

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

- Compressed air connection G 3/8 G 1/2
- Pipe connection
- ATEX optional



Type	Poppet valve, Can be assembled into blocks
Parts	3/2-directional valve, electrically operated
Nominal flow	4500 l/min
Nominal flow 1 ► 2	4500 l/min
Nominal flow 2 ► 3	3200 l/min
Working pressure min./max.	See table below
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10 ... 50 °C
Ambient temperature min./max.	-10 ... 50 °C
Sealing principle	Soft sealing
Max. particle size	25 µm
Protection class acc. to DIN EN 61140 with plug	IP65
Weight	0,459 kg

Technical data

Part No.			Compressed air connection input	Compressed air connection output	Exhaust
R412007265			G 3/8	G 3/8	G 1/2
R412007266			G 3/8	G 3/8	G 1/2
R412007267			G 3/8	G 3/8	G 1/2
R412007269			G 1/2	G 1/2	G 1/2
R412007270			G 1/2	G 1/2	G 1/2
R412007397			G 3/8	G 3/8	G 1/2
R412007271			G 1/2	G 1/2	G 1/2
R412007258		—	G 3/8	G 3/8	G 1/2
R412007264		—	G 3/8	G 3/8	G 1/2
R412007259		—	G 1/2	G 1/2	G 1/2
R412007268		—	G 1/2	G 1/2	G 1/2
R412007391			G 1/2	G 1/2	G 1/2

Part No.	Operational voltage	Operational voltage	Operational voltage
	DC	AC 50 Hz	AC 60 Hz
R412007265	24 V	-	-
R412007266	-	110 V	110 V
R412007267	-	220 V	230 V
R412007269	24 V	-	-
R412007270	-	110 V	110 V
R412007397	24 V	-	-
R412007271	-	220 V	230 V
R412007258	-	-	-

Part No.	Operational voltage	Operational voltage	Operational voltage
	DC	AC 50 Hz	AC 60 Hz
R412007264	-	-	-
R412007259	-	-	-
R412007268	-	-	-
R412007391	24 V	-	-

Part No.	Power consumption	Holding power	Holding power	Switch-on power
	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz
R412007265	2 W	-	-	-
R412007266	-	1,6 VA	1,4 VA	2,2 VA
R412007267	-	1,6 VA	1,4 VA	2,2 VA
R412007269	2 W	-	-	-
R412007270	-	1,6 VA	1,4 VA	2,2 VA
R412007397	2 W	-	-	-
R412007271	-	1,6 VA	1,4 VA	2,2 VA
R412007258	-	-	-	-
R412007264	-	-	-	-
R412007259	-	-	-	-
R412007268	-	-	-	-
R412007391	2 W	-	-	-

Part No.	Switch-on power	Working pressure min./max.	Electrical connection
	AC 60 Hz		Pilot valve
R412007265	-	2,5 ... 10 bar	Plug, ISO 15217, form C
R412007266	1,6 VA	2,5 ... 10 bar	Plug, ISO 15217, form C
R412007267	1,6 VA	2,5 ... 10 bar	Plug, ISO 15217, form C
R412007269	-	2,5 ... 10 bar	Plug, ISO 15217, form C
R412007270	1,6 VA	2,5 ... 10 bar	Plug, ISO 15217, form C
R412007397	-	2,5 ... 10 bar	Plug, M12x1
R412007271	1,6 VA	2,5 ... 10 bar	Plug, ISO 15217, form C
R412007258	-	2,5 ... 16 bar	-
R412007264	-	2,5 ... 16 bar	-
R412007259	-	2,5 ... 16 bar	-
R412007268	-	2,5 ... 16 bar	-
R412007391	-	2,5 ... 10 bar	Plug, M12x1

Part No.	Connector standard	basic valve with electrical connector
R412007265	ISO 15217	Basic valve with pilot valve
R412007266	ISO 15217	Basic valve with pilot valve
R412007267	ISO 15217	Basic valve with pilot valve
R412007269	ISO 15217	Basic valve with pilot valve
R412007270	ISO 15217	Basic valve with pilot valve
R412007397	ISO 15217	Basic valve with pilot valve
R412007271	ISO 15217	Basic valve with pilot valve
R412007258	-	Basic valve without pilot valve, with CNOMO subbase
R412007264	-	Basic valve without pilot valve
R412007259	-	Basic valve without pilot valve, with CNOMO subbase
R412007268	-	Basic valve without pilot valve

Part No.	Connector standard	basic valve with electrical connector
R412007391	EN 175301-803, form B	Basic valve with pilot valve

Part No.	Reverse polarity protection	Fig.	
R412007265	Protected against polarity reversal	Fig. 3	-
R412007266	Protected against polarity reversal	Fig. 3	-
R412007267	Protected against polarity reversal	Fig. 3	-
R412007269	Protected against polarity reversal	Fig. 3	-
R412007270	Protected against polarity reversal	Fig. 3	-
R412007397	Protected against polarity reversal	Fig. 4	-
R412007271	Protected against polarity reversal	Fig. 3	-
R412007258	-	Fig. 2	1)
R412007264	-	Fig. 1	1)
R412007259	-	Fig. 2	1)
R412007268	-	Fig. 1	1)
R412007391	-	Fig. 4	2)

Nominal flow Q_n with secondary pressure p₂ = 6 bar at Δp = 1 bar

1) Suitable for use in Ex zones 1, 2, 21, 22.

2) With valve plug connector, EN 175301-803, form B

Technical information

The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

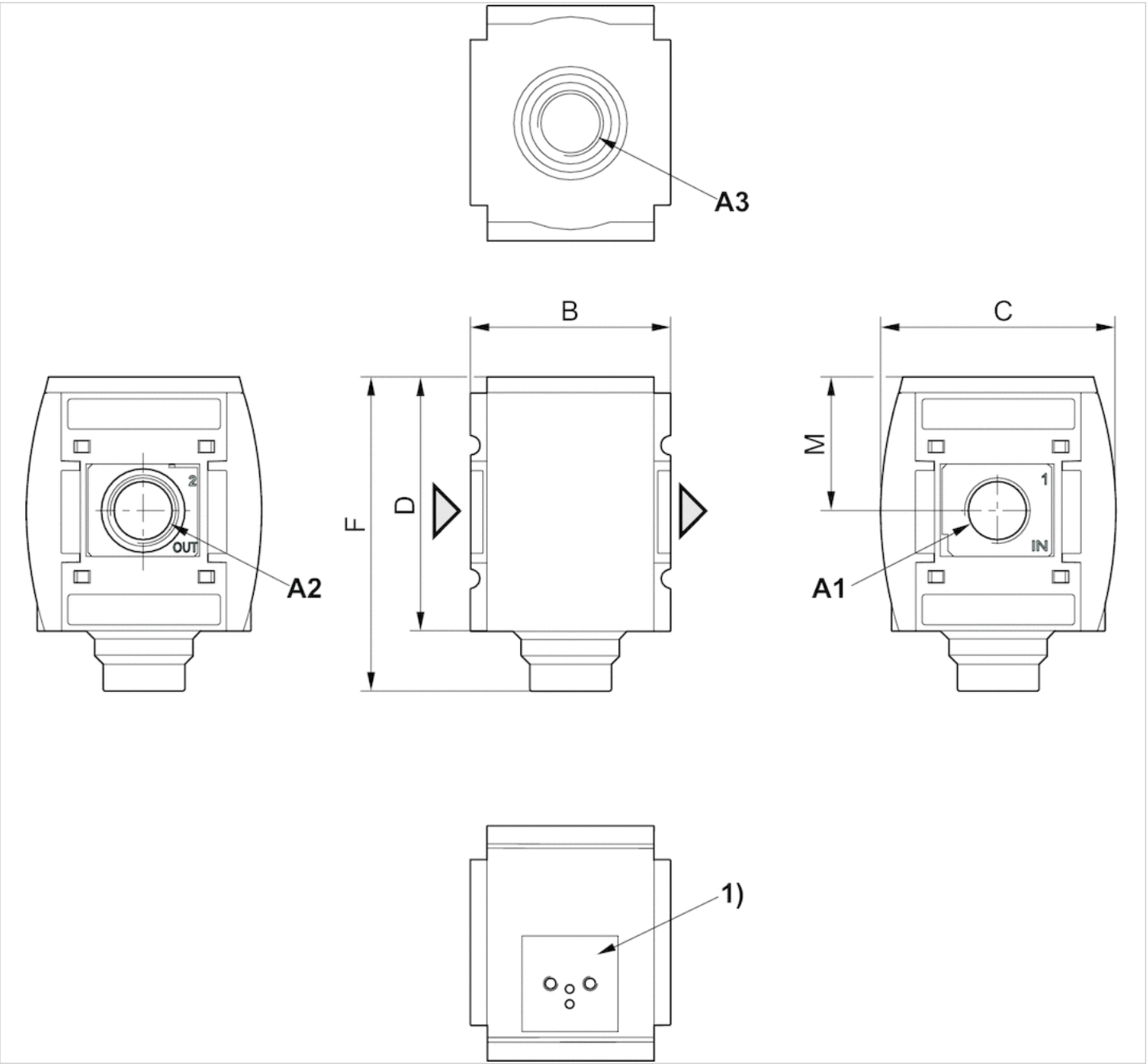
ATEX optional: The ATEX ID depends on the selected pilot valve.

Technical information

Material	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber
Threaded bushing	Die cast zinc

Dimensions

3/2-directional valve without pilot valve with porting configuration for series DO16



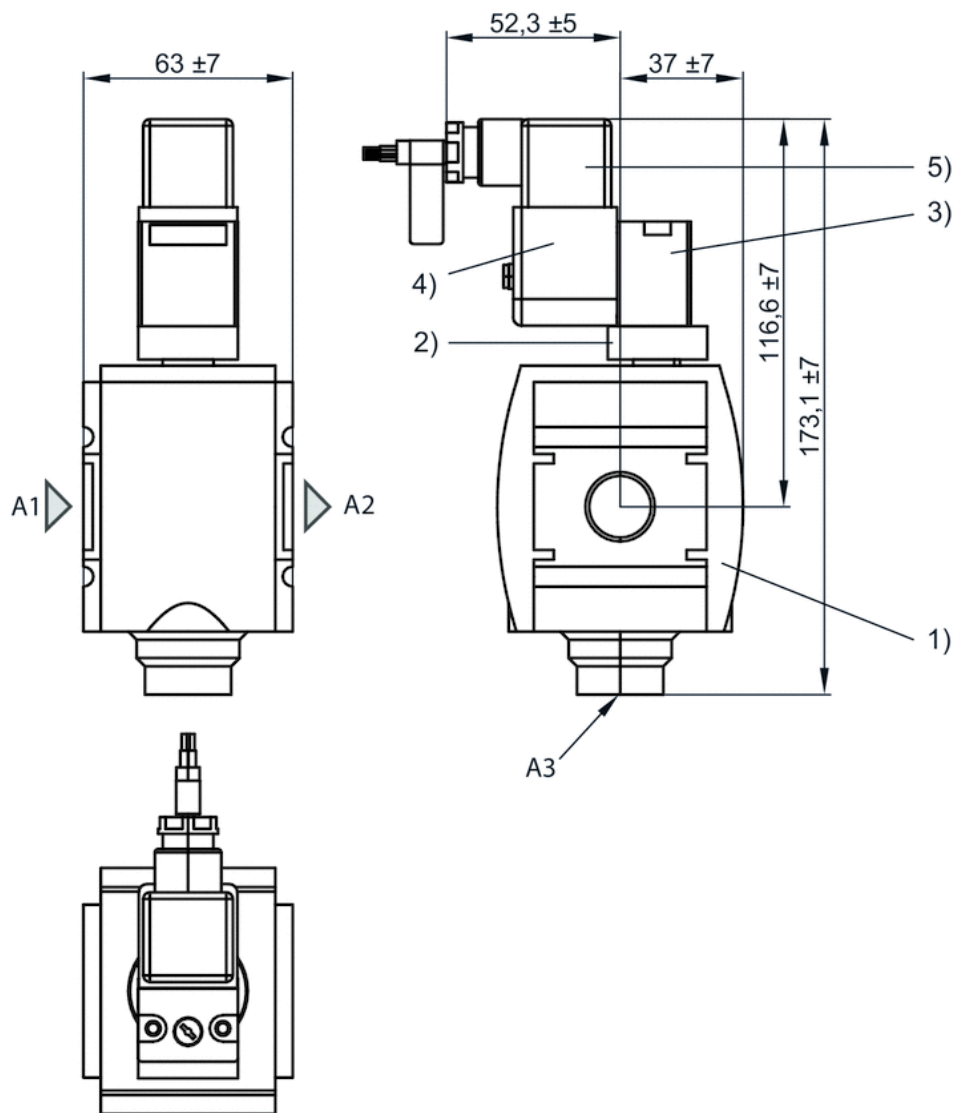
A1 = input
A2 = output
A3 = ventilation port
1) For pilot valve series DO16

Dimensions in mm

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

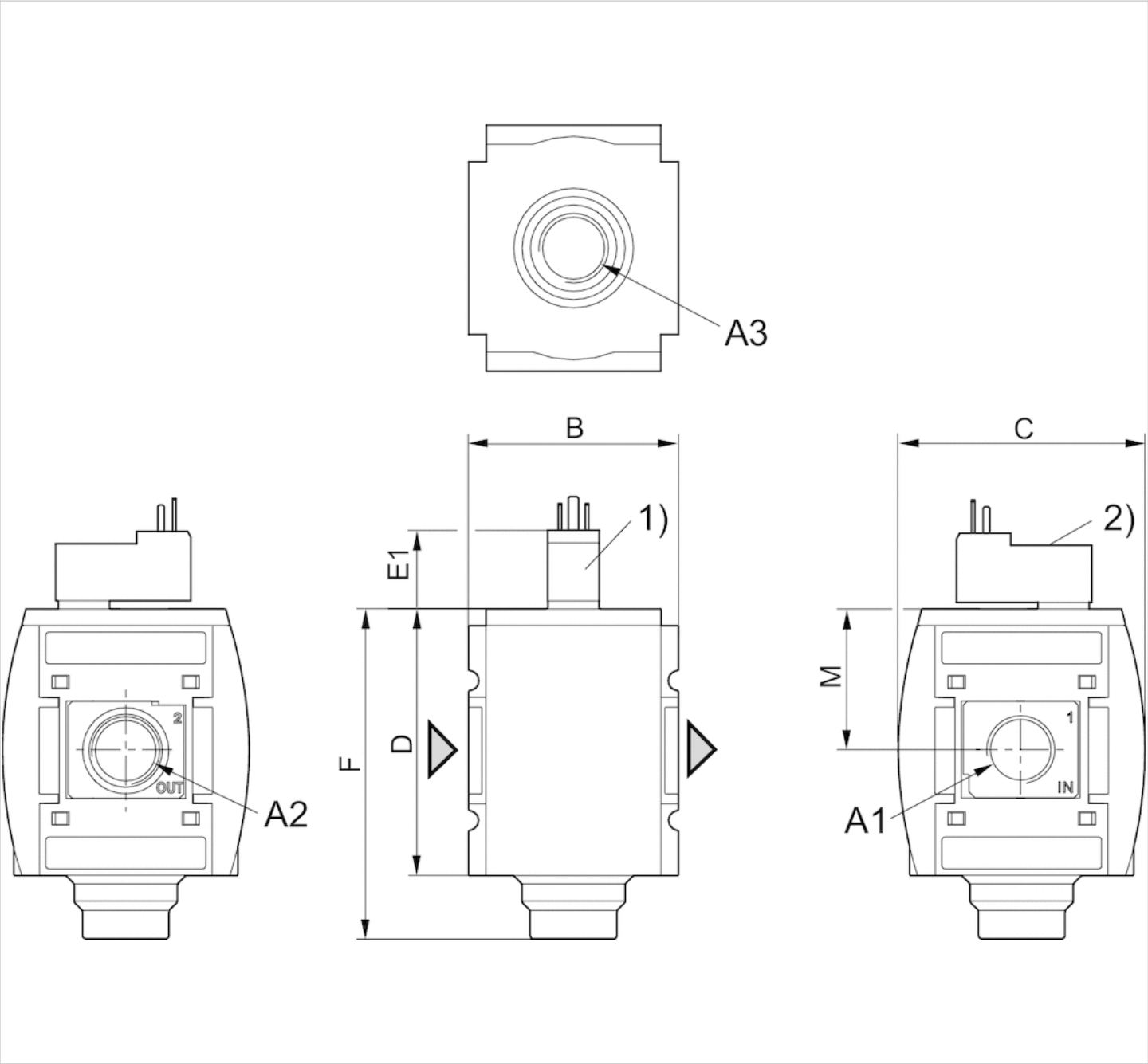
Dimensions

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

Fig. 3: 3/2 directional valve with pilot valve and connection for valve plug connector



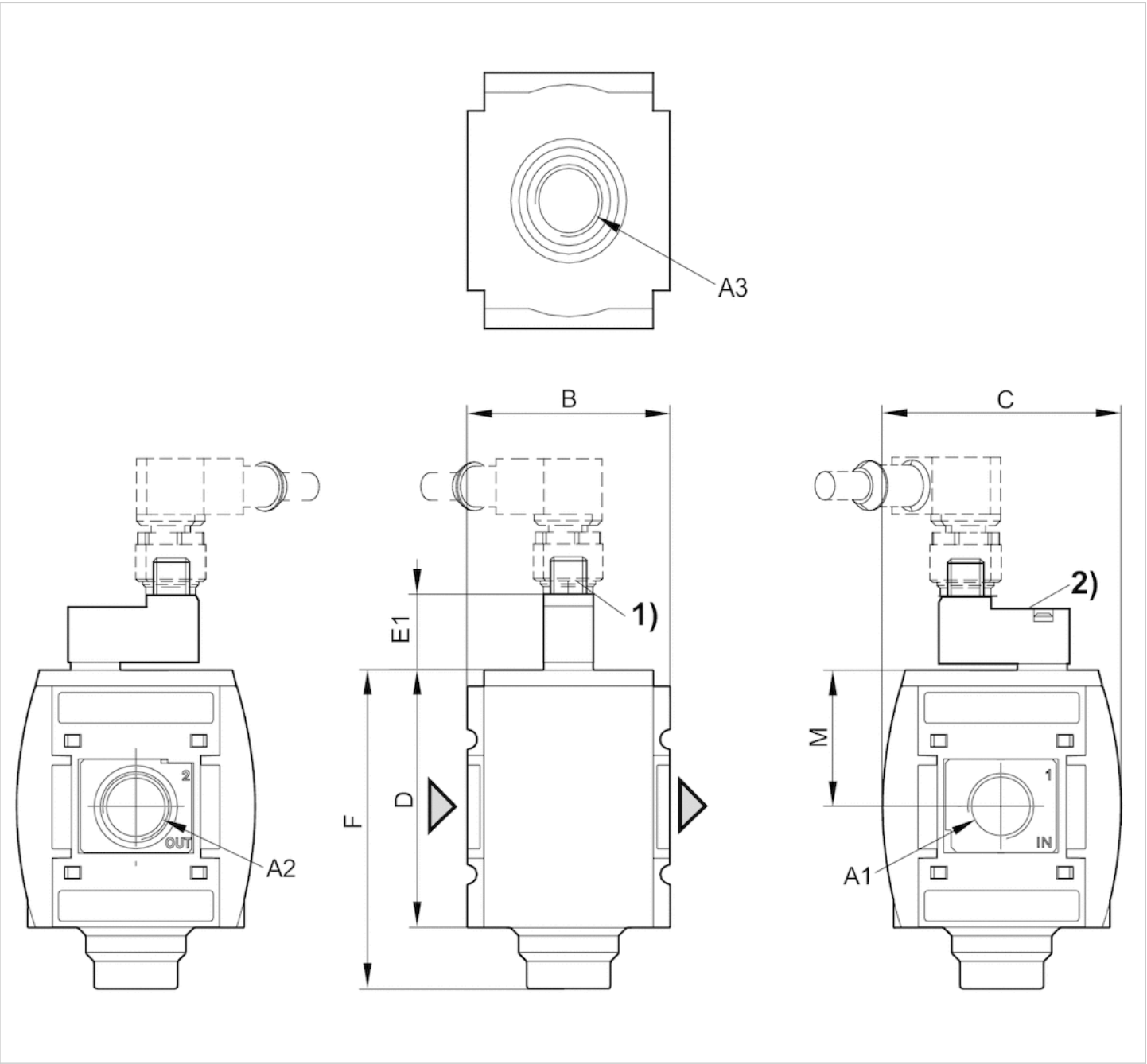
- A1 = input
A2 = output
A3 = ventilation port
1) Connection for valve plug connector according to ISO 15217 (form C)
2) Manual override

Dimensions in mm

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

Dimensions

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



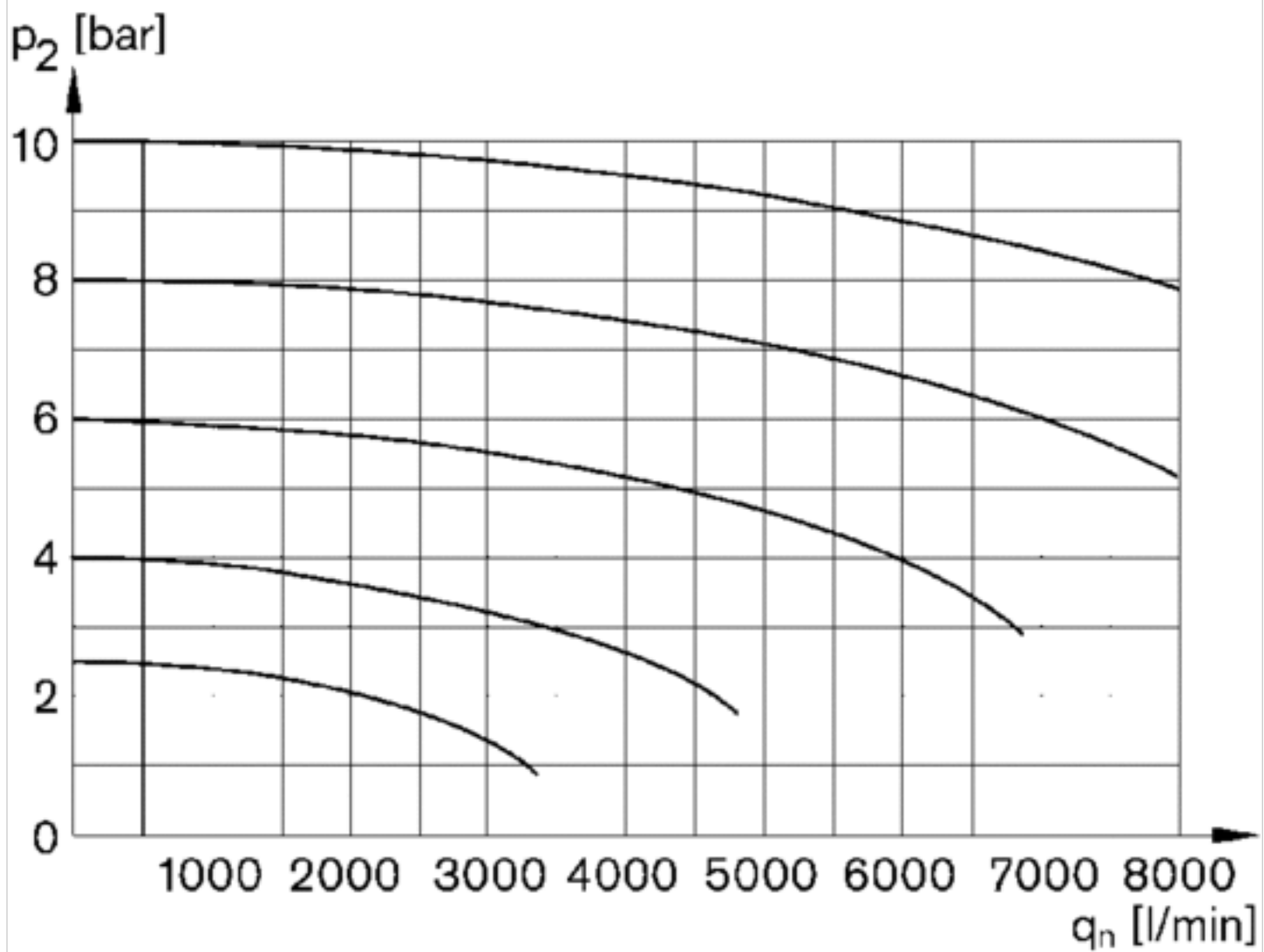
- A1 = input
- A2 = output
- A3 = ventilation port
- 1) plug M12
- 2) Manual override

Dimensions in mm

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

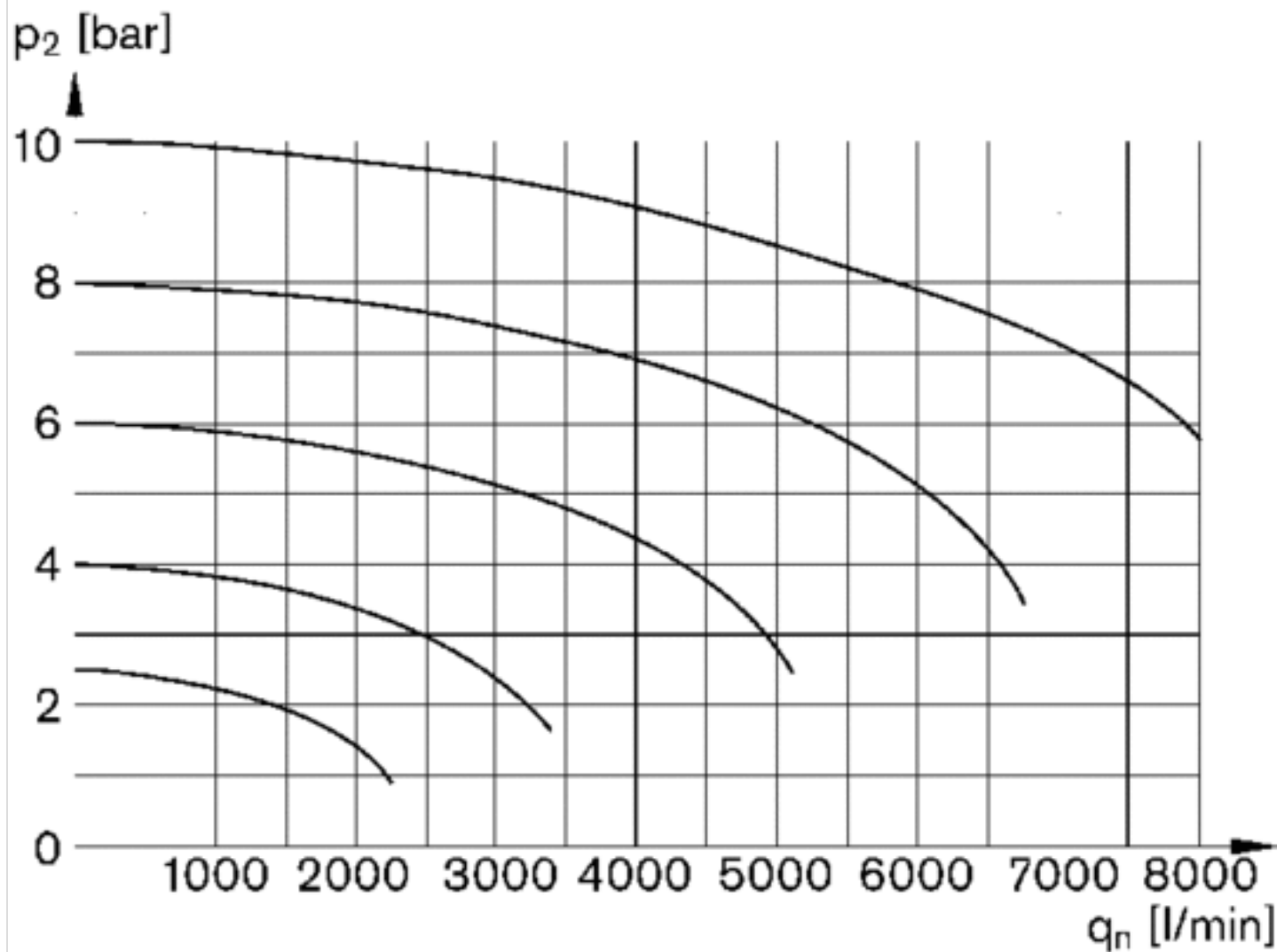
Diagrams

Flow rate characteristic



p_2 = secondary pressure
 q_n = nominal flow

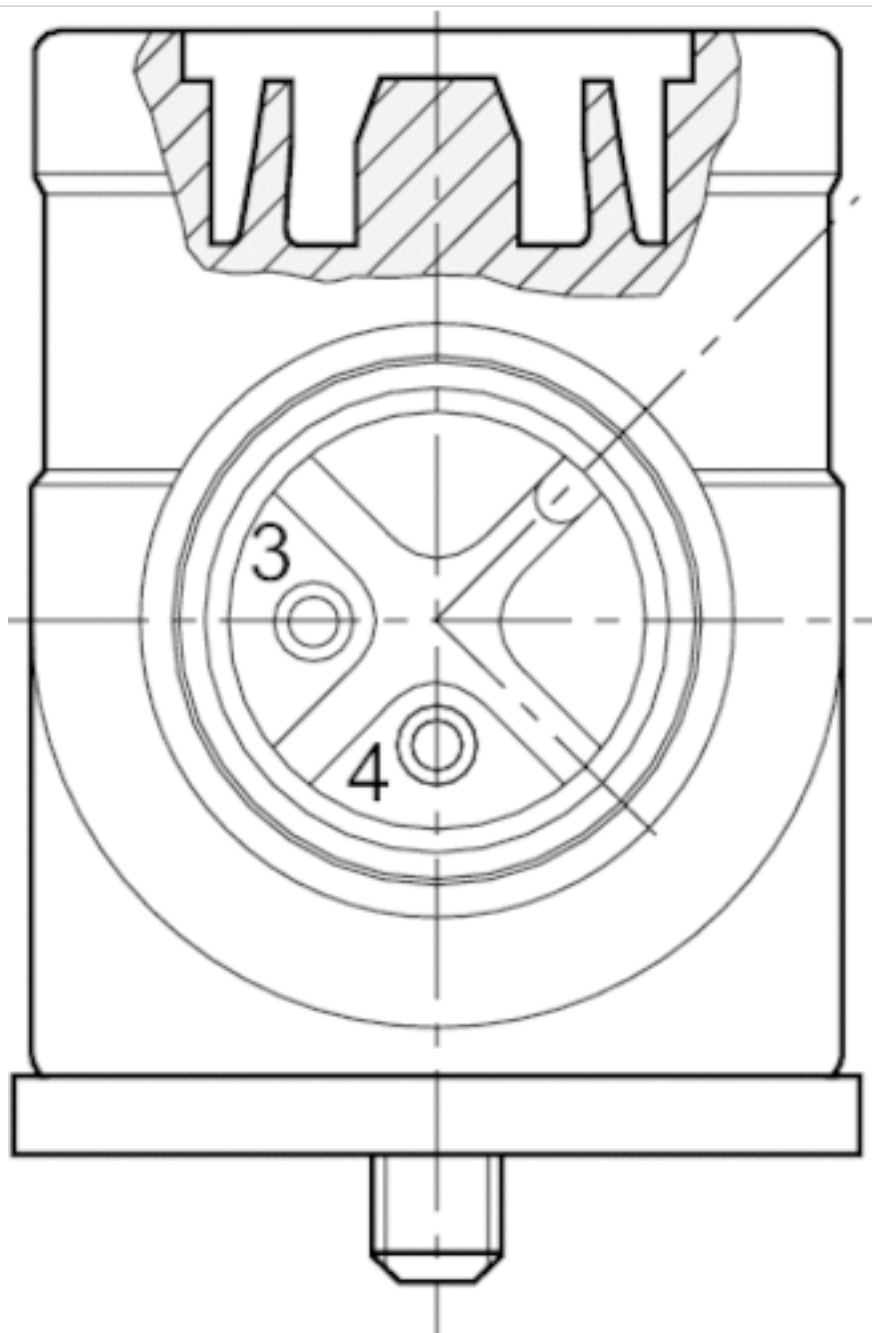
Rear exhaust



p_2 = secondary pressure

q_n = nominal flow

Pin assignment M12x1

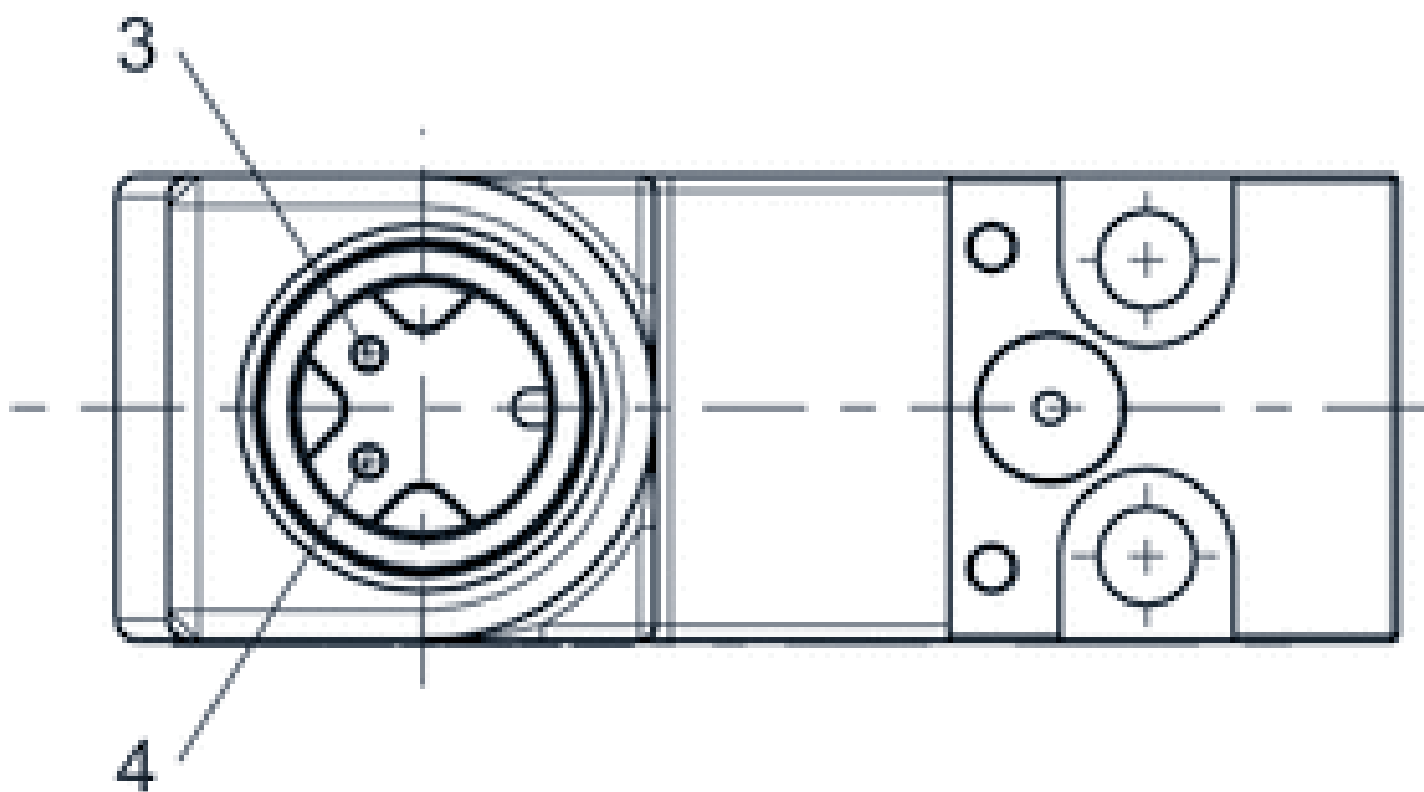


(3) ▶ (1)

(4) ▶ (2)

Pin assignments

Pin assignment M12x1



3: +/-

4: +/-

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