- **Port size: 1/4" (ISO G/NPT)**
- **For single acting actuators**
- **NO, NC, Universal valve**
- **Turn and lock type manual override (optional)**
- **Valve switches at power failure into starting position (Mechanical return spring)**
- **Suited for outdoor use under critical environment conditions**
- **Variable valve coil combination (see coil list)**

Technical features

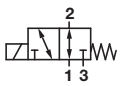
Medium:
Compressed Air
Operation:
Electromagnetic actuated, Manual Override
Operating pressure:
0 ... 8 bar (0 ... 116 psi)

Orifice:
3 mm
Port size:
G1/4, 1/4 NPT
Mounting position:
Optional, preferably vertical
Flow direction:
Fixed
Electrical connection:
See solenoid table

Ambient/Media temperature:
Ambient:
-20 ... +60°C (-4 ... +140°F)
Media:
-20 ... +80°C (-4 ... +176°F)
Depending on solenoid system
Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

Materials:
Body: Aluminum (Anodized), Brass and SS 316L for critical environment conditions.
Seals: FKM
Note:
For Outdoor installations Coil must be protected from moisture by using cable gland of IP 65 or above.

3/2 Way Universal Valves with temperature -20 ... +80°C, Housing: Aluminum, Brass and SS316L

Symbol	Port size	Material	Actuation/return	Operating pressure (bar)	Flow (l/min)	Weight (kg)	Dimension No.	Model *1)
	G1/4	Aluminium	Solenoid/ air spring	0 ... 8	340	0,33	1 & 2	6316***
	1/4 NPT	Aluminium	Solenoid/ air spring	0 ... 8	340	0,33	1 & 2	6316***
	G1/4	Brass	Solenoid/ air spring	0 ... 8	340	0,67	1 & 2	6316***
	1/4 NPT	Brass	Solenoid/ air spring	0 ... 8	340	0,67	1 & 2	6316***
	G1/4	SS 316L	Solenoid/ air spring	0 ... 8	340	0,65	1 & 2	6316***
	1/4 NPT	SS 316L	Solenoid/ air spring	0 ... 8	340	0,65	1 & 2	6316***

*1) When ordering, please indicate solenoid, voltage and current (frequency).
Flow 1 bar differential pressure ~ 160 lpm.

Option selector

6316★★★★.★★★★.★★★★★

Material - Valve body	Substitute
Aluminium	0
Brass	1
Stainless Steel	2
Seal	**Substitute**
FKM (-20 ... +80°C)	5
Port size	**Substitute**
G1/4	3
1/4 NPT	4
Version	**Substitute**
Without Manual Override	1
With Manual Override	0

Voltage	Substitute
24 V d.c.	02400
110 V a.c.	11050
230 V a.c.	23050
Coil protection	**Substitute**
IP65 - M20	6001
IP65 - NPT	6002
ATEX - NPT d.c.	4670
ATEX - NPT a.c.	4671
ATEX - M20 d.c.	4672
ATEX - M20 a.c.	4673

Solenoids, standard voltages

Power consumption			Rated current			Protection class IP/NEMA	Temperature Ambient/Media (°C)	Electrical connection	Weight	Drawing	Circuit diagram	Model
24 V d.c. (W)	110 V a.c. (VA)	230 V a.c. (VA)	24 V d.c. (A)	110 V a.c. (A)	230 V a.c. (A)				(kg)	No.	No.	
~18	~18	~18	~0.7	~0.19	~0.08	IP65 (with connector) *6)	Ambient:-20…+65 Media:-20 …+80	M20 x 1.5	0,35	1 & 2	1&2	6316****.6001.*****
~18	~18	~18	~0.7	~0.19	~0.08	IP65 (with connector) *6)	Ambient: -20…+65 Media:-20 …+80	1/2 NPT *7)	0,36	1 & 2	1&2	6316****.6002.*****
~8.9	–	–	–	–		ATEX : II2G & II2D EEx md IIC T4/T6 EEx me IIC TT4/T6 IP66 T130°C *8)	Ambient:-20 ... +65 Media: -20 ... +55	1/2 NPT *7)	0,8	3 & 4	3	6316****.4670.*****
–	~10	~10	–	~0.043	~0.043	ATEX : II2G & II2D EEx md IIC T4/T6 EEx me IIC TT4/T6 IP66 T130°C *8)	Ambient:-20 ... +65 Media:-20 ... +55	1/2 NPT *7)	0,8	3 & 4	4	6316****.4671.*****
~8.9	–	–	~0.369	~0.043	–	ATEX : II2G & II2D EEx md IIC T4/T6 EEx me IIC TT4/T6 IP66 T130°C *8)	Ambient:-20 ... +65 Media: -20 ... +55	M20 x1,5 *7)	0,8	3 & 4	3	6316****.4672.*****
–	~10	~10	–	~0.043	~0.043	ATEX : II2G & II2D EEx md IIC T4/T6 EEx me IIC TT4/T6 IP66 T130°C *8)	Ambient:-20 ... +65 Media:-20 ... +55	M20 x1,5 *7)	0,8	3 & 4	4	6316****.4673.*****

*1) Coil Insulation Class – H
*2) Degree of protection applies to complete assembly composed of valve and coil, with electrical wiring according to IP 65.
*3) Temperatures mentioned refer to coils only.
*4) This coil has a fuse with an appropriate rating.
*5) Standard voltages (±10%) 24 V d.c., 110 V a.c., 230 V a.c., other voltages on request. 100% duty cycle.
*6) Electrical connector – terminal type (with metal cable entry)
*9) For other power coils please contact Engineering Team
*7) Connector/cable gland is not in the scope of delivery. See table accessories
*8) Category II 2 GD, EC-Type Examination Certificate PTB 02 ATEX 2085X
*10) Note: For Outdoor installations Coil must be protected from moisture by using cable gland of IP 65 or above.--

Accessories

Inlet filter	Silencer (plastic) *3)	Silencer (stainless steel) *3)	Silencer (brass) *3)	Exhaust guard *4)
				
Page 5	**Page 5**	**Page 5**	**Page 5**	**Page 5**
0681173 (G1/4, 1/4 NPT)	C/S2 (1/4 NPT)	0613678 (1/4 NPT)	MS002A (1/4 NPT)	0613422 (G1/4, 1/4 NPT)

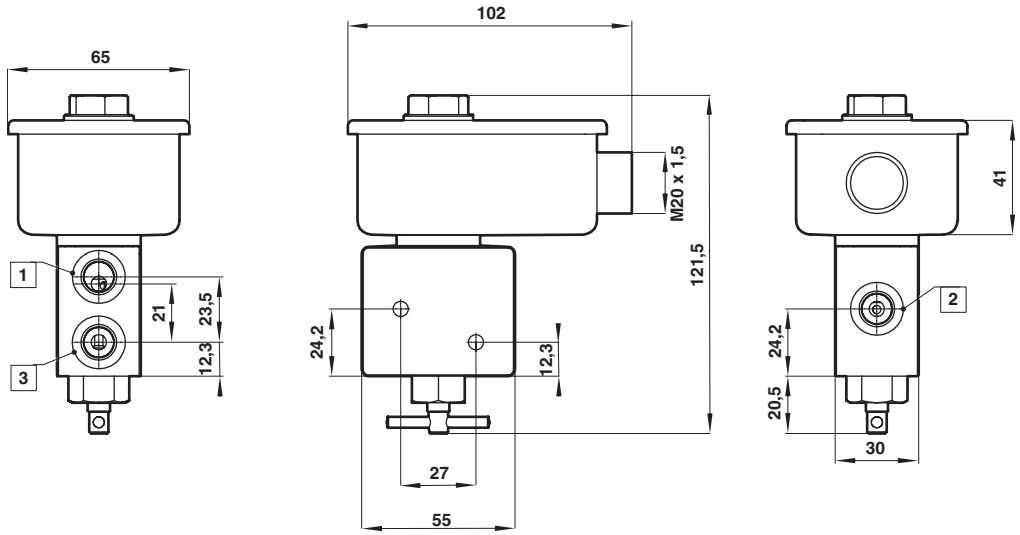
*3) For indoors use only
*4) For outdoors use, opening pressure 0,2 bar

Drawings

Dimensions in mm
Projection/Third angle

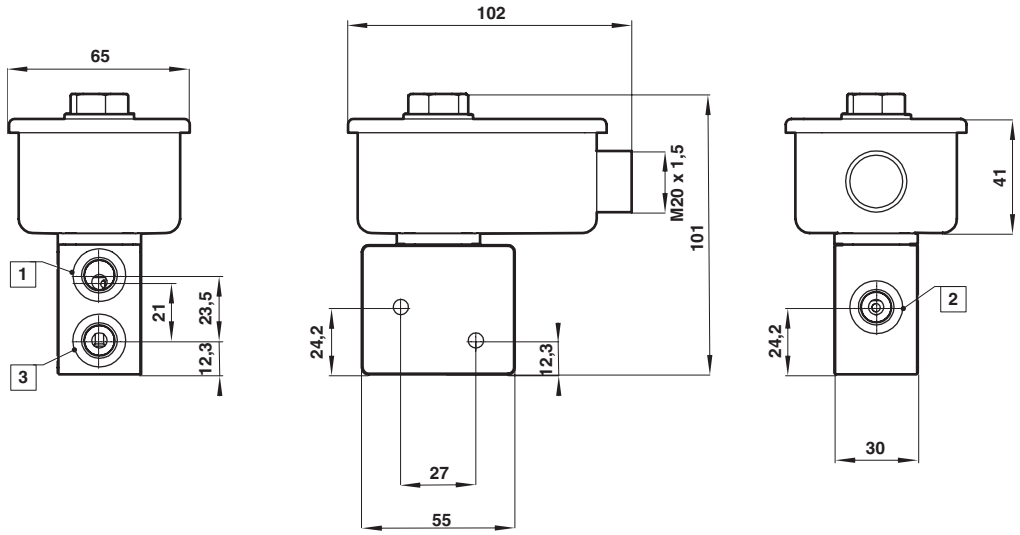
Valves
3/2 way Inline - with Override (Turn and Lock Type)

1



Valves
3/2 way Inline - without Override

2

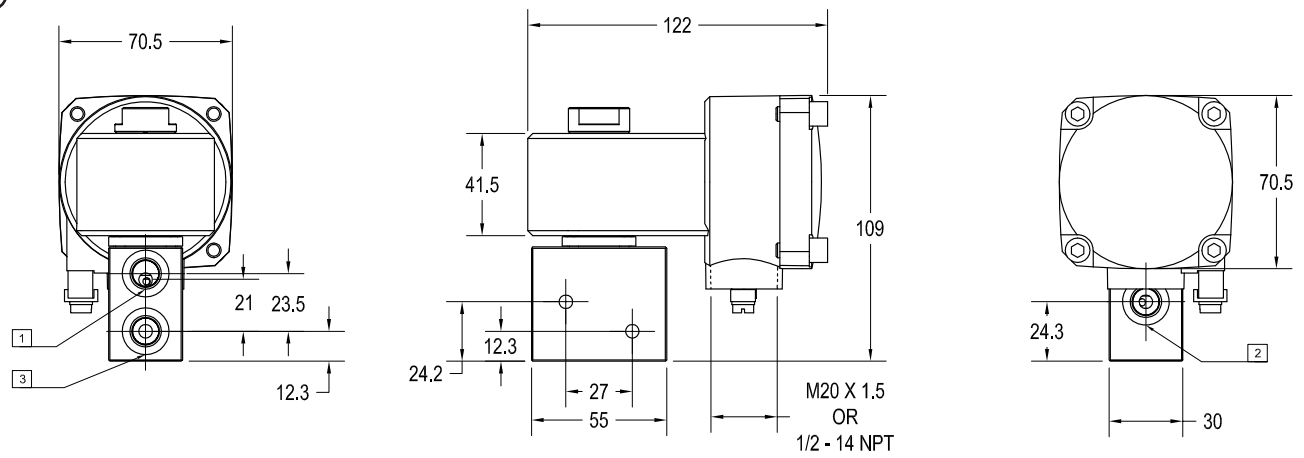


Drawings

Dimensions in mm
Projection/Third angle

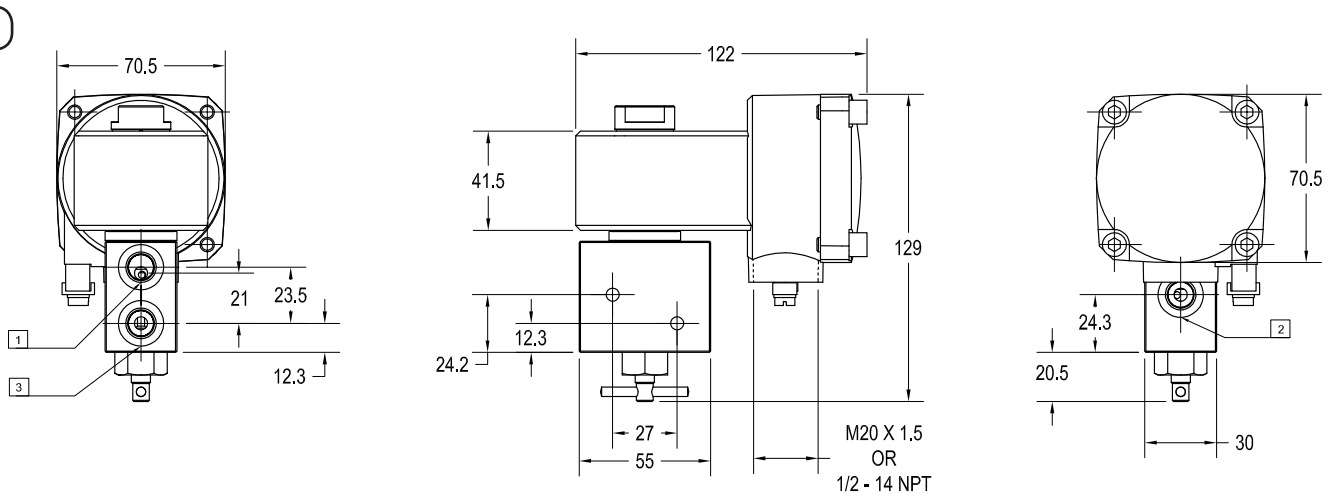
Valves
3/2 way Inline - with Override

3



3/2 way Inline - without Override

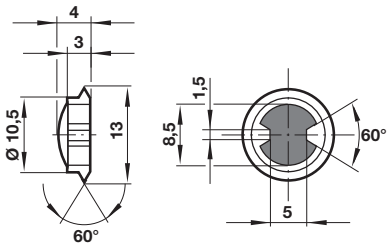
4



Dimensions in mm
Projection/Third angle

Inlet filter

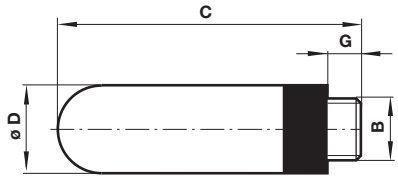
Model: 0681173



Thread pitch diameter max. 11,85 mm

Silencer (plastic)

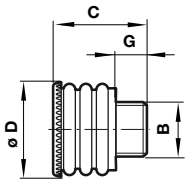
Model: C/S2



B	G	C	Ø D	Weight (g)	Model
G1/4	7	35,5	15,5	2,9	M/S2
1/4 NPT	7	35,5	15,5	2,9	C/S2

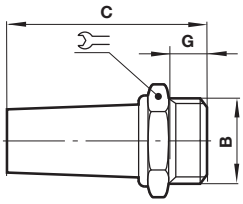
Exhaust guard

Model: 0613422



B	Suitable for	G	C	Ø D	Weight (g)	Model
1/4"	G1/4, 1/4 NPT	10	26,5	21	5	0613422

Silencer (brass or stainless steel)

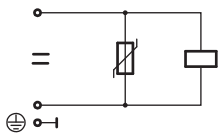


B	C	G	⌯	Weight (g)	Model
1/4 NPT	35	8	9/16	18	MS002A
1/4 NPT	36	8	16	67	0613678 *5)

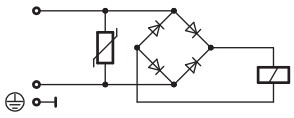
*5) Stainless steel

Circuit diagrams

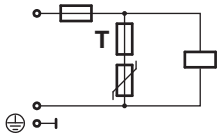
1



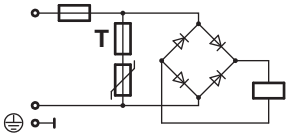
2



3



4



Warning

These products are intended for use in industrial compressed air and fluid systems only. Do not use these products where pressures and temperatures can exceed those listed under »**Technical features/data**«. Before using these products with fluids other than those specified, for non-industrial applications, life-support systems, or other applications not within published specifications, consult
IMI Precision Engineering, IMI Norgren Herion Pvt. Ltd.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes. The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.
System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.
System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.