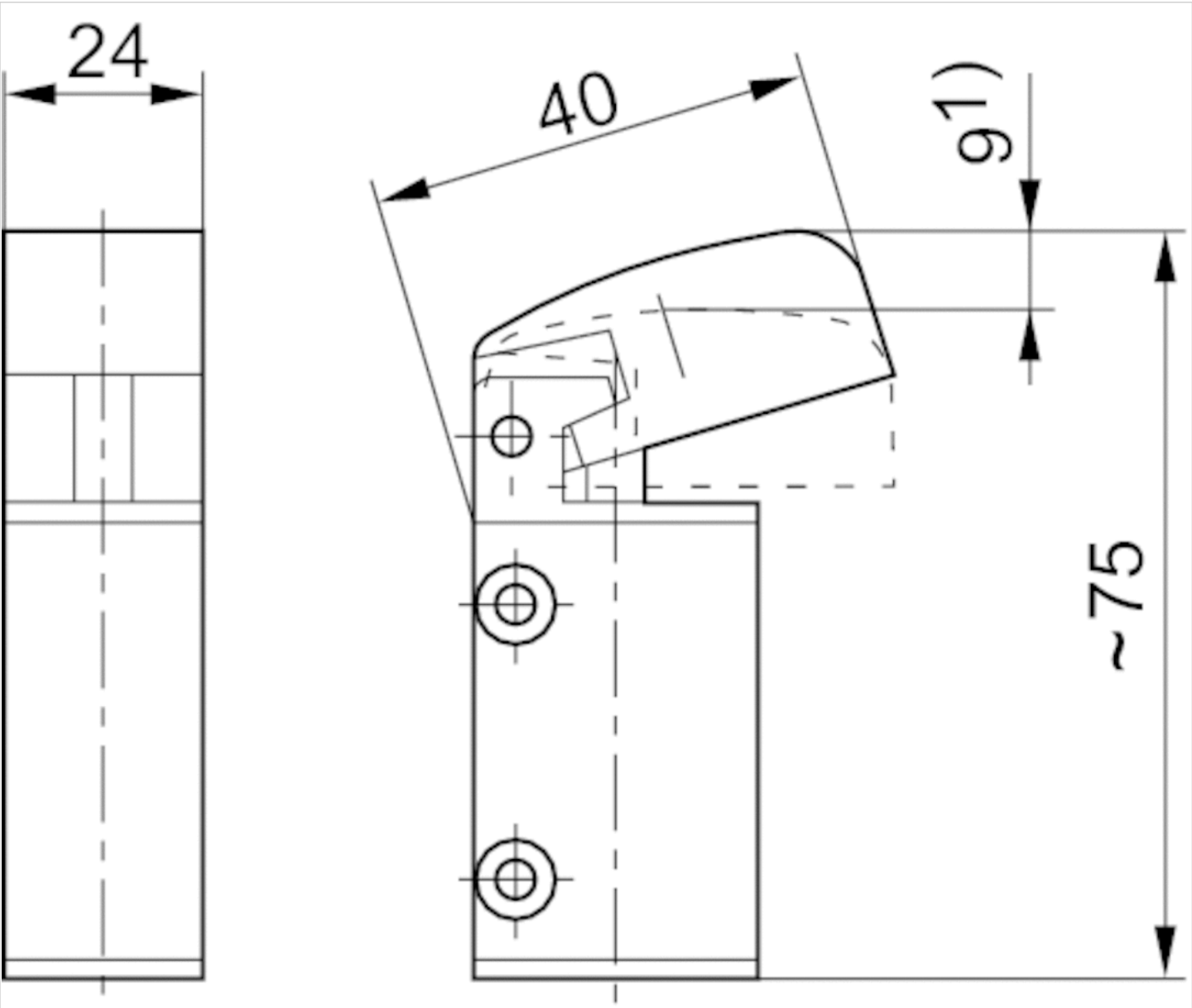
1) Actuating stroke 2) overstroke connection via 2 through-holes in housing

Dimensions Fig. 3



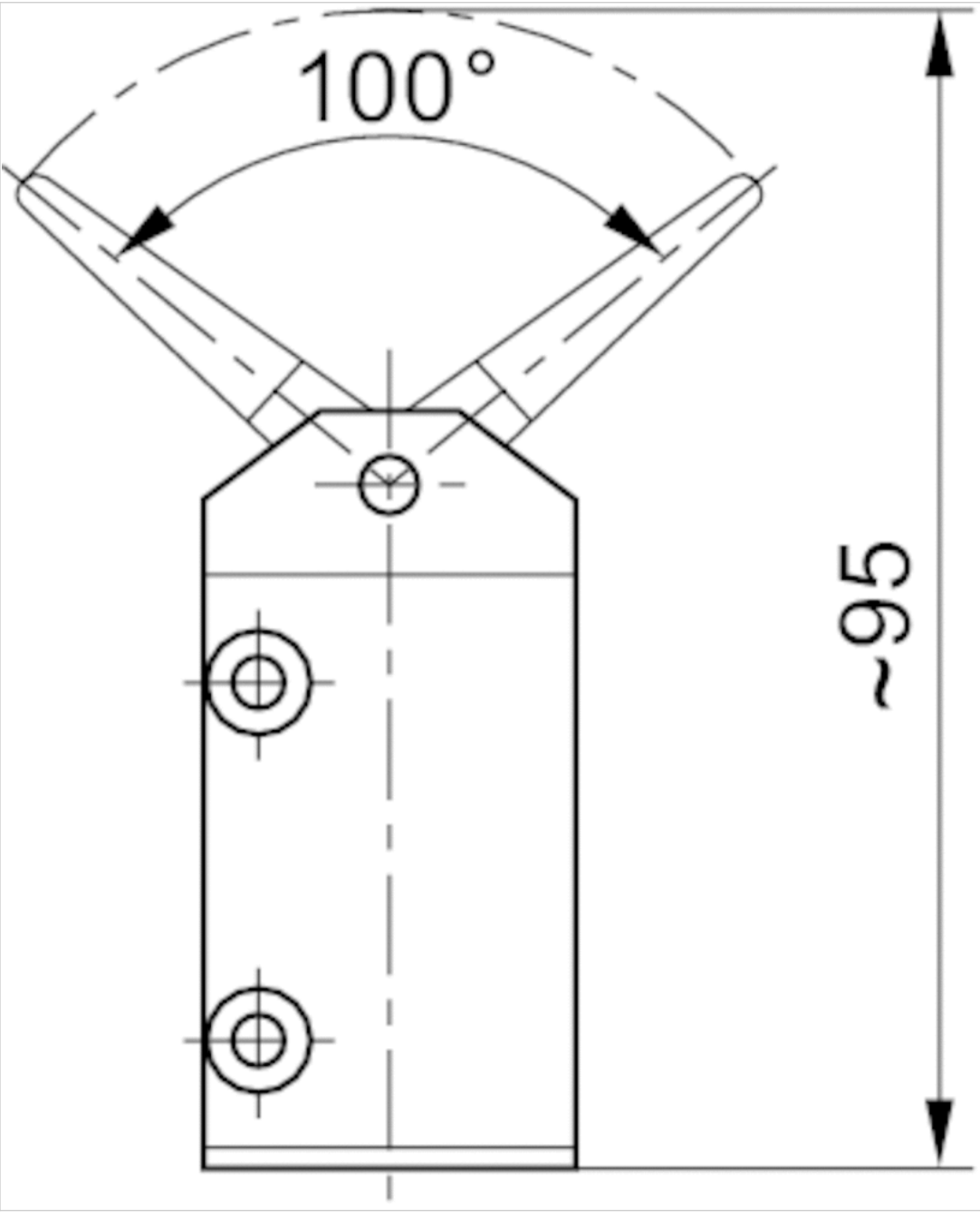
1) actuating stroke 2) overstroke

Dimensions Fig. 4

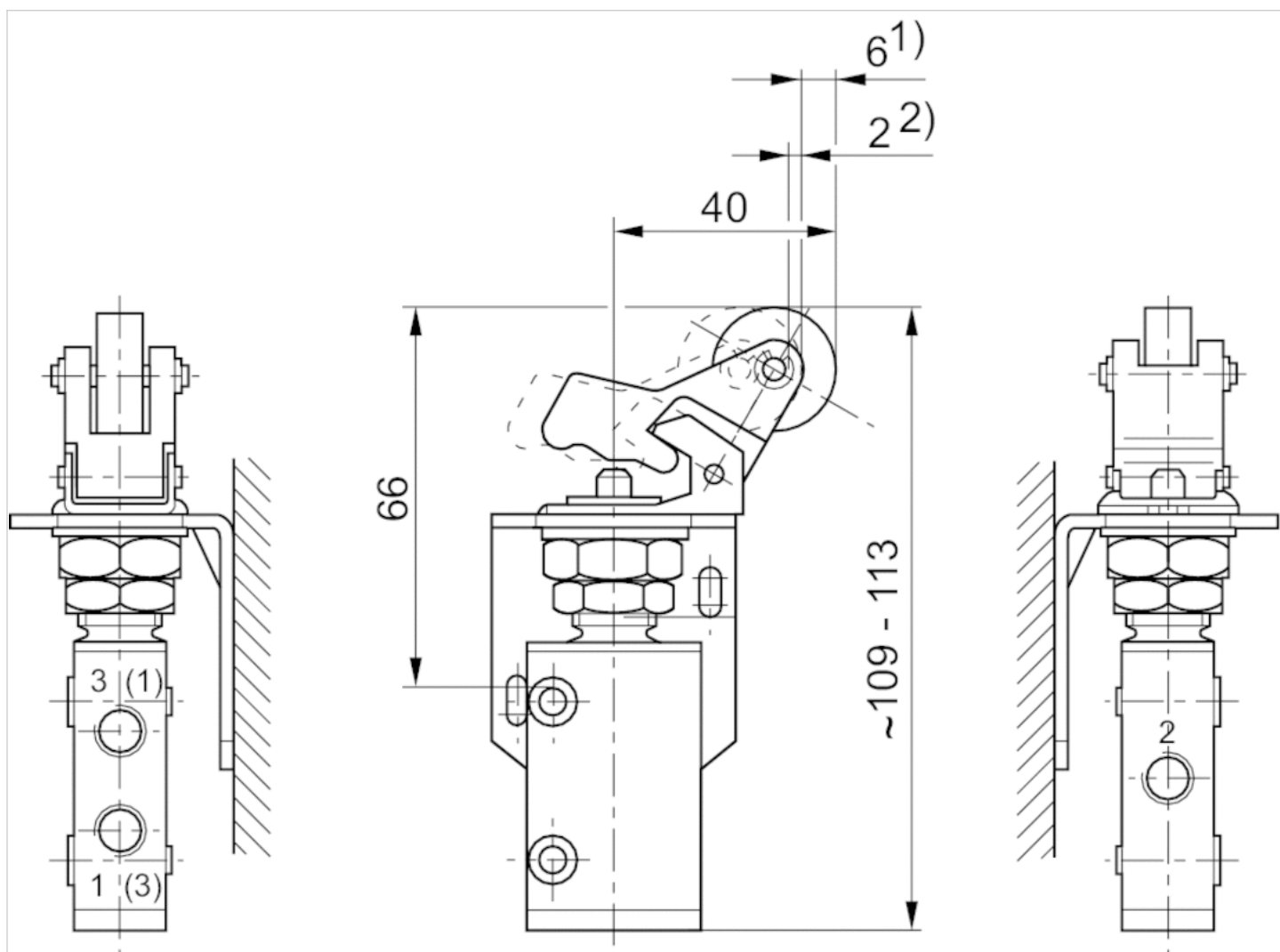


1) actuating stroke connection via 2 through-holes in housing

Dimensions Fig. 5

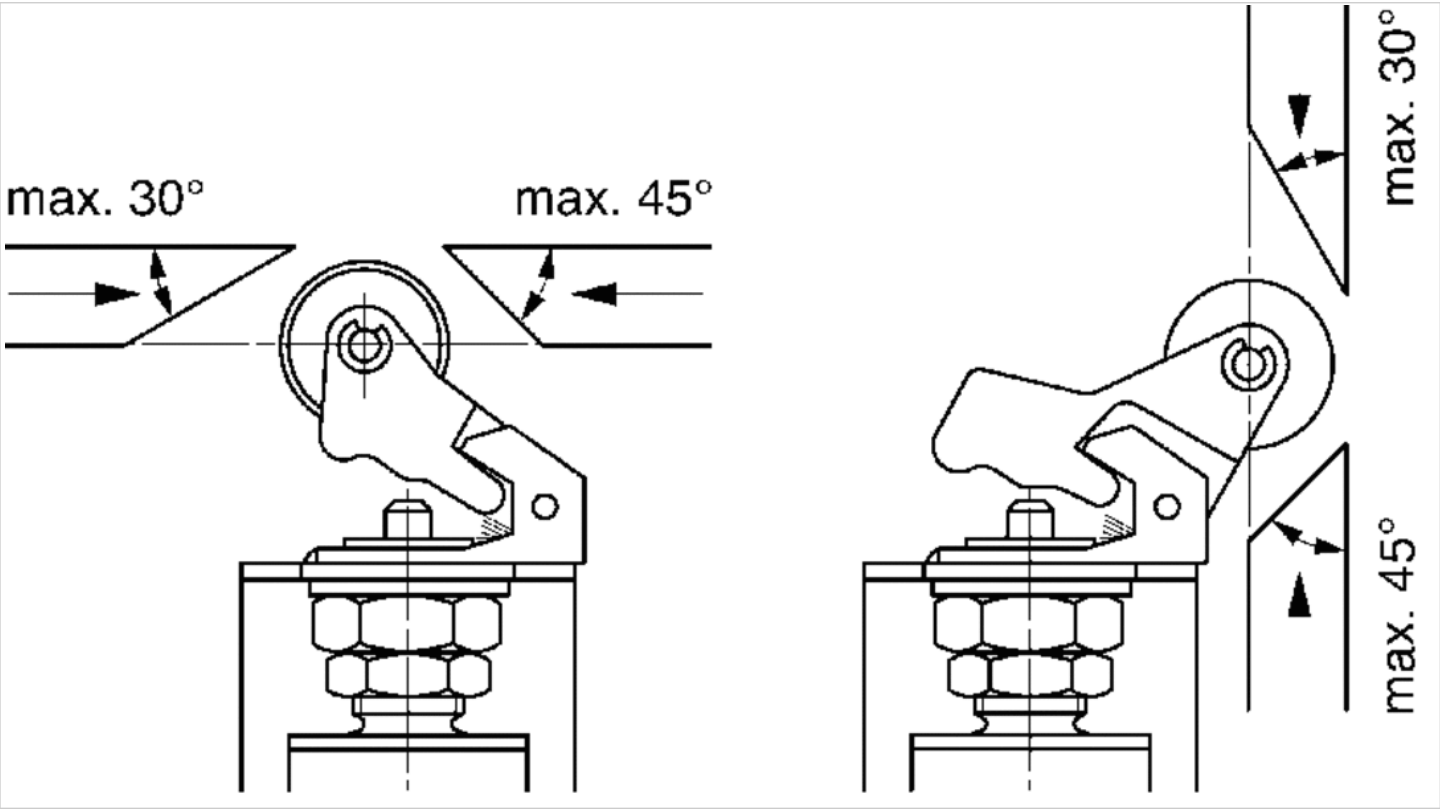


Dimensions Fig. 7

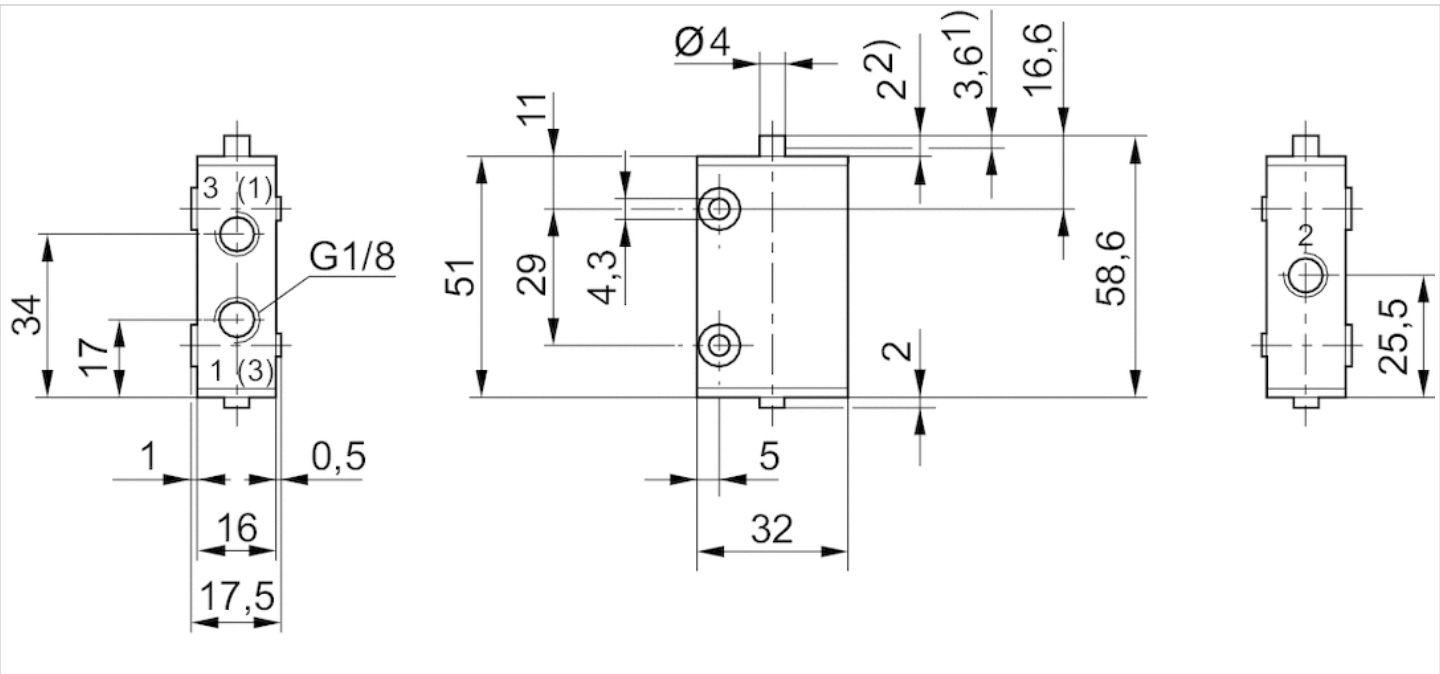


1) Actuating stroke 2) Overstroke Can be adjusted by 90°, thereby providing 4 different angles of approach

angle of approach for 0820402016 and 0820402017

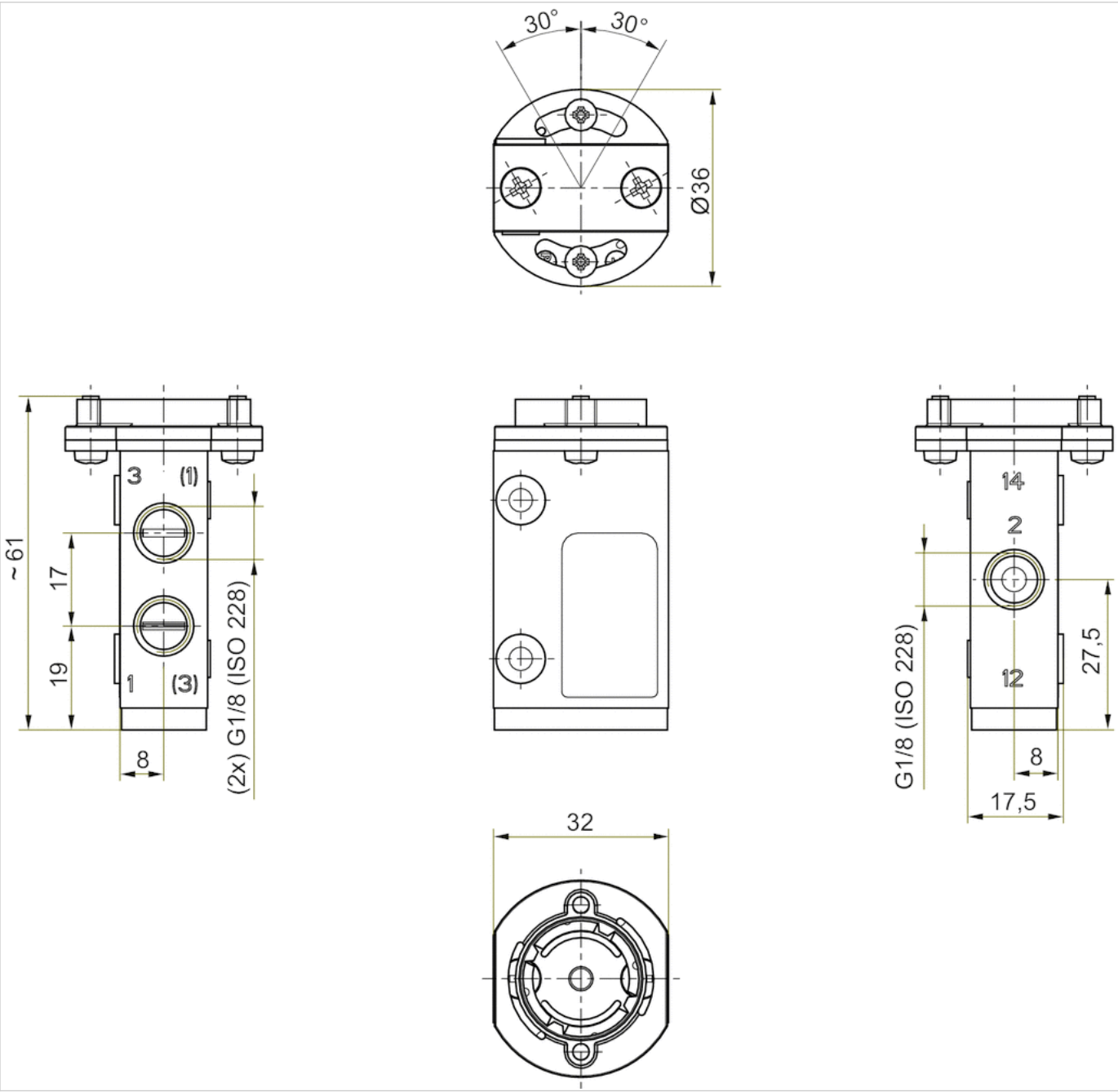


Dimensions Fig. 8

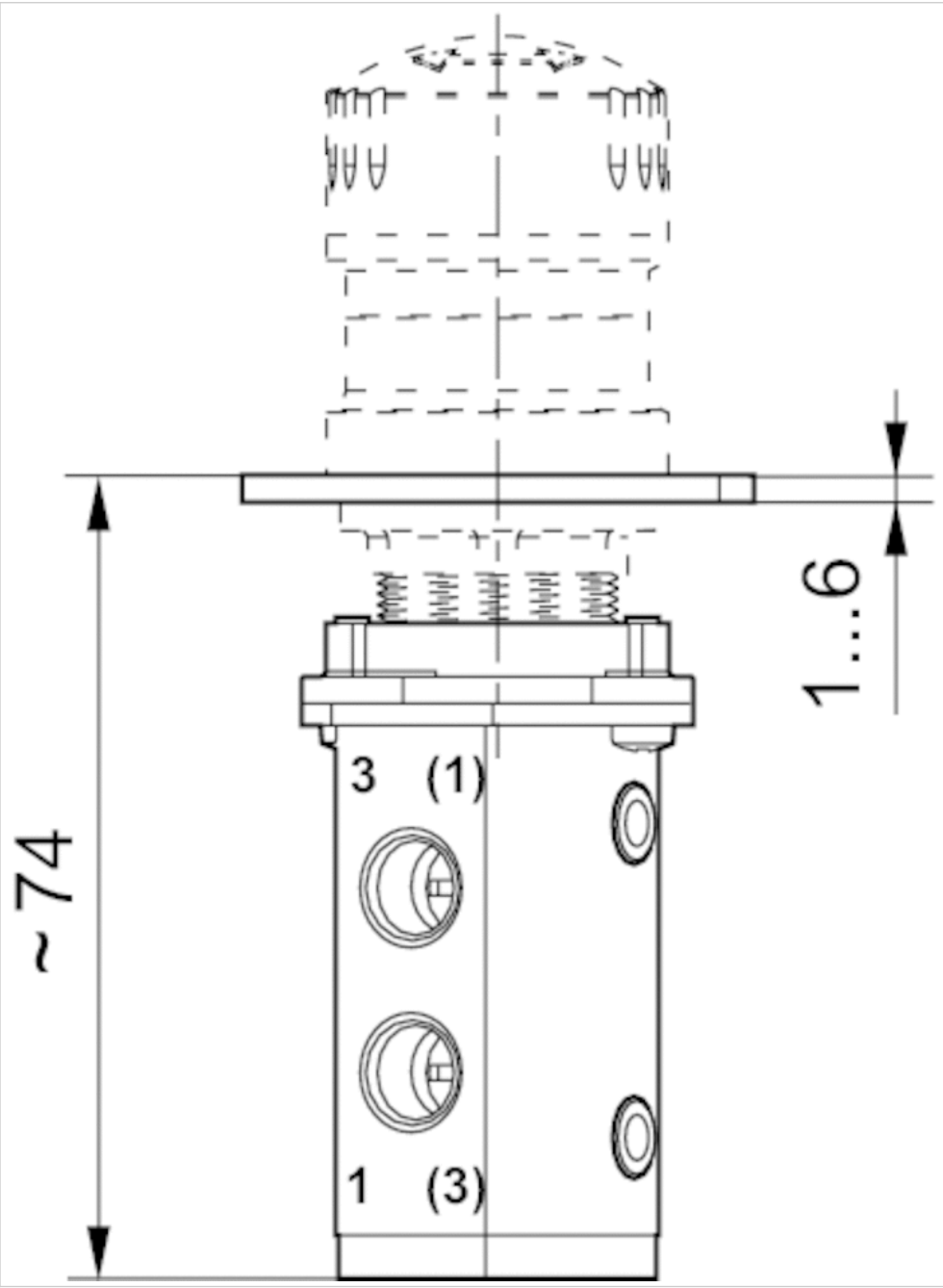


1) actuating stroke2) overstroke

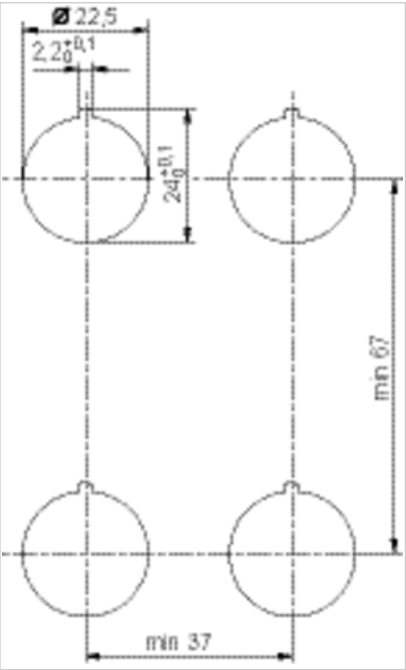
Dimensions Fig. 9



Dimensions Fig. 9 Overview drawing



Dimensions cut-out in the front plate



3/2-directional valve, Series ST

- Qn = 280 l/min
- Compressed air connection output G 1/8
- with air return
- single solenoid
- Pipe connection



Version	Spool valve
Activation	Mechanical
Lock type	not lockable
Switching principle	3/2
Sealing principle	metal/metal sealing
Nominal flow Qn	280 l/min
Working pressure min./max.	-0,95 ... 10 bar
Control pressure min./max.	2 ... 10 bar
Ambient temperature min./max.	-15 ... 80 °C
Medium temperature min./max.	-15 ... 80 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	5 ... 25 mg/m³
Mounting screw	M4 with hexagon socket
Mounting screw tightening torque	2,5 Nm
Weight	See table below

Technical data

Part No.		Actuating element	Compressed air connection
			Input
0820402008		Plunger	G 1/8
0820402009		Roller	G 1/8
0820402010		Roller lever, one-way trip	G 1/8
0820402011		Push button	G 1/8
R422002212		panel installation	G 1/8

Part No.	Compressed air connection	Compressed air connection	Operating force
	Output	Exhaust	min.
0820402008	G 1/8	G 1/8	5 N
0820402009	G 1/8	G 1/8	3 N
0820402010	G 1/8	G 1/8	3 N
0820402011	G 1/8	G 1/8	3 N
R422002212	G 1/8	G 1/8	-

Part No.	Material actuating control	Weight	Fig.	
0820402008	Stainless steel	0,17 kg	Fig. 1	1)
0820402009	Polyoxymethylene	0,17 kg	Fig. 2	1)
0820402010	Polyoxymethylene	0,18 kg	Fig. 3	1)
0820402011	Polyamide	0,18 kg	Fig. 4	1)
R422002212	Polyoxymethylene	0,18 kg	Fig. 5	2)

Nominal flow Qn at 6 bar and Δp = 1 bar

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

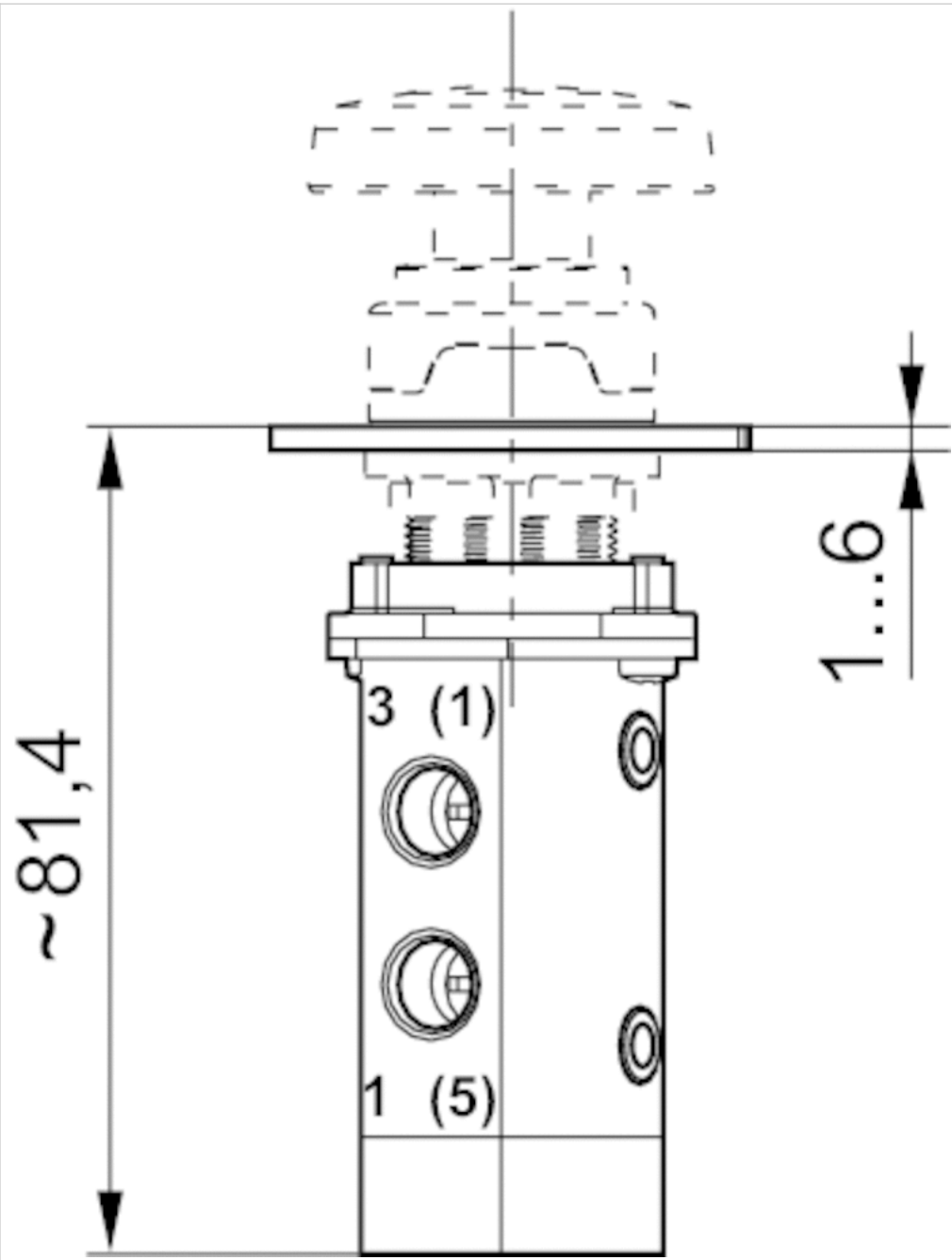
Technical information

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

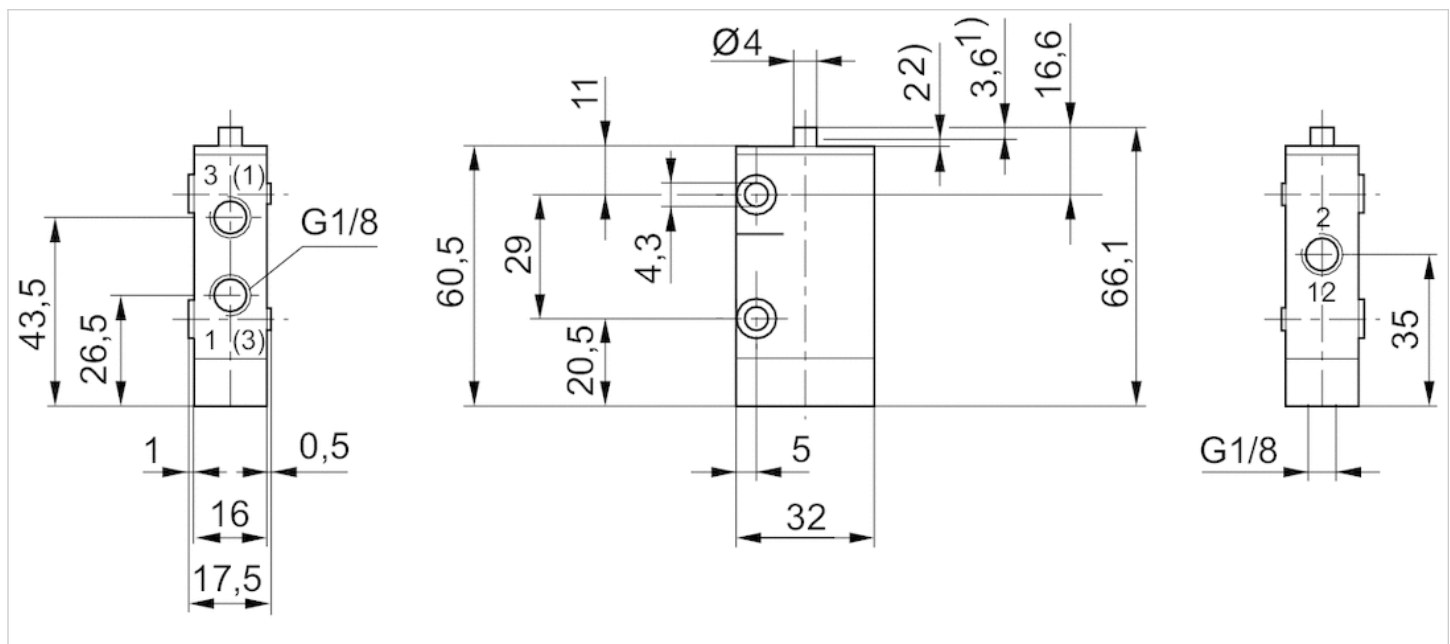
Technical information

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

Dimensions

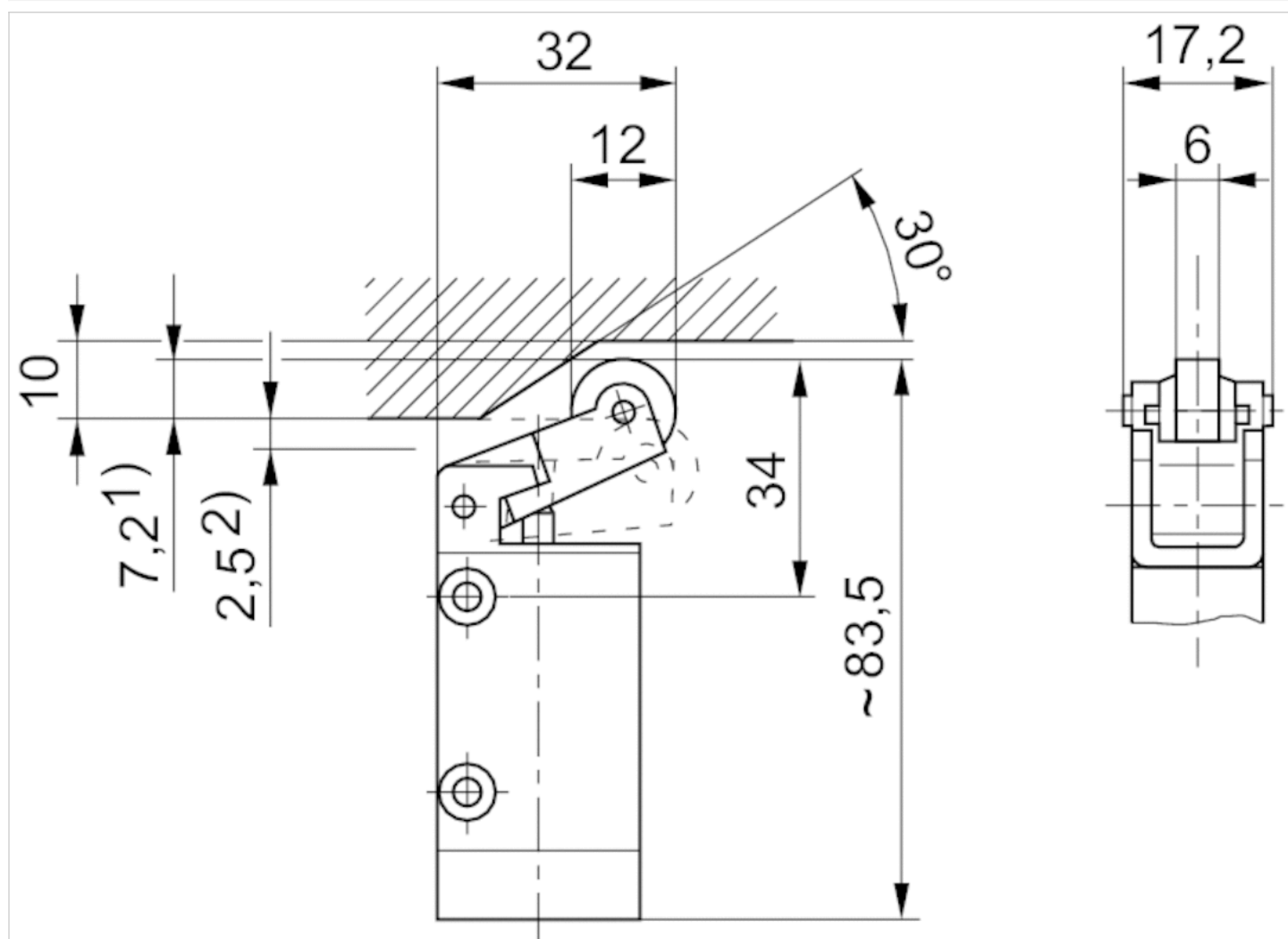


Dimensions Fig. 1 Basic valve



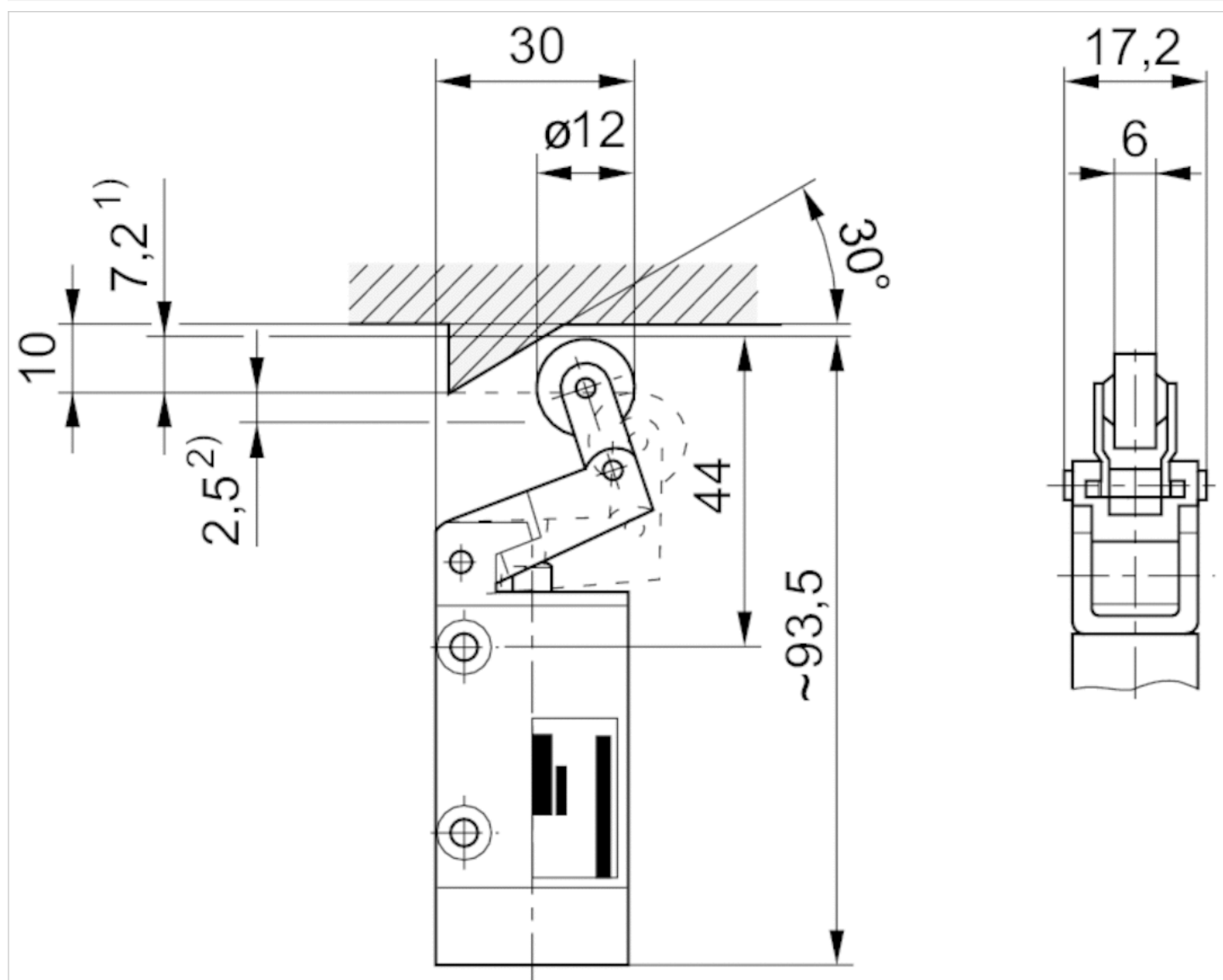
1) Actuating stroke 2) overstroke connection via 2 through-holes in housing
 Dimensions of basic valve apply to all types of actuation.

Dimensions Fig. 2



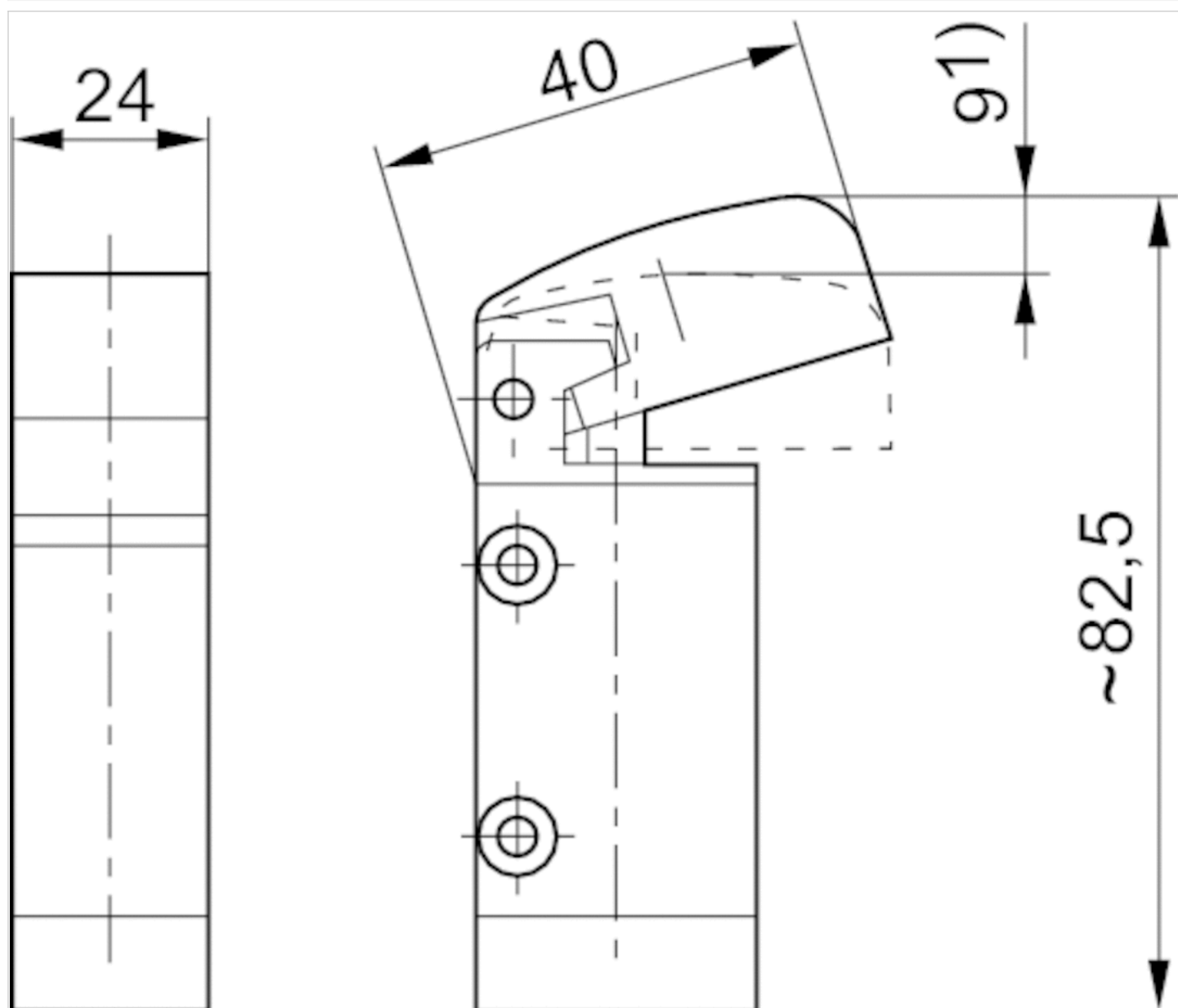
1) Actuating stroke 2) overstroke connection via 2 through-holes in housing

Dimensions Fig. 3



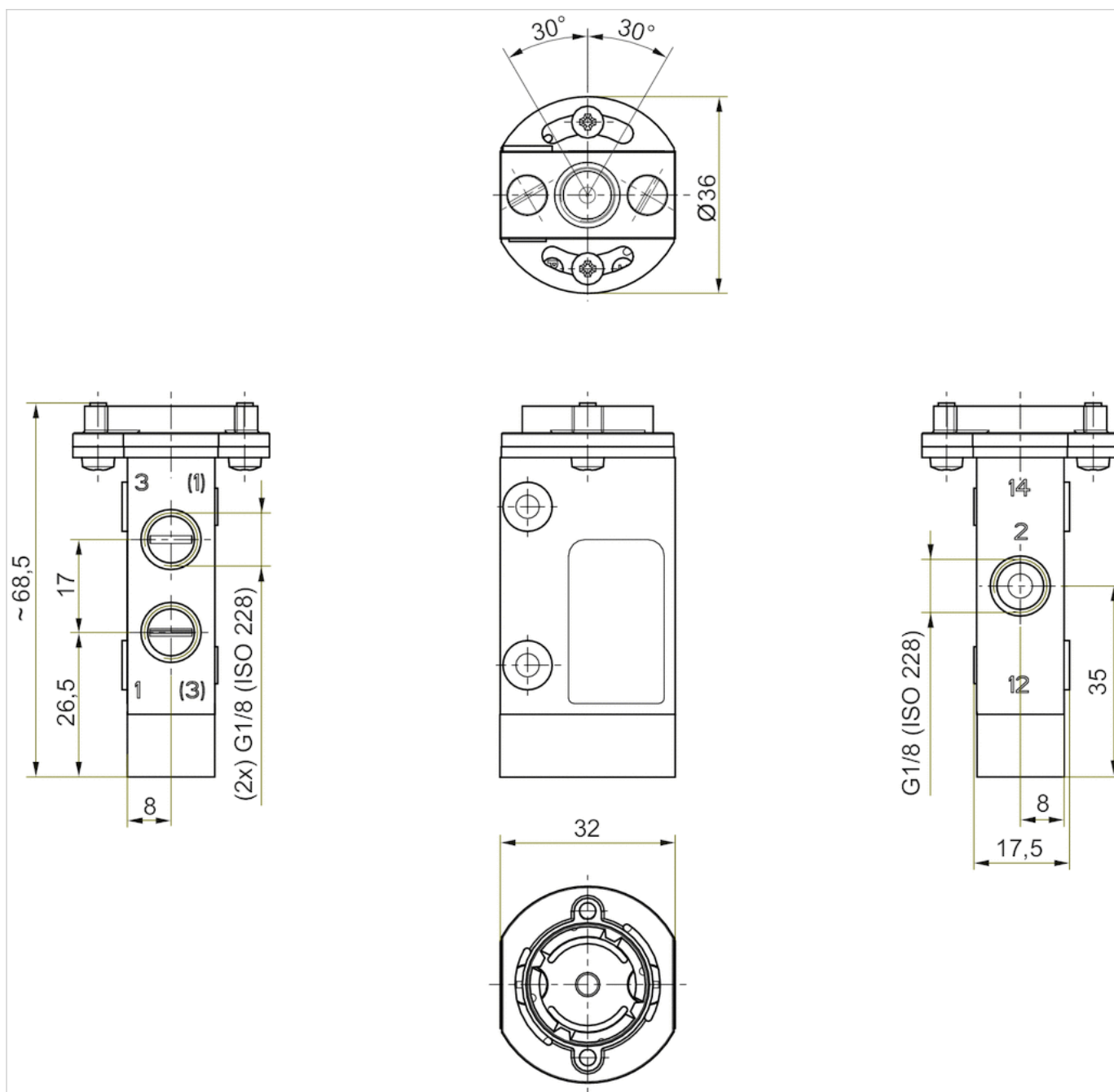
1) Actuating stroke 2) overstroke connection via 2 through-holes in housing

Dimensions Fig. 4



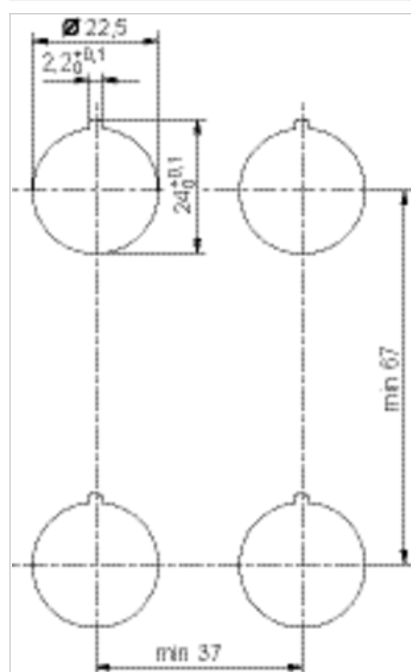
1) actuating stroke
Mounting via 2 through-holes in housing

Dimensions Fig. 5



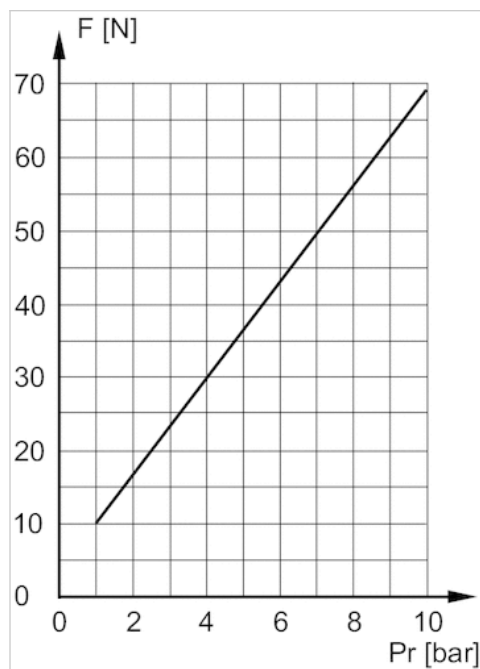
Cannot be combined with mushroom button with detent and rotary release R412012741

Dimensions cut-out in the front plate



Diagrams

Actuating force+



F = actuating force
Pr = return pressure

3/2-directional valve, Series ST

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



Version	Spool valve
Activation	Mechanical
Lock type	not lockable
Switching principle	3/2
Sealing principle	metal/metal sealing
Nominal flow Qn	280 l/min
Working pressure min./max.	2 ... 10 bar
Ambient temperature min./max.	-15 ... 80 °C
Medium temperature min./max.	-15 ... 80 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	5 ... 25 mg/m³
Mounting screw	M4 with hexagon socket
Mounting screw tightening torque	2,5 Nm
Weight	See table below

Technical data

Part No.		Actuating element	Compressed air connection
			Input
0820402014		Ball	G 1/8
0820402015		Nozzle	G 1/8
0820402018		Nozzle	G 1/8
0820402023		Spring-loaded rod	G 1/8

Part No.	Compressed air connection	Compressed air connection	Material actuating control
	Output	Exhaust	
0820402014	G 1/8	G 1/8	Stainless steel
0820402015	G 1/8	G 1/8	Brass
0820402018	G 1/8	G 1/8	Brass
0820402023	G 1/8	G 1/8	-

Part No.	Weight	Fig.	
0820402014	0,18 kg	Fig. 1	-
0820402015	0,17 kg	Fig. 2	-
0820402018	0,16 kg	Fig. 3	-
0820402023	0,18 kg	Fig. 4	1)

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

1) See diagram

Technical information

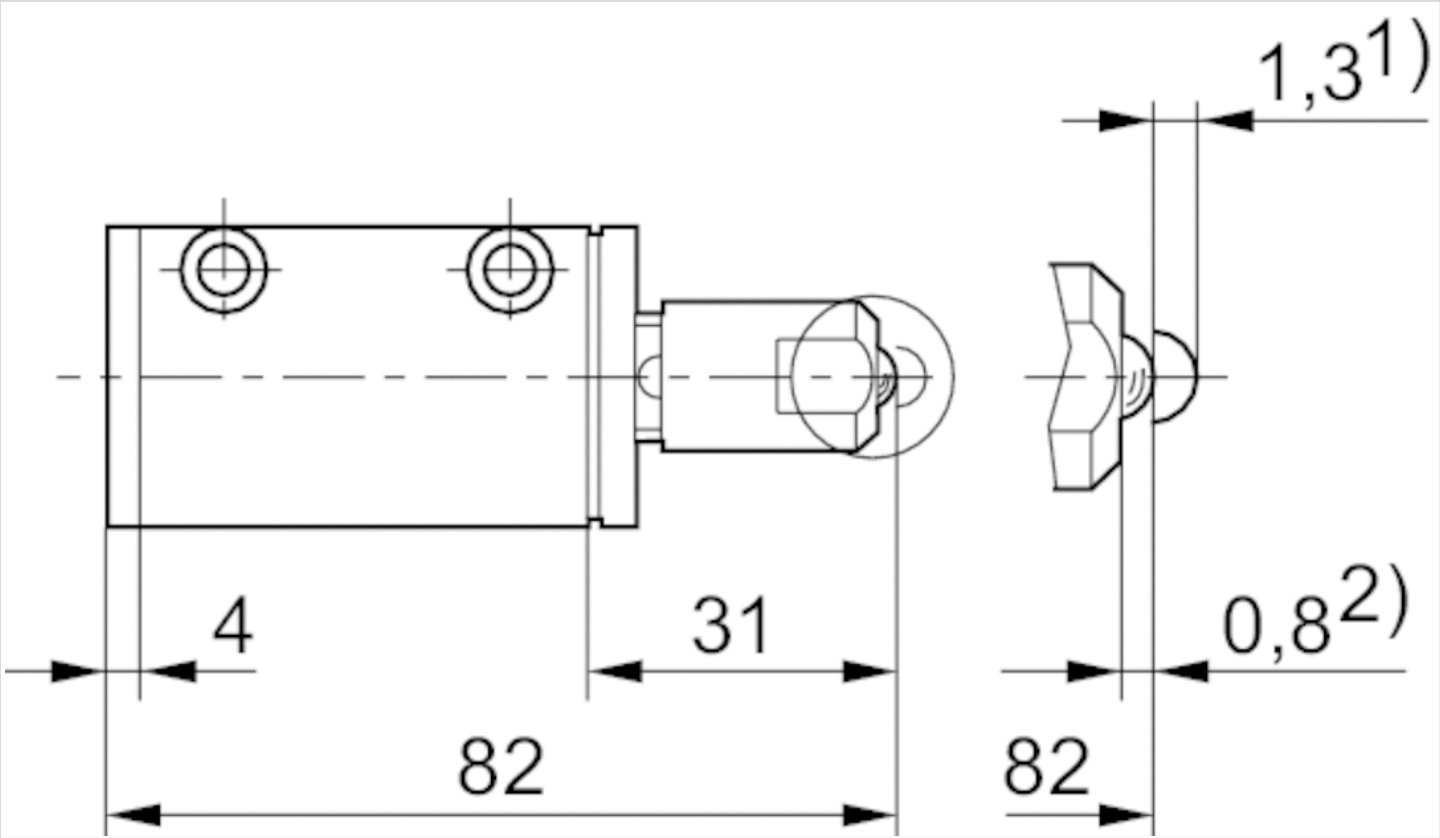
Notice: This product may only be operated with oiled compressed air.

Technical information

Material	
Housing	Stainless steel, hardened
Seals	Acrylonitrile butadiene rubber
Actuating element	Stainless steel, Brass
Front cover	Aluminum, Brass, Polyamide
Threaded bushing	Brass

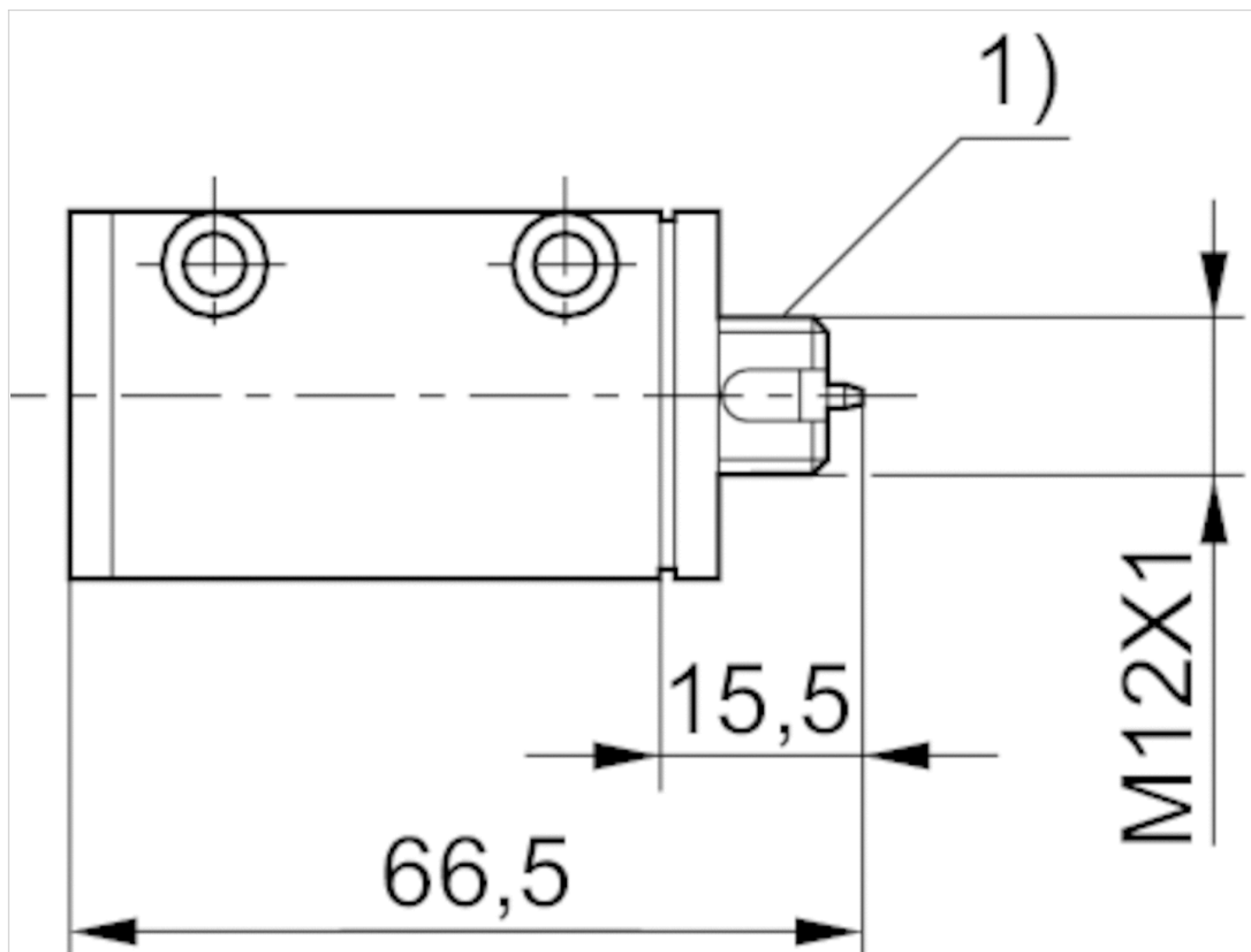
Dimensions

Dimensions Fig. 1



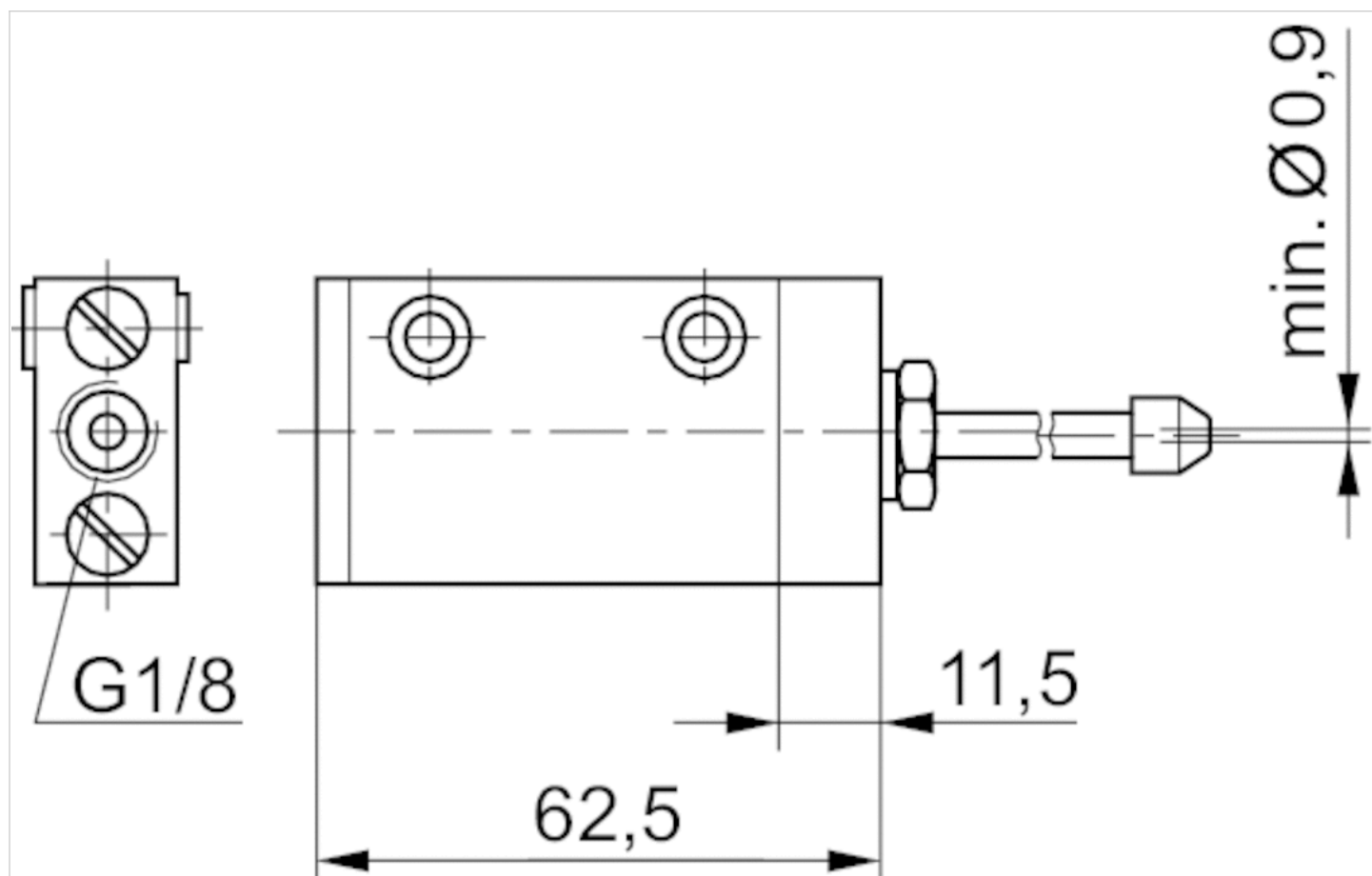
1) Actuating stroke 2) overstroke connection via 2 through-holes in housing

Dimensions Fig. 2



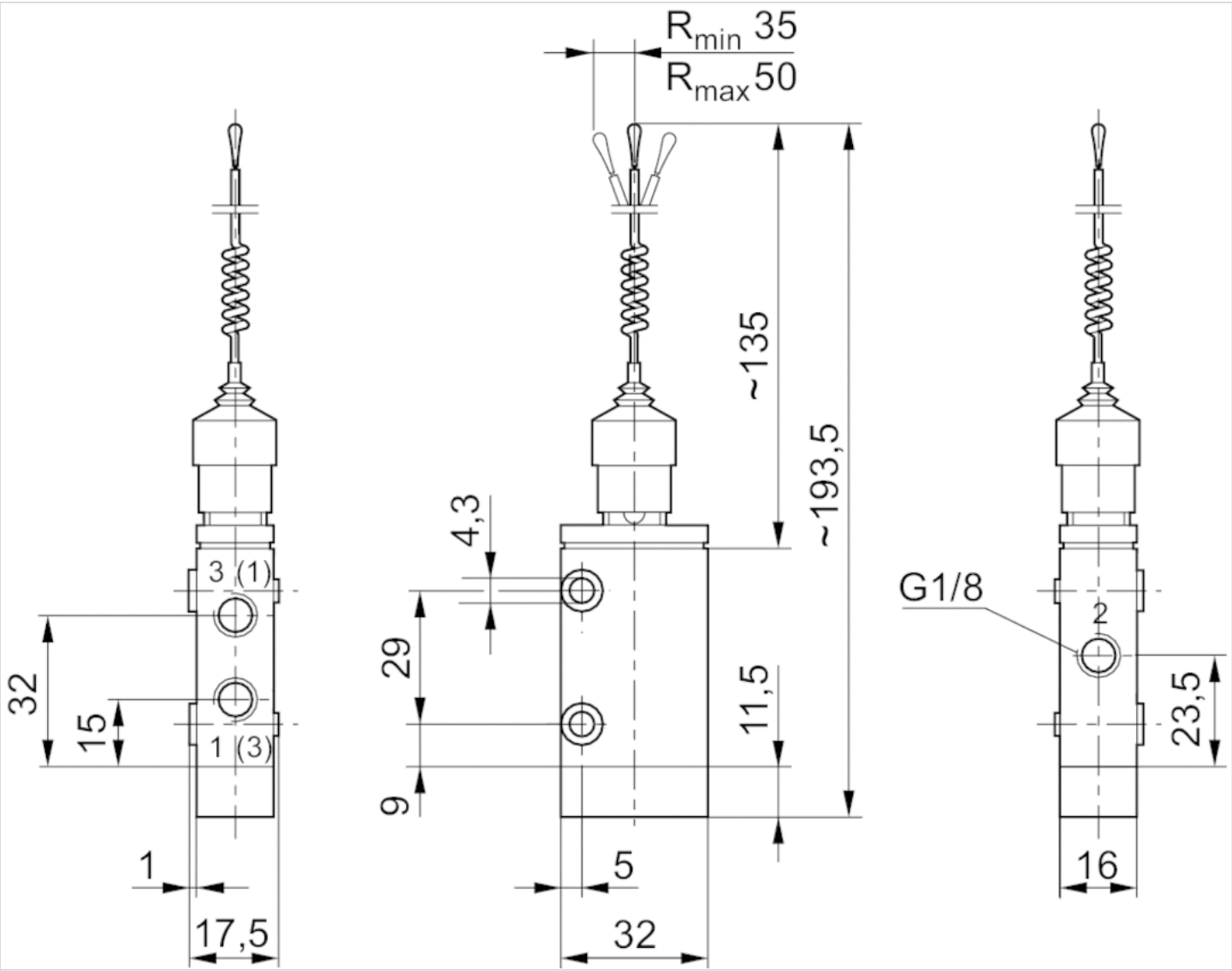
1) not intended as mounting thread
Mounting via 2 through-holes in housing

Dimensions Fig. 3



Mounting via 2 through-holes in housingnozzle and tubing, not included in scope of delivery

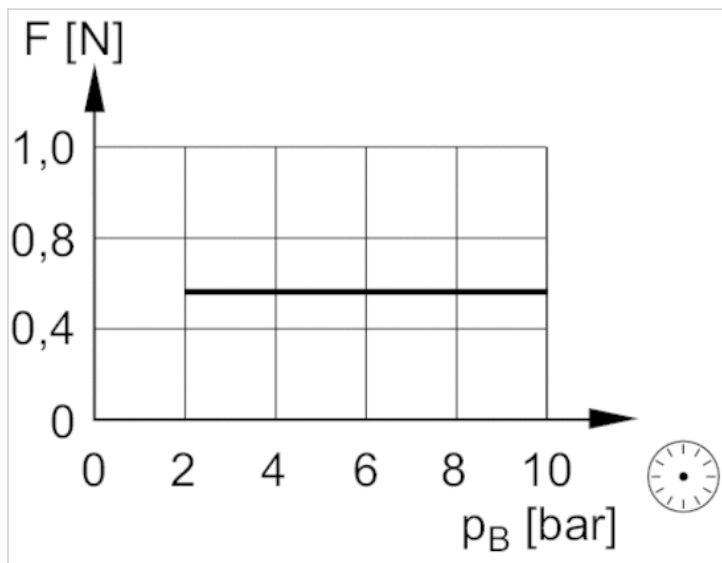
Dimensions Fig. 4



Mounting via 2 through-holes in housing

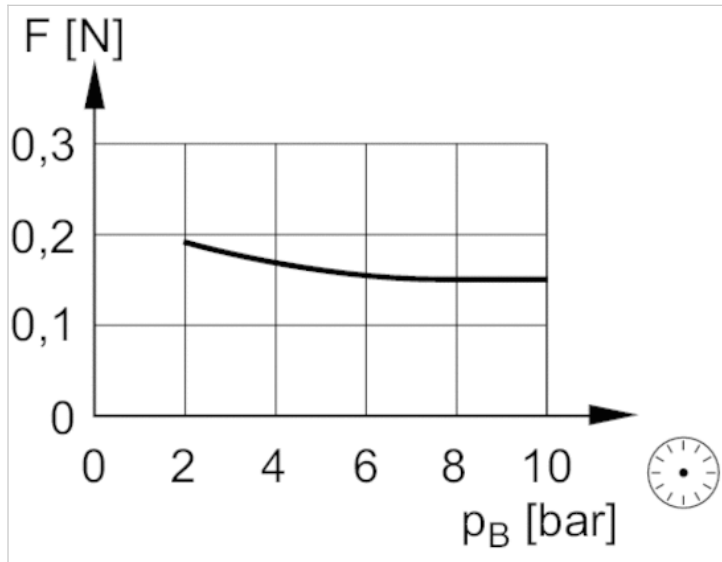
Diagrams

Diagram Fig. 1



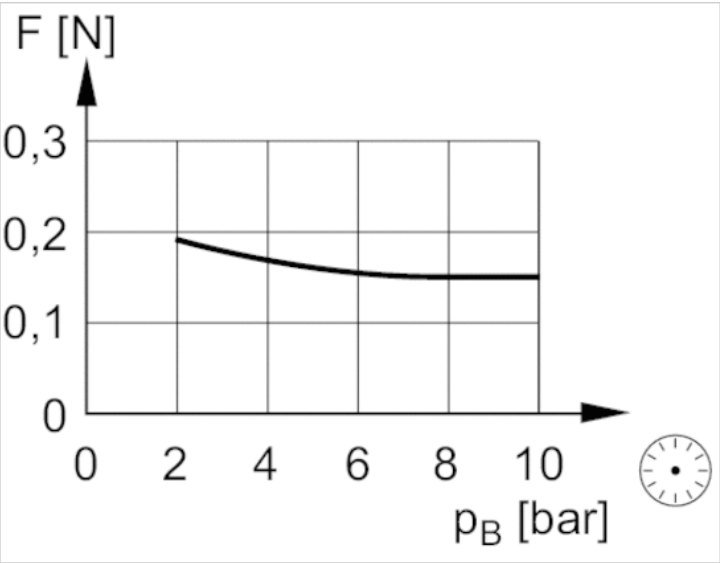
F = actuating force at the rear end of the spring-loaded rod
 P = Working pressure

Diagram Fig. 2



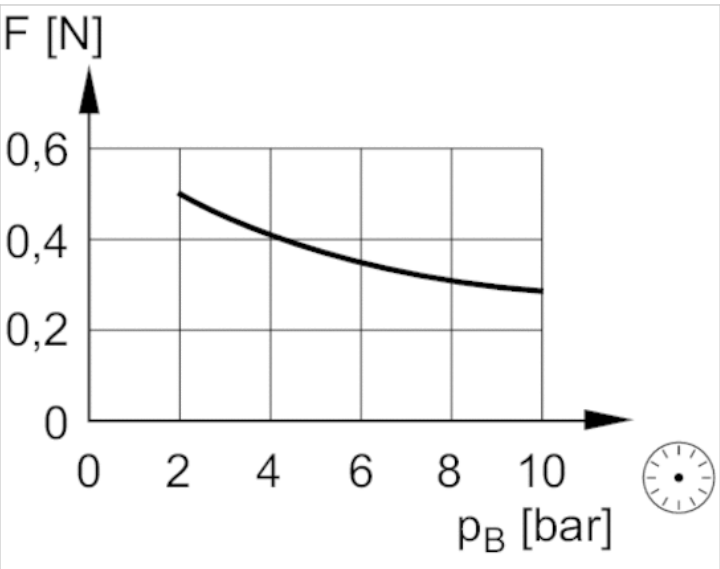
F = actuating force at the rear end of the spring-loaded rod
 P = Working pressure

Diagram Fig. 3



F = actuating force at the rear end of the spring-loaded rod
P= Working pressure

Diagram Fig. 4



F = actuating force at the rear end of the spring-loaded rod
P= Working pressure

5/2-directional valve, Series ST

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



Version	Spool valve
Activation	Mechanical
Lock type	not lockable
Switching principle	5/2
Sealing principle	metal/metal sealing
Nominal flow Q _n	280 l/min
Working pressure min./max.	-0,95 ... 10 bar
Ambient temperature min./max.	-15 ... 80 °C
Medium temperature min./max.	-15 ... 80 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	5 ... 25 mg/m ³
Mounting screw	M4 with hexagon socket
Mounting screw tightening torque	2,5 Nm
Weight	See table below

Technical data

Part No.		Actuating element	Compressed air connection
			Input
0820403001		Plunger	G 1/8
0820403002		Roller	G 1/8
0820403003		Roller lever, one-way trip	G 1/8
0820403004		Push button	G 1/8
0820403005		Lever	G 1/8
0820403016		Roller with single-action lever	G 1/8
0820403017		Roller with articulated lever	G 1/8
0820403019		Plunger	G 1/8
R422002213		panel installation	G 1/8

Part No.	Compressed air connection	Compressed air connection	Operating force
	Output	Exhaust	min.
0820403001	G 1/8	G 1/8	11 N
0820403002	G 1/8	G 1/8	6,5 N
0820403003	G 1/8	G 1/8	6,5 N
0820403004	G 1/8	G 1/8	6,5 N
0820403005	G 1/8	G 1/8	-
0820403016	G 1/8	G 1/8	10 N
0820403017	G 1/8	G 1/8	25 N
0820403019	G 1/8	G 1/8	5 N
R422002213	G 1/8	G 1/8	11 N

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

Nominal flow Q_n at 6 bar and Δp = 1 bar

1) Please order control button separately.

Technical information

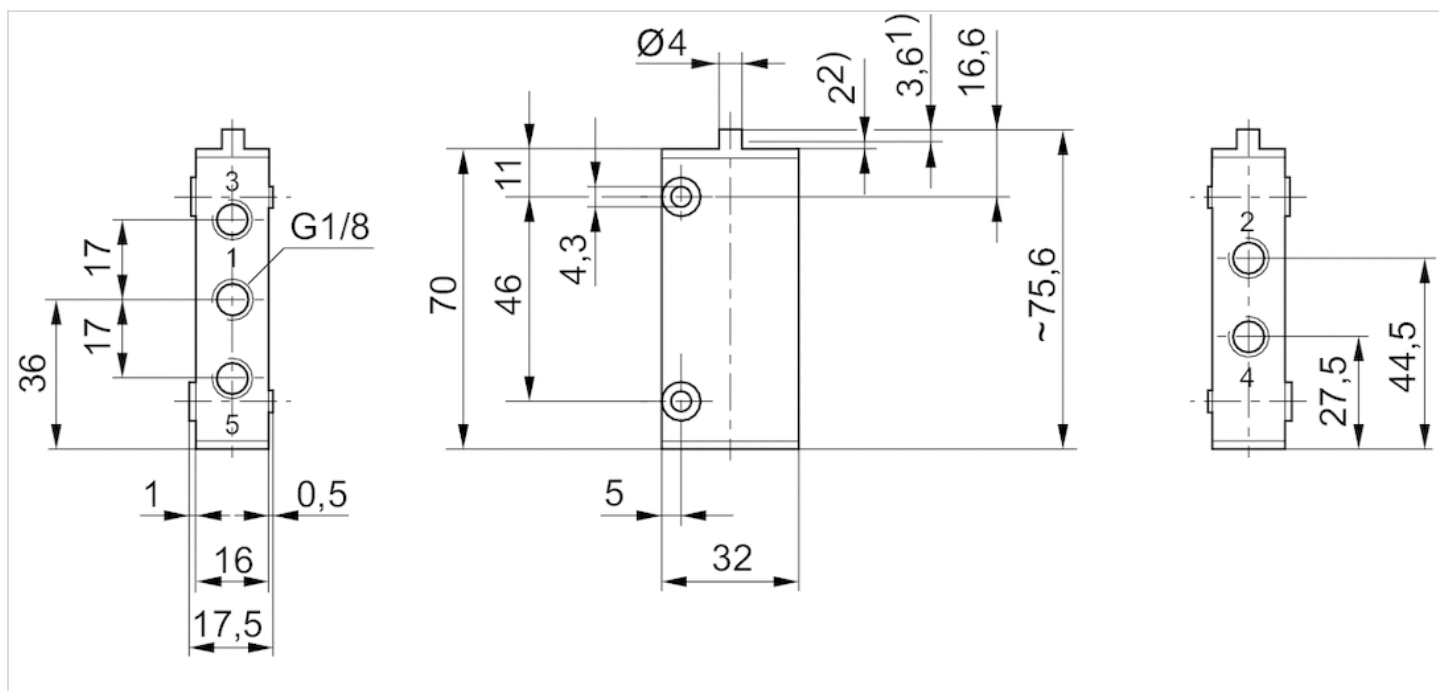
Notice: This product may only be operated with oiled compressed air.

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

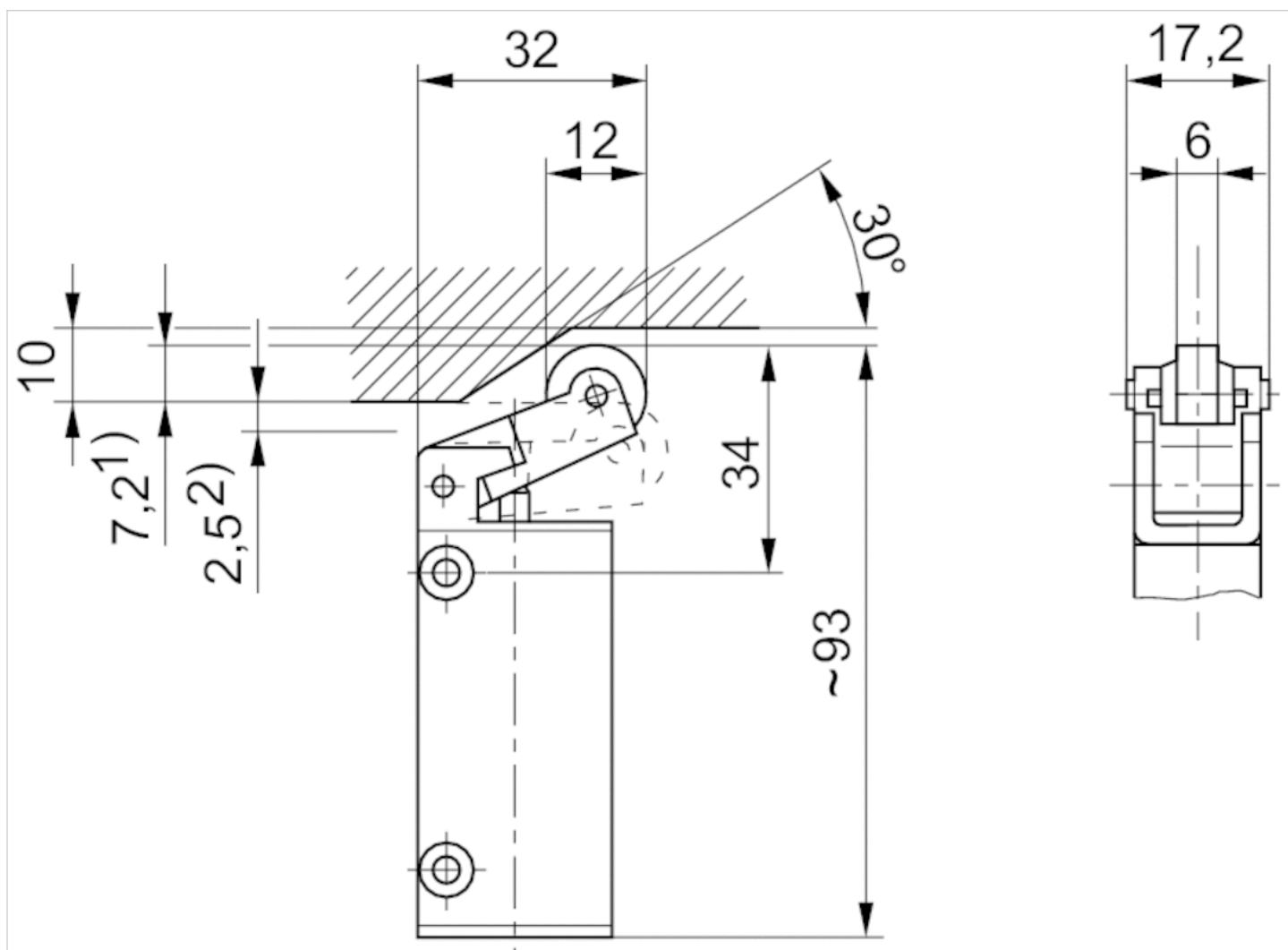
Dimensions

Dimensions Fig. 1 Basic valve



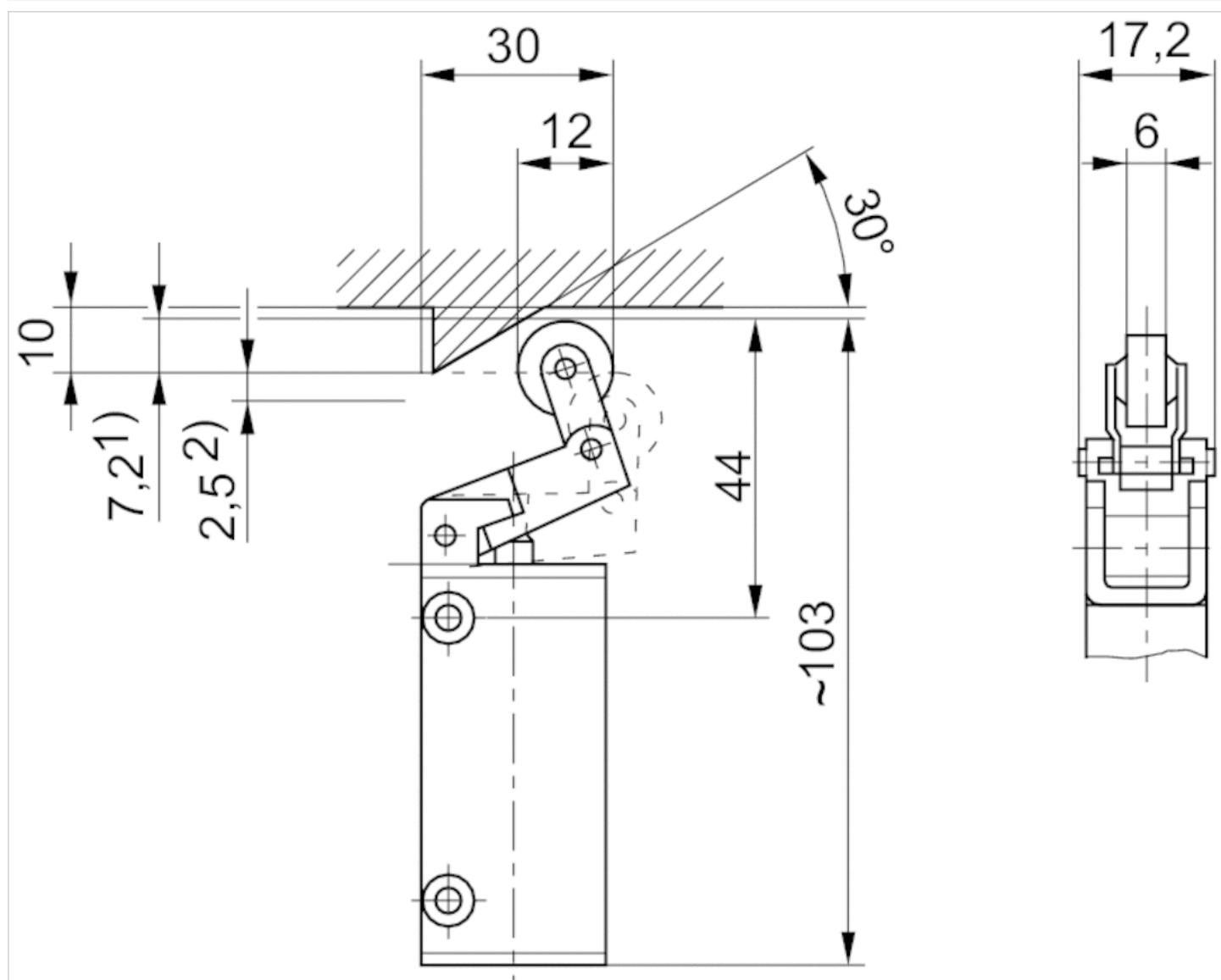
1) Actuating stroke 2) overstroke connection via 2 through-holes in housing
 Dimensions of basic valve apply to all types of actuation.

Dimensions Fig. 2



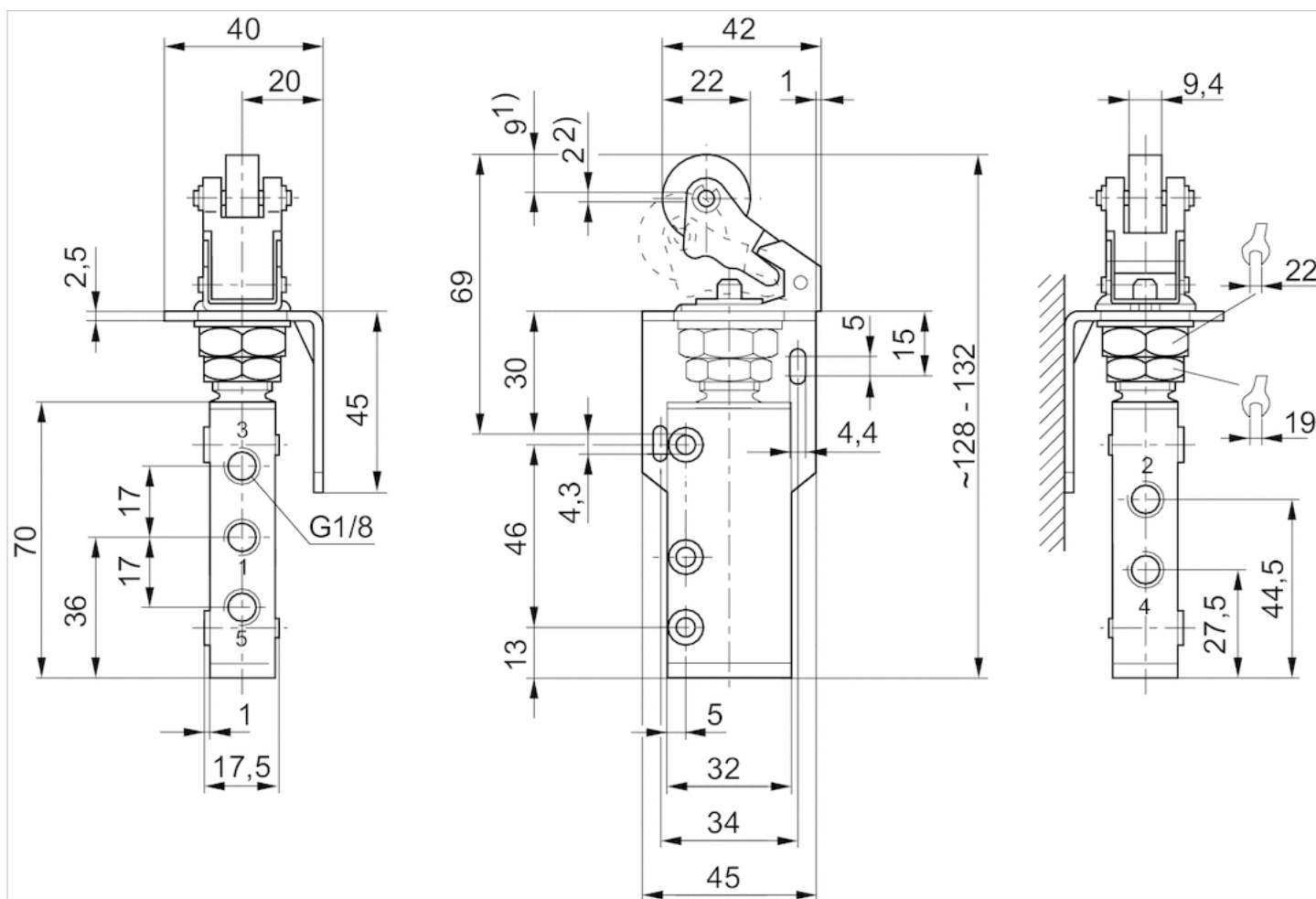
1) Actuating stroke 2) overstroke connection via 2 through-holes in housing

Dimensions Fig. 3



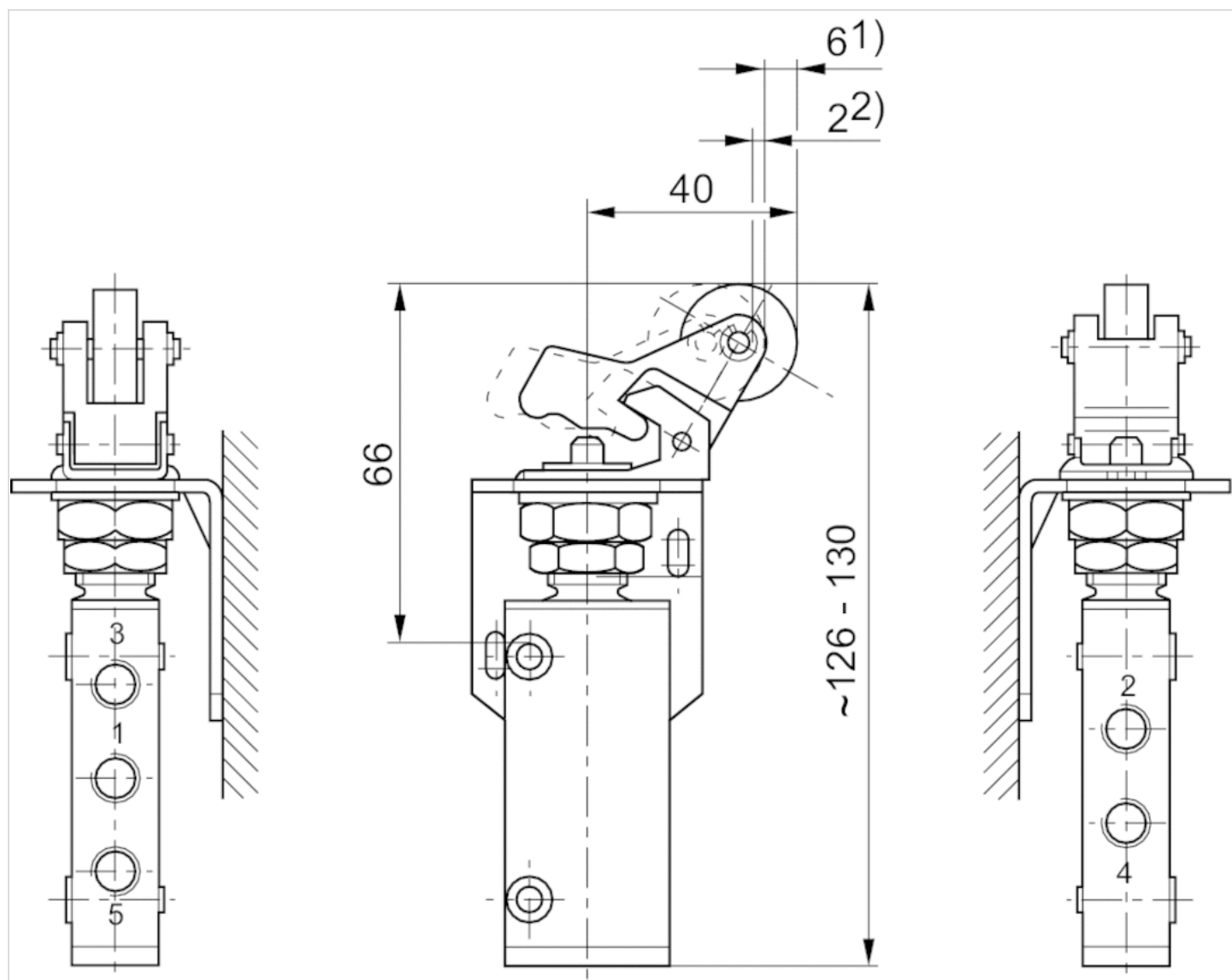
1) Actuating stroke 2) overstroke connection via 2 through-holes in housing

Dimensions Fig. 6



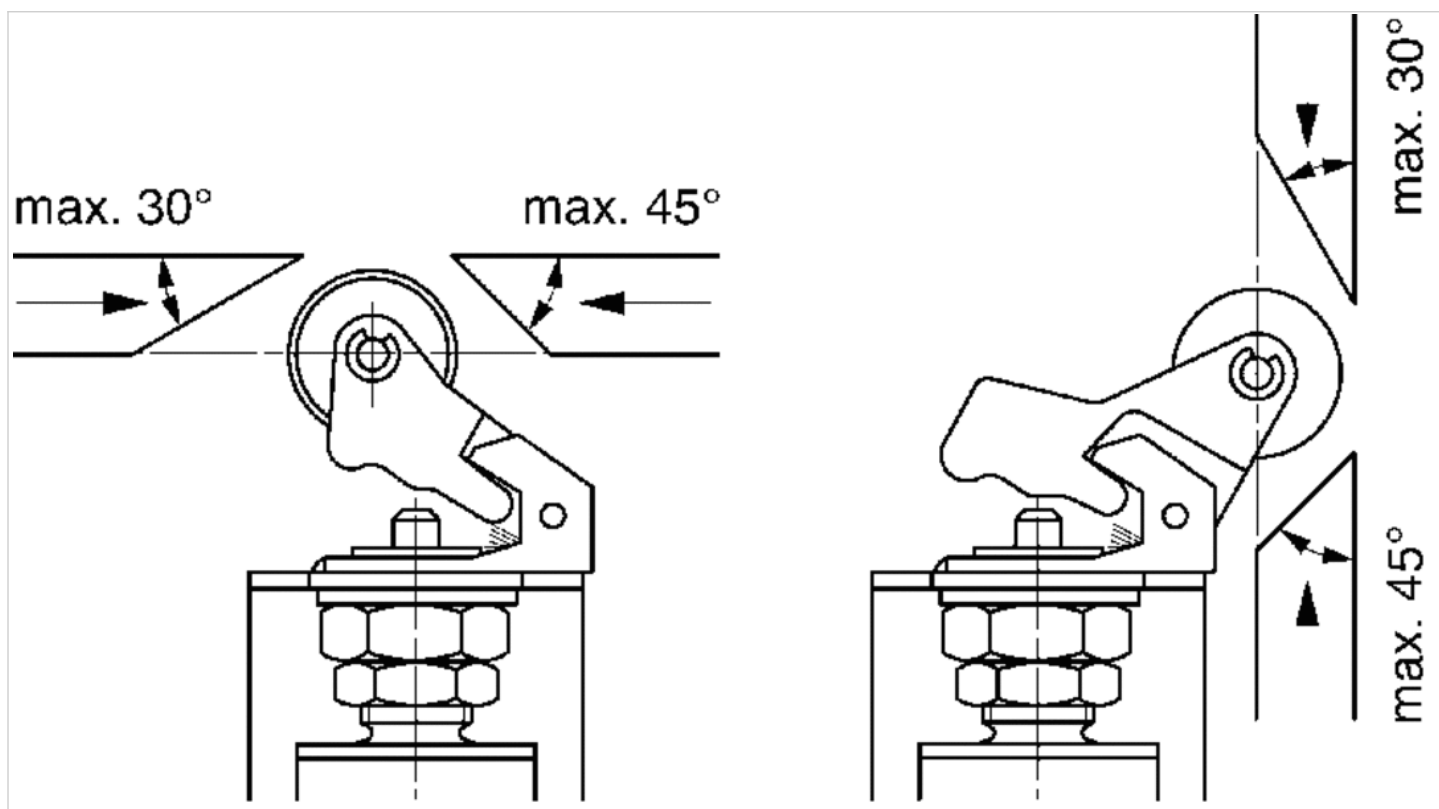
1) actuating stroke 2) overstroke Can be adjusted by 90°, thereby providing 4 different angles of approach.

Dimensions Fig. 7

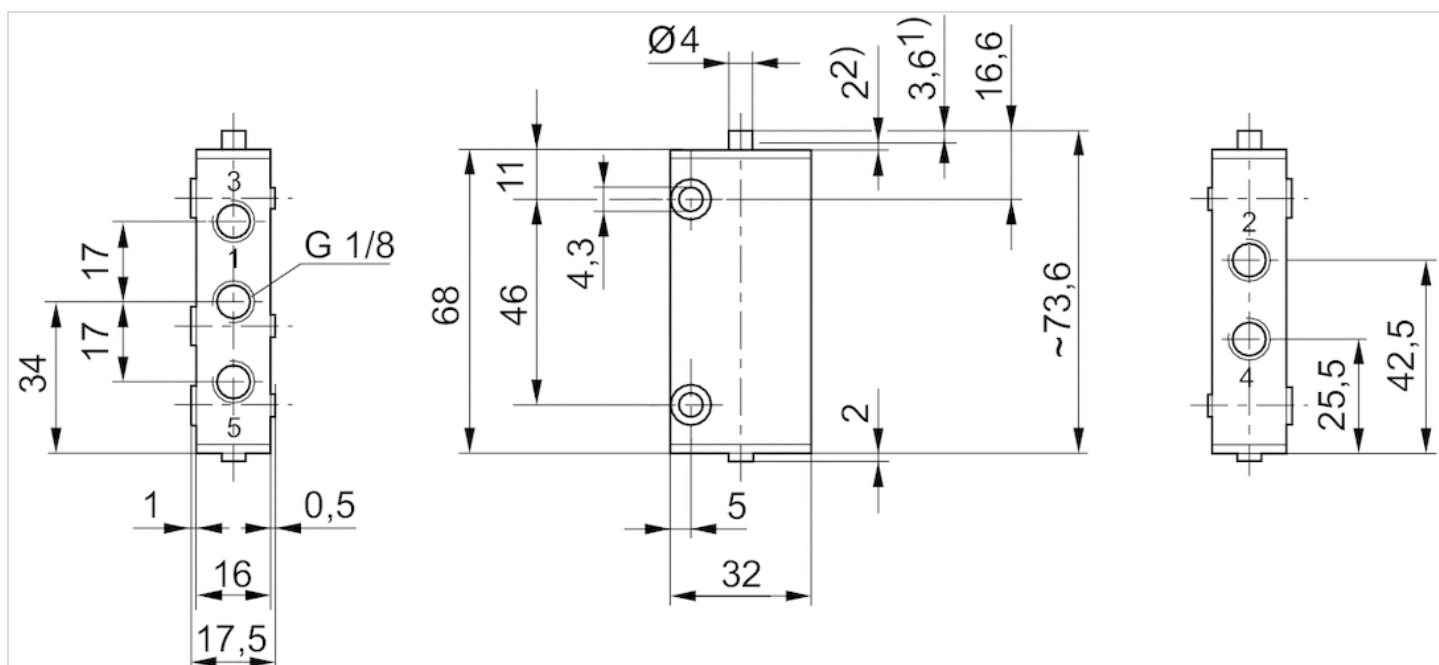


1) actuating stroke 2) overstroke Can be adjusted by 90°, thereby providing 4 different angles of approach.

angle of approach for 0820402016 and 0820402017

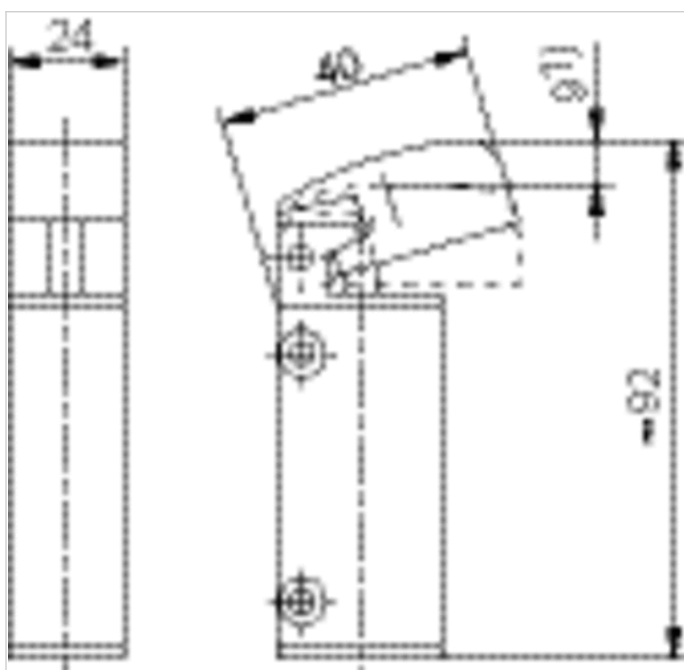


Dimensions Fig. 8



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.

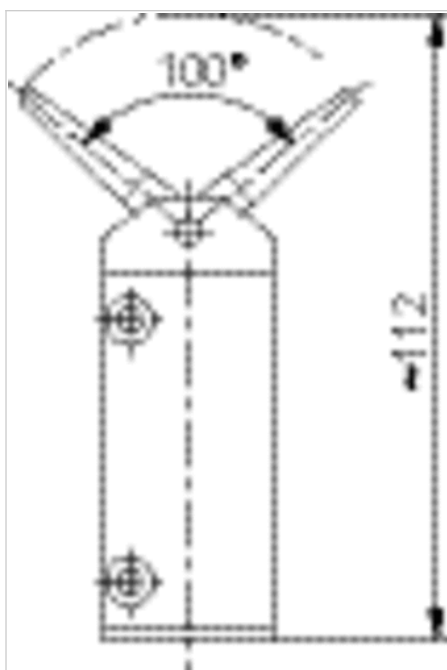
Dimensions Fig. 4



1) actuating stroke

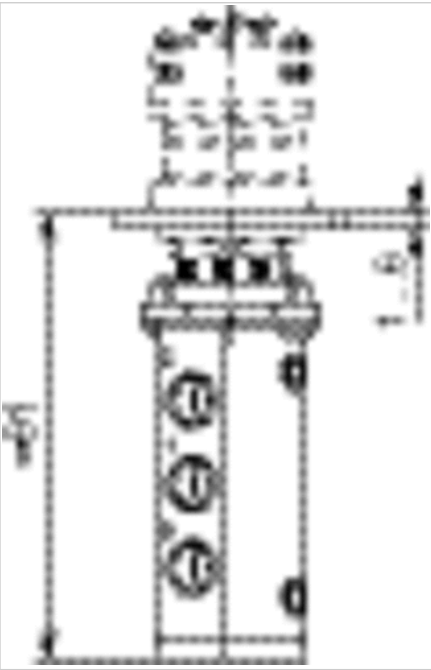
Mounting via 2 through-holes in housing

Dimensions Fig. 5

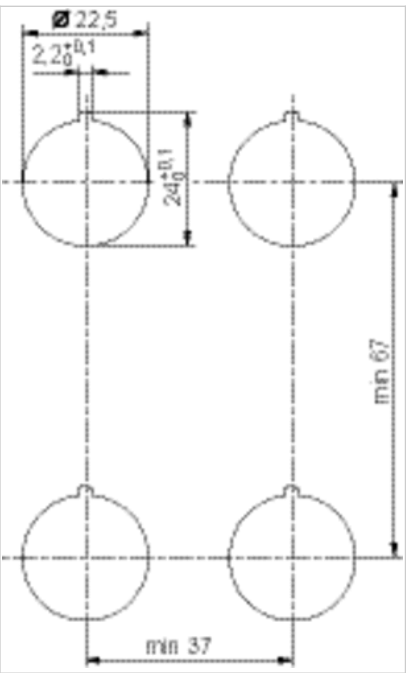


Mounting via 2 through-holes in housing

Overview drawing Fig. 9



Dimensions cut-out in the front plate



5/2-directional valve, Series ST

- Qn = 280 l/min
- Compressed air connection output G 1/8
- with air return
- Double solenoid
- Pipe connection



Version	Spool valve
Activation	Mechanical
Lock type	not lockable
Switching principle	5/2
Sealing principle	metal/metal sealing
Nominal flow Qn	280 l/min
Working pressure min./max.	-0,95 ... 10 bar
Control pressure min./max.	2 ... 10 bar
Ambient temperature min./max.	-15 ... 80 °C
Medium temperature min./max.	-15 ... 80 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	5 ... 25 mg/m³
Mounting screw	M4 with hexagon socket
Mounting screw tightening torque	2,5 Nm
Weight	See table below

Technical data

Part No.		Actuating element	Compressed air connection
			Input
0820403008		Plunger	G 1/8
0820403009		Roller	G 1/8
0820403010		Roller lever, one-way trip	G 1/8
0820403011		Push button	G 1/8
R422002214		panel installation	G 1/8

Part No.	Compressed air connection	Compressed air connection	Operating force
	Output	Exhaust	min.
0820403008	G 1/8	G 1/8	5 N
0820403009	G 1/8	G 1/8	3 N
0820403010	G 1/8	G 1/8	3 N
0820403011	G 1/8	G 1/8	3 N
R422002214	G 1/8	G 1/8	-

Part No.	Material actuating control	Weight	Fig.	
0820403008	Stainless steel	0,22 kg	Fig. 1	-
0820403009	Polyoxymethylene	0,23 kg	Fig. 2	-
0820403010	Polyoxymethylene	0,23 kg	Fig. 3	-
0820403011	Polyamide	0,23 kg	Fig. 4	-
R422002214	Polyoxymethylene	0,23 kg	Fig. 5	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

Technical information

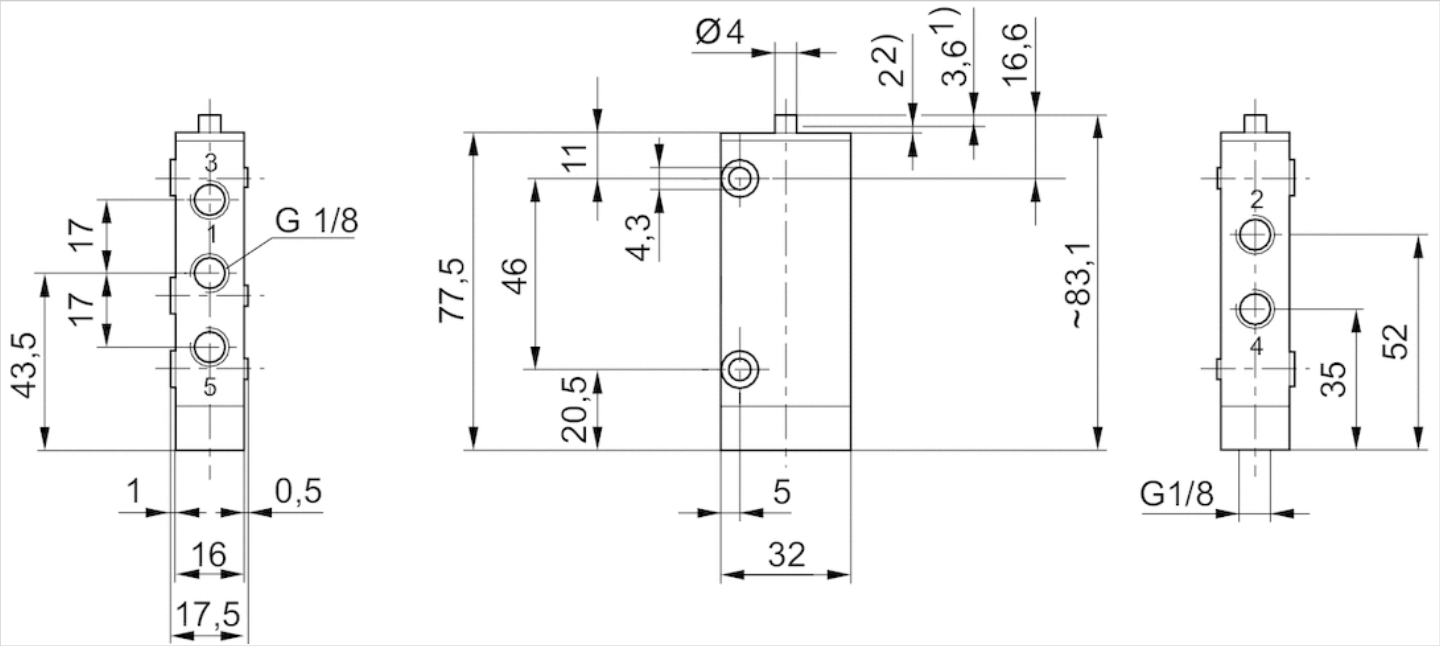
Notice: This product may only be operated with oiled compressed air.

Technical information

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

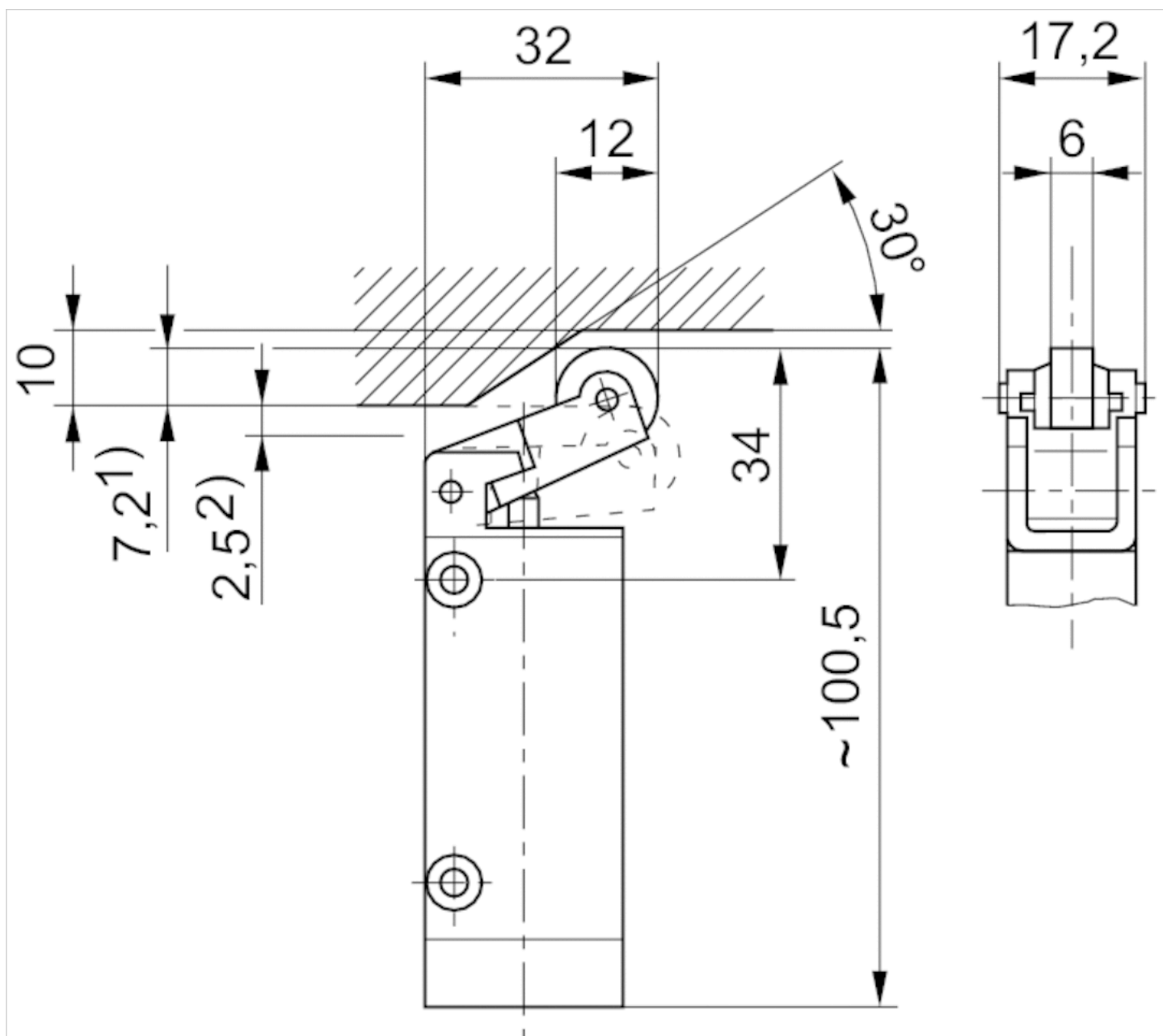
Dimensions

Dimensions Fig. 1 Basic valve



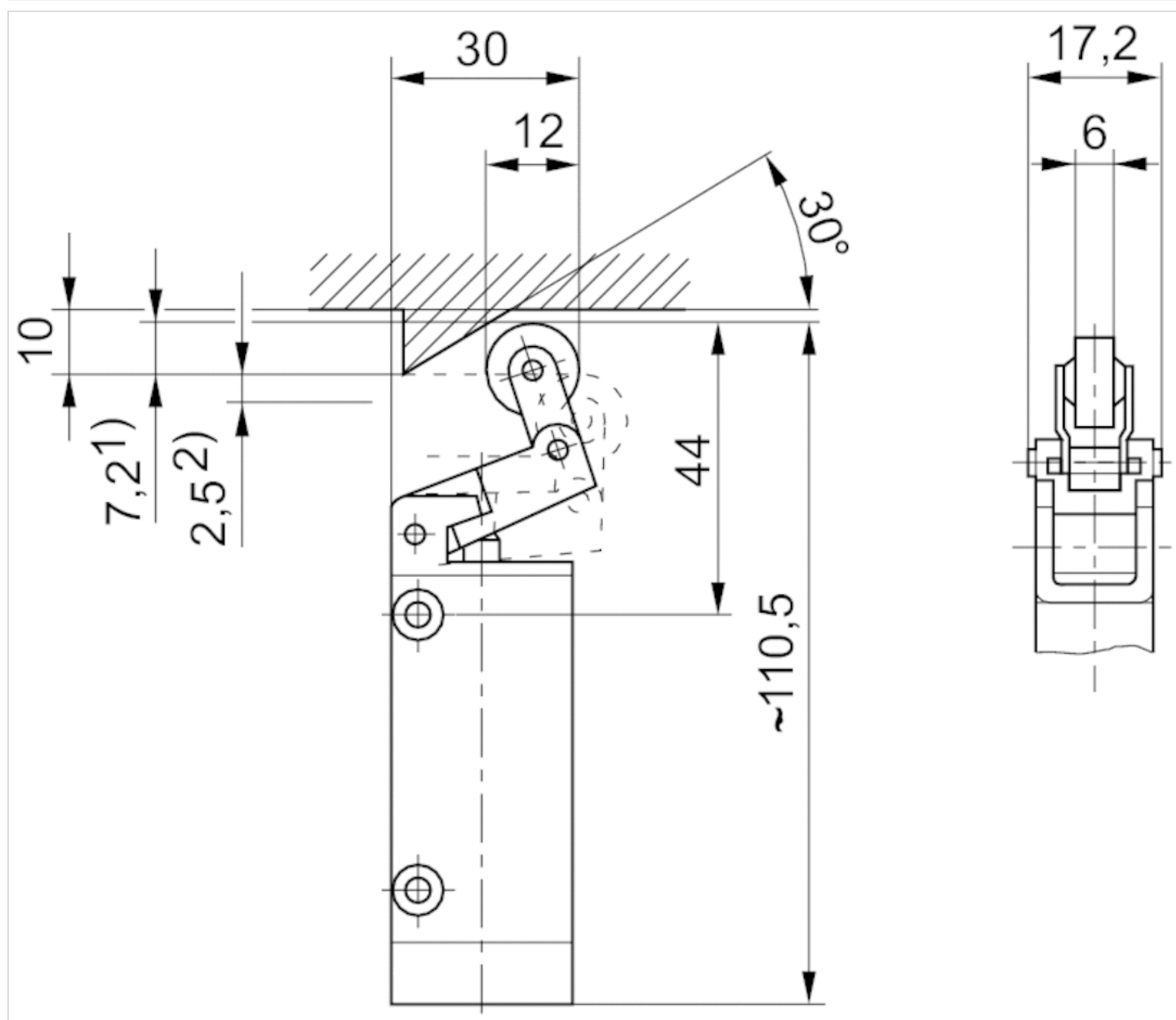
1) Actuating stroke 2) overstroke connection via 2 through-holes in housing
 Dimensions of basic valve apply to all types of actuation.

Dimensions Fig. 2



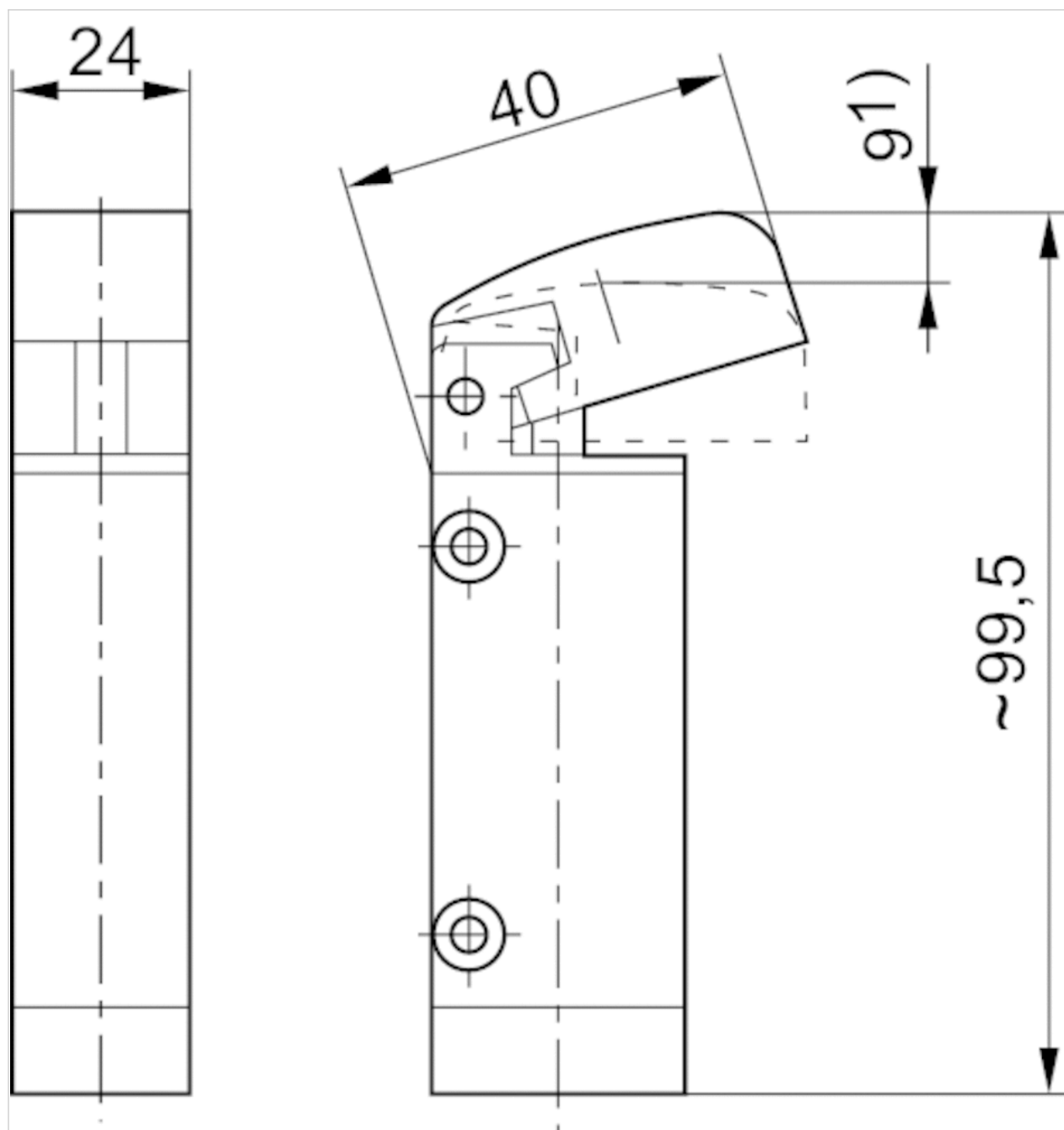
1) Actuating stroke 2) overstroke connection via 2 through-holes in housing

Dimensions Fig. 3



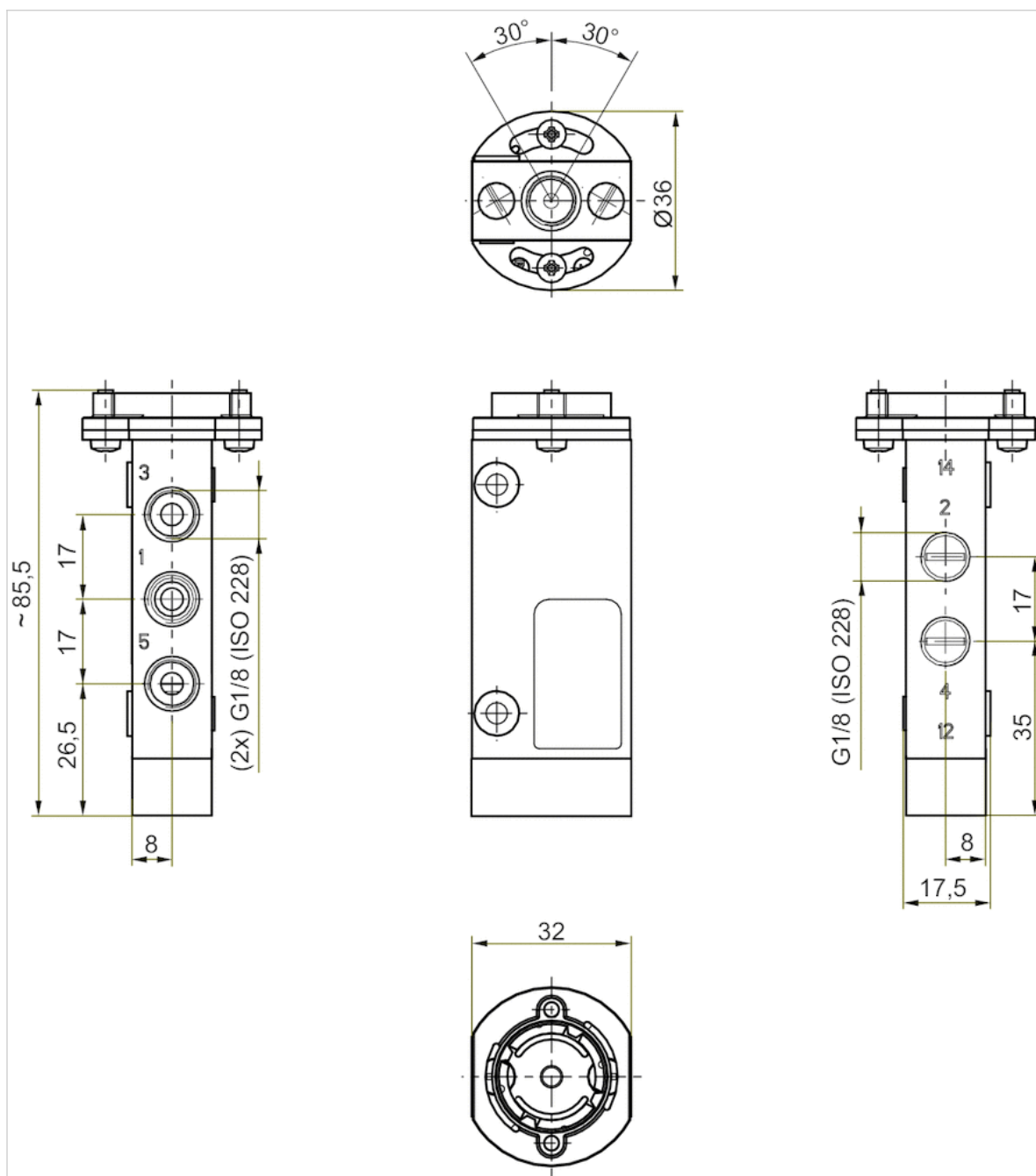
1) Actuating stroke 2) overstroke connection via 2 through-holes in housing

Dimensions Fig. 4



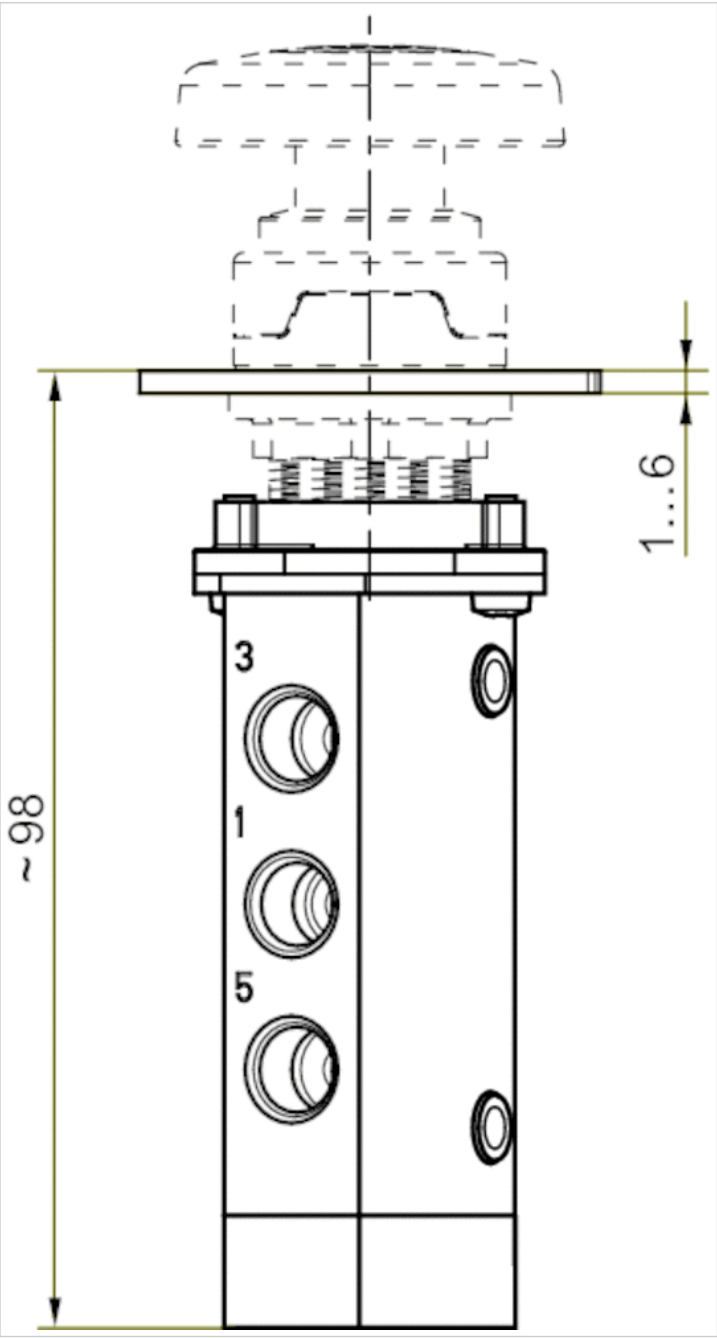
1) actuating stroke
Mounting via 2 through-holes in housing

Dimensions Fig. 5



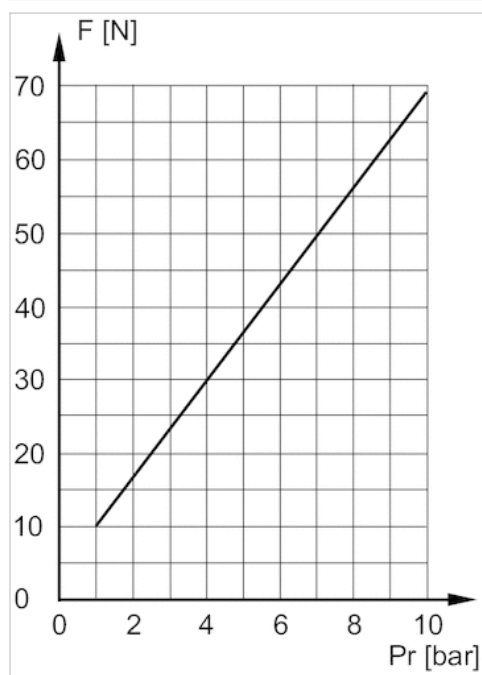
Cannot be combined with mushroom button with detent and rotary release R412012741

Overview drawing



Diagrams

Actuating force+



F = actuating force

Pr = return pressure

5/2-directional valve, Series ST

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



Version	Spool valve
Activation	Mechanical
Lock type	not lockable
Switching principle	5/2
Sealing principle	metal/metal sealing
Nominal flow Qn	280 l/min
Working pressure min./max.	2 ... 10 bar
Ambient temperature min./max.	-15 ... 80 °C
Medium temperature min./max.	-15 ... 80 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	5 ... 25 mg/m³
Mounting screw	M4 with hexagon socket
Mounting screw tightening torque	2,5 Nm
Weight	See table below

Technical data

Part No.		Actuating element	Compressed air connection
			Input
0820403014		Ball	G 1/8
0820403015		Nozzle	G 1/8
0820403018		Nozzle	G 1/8
0820403023		Spring-loaded rod	G 1/8

Part No.	Compressed air connection	Compressed air connection	Material actuating control
	Output	Exhaust	
0820403014	G 1/8	G 1/8	Stainless steel
0820403015	G 1/8	G 1/8	Brass
0820403018	G 1/8	G 1/8	Brass
0820403023	G 1/8	G 1/8	-

Part No.	Weight	Fig.
0820403014	0,23 kg	Fig. 1
0820403015	0,21 kg	Fig. 2
0820403018	0,21 kg	Fig. 3
0820403023	0,23 kg	Fig. 5

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

Technical information

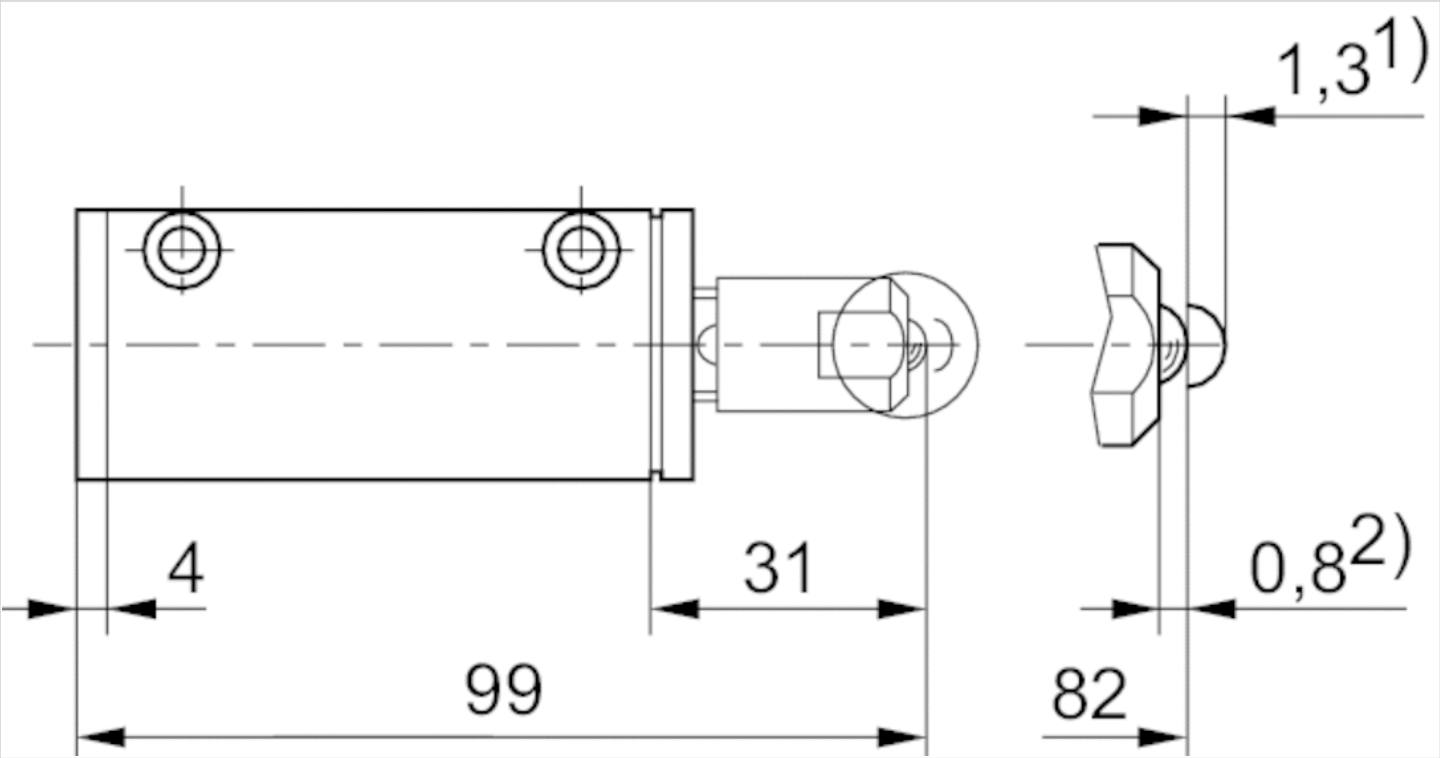
Notice: This product may only be operated with oiled compressed air.

Technical information

Material	
Housing	Stainless steel, hardened
Seals	Acrylonitrile butadiene rubber
Actuating element	Stainless steel, Brass
Front cover	Aluminum, Brass, Polyamide
Threaded bushing	Brass

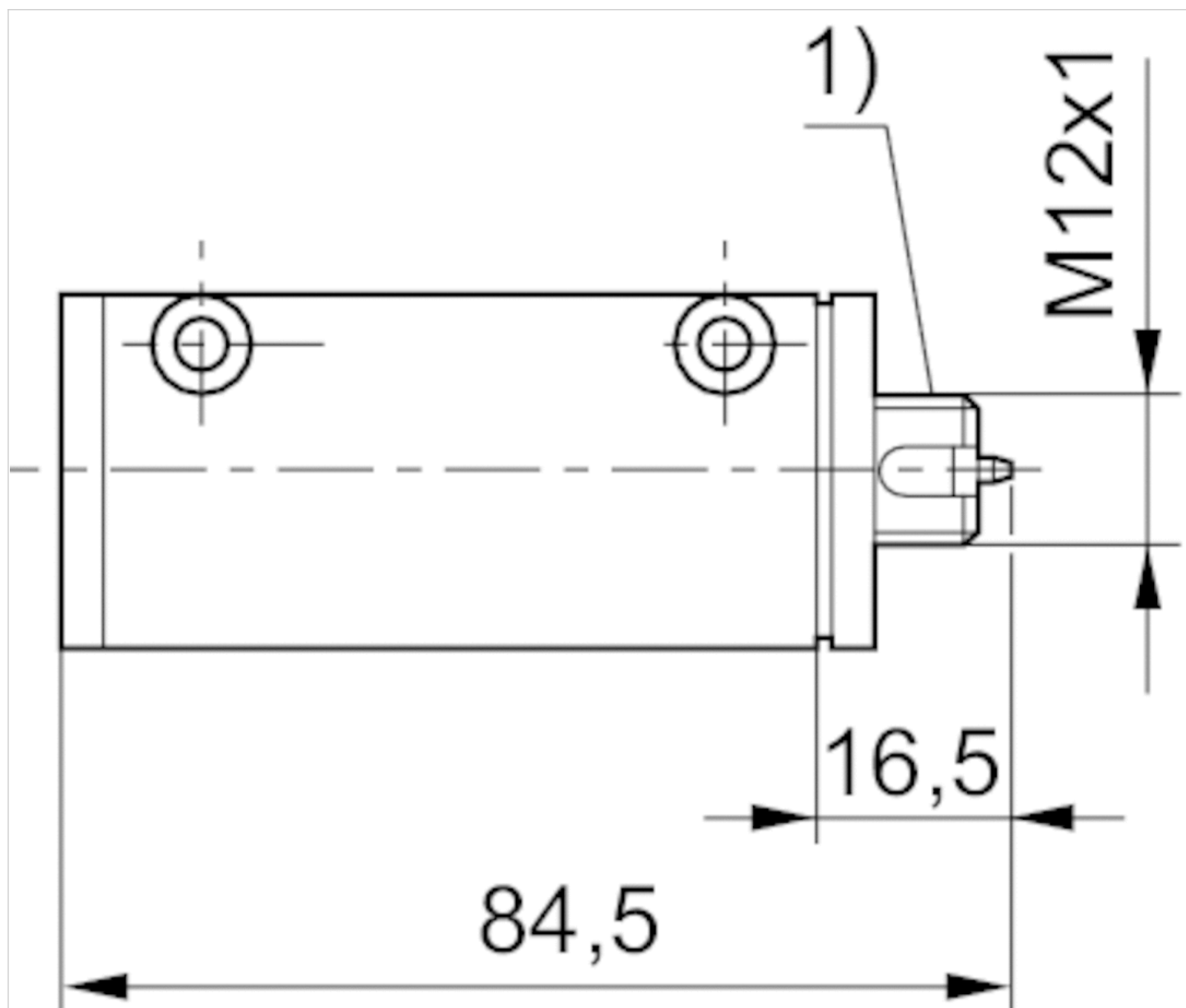
Dimensions

Dimensions Fig. 1



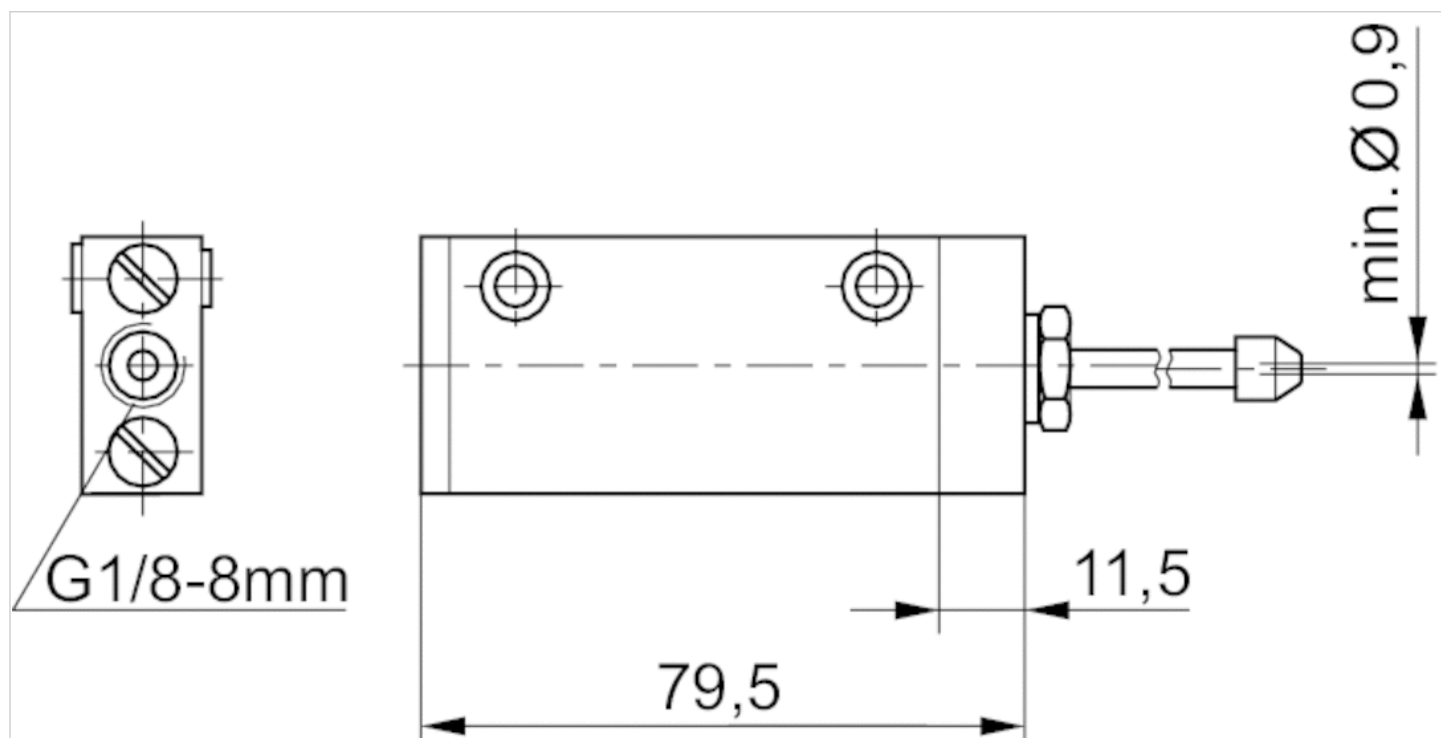
1) Actuating stroke 2) overstroke connection via 2 through-holes in housing

Dimensions Fig. 2



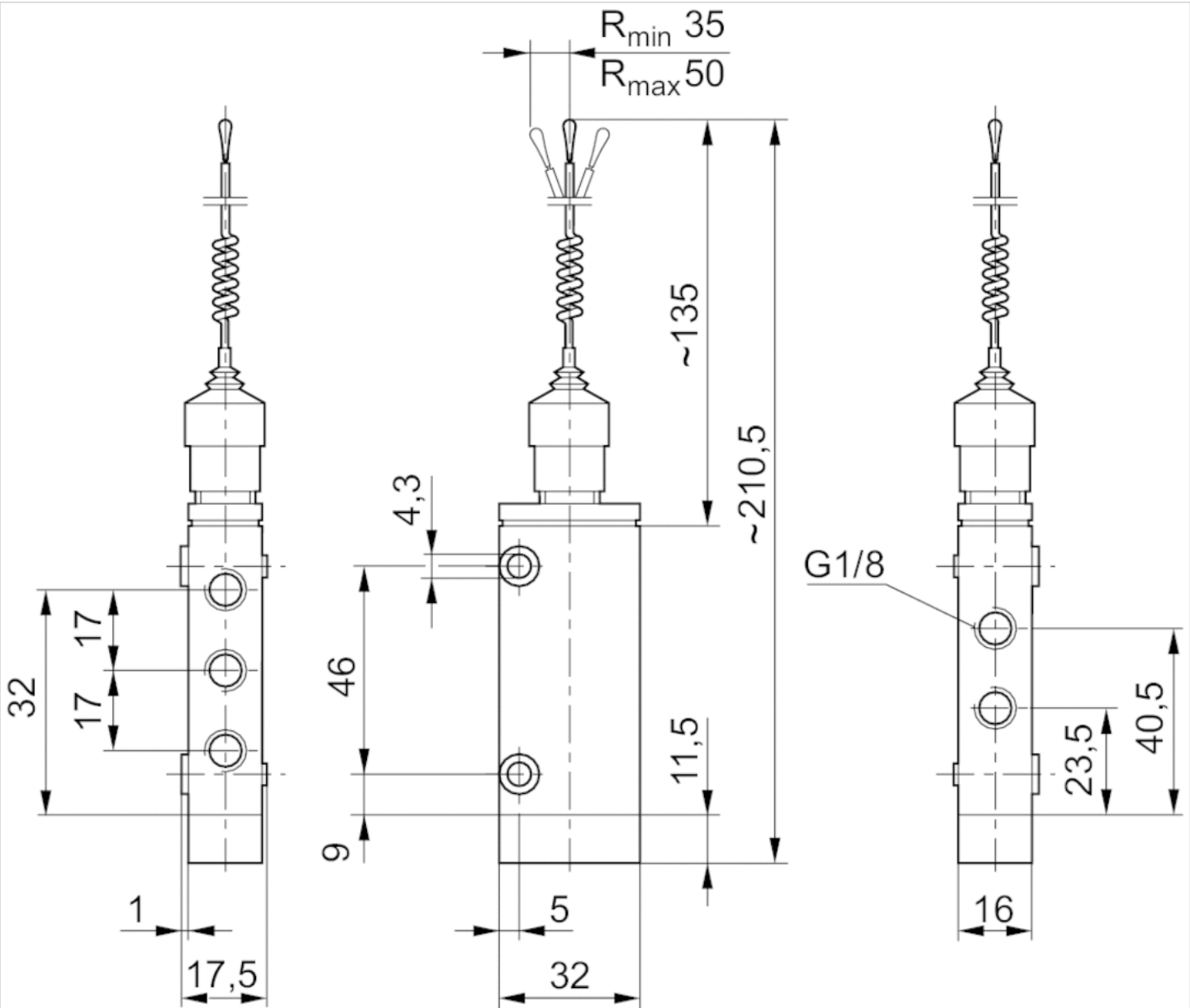
1) not intended as mounting thread
Mounting via 2 through-holes in housing

Dimensions Fig. 3



Mounting via 2 through-holes in housing

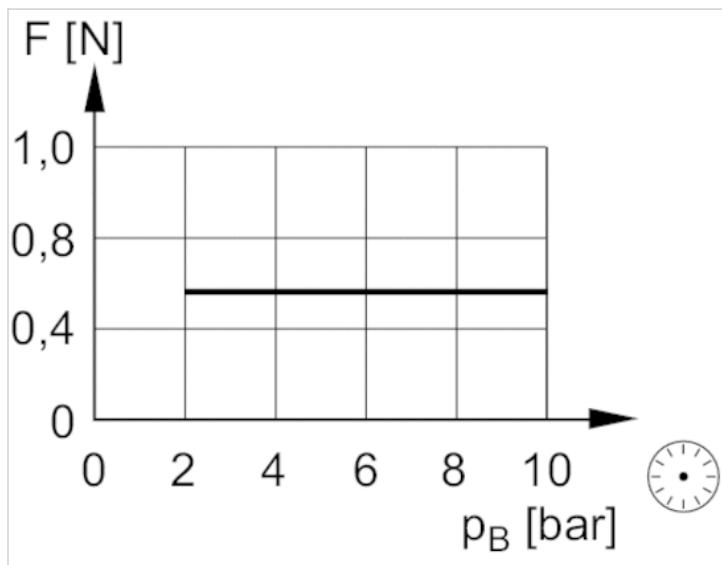
Dimensions Fig. 4



Mounting via 2 through-holes in housing

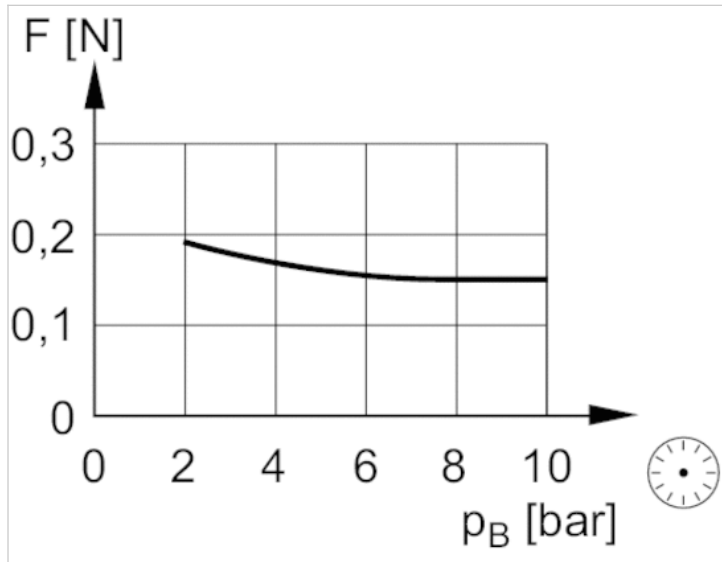
Diagrams

Diagram Fig. 1



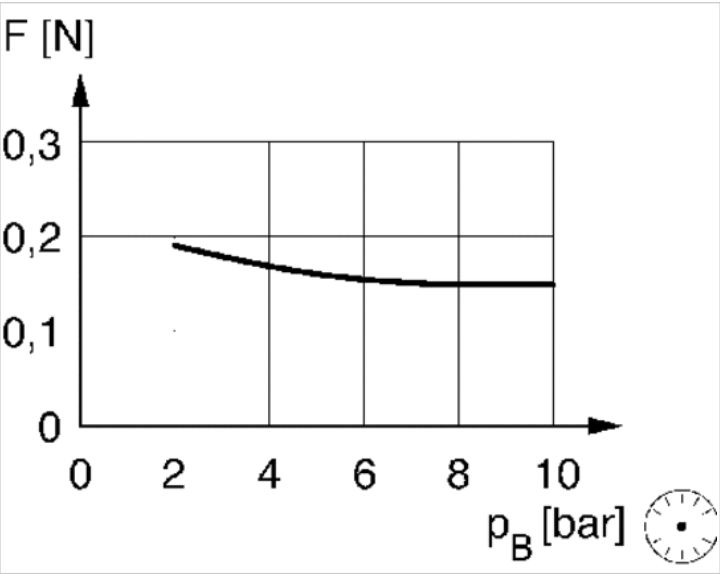
F = actuating force at the rear end of the spring-loaded rod
 P = Working pressure

Diagram Fig. 2



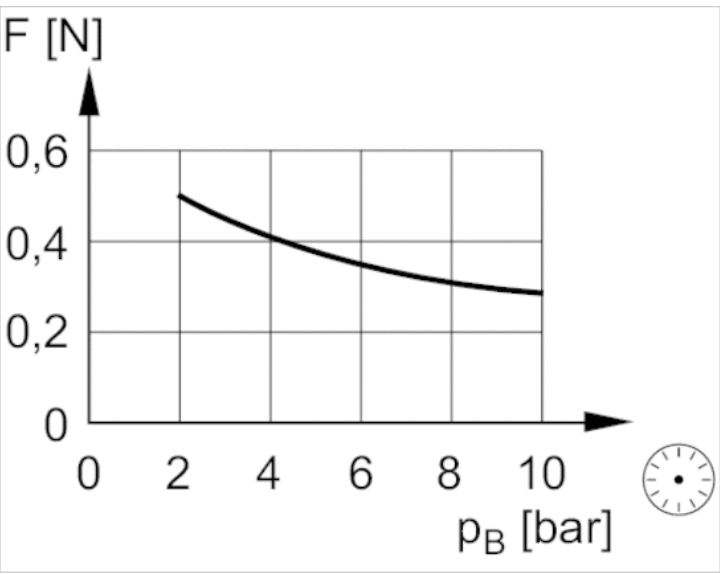
F = actuating force at the rear end of the spring-loaded rod
 P = Working pressure

Diagram Fig. 3



F = actuating force at the rear end of the spring-loaded rod
P= Working pressure

Diagram Fig. 4



F = actuating force at the rear end of the spring-loaded rod
P= Working pressure

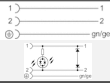
Valve plug connector, series CON-VP

- Socket, form C, 2+E, angled, 90°
- ISO 15217
- unshielded
- with LED Green



Connection type	Screws
Ambient temperature min./max.	-40 ... 90 °C
Operationalvoltage	See table below
Protection class	IP65
Mounting screw tightening torque	0,4 Nm
Weight	See table below

Technical data

Part No.		Operationalvoltage	Max. current	Protective circuit	Contact assignment
1834484187		250 / 300 V, AC/DC	6 A	-	2+E
4402050330		24 V, AC/DC	-	Z-diode	2+E

Part No.	LED status display	suitable cable-Ø min./max	Seal	Weight
1834484187	-	4 / 8 mm	caoutchouc/butadiene caoutchouc	0,012 kg
4402050330	Green	-	-	0,014 kg

Part No.	Fig.	
1834484187	Fig. 1	-
4402050330	Fig. 3	1)

1)

Technical information

The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Seals	caoutchouc/butadiene caoutchouc

Dimensions

Fig. 1

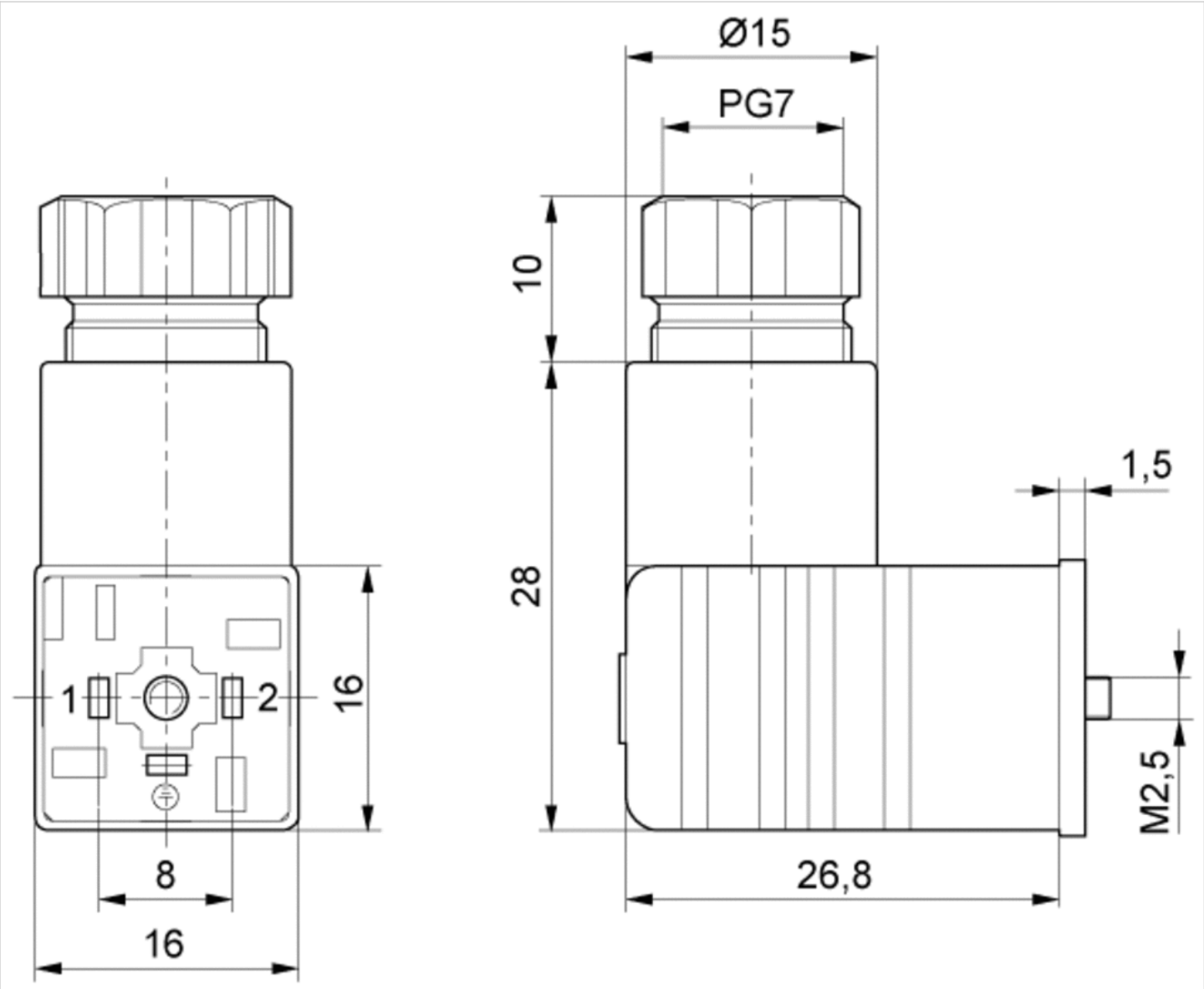


Fig. 2

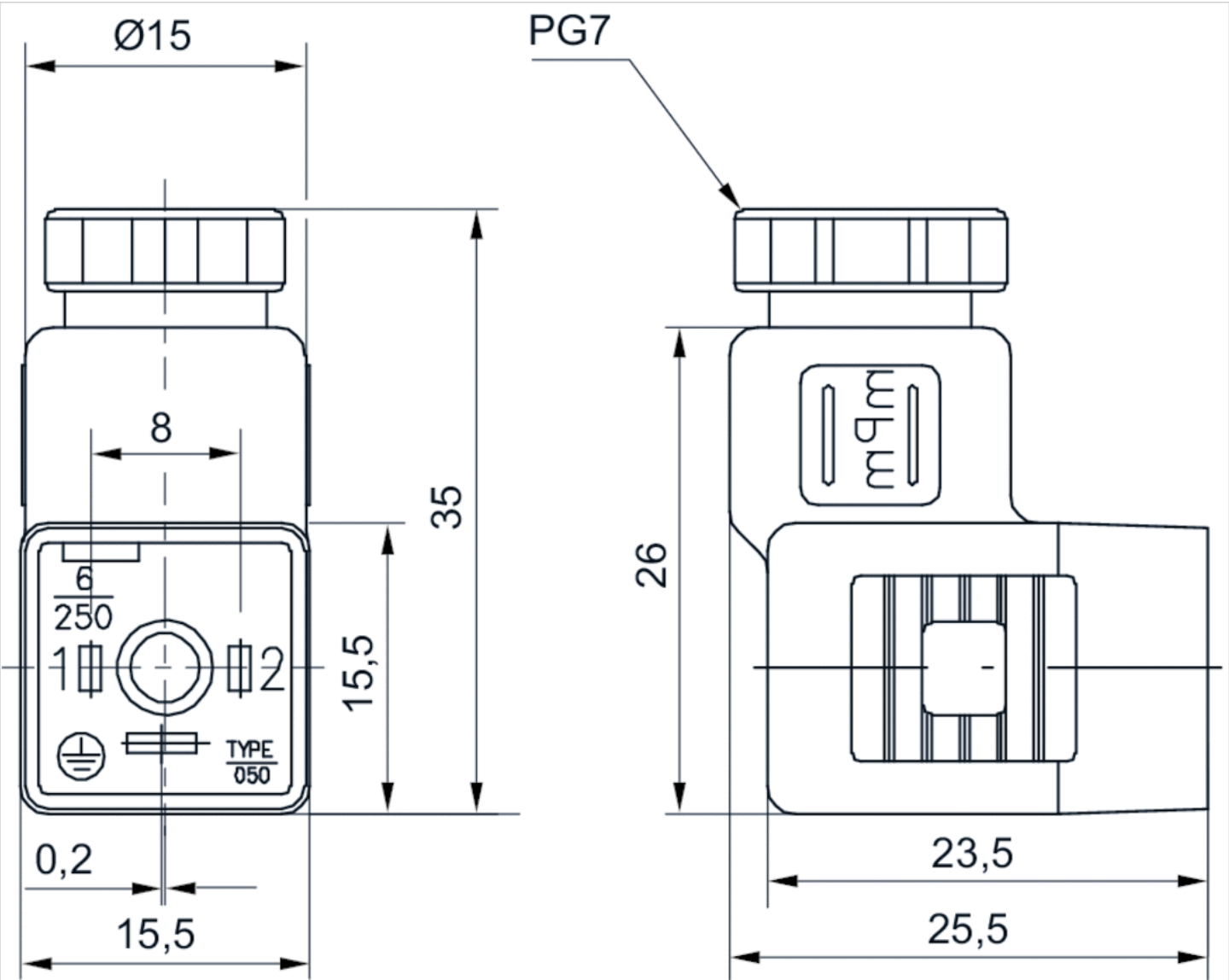
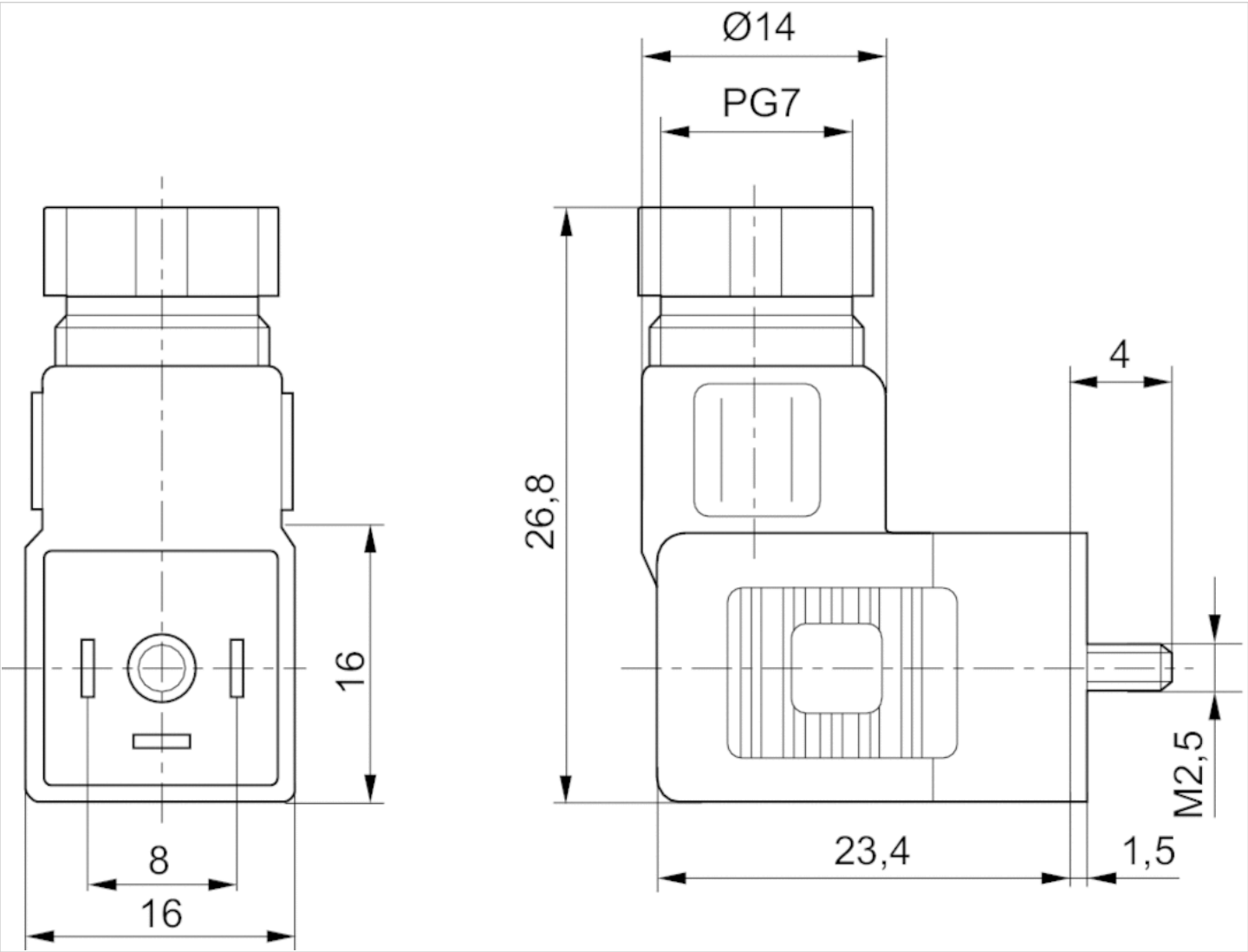


Fig. 3



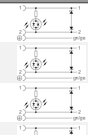
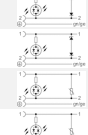
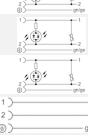
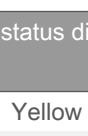
Valve plug connector, series CON-VP

- Socket, form C, 2+E, angled, 90°
- open cable ends, 3-pin
- with cable
- unshielded



Ambient temperature min./max.	-20 ... 80 °C
Operational voltage	See table below
Protection class	IP67
Wire cross-section	0,75 mm ²
Mounting screw tightening torque	0,4 Nm
Weight	See table below

Technical data

Part No.		Operational voltage	Max. current	Protective circuit	Contact assignment
1834484204		24 V, AC/DC	6 A	Z-diode	2+E
1834484205		24 V, AC/DC	6 A	Z-diode	2+E
1834484206		24 V, AC/DC	6 A	Z-diode	2+E
1834484207		24 V, AC/DC	6 A	Z-diode	2+E
1834484236		24 V, AC/DC	6 A	Z-diode	2+E
1834484208		230 V, AC/DC	6 A	Varistor	2+E
1834484209		230 V, AC/DC	6 A	Varistor	2+E
1834484210		230 V, AC/DC	6 A	Varistor	2+E
1834484211		230 V, AC/DC	6 A	Varistor	2+E
1834484212		230 V, AC/DC	6 A	-	2+E
1834484213		230 V, AC/DC	6 A	-	2+E
1834484214		230 V, AC/DC	6 A	-	2+E
1834484215		230 V, AC/DC	6 A	-	2+E

Part No.	LED status display	Number of wires	Cable-Ø	Cable length	Weight	Fig.	
1834484204	Yellow	3	5,9 mm	3 m	0,185 kg	Fig. 1	1)
1834484205	Yellow	3	5,9 mm	3 m	0,185 kg	Fig. 2	1)
1834484206	Yellow	3	5,9 mm	5 m	0,292 kg	Fig. 1	1)
1834484207	Yellow	3	5,9 mm	5 m	0,298 kg	Fig. 2	1)
1834484236	Yellow	3	5,9 mm	10 m	0,571 kg	Fig. 2	1)
1834484208	Yellow	3	5,9 mm	3 m	0,171 kg	Fig. 1	1)
1834484209	Yellow	3	5,9 mm	3 m	0,194 kg	Fig. 2	1)
1834484210	Yellow	3	5,9 mm	5 m	0,297 kg	Fig. 1	1)
1834484211	Yellow	3	5,9 mm	5 m	0,285 kg	Fig. 2	1)
1834484212	-	3	5,9 mm	3 m	0,183 kg	Fig. 1	-
1834484213	-	3	5,9 mm	3 m	0,183 kg	Fig. 2	-

Part No.	LED status display	Number of wires	Cable-Ø	Cable length	Weight	Fig.	
1834484214	-	3	5,9 mm	5 m	0,308 kg	Fig. 1	-
1834484215	-	3	5,9 mm	5 m	0,308 kg	Fig. 2	-

1) Scope of delivery incl. flat gasket

Technical information

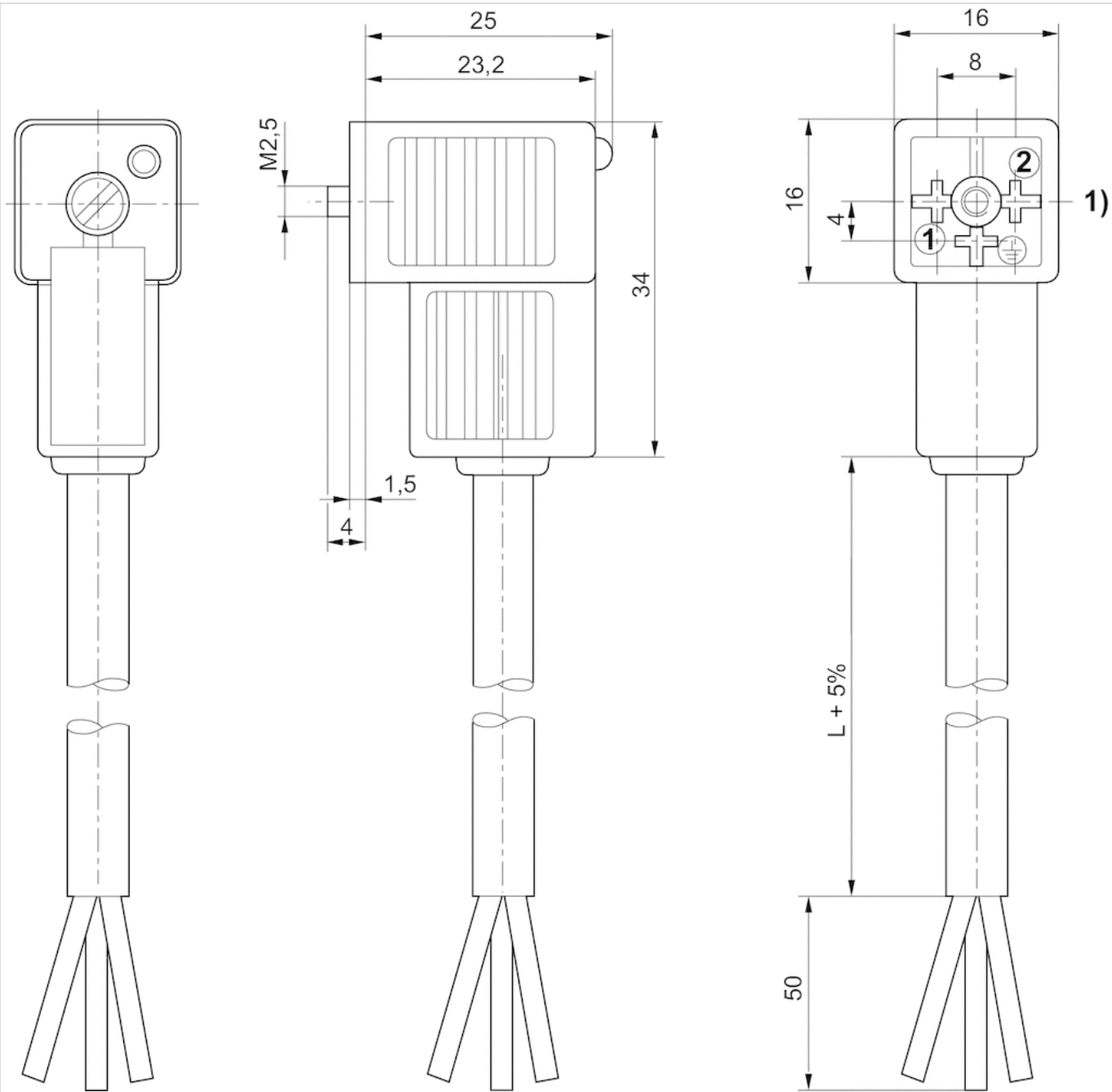
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Seals	caoutchouc/butadiene caoutchouc
Cable sheath	Polyvinyl chloride

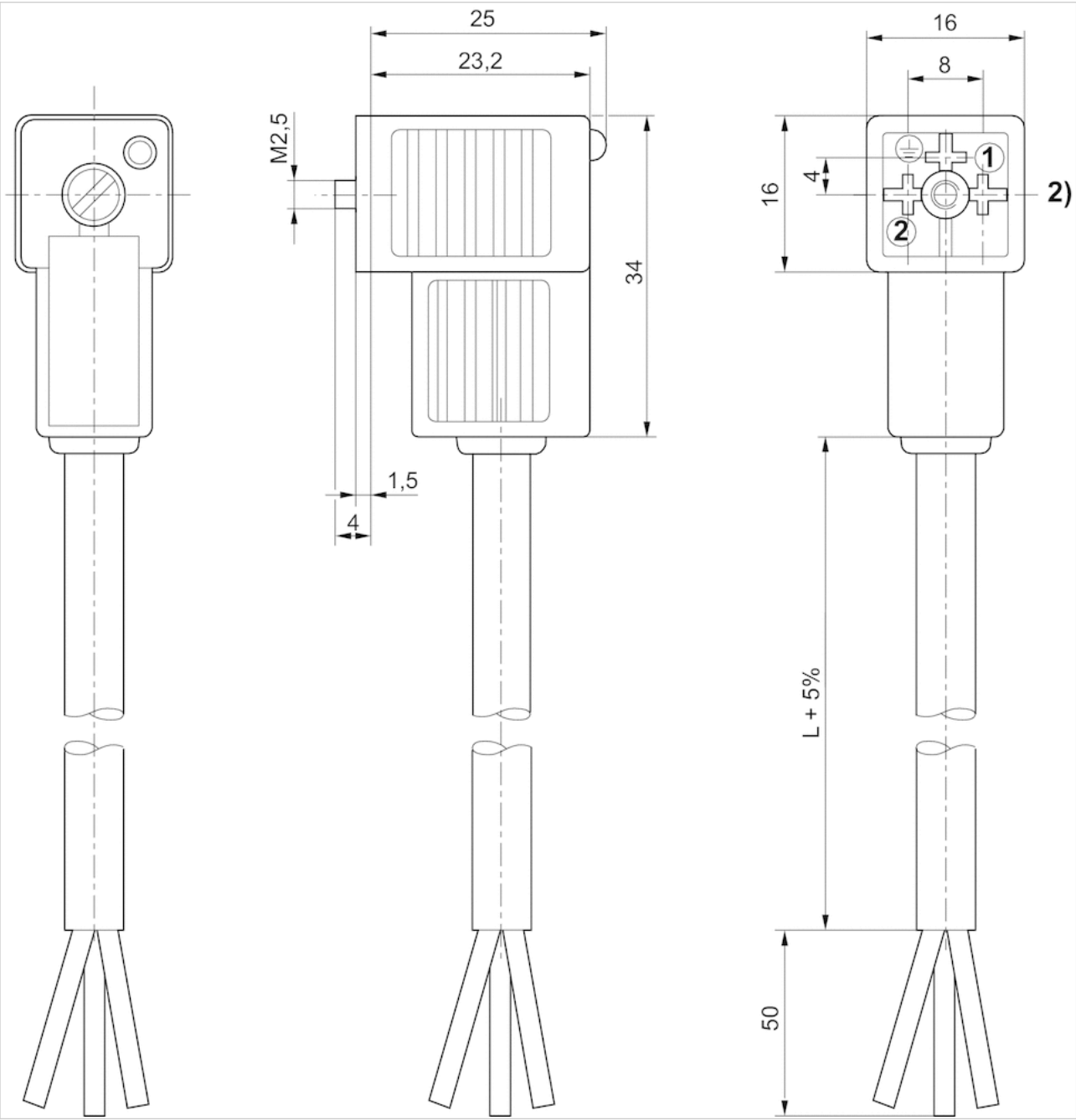
Dimensions

Fig. 1



1) 0° female insert

Fig. 2



2) 180° female insert

3/2-directional valve, Series DO16

- Plate connection
- Electrical connection : Plug, ISO 15217, form C
- Manual override : without detent, with detent
- With spring return



Version	Poppet valve
Activation	Electrically
Sealing principle	Soft sealing
Working pressure min./max.	See table below
Ambient temperature min./max.	-10 ... 50 °C
Medium temperature min./max.	-10 ... 50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 ... 5 mg/m³
Nominal flow 1 ► 2	See table below
Nominal flow 2 ► 3	See table below
Protection class acc. to DIN EN 61140, Electrically	Class I
Protection class, with connection	IP65
Duty cycle	100 %
Mounting on manifold strip	PRS strip
mounting screws	M3
Weight	0,035 kg

Technical data

Part No.		MO	Operational voltage	Operational voltage	Operational voltage
			DC	AC 50 Hz	AC 60 Hz
0820048002			24 V	-	-
0820048004			-	24 V	-
0820048005			-	-	110 V
0820048001			-	230 V	-
0820048026			24 V	-	-
0820048028			-	24 V	-
0820048101			-	230 V	-
0820048029			-	-	110 V
0820048025			-	230 V	-
0820048102			24 V	-	-
0820048126			24 V	-	-

Part No.	Voltage tolerance	Voltage tolerance	Voltage tolerance	Power consumption
	DC	AC 50 Hz	AC 60 Hz	DC
0820048002	-10% / +15%	-	-	2 W
0820048004	-	-10% / +15%	-	-
0820048005	-	-	-10% / +15%	-
0820048001	-	-10% / +15%	-	-
0820048026	-10% / +15%	-	-	2 W
0820048028	-	-10% / +15%	-	-
0820048101	-	-10% / +15%	-	-

Part No.	Voltage tolerance	Voltage tolerance	Voltage tolerance	Power consumption
	DC	AC 50 Hz	AC 60 Hz	DC
0820048029	-	-	-10% / +15%	-
0820048025	-	-10% / +15%	-	-
0820048102	-10% / +15%	-	-	2 W
0820048126	-10% / +15%	-	-	2 W

Part No.	Holding power	Holding power	Switch-on power	Switch-on power	Nominal flow 1 ► 2
	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz	
0820048002	-	-	-	-	25 l/min
0820048004	1,6 VA	-	2,2 VA	-	25 l/min
0820048005	-	1,4 VA	-	2 VA	25 l/min
0820048001	1,6 VA	-	2,2 VA	-	25 l/min
0820048026	-	-	-	-	25 l/min
0820048028	1,6 VA	-	2,2 VA	-	25 l/min
0820048101	1,6 VA	-	2,2 VA	-	16 l/min
0820048029	-	1,4 VA	-	2 VA	25 l/min
0820048025	1,6 VA	-	2,2 VA	-	25 l/min
0820048102	-	-	-	-	20 l/min
0820048126	-	-	-	-	20 l/min

Part No.	Nominal flow 2 ► 3	Working pressure min./max.
0820048002	36 l/min	0 ... 10 bar
0820048004	36 l/min	0 ... 10 bar
0820048005	36 l/min	0 ... 10 bar
0820048001	36 l/min	0 ... 10 bar
0820048026	36 l/min	0 ... 10 bar
0820048028	36 l/min	0 ... 10 bar
0820048101	19 l/min	0 ... 6 bar
0820048029	36 l/min	0 ... 10 bar
0820048025	36 l/min	0 ... 10 bar
0820048102	26 l/min	0 ... 8 bar
0820048126	26 l/min	0 ... 8 bar

Nominal flow Q_n at 6 bar and Δp = 1 bar, MO = Manual override

Technical information

The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

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 compressed air must remain constant during the life cycle.

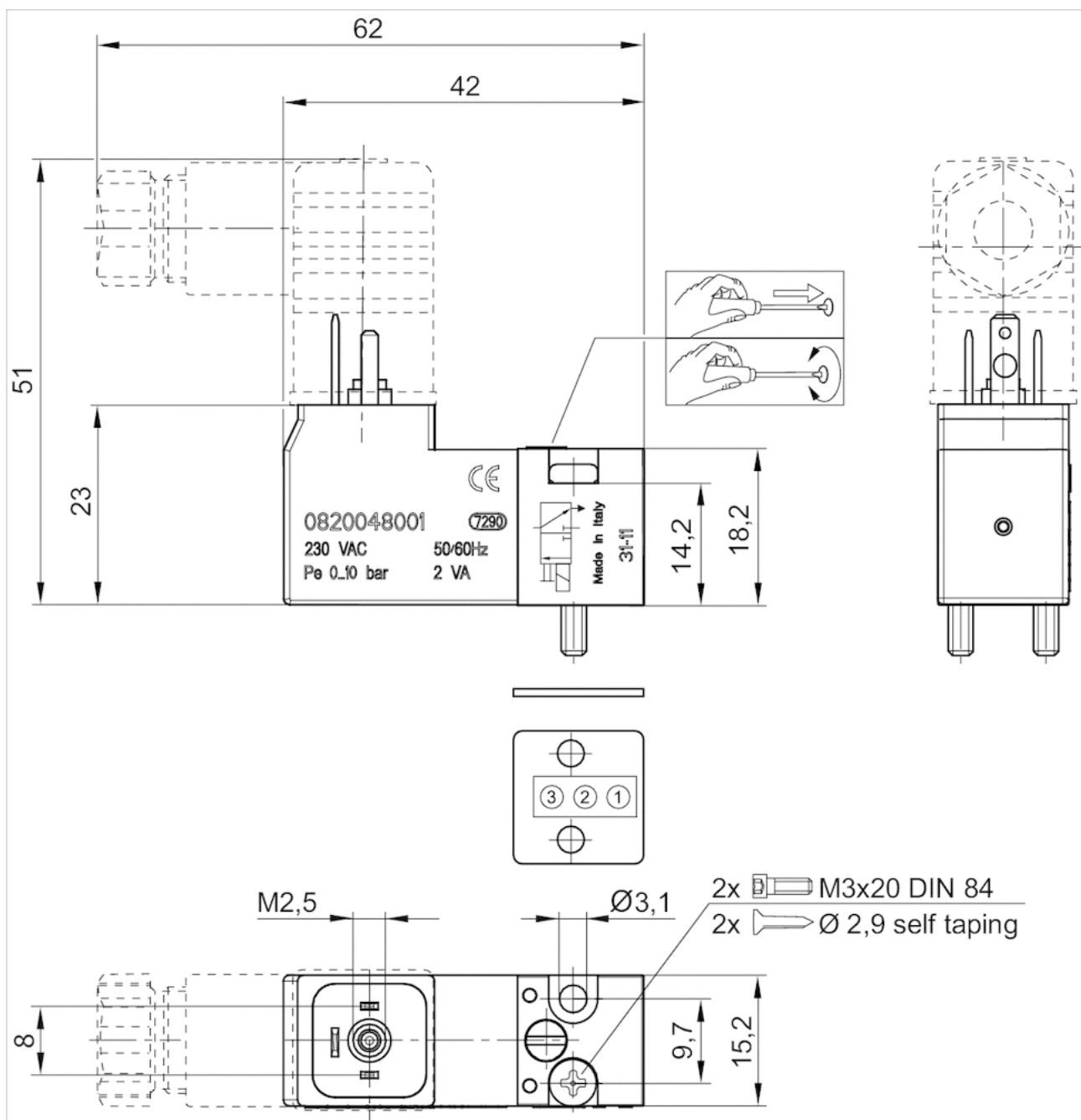
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

Material	
Housing	polyphenylene sulfide, Polyamide, fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



Silencers, series SI1

- Sintered bronze



Working pressure min./max.

0 ... 10 bar

Ambient temperature min./max.

-25 ... 80 °C

Medium

Compressed air

Sound pressure level

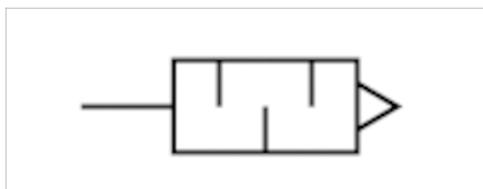
See table below

Weight

See table below

Comment

Flow characteristic curves can be found under "Diagrams".



Technical data

Part No.	Compressed air connection	Sound pressure level	Flow	Delivery unit	Weight
			Qn		
1827000006	M5	72 dB	398 l/min	10 piece	0,004 kg
1827000000	G 1/8	75 dB	1623 l/min	10 piece	0,01 kg
1827000001	G 1/4	79 dB	3390 l/min	10 piece	0,02 kg
1827000002	G 3/8	84 dB	6554 l/min	5 piece	0,05 kg
1827000003	G 1/2	90 dB	7223 l/min	2 piece	0,08 kg
1827000004	G 3/4	92 dB	8394 l/min	1 piece	0,13 kg
1827000005	G 1	102 dB	12848 l/min	1 piece	0,18 kg
R412004817	G 1/4	-	5950 l/min	10 piece	0,013 kg

Weight per piece

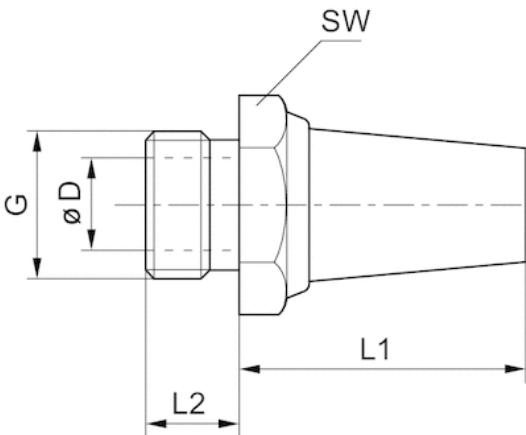
Nominal flow Qn at p1 = 6 bar (absolute) freely discharged. Sound pressure level measured at 6 bar against atmosphere at 1 m distance.

Technical information

Material	
Silencers	Sintered bronze
Thread	Brass

Dimensions

Dimensions

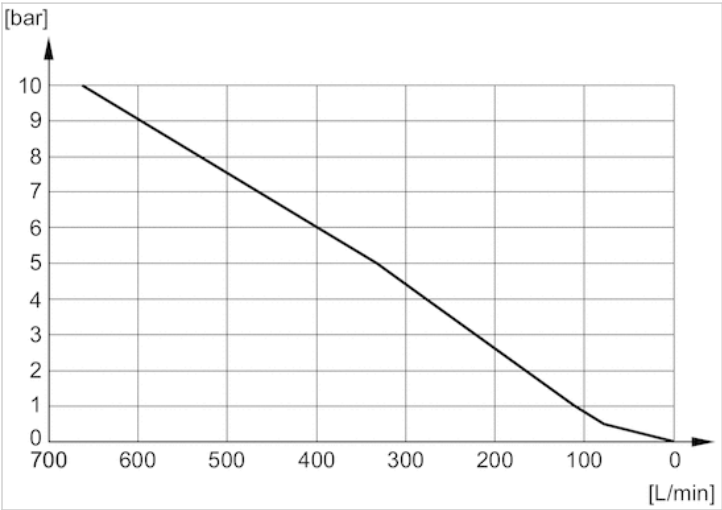


Dimensions

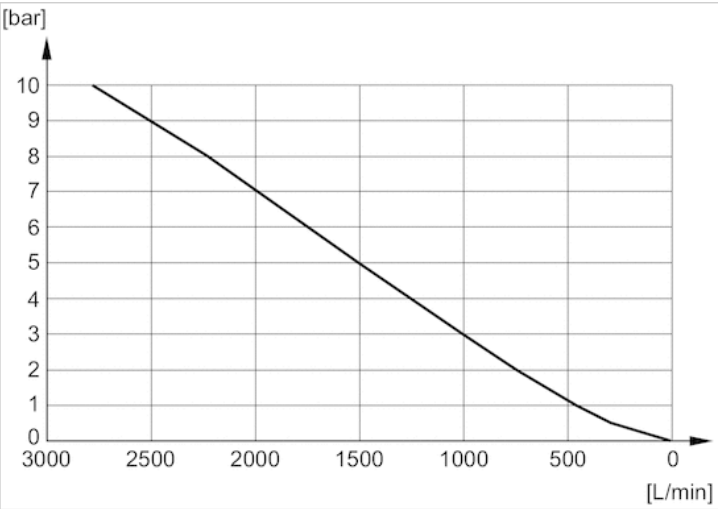
Part No.	Port G	SW	Ø D	L1	L2
1827000006	M5	7	2.5	15	5
1827000000	G 1/8	13	6	18	6
1827000001	G 1/4	17	8.5	25	8
1827000002	G 3/8	22	12	34	10
1827000003	G 1/2	27	14.5	44	12
1827000004	G 3/4	32	19	66	14
1827000005	G 1	41	25	66	16
R412004817	G 1/4	16	8.5	18.7	7.6

Diagrams

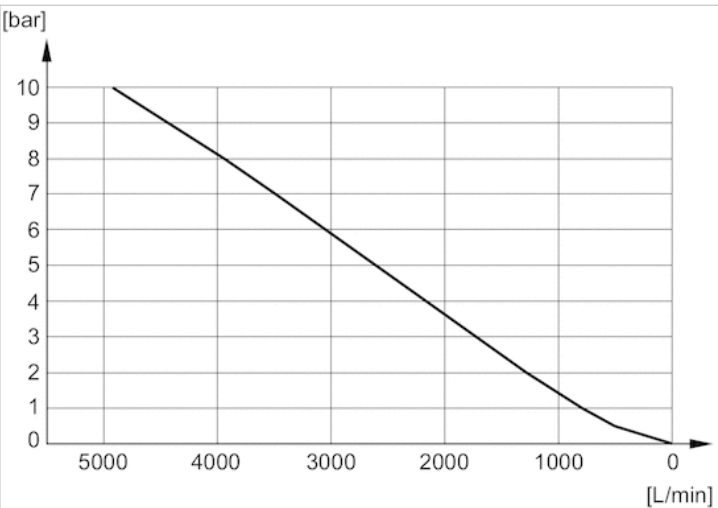
Flow diagram 1827000006



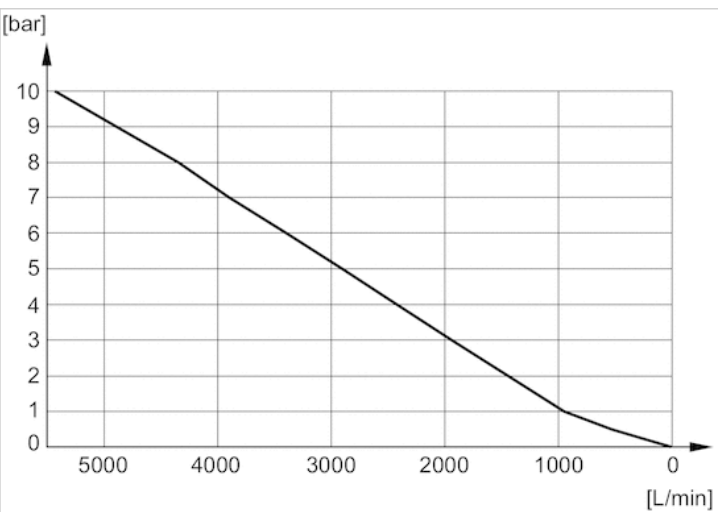
Flow diagram 5324001110



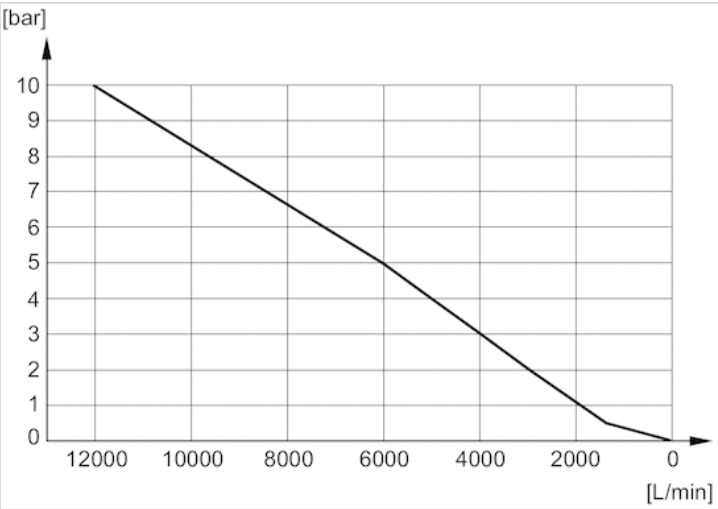
Flow diagram 5324001170



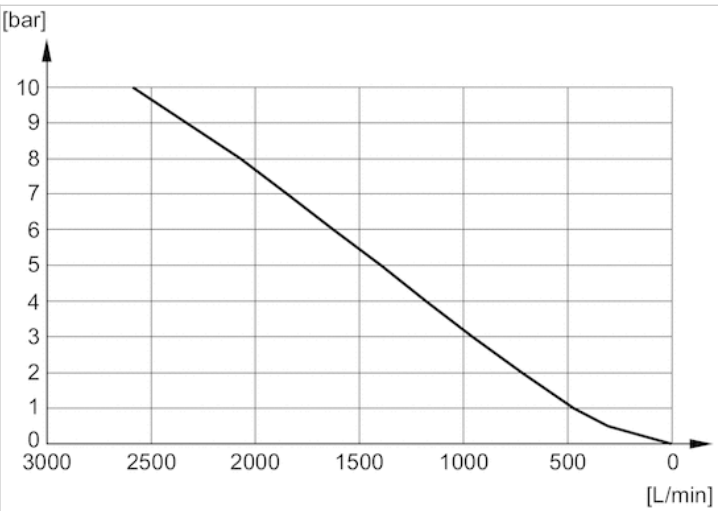
Flow diagram 5324001120



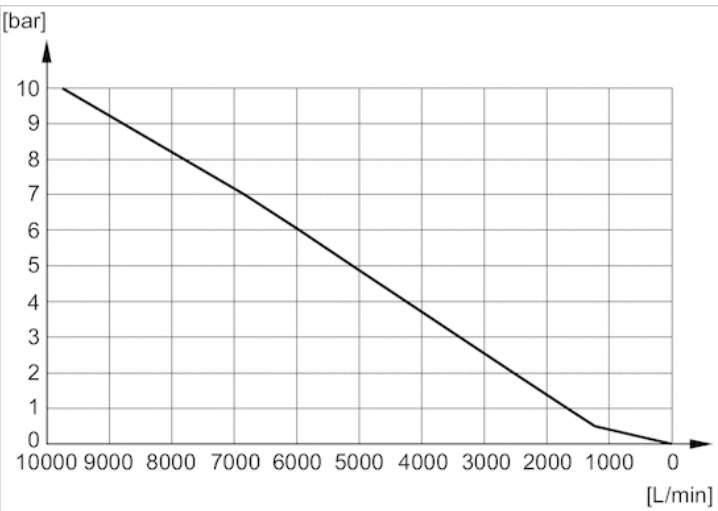
Flow diagram 5324001140



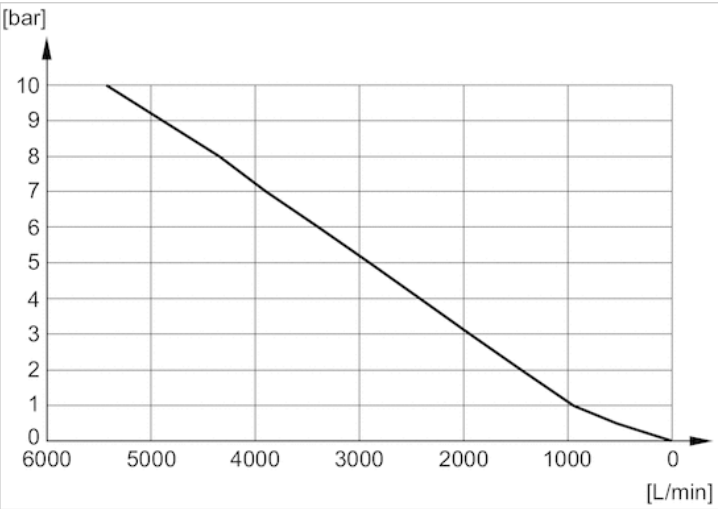
Flow diagram 1827000000



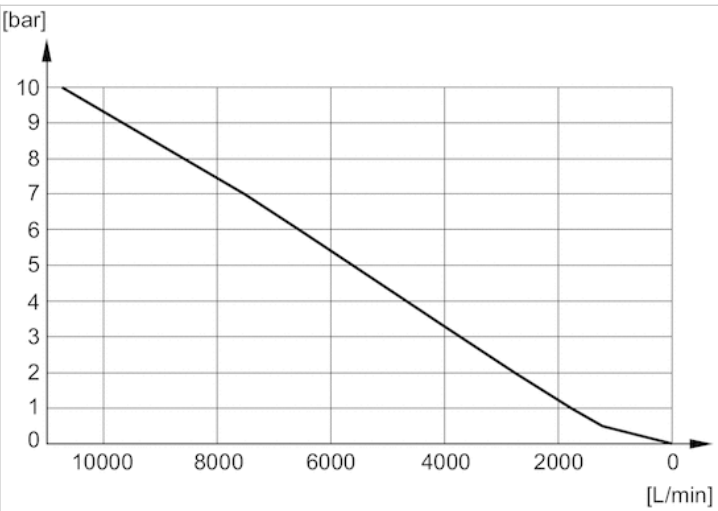
Flow diagram R412004817



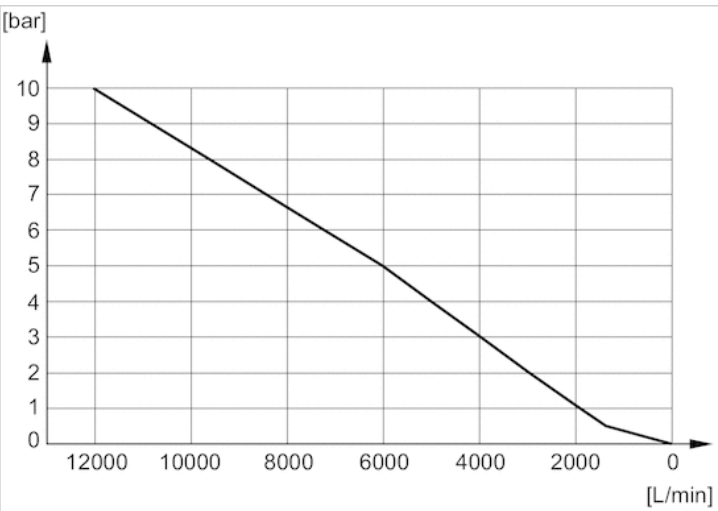
Flow diagram 1827000001



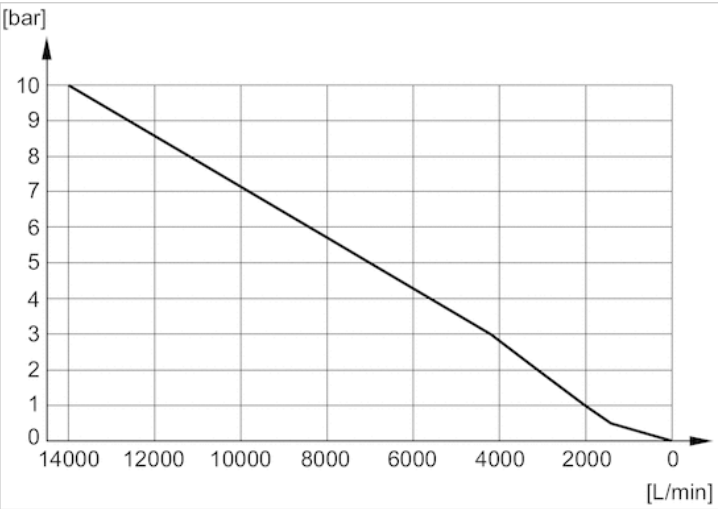
Flow diagram 1827000002



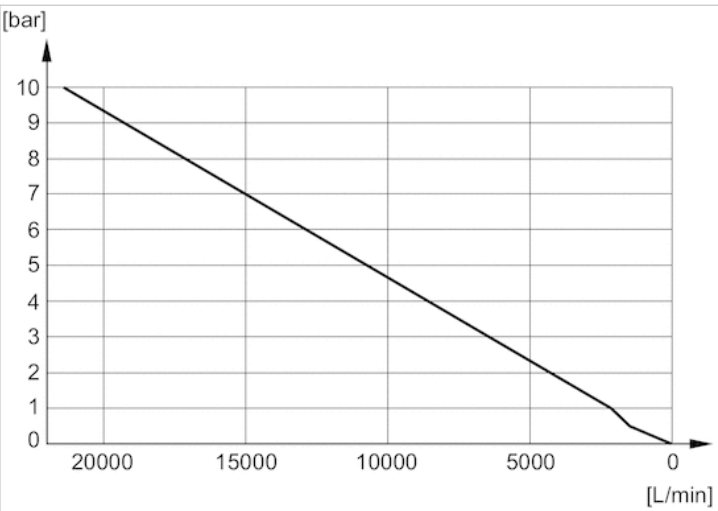
Flow diagram 1827000003



Flow diagram 1827000004



Flow diagram 1827000005



Blanking plate

- for ST



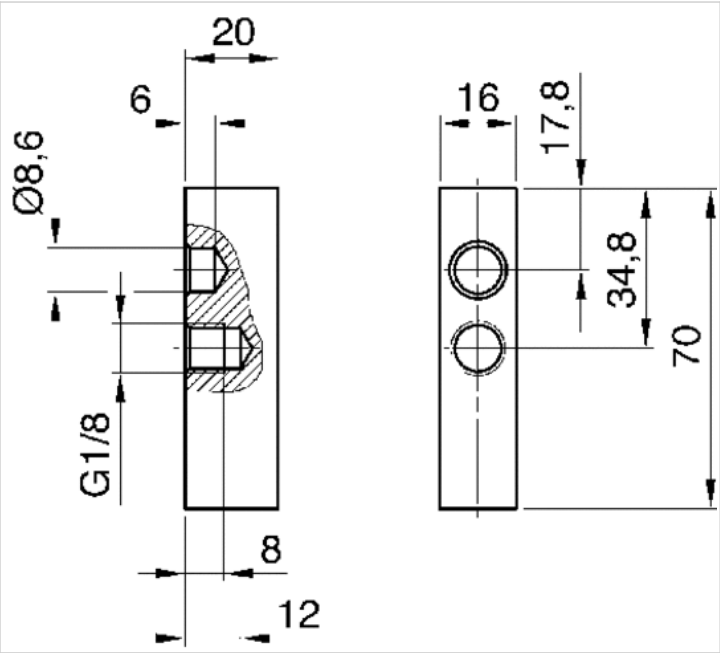
Weight

0,06 kg

Technical data

Part No.	Suitable for
1825503200	For manifold block

Dimensions



Mounting bracket

- for ST



Weight

0,04 kg

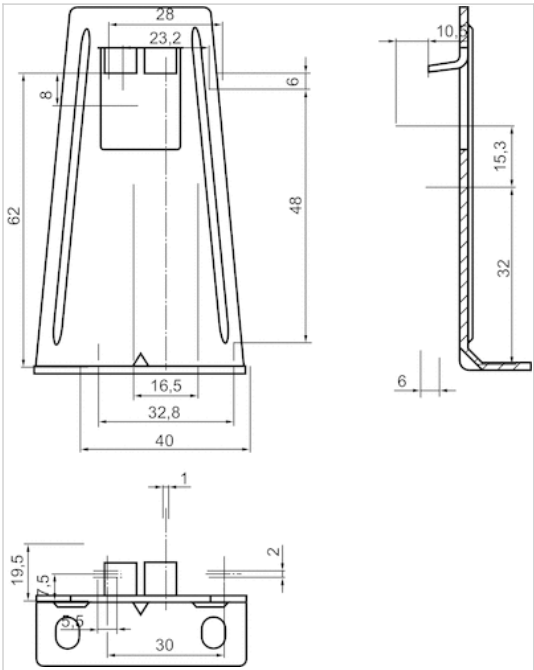
Technical data

Part No.	Suitable for
1821332041	Manifold strip

Technical information

Material	
Housing	Steel

Dimensions



Manifold block



Working pressure min./max.	0 ... 10 bar
Ambient temperature min./max.	-15 ... 80 °C
Medium	Compressed air
Direction of pneumatic port (1)	On the side
Direction of pneumatic port (3,5)	On the side
Exhaust (3,5)	With directional exhaust (3/5)
Exhaust type	Ports separated
Weight	See table below

Technical data

Part No.	Compressed air connection Input [1]	Compressed air connection Exhaust [3 / 5]
1825503182	G 1/4	G 1/4
1825503183	G 1/4	G 1/4
1825503184	G 1/4	G 1/4
1825503185	G 1/4	G 1/4
1825503186	G 1/4	G 1/4
1825503187	G 1/4	G 1/4
1825503188	G 1/4	G 1/4
1825503189	G 1/4	G 1/4
1825503190	G 1/4	G 1/4

Part No.	Number of valve positions	Weight
1825503182	2	0,21 kg
1825503183	3	0,3 kg
1825503184	4	0,39 kg
1825503185	5	0,48 kg
1825503186	6	0,57 kg
1825503187	7	0,66 kg
1825503188	8	0,75 kg
1825503189	9	0,84 kg
1825503190	10	0,93 kg

Technical information

The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

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 compressed air must remain constant during the life cycle.

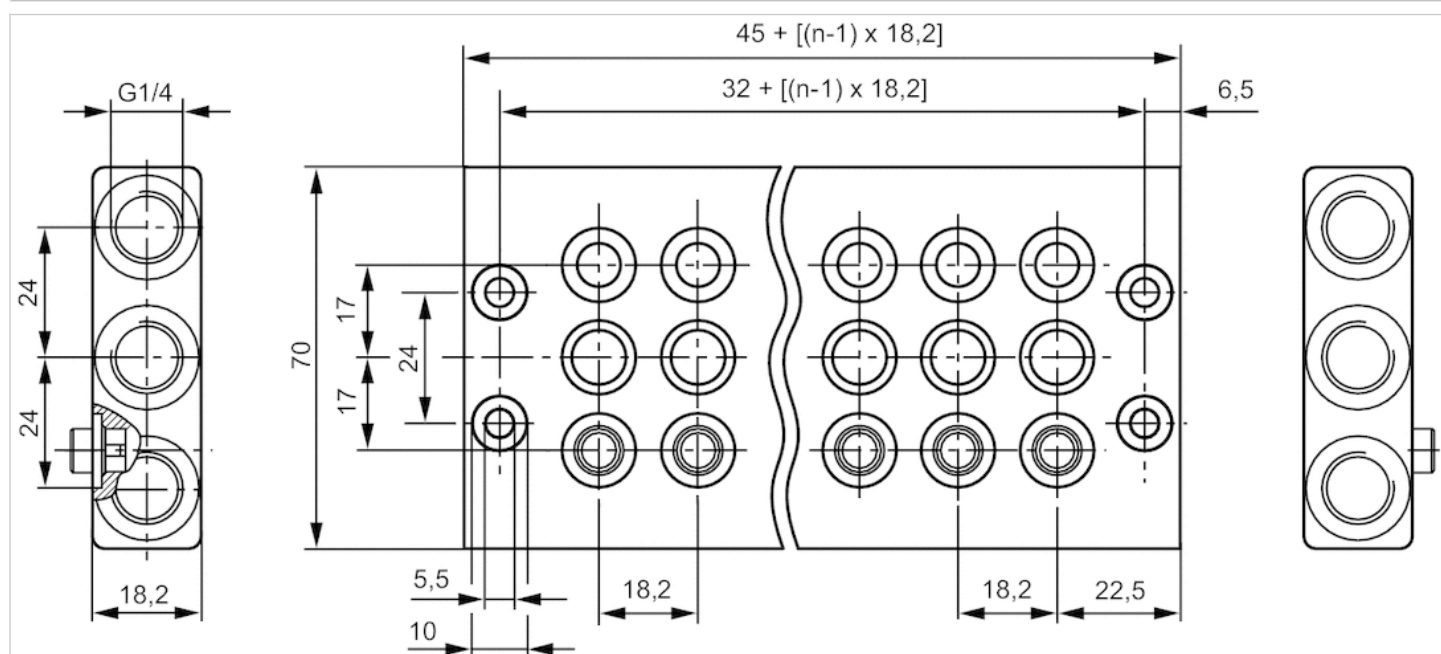
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

Material	
Base plate	Aluminum
Seal	Acrylonitrile butadiene rubber

Dimensions

Dimensions



n = number of valve positions

Manifold strip

- for ST



Working pressure min./max.	0 ... 10 bar
Ambient temperature min./max.	0 ... 80 °C
Medium temperature min./max.	0 ... 80 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 ... 5 mg/m³
Grid dimension	18 mm
Direction of pneumatic port (1)	On the side
Weight	See table below

Technical data

Part No.	Compressed air connection Input [1]	Number of valve positions	Weight
1823390016	G 1/4	2	0,01 kg
1823390017	G 1/4	3	0,02 kg
1823390018	G 1/4	4	0,03 kg
1823390019	G 1/4	5	0,04 kg
1823390020	G 1/4	6	0,05 kg
1823390021	G 1/4	7	0,06 kg
1823390022	G 1/4	8	0,07 kg
1823390023	G 1/4	9	0,08 kg
1823390024	G 1/4	10	0,09 kg
1823390025	G 1/4	11	0,1 kg
1823390026	G 1/4	12	0,11 kg

Technical information

The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

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 compressed air must remain constant during the life cycle.

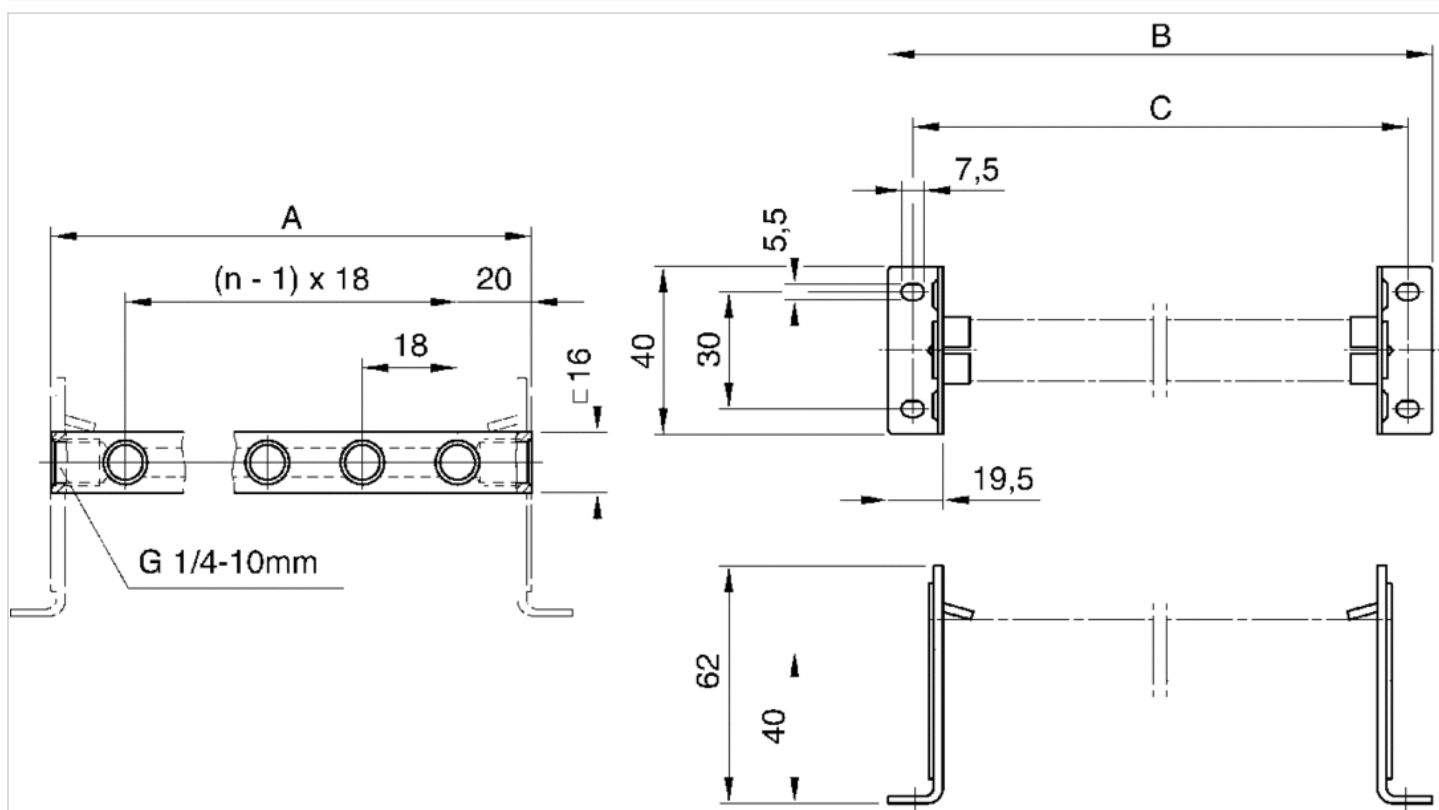
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

Material	
Base plate	Aluminum

Dimensions

Dimensions



Dimensions

Part No.	A	B	C
1823390016	58	93	78
1823390017	76	11	96
1823390018	94	129	114
1823390019	112	147	132
1823390020	130	165	150
1823390021	148	183	168
1823390022	166	201	186
1823390023	184	219	204
1823390024	202	237	222
1823390025	220	255	240
1823390026	238	276	258

n = number of valve positions

Actuating controls for AP/ST series control panel valves

- for series AP, ST



Ambient temperature min./max.

Weight

-30 ... 70 °C

See table below

Technical data

Part No.	Type	Color	Scope of delivery
R412012734	Push button	Red	1 piece
R412012735	Push button	Black	1 piece
R412012736	Push button	Yellow	1 piece
R412012737	Push button	Green	1 piece
R412012738	Mushroom button	Red	1 piece
R412012739	Mushroom button	Green	1 piece
R412012740	Mushroom button	Yellow	1 piece
R412012741	Mushroom button with detent and rotary release	Red	1 piece
R412012742	Lever switch	Red	1 piece
R412012743	Lever switch	White	1 piece
R412012744	Rotary switch with two notched positions	Red	1 piece
R412012745	Rotary switch with two notched positions	Grey	1 piece
R412012748	Push button with detent and rotary release	Black	1 piece
R412012746	Rotary lock with two keys	Grey	1 piece
R412015479	Rotary lock with two keys	Grey	1 piece

Part No.	Weight	Fig.	
R412012734	0,011 kg	Fig. 1	-
R412012735	0,011 kg	Fig. 1	-
R412012736	0,011 kg	Fig. 1	-
R412012737	0,011 kg	Fig. 1	-
R412012738	0,024 kg	Fig. 2	-
R412012739	0,024 kg	Fig. 2	-
R412012740	0,024 kg	Fig. 2	-
R412012741	0,047 kg	Fig. 3	1)
R412012742	0,014 kg	Fig. 4	-
R412012743	0,014 kg	Fig. 4	-

Part No.	Weight	Fig.	
R412012744	0,02 kg	Fig. 5	-
R412012745	0,02 kg	Fig. 5	-
R412012748	0,032 kg	Fig. 6	-
R412012746	0,05 kg	Fig. 7	2)
R412015479	0,05 kg	Fig. 7	3)

- 1) Only for ST series spring-return valves (R422002211, R422002213)
- 2) The key can be removed only if the button is in the actuated state.
- 3) The key can be removed in the actuated or non-actuated state.

Technical information

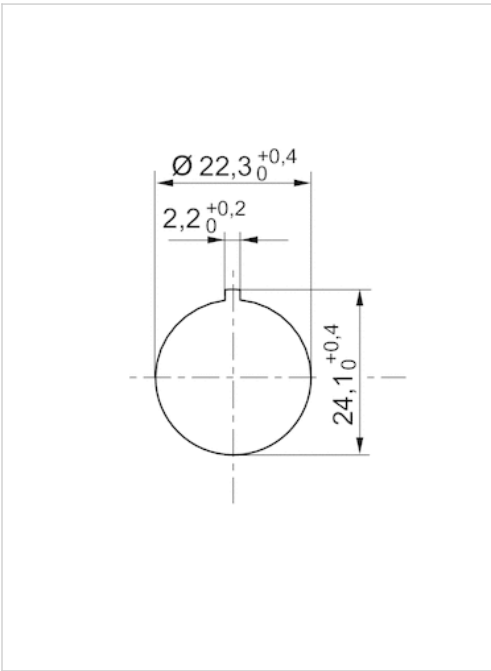
Combining an ST control panel valve with an actuating control may create an emergency OFF control device, which must comply with the applicable regulations in the EC Machinery Directive 2006/42/EC and the EN ISO 13850 and EN ISO 13849 standards. In terms of EN ISO 13849, an ST control panel valve is a single-channel component. A sturdier architecture must be selected to attain a higher performance level (c, d, e).

Technical information

Material	
Housing	Polyamide

Dimensions

Dimensions cut-out in the front plate single valve



When arranging multiple valves, see “cut-out in the front plate” of the AP or ST series.

Fig. 1

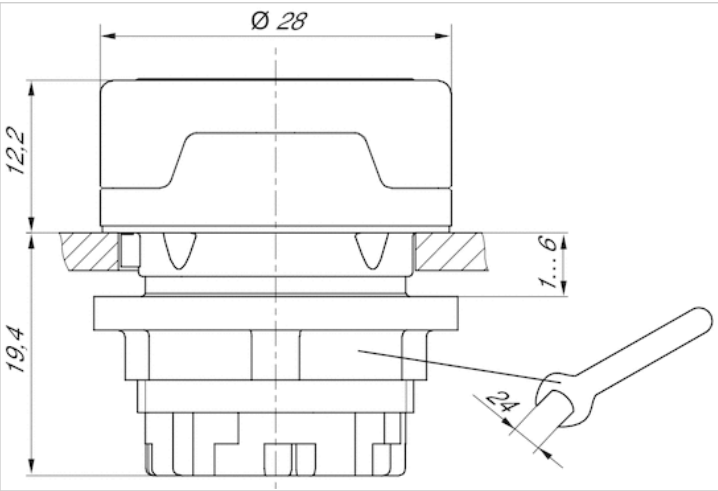


Fig. 2

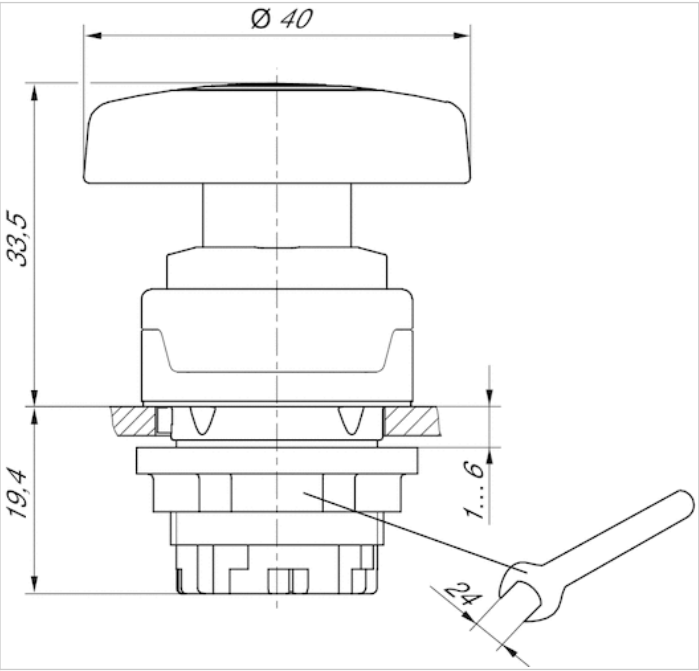
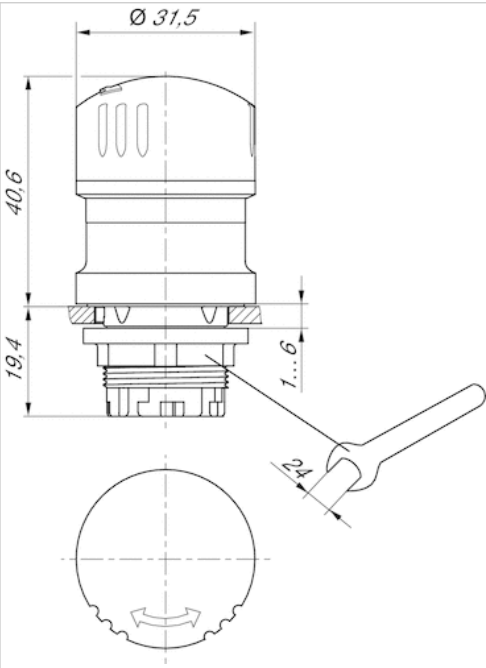


Fig. 3



Only for ST series spring-return valves (R422002211, R422002213)

Fig. 4

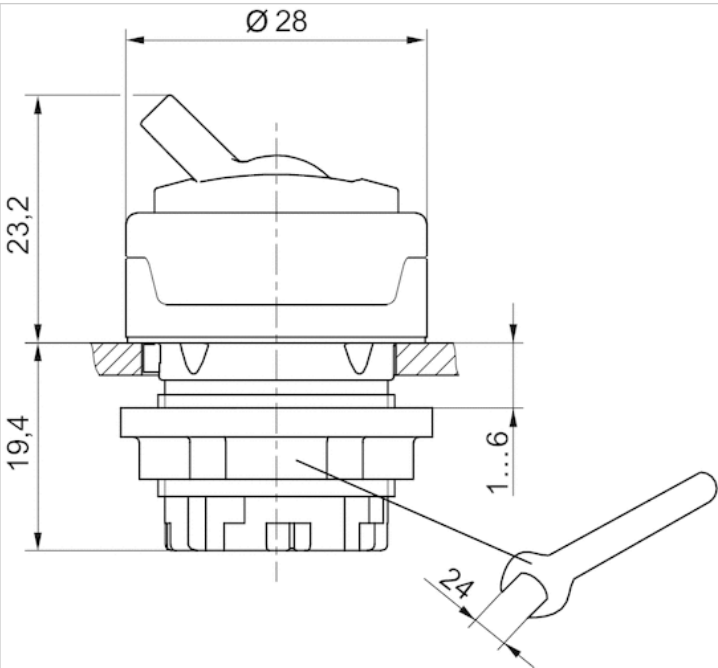


Fig. 5

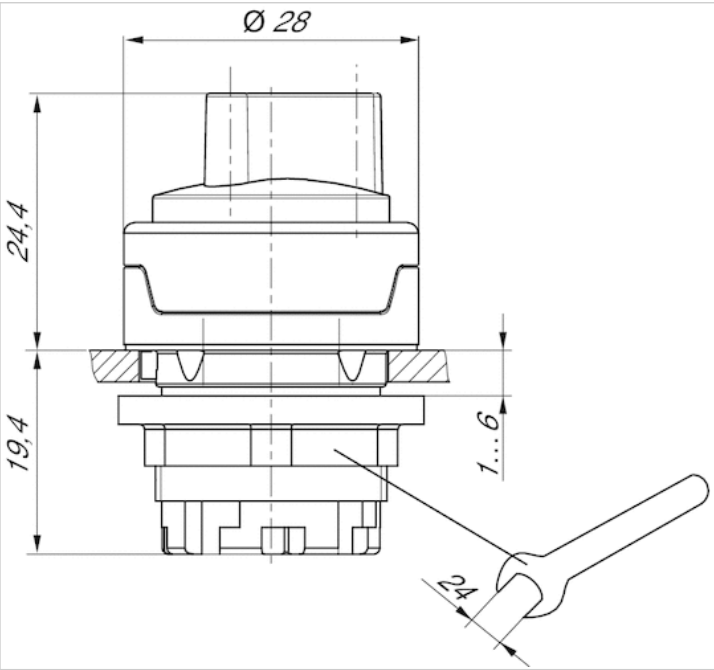


Fig. 6

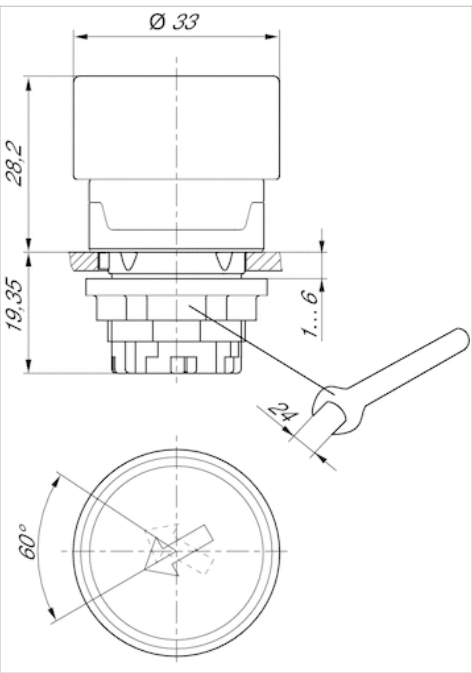
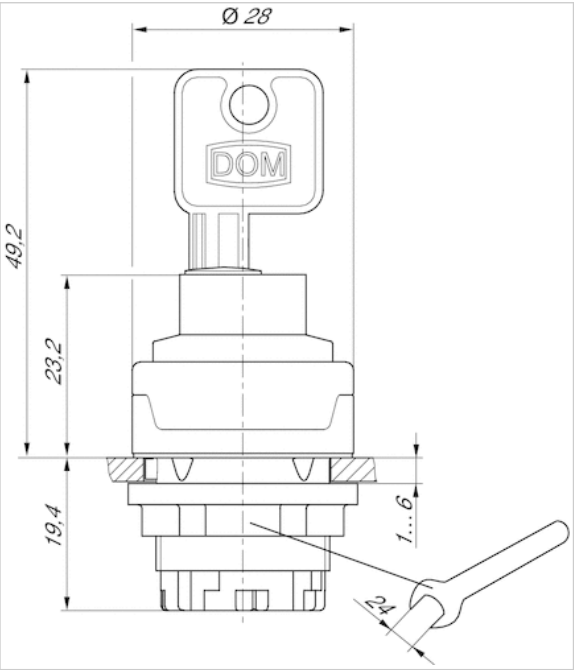
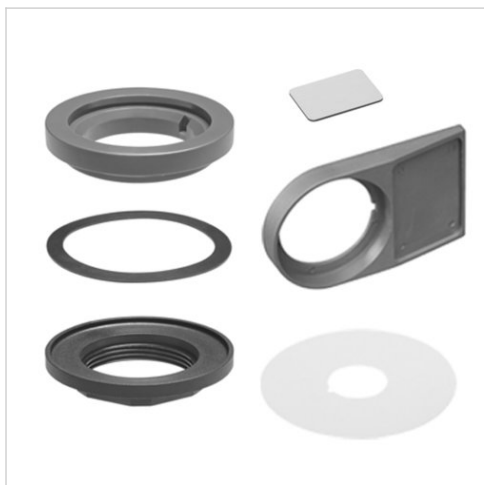


Fig. 7



Accessories for actuating controls for AP/ST series control panel valves

- for series AP, ST



Ambient temperature min./max.

-30 ... 70 °C

Weight

See table below

Technical data

Part No.	Type	Color	Material	Weight	Fig.	
R412012749	Label base	Anthracite	Polyamide	0,003 kg	Fig. 1	-
R412012750	Name plates, angular	silver	Polyvinyl chloride	0,001 kg	Fig. 2	-
R412012751	Emergency OFF sign, round	Yellow	Polyvinyl chloride	0,001 kg	Fig. 3	1)
R412012752	Blanking plug	Anthracite	Polyamide	0,026 kg	Fig. 4	-
R412012753	Mounting nut M22x1	Black	Polyamide	0,007 kg	Fig. 5	-
R412012989	Spare key	-	-	0,001 kg	Fig. 6	-
R412015512	Reduction , Ø30.5 to Ø22.5	-	Polyamide	0,001 kg	Fig. 7	-

1) Only for ST series spring-return valves (R422002211, R422002213)

Technical information

Material	
Housing	Polyamide, Polyvinyl chloride

Dimensions

Fig. 7

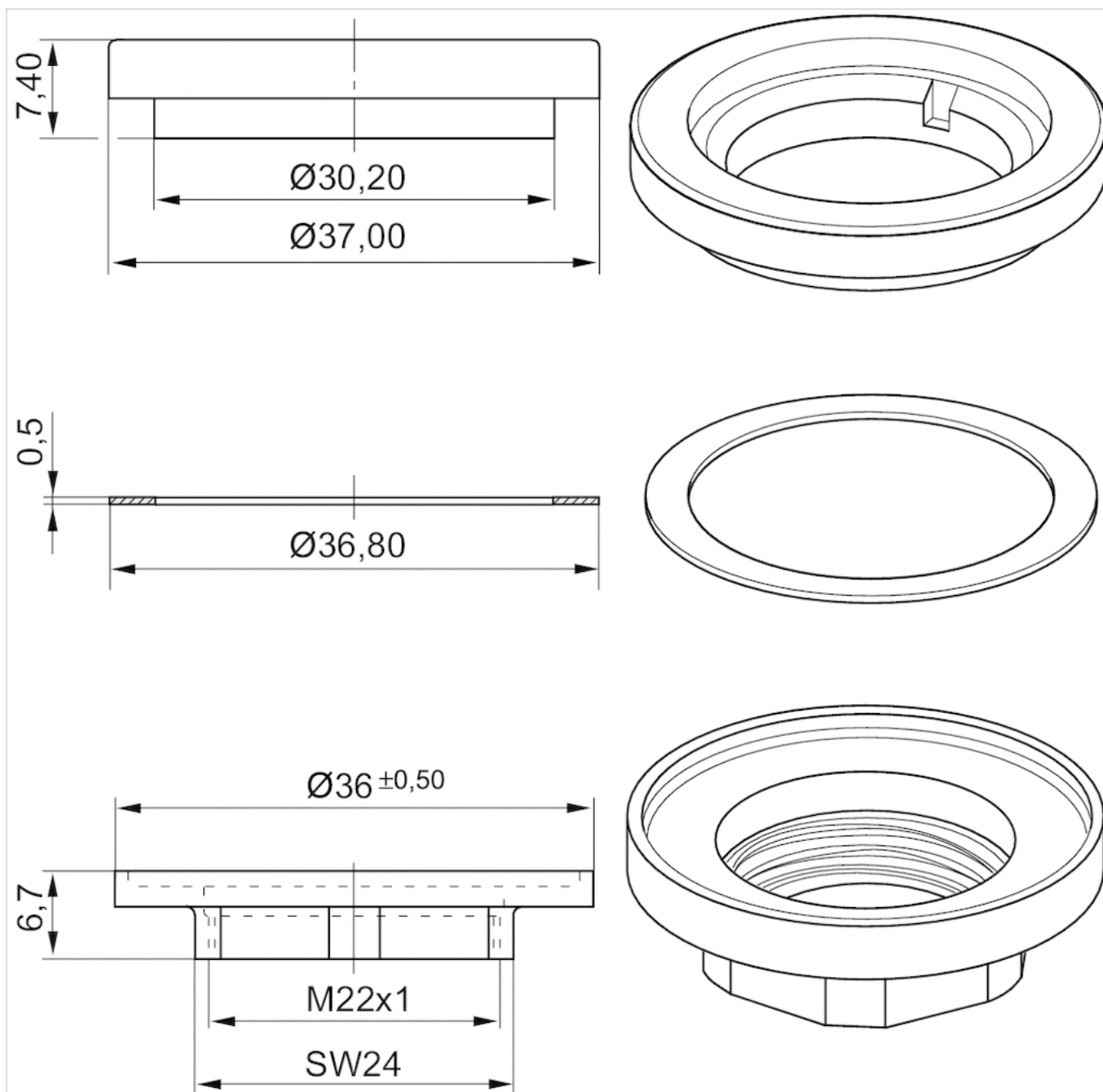


Fig. 1

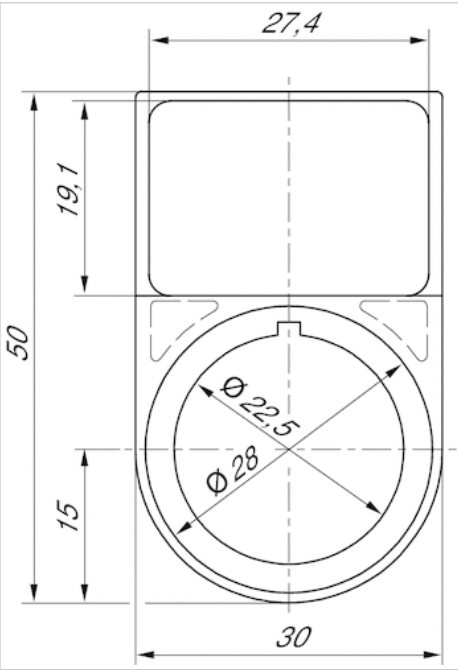


Fig. 2

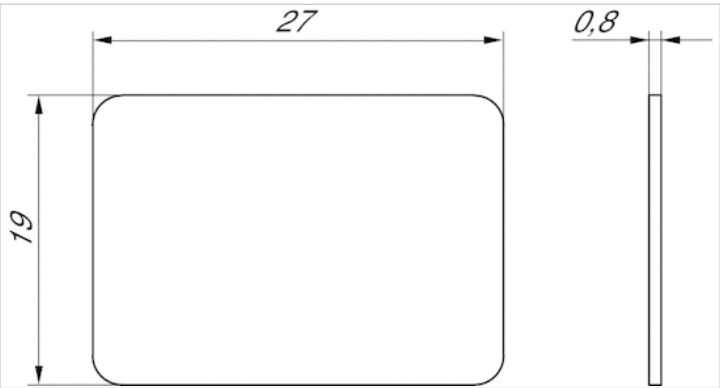
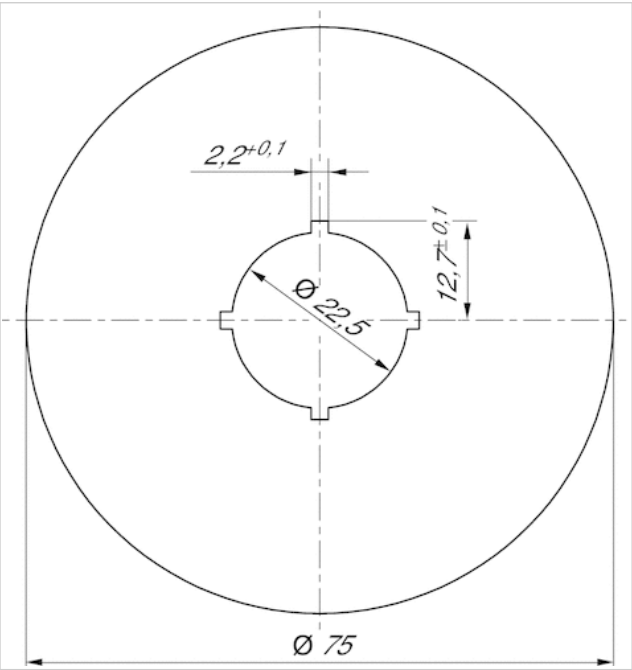


Fig. 3



Only for ST series spring-return valves (R422002211, R422002213)

Fig. 4

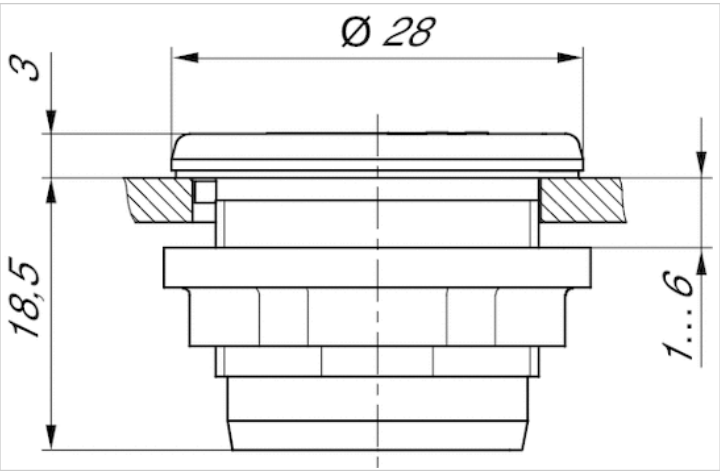


Fig. 5

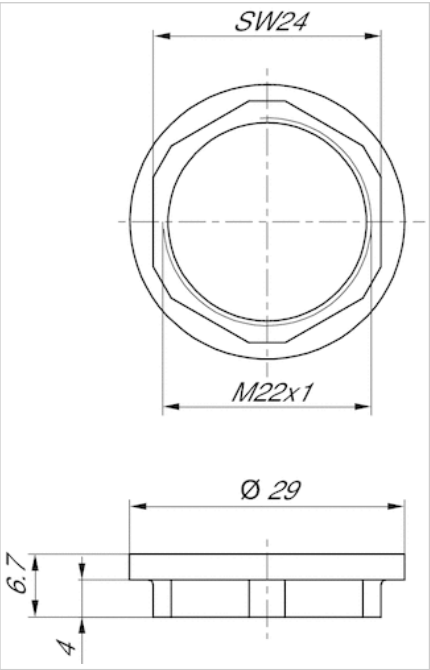
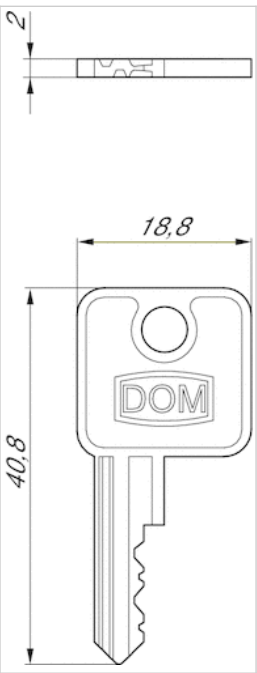
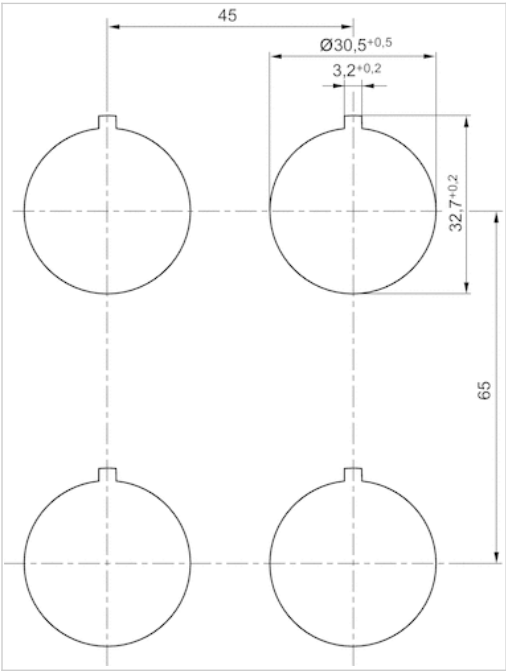


Fig. 6





Adapter kit to connect actuating controls to AP/ST series valves

- for series AP, ST



Ambient temperature min./max.

-30 ... 70 °C

Weight

0,003 kg

Technical data

Part No.	Type
R422002219	Adapter

Technical information

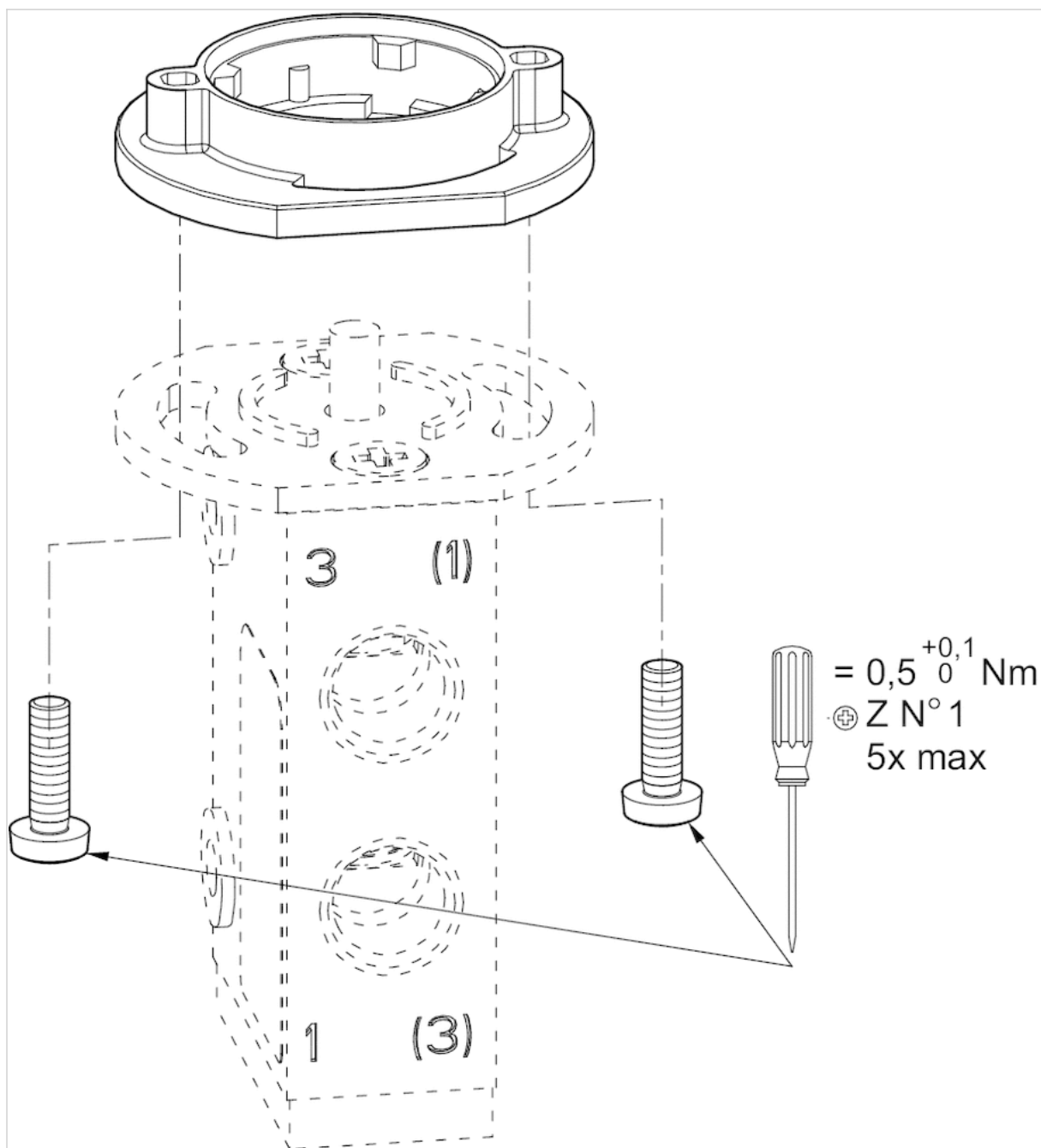
The adapter kit is only needed to connect the following actuating controlsR412012734, R412012735,R412012736, R412012737, R412012738, R412012739, R412012740,R412012741, R412012742, R412012743, R412012744, R412012745, R412012746, R412012748to the following valves 0820402024, 0820402025, 0820403024, 0820403025, 0820402106, 0820408007, 0820404025.

Technical information

Material	
Housing	Polyamide

Dimensions

Dimensions



for panel-mounted valves