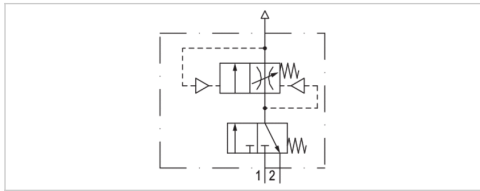




















Filling unit, electrically operated, Series AS5-SSU

- Compressed air connection G 3/4
- Pipe connection
- ATEX optional



Version	Poppet valve, Can be assembled into blocks
Parts	Filling valve, 3/2-directional valve, electrically operated
Nominal flow	8750 l/min
Nominal flow 1 ▶ 2	8750 l/min
Nominal flow 2 ▶ 3	3700 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
Pilot	internal
Sealing principle	Soft sealing
Max. particle size	25 µm
Protection class acc. to DIN EN 61140 with plug	IP65
Protection class acc. to DIN EN 61140 Without valve plug connector	See table
Duty cycle	100 %
Weight	See table

Technical data

Part No.			Compressed air connection input	Compressed air connection output	Exhaust
R412009277		—	G 3/4	G 3/4	G 1/2
R412009286		—	G 3/4	G 3/4	G 1/2
R412009282		—	G 1	G 1	G 1/2
R412009287		—	G 1	G 1	G 1/2
R412009278			G 3/4	G 3/4	G 1/2
R412009279			G 3/4	G 3/4	G 1/2
R412009280			G 3/4	G 3/4	G 1/2
R412009378			G 1	G 1	G 1/2
R412009283			G 1	G 1	G 1/2
R412009284			G 1	G 1	G 1/2
R412009285			G 1	G 1	G 1/2

Part No.	Operationalvoltage	Operationalvoltage	Operationalvoltage	Power consumption
	DC	AC 50 Hz	AC 60 Hz	DC
R412009277	-	-	-	-
R412009286	-	-	-	-
R412009282	-	-	-	-
R412009287	-	-	-	-
R412009278	24 V	-	-	2 W
R412009279	-	110 V	110 V	-
R412009280	-	220 V	230 V	-
R412009378	24 V	-	-	2 W
R412009283	24 V	-	-	2 W
R412009284	-	110 V	110 V	-
R412009285	-	220 V	230 V	-

Part No.	Holding power	Holding power	Switch-on power	Switch-on power
	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
R412009277	-	-	-	-
R412009286	-	-	-	-
R412009282	-	-	-	-
R412009287	-	-	-	-
R412009278	-	-	-	-
R412009279	1,6 VA	1,4 VA	2,2 VA	1,6 VA
R412009280	1,6 VA	1,4 VA	2,2 VA	1,6 VA
R412009378	-	-	-	-
R412009283	-	-	-	-
R412009284	1,6 VA	1,4 VA	2,2 VA	1,6 VA
R412009285	1,6 VA	1,4 VA	2,2 VA	1,6 VA

Part No.	Electrical connection	Connector standard
	Pilot valve	
R412009277	-	-
R412009286	-	-
R412009282	-	-
R412009287	-	-

Part No.	Electrical connection	Connector standard
	Pilot valve	
R412009278	Plug, EN 175301-803, form C	ISO 15217
R412009279	Plug, EN 175301-803, form C	ISO 15217
R412009280	Plug, EN 175301-803, form C	ISO 15217
R412009378	Plug, M12x1	-
R412009283	Plug, EN 175301-803, form C	ISO 15217
R412009284	Plug, EN 175301-803, form C	ISO 15217
R412009285	Plug, EN 175301-803, form C	ISO 15217

Part No.	basic valve with electrical connector
R412009277	Basic valve without pilot valve
R412009286	Basic valve without pilot valve, with CNOMO subbase
R412009282	Basic valve without pilot valve
R412009287	Basic valve without pilot valve, with CNOMO subbase
R412009278	Basic valve with pilot valve
R412009279	Basic valve with pilot valve
R412009280	Basic valve with pilot valve
R412009378	Basic valve with pilot valve
R412009283	Basic valve with pilot valve
R412009284	Basic valve with pilot valve
R412009285	Basic valve with pilot valve

Technical information

2) With adjustment screw lock

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

Builds up pressure slowly in the pneumatic systems, i.e. prevents a sudden pressure build-up during a restart after a mains pressure failure or avoids emergency OFF switching. This also avoids dangerous, jerky cylinder movements.

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

Do not position filling valves or filling units upstream of open consumers, such as nozzles, air barriers, air curtains, since these may prevent through connection of components.

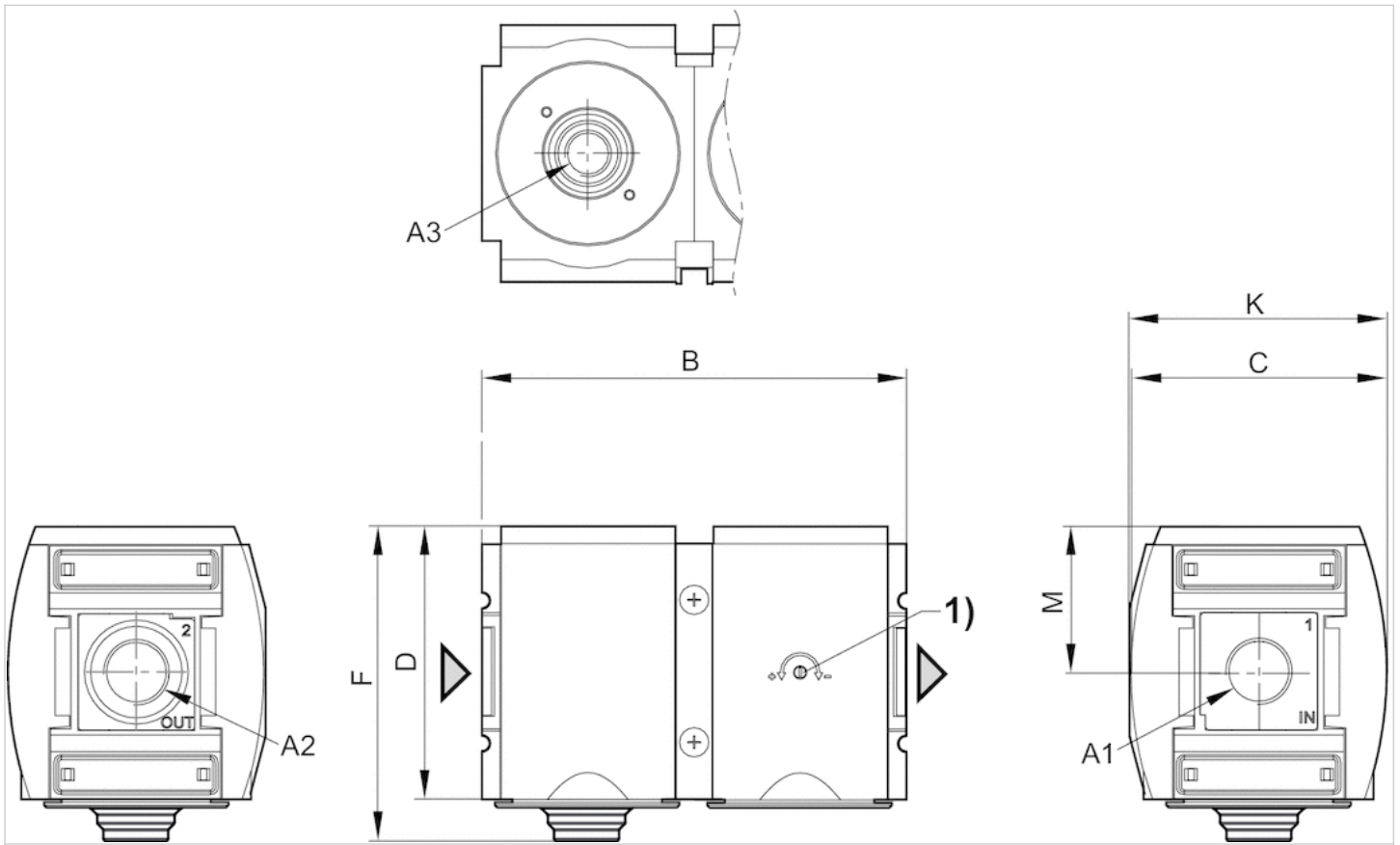
A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

Technical information

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

Dimensions

Fig. 1: Filling unit without pilot valve with porting configuration for series DO16



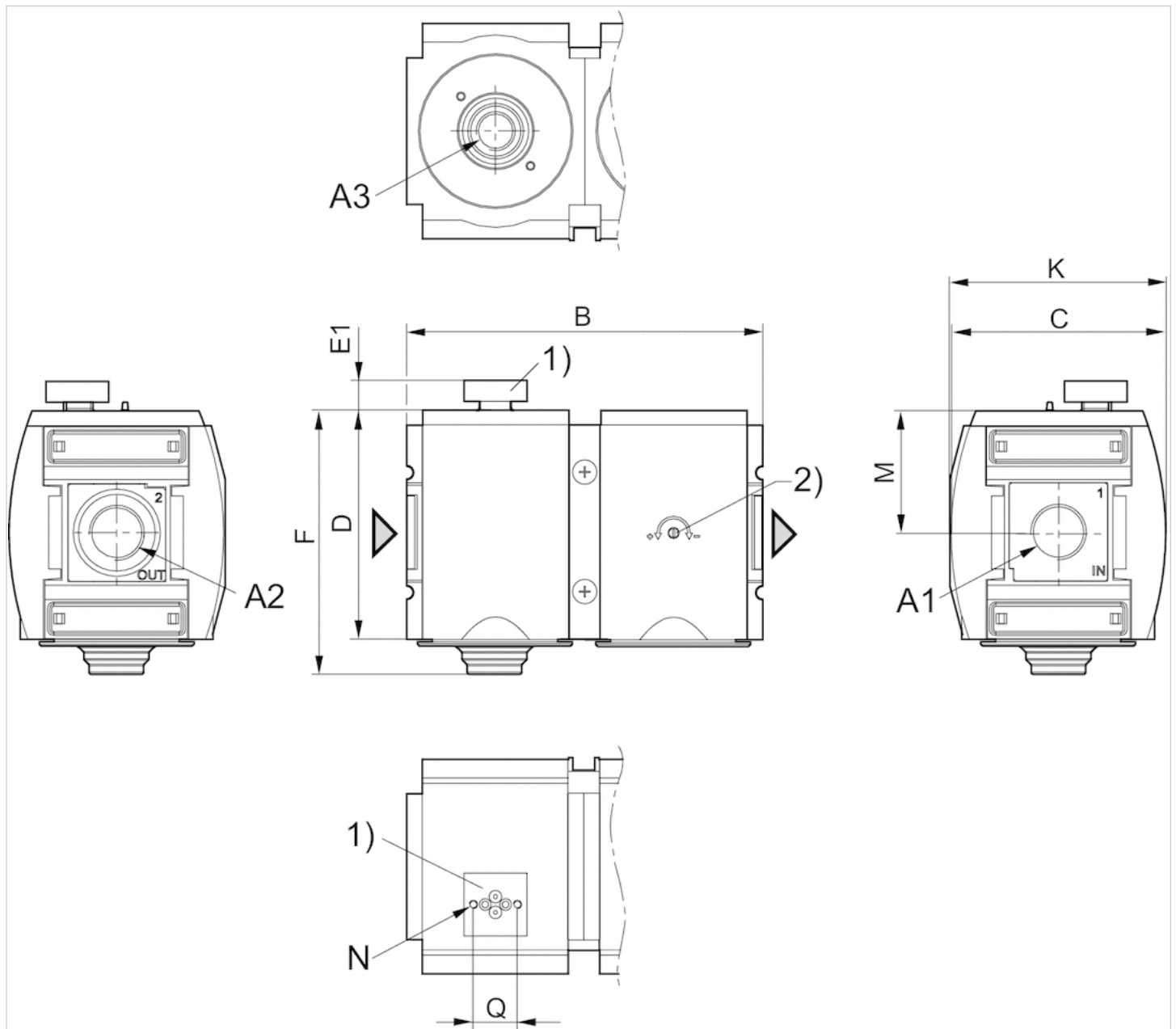
A1 = input A2 = output A3 = ventilation port
1) Adjustment screw for filling time

Dimensions in mm

A2	A3	B	C	D	F	K	M
G 3/4	G 1/2	170	103	109	125	103.5	58
G 1	G 1/2	170	103	109	125	103.5	58

Dimensions

Fig. 2: Filling unit with transition plate for pilot valve series DO30



A1 = input A2 = output A3 = ventilation port

1) Transition plate with CNOMO porting configuration for pilot valve DO30

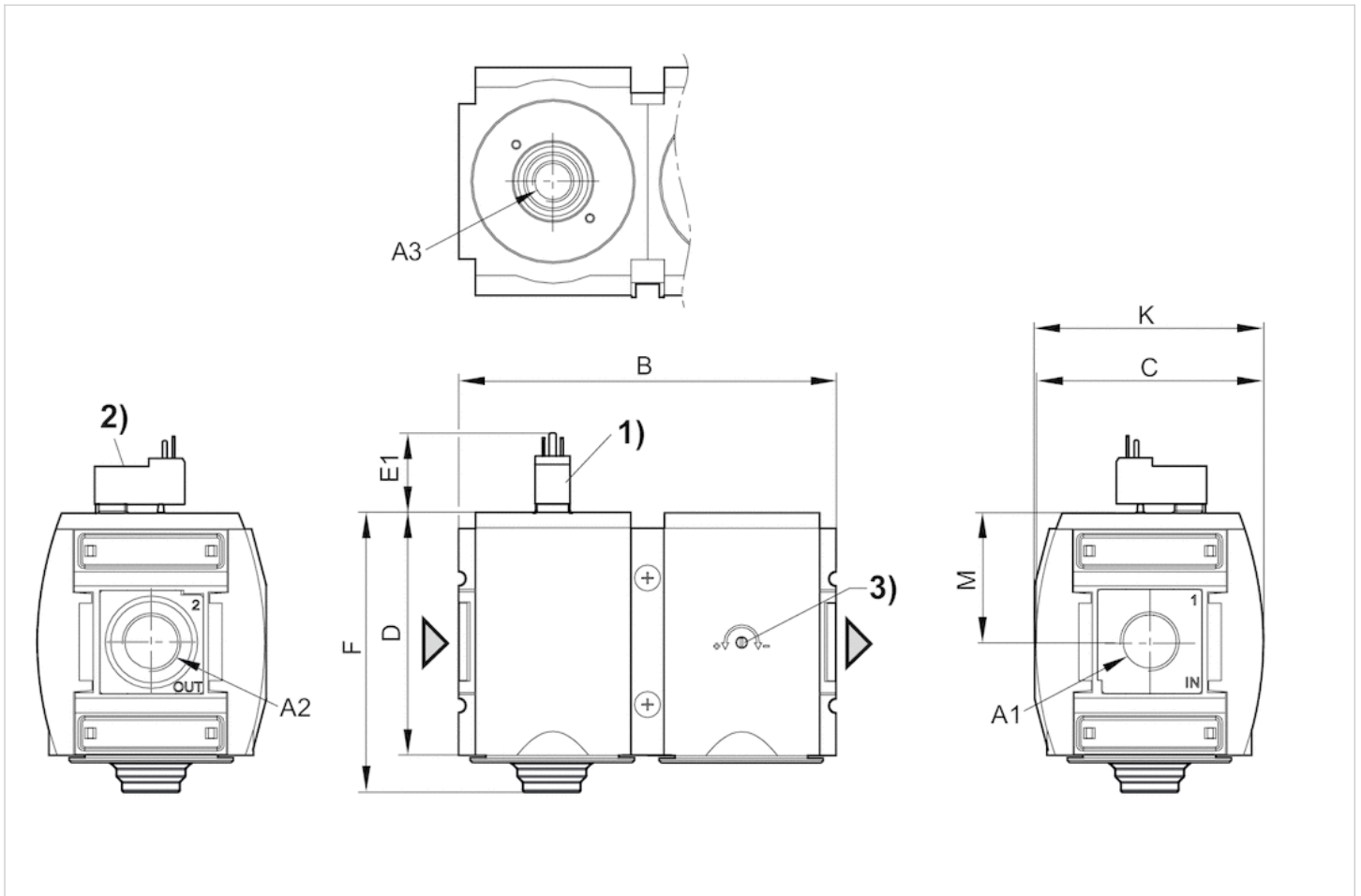
2) Adjustment screw for filling time

Dimensions in mm

A1	A2	A3	B	C	D	E1	F	K	M	N	Q
G 3/4	G 3/4	G 1/2	170	103	109	14.2	125	103.5	58	M4	21
G 1	G 1	G 1/2	170	103	109	14.2	125	103.5	58	M4	21

Dimensions

Fig. 3: Filling unit with pilot valve and port for electrical connector form C



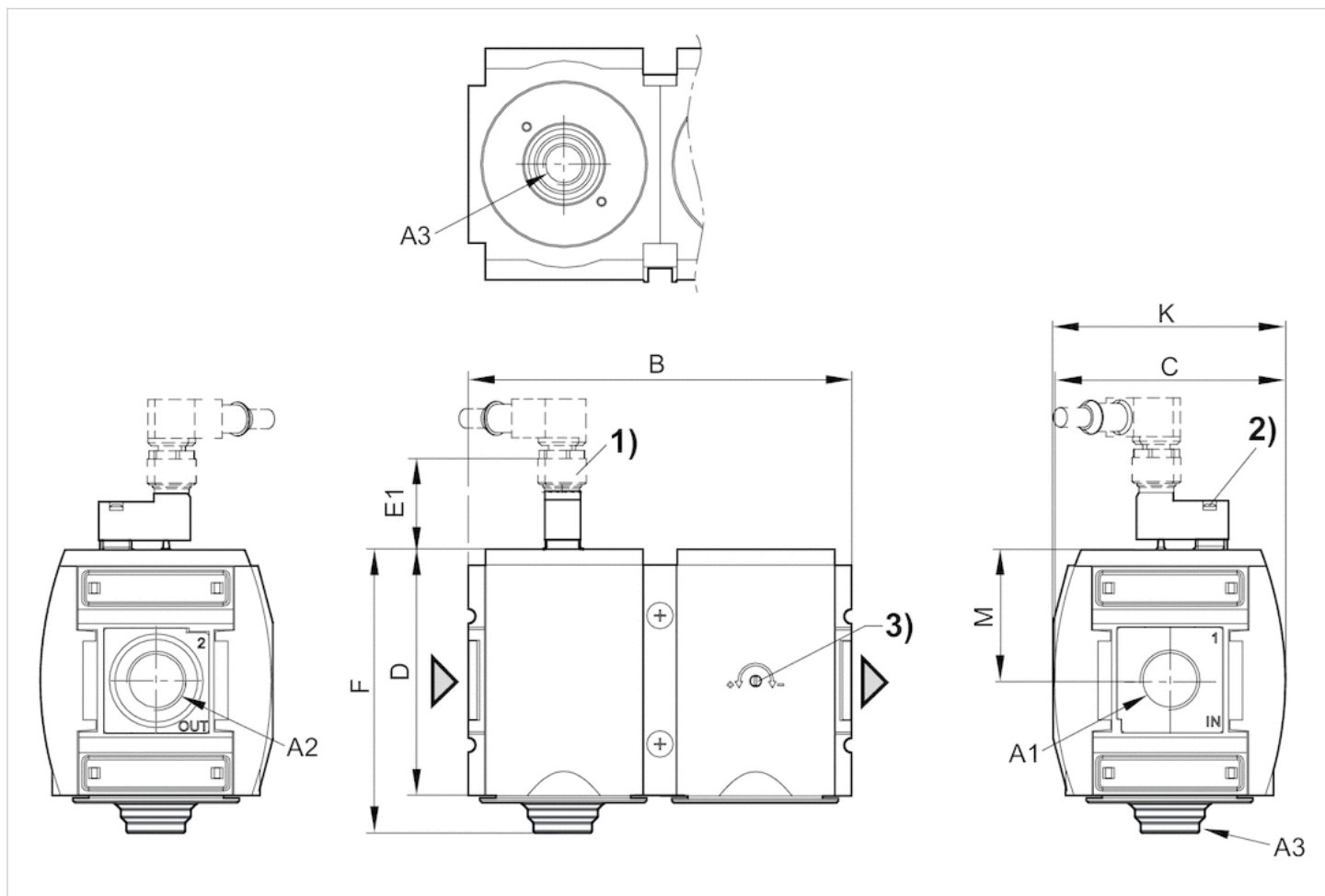
- A1 = input
- A2 = output
- A3 = ventilation port
- 1) Connection for valve plug connector according to ISO 15217 (form C)
- 2) Manual override
- 3) Adjustment screw for filling time

Dimensions in mm

A1	A2	A3	B	C	D	E1	F	K	M
G 3/4	G 3/4	G 1/2	170	103	109	25.1	125	103.5	58
G 1	G 1	G 1/2	170	103	109	25.1	125	103.5	58

Dimensions

Fig. 4: Filling unit with pilot valve push-in fitting M12x1



A1 = input A2 = output A3 = ventilation port

1) plug M12

2) Manual override

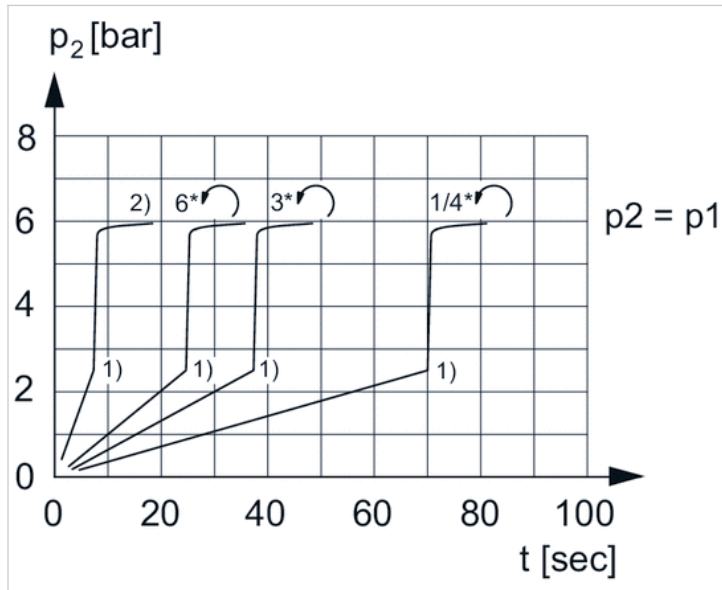
3) Adjustment screw for filling time

Dimensions in mm

A1	A2	A3	B	C	D	E1	F	M
G 1	G 1	G 1/2	170	103	109	39	125	58

Diagrams

Secondary pressure while filling



p_1 = working pressure

p_2 = secondary pressure

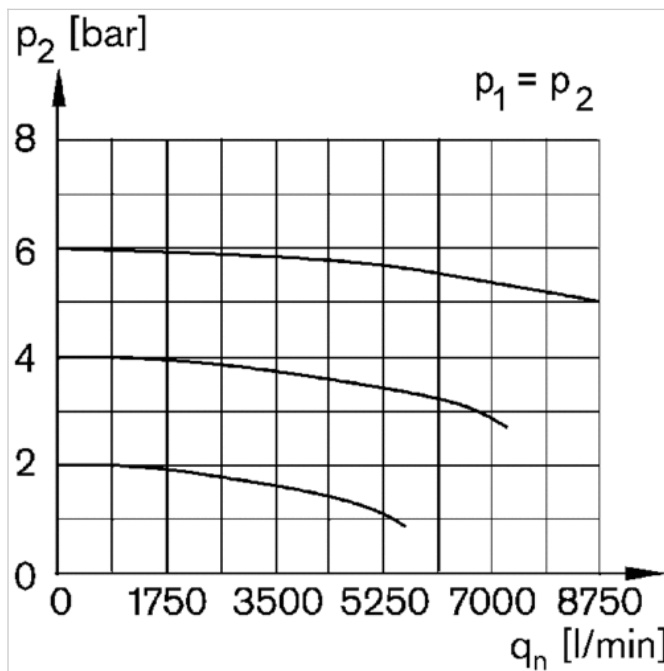
t = filling time, adjustable via adjustment screw (throttle)

1) Switching point: adjustable filling time, fixed change-over pressure $\approx 0.5 \times p_1$ (50%)

2) Throttle fully opened

* Adjustment screw rotations

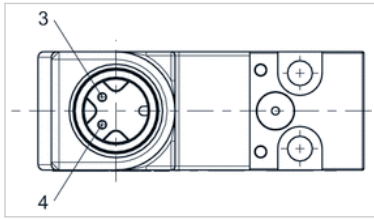
Flow rate characteristic



p_1 = Working pressure
 p_2 = Secondary pressure
 q_n = Nominal flow

Pin assignments

Pin assignment M12x1



3: +/-

4: +/-