

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

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



Version	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.	2,5 ... 10 bar
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.	Operationalvoltage	Operationalvoltage	Operationalvoltage	Power consumption
	DC	AC 50 Hz	AC 60 Hz	DC
R412007265	24 V	-	-	2 W
R412007266	-	110 V	110 V	-
R412007267	-	220 V	230 V	-
R412007269	24 V	-	-	2 W
R412007270	-	110 V	110 V	-
R412007397	24 V	-	-	2 W
R412007271	-	220 V	230 V	-
R412007258	-	-	-	-



Part No.	Operationalvoltage	Operationalvoltage	Operationalvoltage	Power consumption
	DC	AC 50 Hz	AC 60 Hz	DC
R412007264	-	-	-	-
R412007259	-	-	-	-
R412007268	-	-	-	-
R412007391	24 V	-	-	2 W

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

Part No.	Electrical connection	Connector standard
	Pilot valve	
R412007265	Plug, ISO 15217, form C	ISO 15217
R412007266	Plug, ISO 15217, form C	ISO 15217
R412007267	Plug, ISO 15217, form C	ISO 15217
R412007269	Plug, ISO 15217, form C	ISO 15217
R412007270	Plug, ISO 15217, form C	ISO 15217
R412007397	Plug, M12x1	ISO 15217
R412007271	Plug, ISO 15217, form C	ISO 15217
R412007258	-	-
R412007264	-	-
R412007259	-	-
R412007268	-	-
R412007391	Plug, M12x1	EN 175301-803, form B

Part No.	basic valve with electrical connector
R412007265	Basic valve with pilot valve
R412007266	Basic valve with pilot valve
R412007267	Basic valve with pilot valve
R412007269	Basic valve with pilot valve
R412007270	Basic valve with pilot valve
R412007397	Basic valve with pilot valve
R412007271	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
R412007391	Basic valve with pilot valve

Nominal flow Qn 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

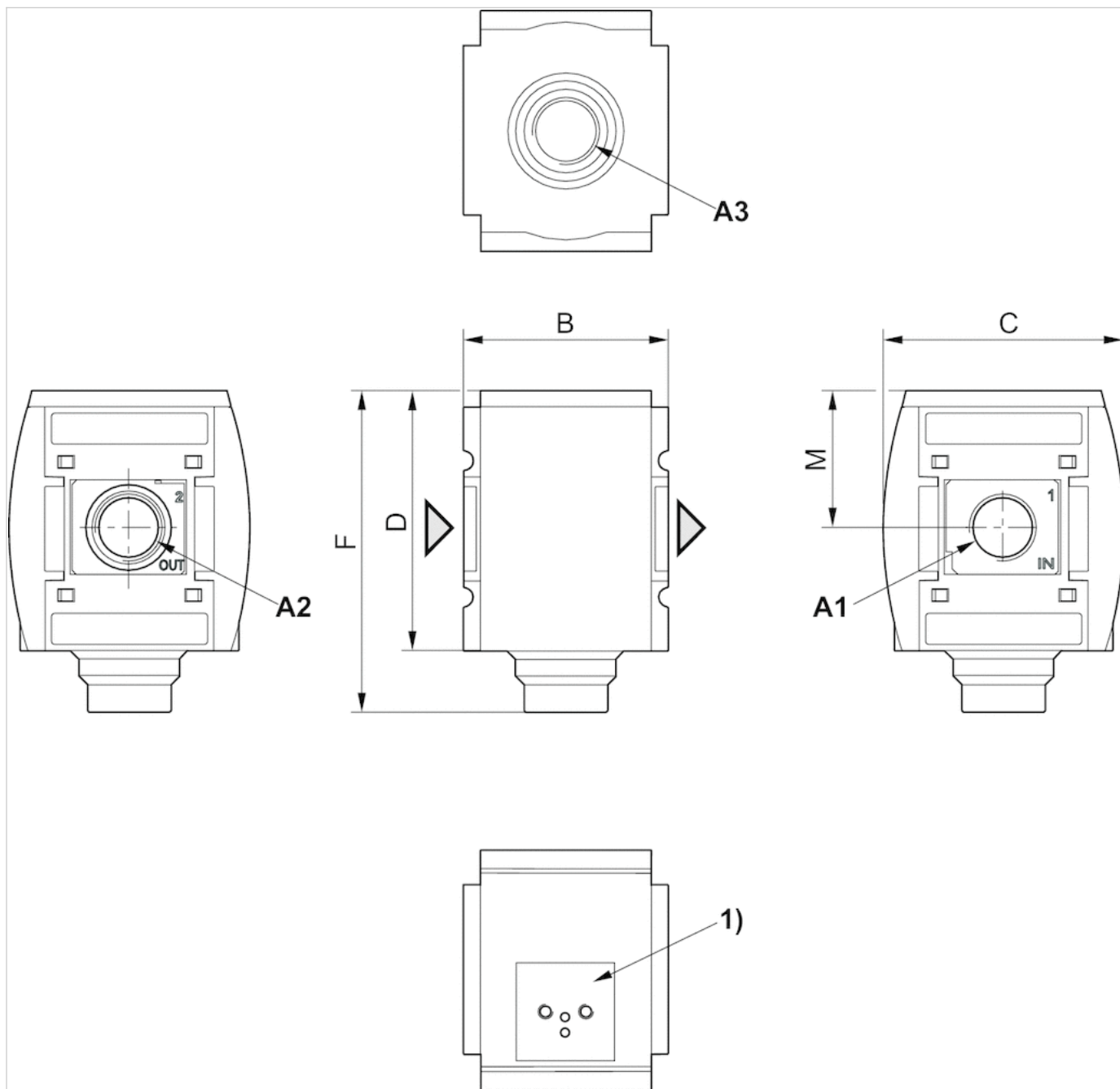
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
ATEX optional: The ATEX ID depends on the selected pilot valve.
A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

Technical information

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

Dimensions

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



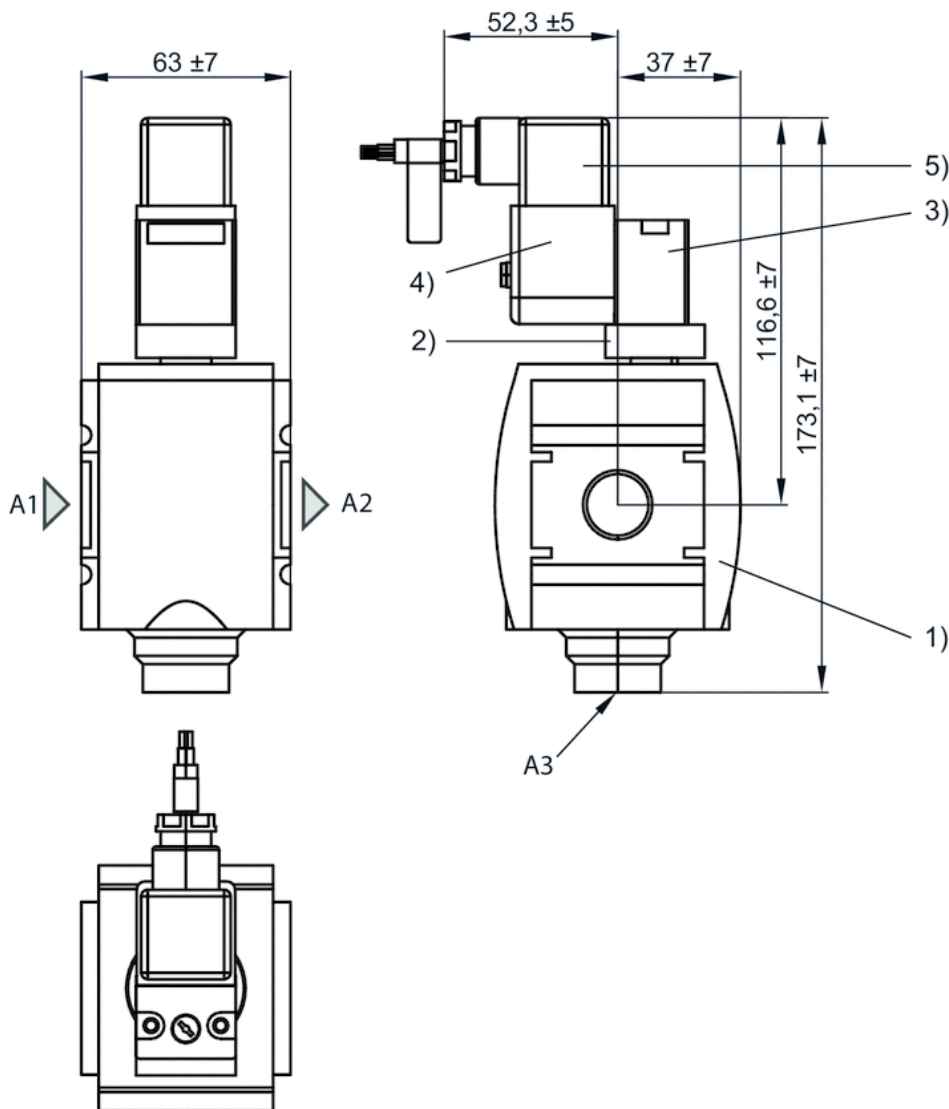
A1 = input
A2 = output
A3 = ventilation port
1) For pilot valve series DO16

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)



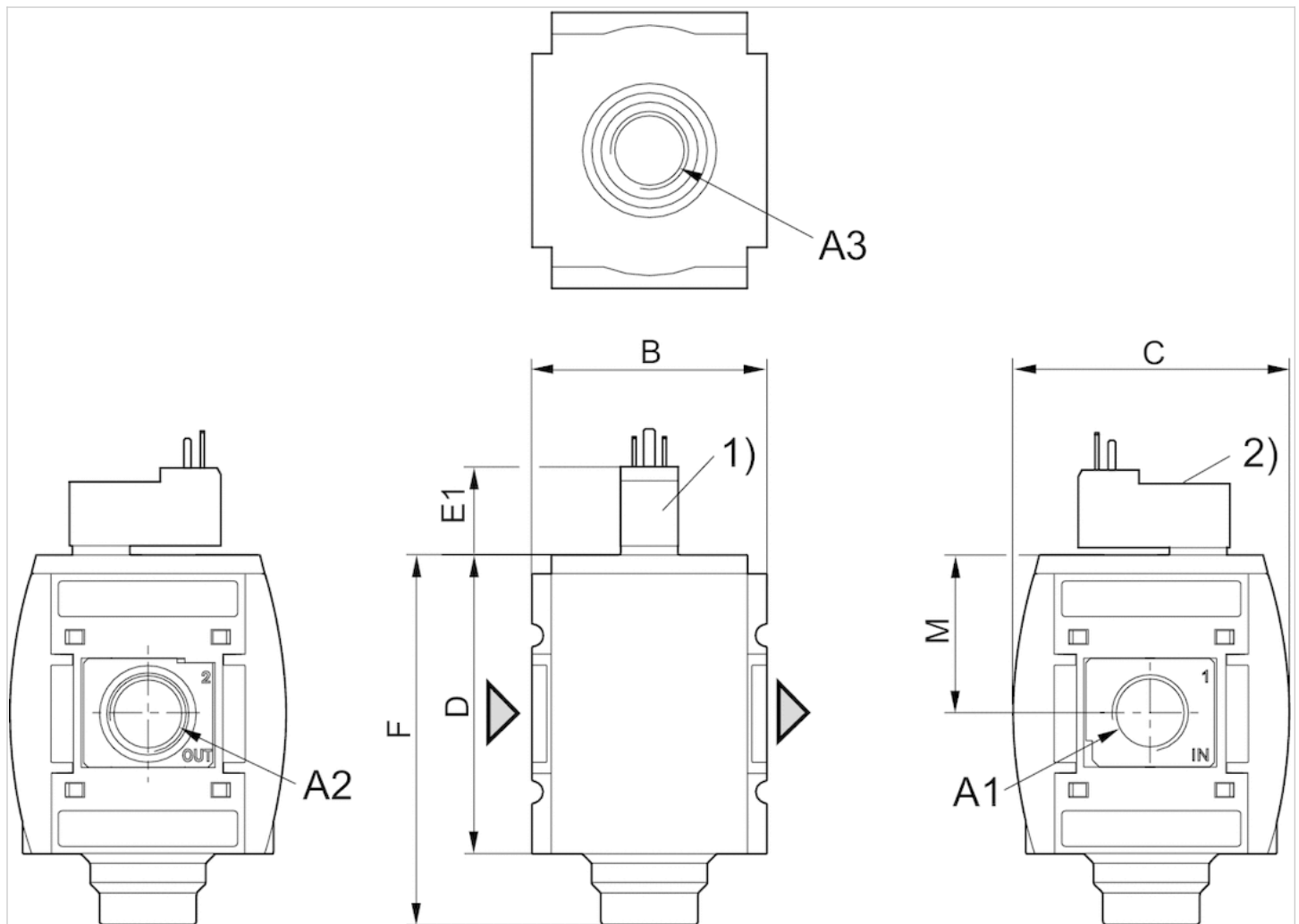
A1 = input A2 = output

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)

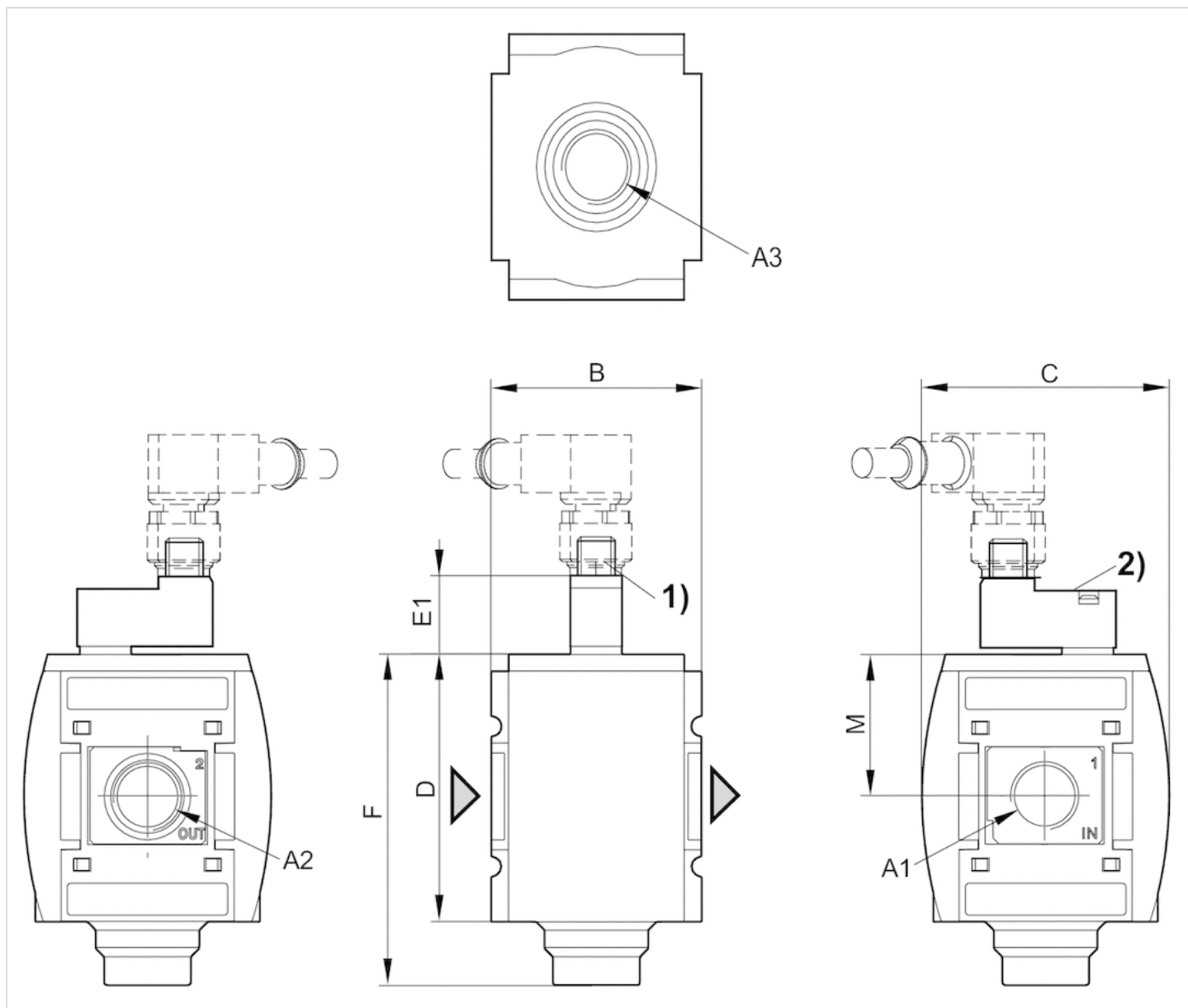
2) Manual override

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

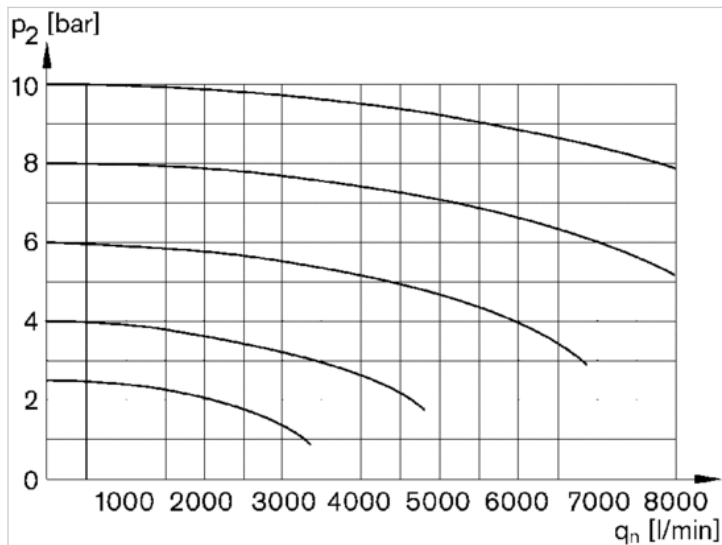
2) Manual override

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

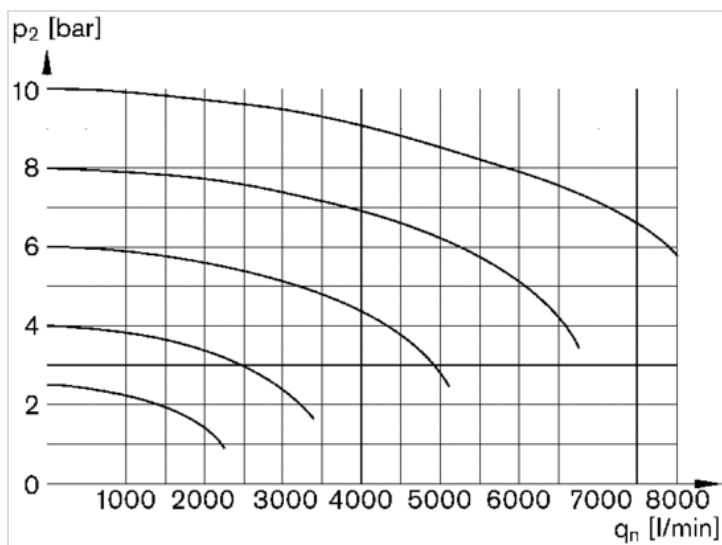
Diagrams

Flow rate characteristic



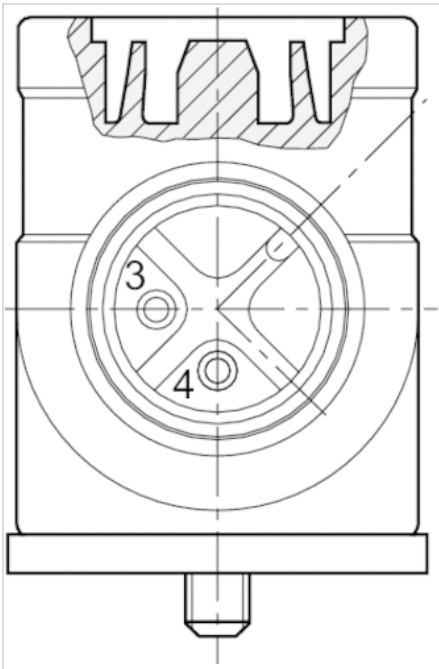
p_2 = secondary pressure
 q_n = nominal flow

Rear exhaust



p_2 = secondary pressure
 q_n = nominal flow

Pin assignment M12x1

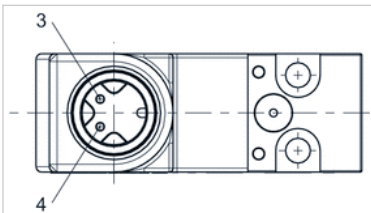


(3) ▶ (1)

(4) ▶ (2)

Pin assignments

Pin assignment M12x1



3: +/-

4: +/-