

Preparation of compressed air ► Maintenance units and components

3/2-directional valve, electrically operated, Series AS3-SOV

► G 3/8 - G 1/2 ► pipe connection ► ATEX optional



IM0046156

Version	Poppet valve, Can be assembled into blocks
Nominal flow	4500 l/min
Nominal flow, 1►2	4500 l/min
Nominal flow, 2►3	3200 l/min
Working pressure min./max.	3 bar / 10 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10°C / +50°C
Ambient temperature min./max.	-10°C / +50°C
Sealing principle	Soft sealing
Max. particle size	25 µm
Protection class, with Plug Mounted	IP65
Materials:	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber
Threaded bushing	Die cast zinc

Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- ATEX optional: The ATEX ID depends on the selected pilot valve.

Operating voltage			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz		AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
			W	VA	VA	VA	VA
24 V	-	-	2	-	-	-	-
-	110 V	110 V	-	2.2	1.6	1.6	1.4
-	220 V	230 V	-	2.2	1.6	1.6	1.4

	MO	Compressed air connection			Operating voltage			Power consumption	Holding power	Part No.
		Input	Output	Exhaust	DC	AC 50 Hz	AC 60 Hz			
								DC [W]	AC 50 Hz [VA]	
	-	G 3/8	G 3/8	G 1/2	-	-	-	-	-	R412007264
		G 1/2	G 1/2							R412007268
		G 3/8	G 3/8							R412007258
		G 1/2	G 1/2							R412007259
	=	G 3/8	G 3/8	G 1/2	24 V	-	-	2	-	R412007265
		G 3/8	G 3/8		24 V	-	-	2	-	R412007397
		G 3/8	G 3/8		-	110 V	110 V	-	1.6	R412007266
		G 3/8	G 3/8		-	220 V	230 V	-	1.6	R412007267
		G 1/2	G 1/2		24 V	-	-	2	-	R412007269
		G 1/2	G 1/2		-	110 V	110 V	-	1.6	R412007270
		G 1/2	G 1/2		-	220 V	230 V	-	1.6	R412007271
		G 1/2	G 1/2		24 V	-	-	2	-	R412007391

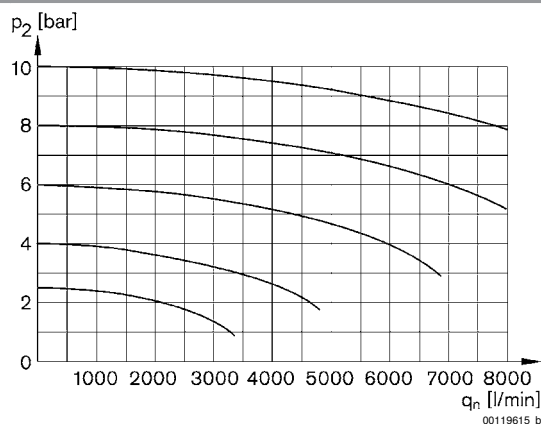
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Part No.	Holding power	Switch-on power	Switch-on power	Electr. connection	Weight	Fig.	Note
	AC 60 Hz	AC 50 Hz	AC 60 Hz	Pilot valve			
	[VA]	[VA]	[VA]		[kg]		
R412007264	-	-	-	-	0.459	Fig. 1	1); 3)
R412007268	-	-	-	-		Fig. 1	1); 3)
R412007258	-	-	-	-		Fig. 2	1); 4)
R412007259	-	-	-	-		Fig. 2	1); 4)
R412007265	-	-	-	Plug ISO 15217, form C	0.459	Fig. 3	5); 6); 7)
R412007397	-	-	-	Plug M12x1		Fig. 4	5); 6); 7)
R412007266	1.4	2.2	1.6	Plug ISO 15217, form C		Fig. 3	5); 6); 7)
R412007267	1.4	2.2	1.6	Plug ISO 15217, form C		Fig. 3	5); 6); 7)
R412007269	-	-	-	Plug ISO 15217, form C		Fig. 3	5); 6); 7)
R412007270	1.4	2.2	1.6	Plug ISO 15217, form C		Fig. 3	5); 6); 7)
R412007271	1.4	2.2	1.6	Plug ISO 15217, form C		Fig. 3	5); 6); 7)
R412007391	-	-	-	Plug M12x1		Fig. 4	2); 5); 8)

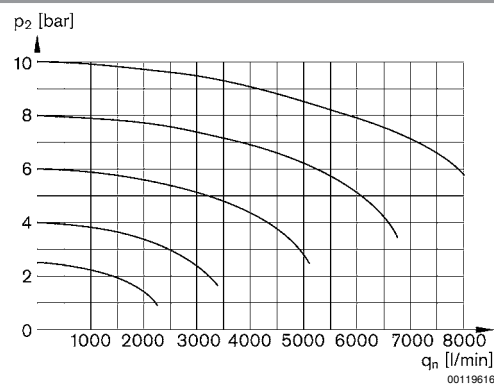
- 1) Suitable for use in Ex zones 1, 2, 21, 22
2) with electrical connector
3) Basic valve without pilot valve
4) Basic valve without pilot valve, with CNOMO subbase
5) Basic valve with pilot valve
6) Protected against polarity reversal
7) Connector standard: ISO 15217
8) Connector standard: EN 175301-803, form B
Nominal flow Q_n with secondary pressure $p_2 = 6$ bar at $\Delta p = 1$ bar

Flow rate characteristic



p_2 = secondary pressure
 q_n = nominal flow

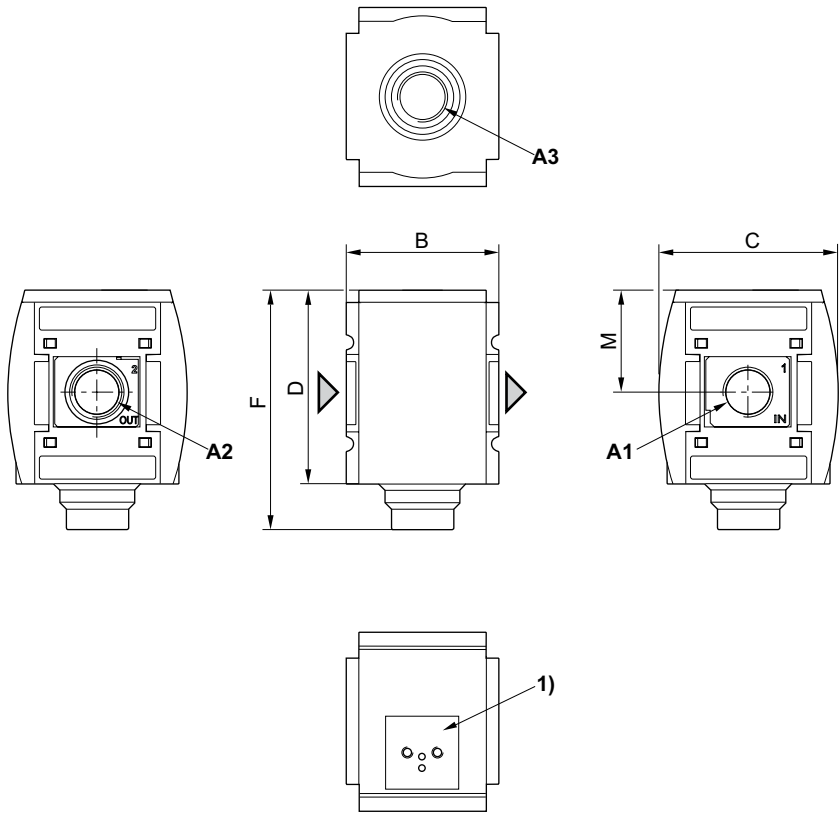
Rear exhaust



p_2 = secondary pressure
 q_n = nominal flow

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Fig. 1: 3/2-directional valve without pilot valve with porting configuration for series DO16



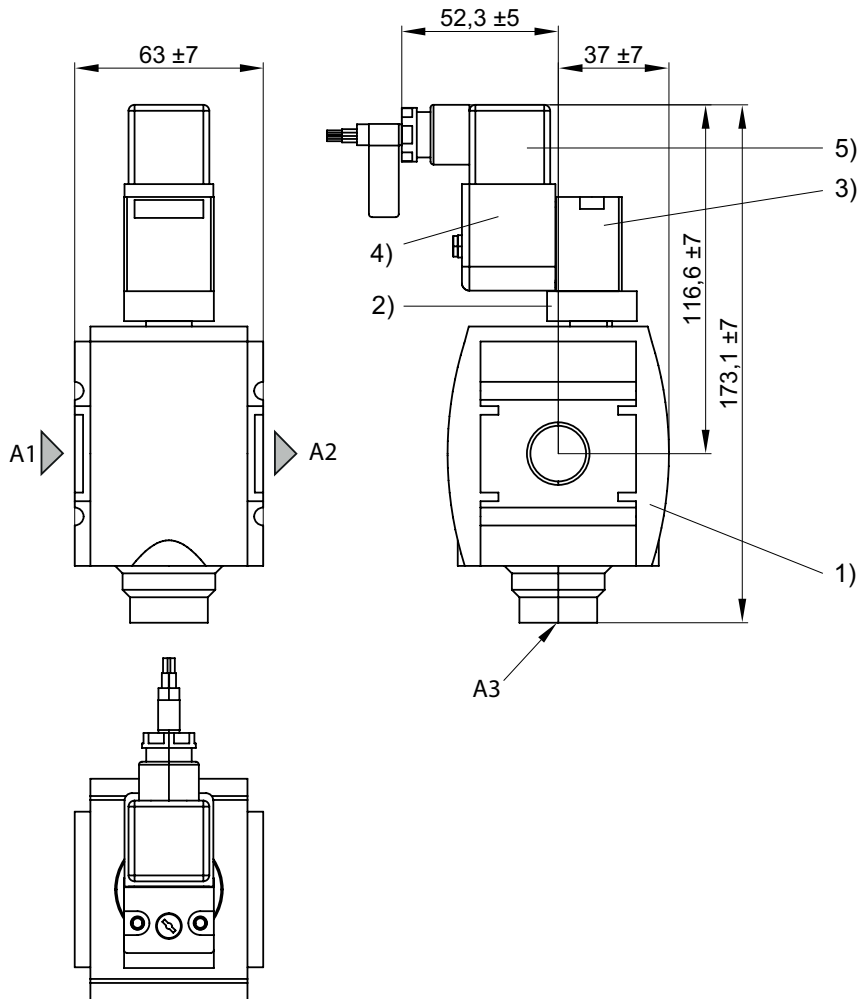
A1 = input
A2 = output
A3 = ventilation port
1) For pilot valve series DO16

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A1	A2	A3	B	C	D	F	M						
G 3/8	G 3/8	G 1/2	63	74	80	99	42.5						
G 1/2	G 1/2	G 1/2	63	74	80	99	42.5						

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Fig. 2: 3/2 directional valve with transition plate (suitable for ATEX)


A1 = input

A2 = output

A3 = ventilation port

1) Shut-off valve

2) Transition plate

3) Pilot valve

4) Coil

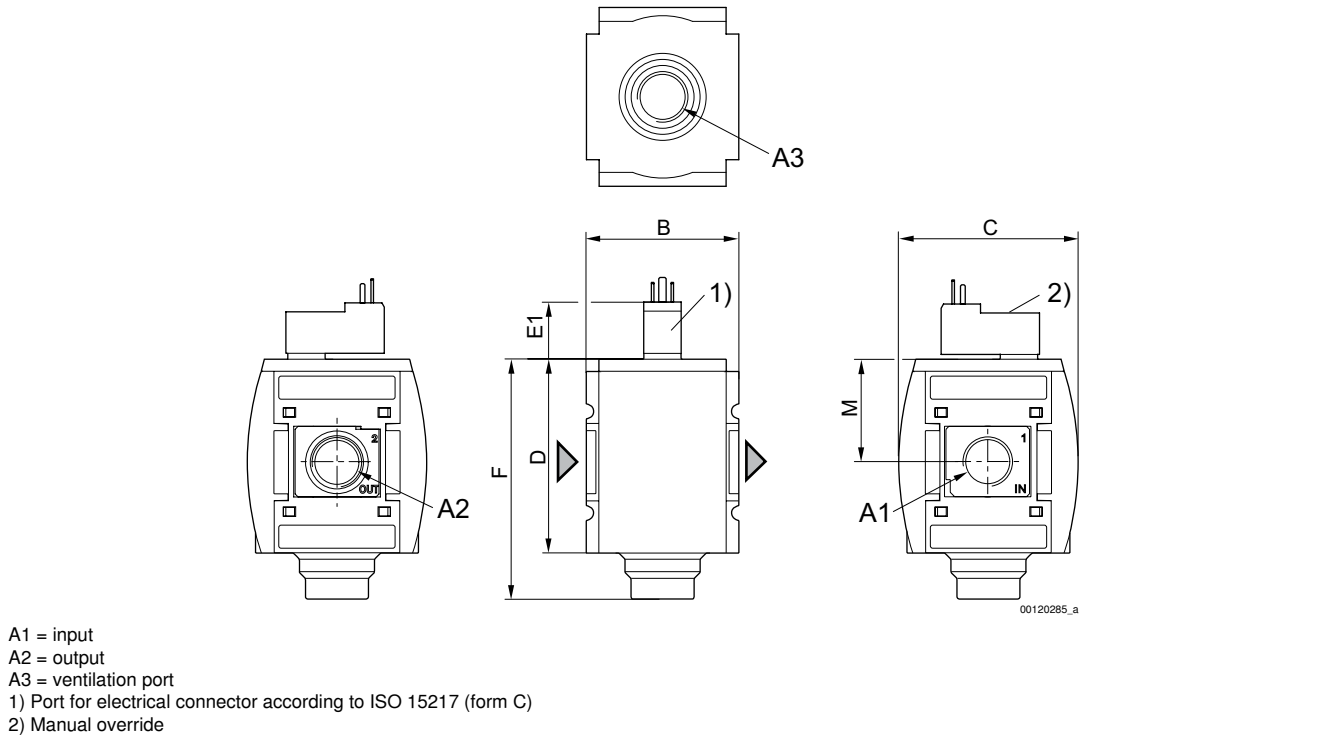
5) Electrical connector

See accessories for pilot valve and coil

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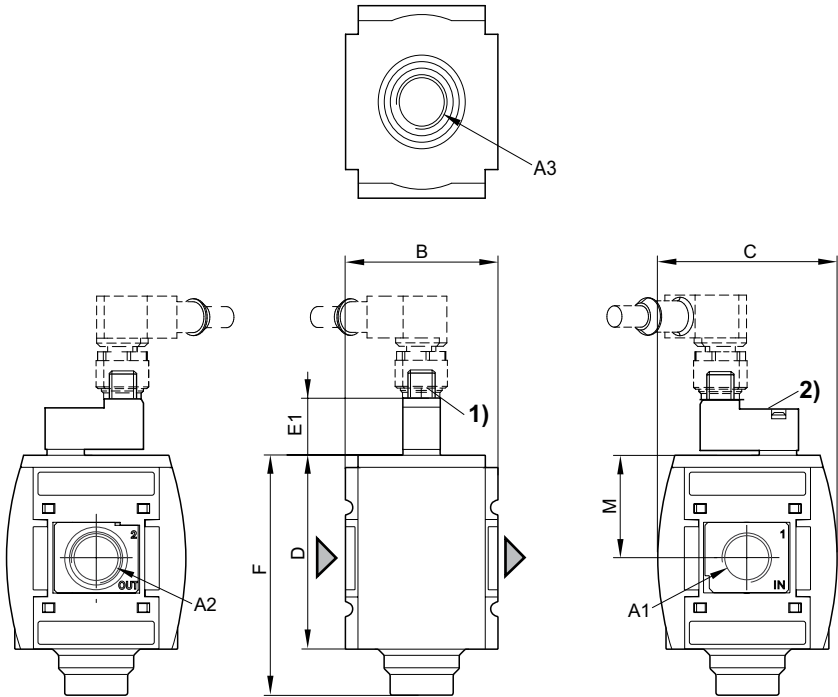
Fig. 3: 3/2-directional valve with pilot valve and port for electrical connector



A1	A2	A3	B	C	D	E1	F	M					
G 3/8	G 3/8	G 1/2	63	74	80	23.2	99	42.5					
G 1/2	G 1/2	G 1/2	63	74	80	23.2	99	42.5					

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Fig. 4: 3/2-directional valve with pilot valve and electrical connector for plug

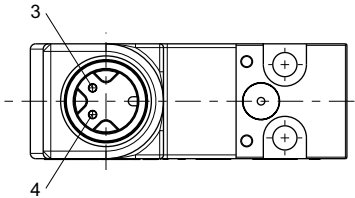


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- A1 = input
A2 = output
A3 = ventilation port
1) plug M12
2) Manual override

A1	A2	A3	B	C	D	E1	F	M					
G 3/8	G 3/8	G 1/2	63	74	80	23.2	99	42.5					
G 1/2	G 1/2	G 1/2	63	74	80	23.2	99	42.5					

Pin assignment M12x1



20438

- 3: +/-
4: +/-