
















Filling unit, electrically operated, Series AS2-SSU

- adjustable filling time
- Compressed air connection G 1/4 G 3/8
- Pipe connection
- suitable for ATEX
- ATEX optional



Type	Poppet valve, Can be assembled into blocks
Parts	Filling valve, 3/2-directional valve, electrically operated
Nominal flow	1300 l/min
Nominal flow 1 ► 2	1300 l/min
Nominal flow 2 ► 3	380 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
Duty cycle	100 %
Weight	0,424 kg

Technical data

Part No.			Compressed air connection input	Compressed air connection output	Exhaust
R412006277		—	G 1/4	G 1/4	G 1/4
R412006286		—	G 1/4	G 1/4	G 1/4
R412006282		—	G 3/8	G 3/8	G 1/4
R412006278			G 1/4	G 1/4	G 1/4
R412006279			G 1/4	G 1/4	G 1/4
R412006280			G 1/4	G 1/4	G 1/4
R412006283			G 3/8	G 3/8	G 1/4
R412006285			G 3/8	G 3/8	G 1/4
R412006383			G 1/4	G 1/4	G 1/4

Part No.	Operational voltage	Operational voltage	Operational voltage
	DC	AC 50 Hz	AC 60 Hz
R412006277	-	-	-
R412006286	-	-	-
R412006282	-	-	-
R412006278	24 V	-	-
R412006279	-	110 V	110 V
R412006280	-	220 V	230 V
R412006283	24 V	-	-
R412006285	-	220 V	230 V
R412006383	24 V	-	-

Part No.	Power consumption	Holding power	Holding power	Switch-on power
	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz
R412006277	-	-	-	-
R412006286	-	-	-	-
R412006282	-	-	-	-
R412006278	2 W	-	-	-
R412006279	-	1,6 VA	1,4 VA	2,2 VA
R412006280	-	1,6 VA	1,4 VA	2,2 VA
R412006283	2 W	-	-	-
R412006285	-	1,6 VA	1,4 VA	2,2 VA
R412006383	2 W	-	-	-

Part No.	Switch-on power	Electrical connection	Connector standard
	AC 60 Hz	Pilot valve	
R412006277	-	-	-
R412006286	-	-	-
R412006282	-	-	-
R412006278	-	Plug, ISO 15217, form C	ISO 15217
R412006279	1,6 VA	Plug, ISO 15217, form C	ISO 15217
R412006280	1,6 VA	Plug, ISO 15217, form C	ISO 15217
R412006283	-	Plug, ISO 15217, form C	ISO 15217
R412006285	1,6 VA	Plug, ISO 15217, form C	ISO 15217
R412006383	-	Plug, M12x1	-

Part No.	basic valve with electrical connector
R412006277	Basic valve without pilot valve
R412006286	Basic valve without pilot valve, with CNOMO subbase
R412006282	Basic valve without pilot valve
R412006278	Basic valve with pilot valve
R412006279	Basic valve with pilot valve
R412006280	Basic valve with pilot valve
R412006283	Basic valve with pilot valve
R412006285	Basic valve with pilot valve
R412006383	Basic valve with pilot valve

Part No.	Reverse polarity protection	Fig.	
R412006277	-	Fig. 1	1)
R412006286	-	Fig. 3	1)
R412006282	-	Fig. 2	1)
R412006278	Protected against polarity reversal	Fig. 4	2)
R412006279	Protected against polarity reversal	Fig. 4	2)
R412006280	Protected against polarity reversal	Fig. 4	2)
R412006283	Protected against polarity reversal	Fig. 5	2)
R412006285	Protected against polarity reversal	Fig. 5	2)
R412006383	-	Fig. 6	3)

Nominal flow Q_n with secondary pressure $p_2 = 6$ bar at $\Delta p = 1$ bar

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

2) IP65

3) With adjustment screw lock, IP65

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.

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.

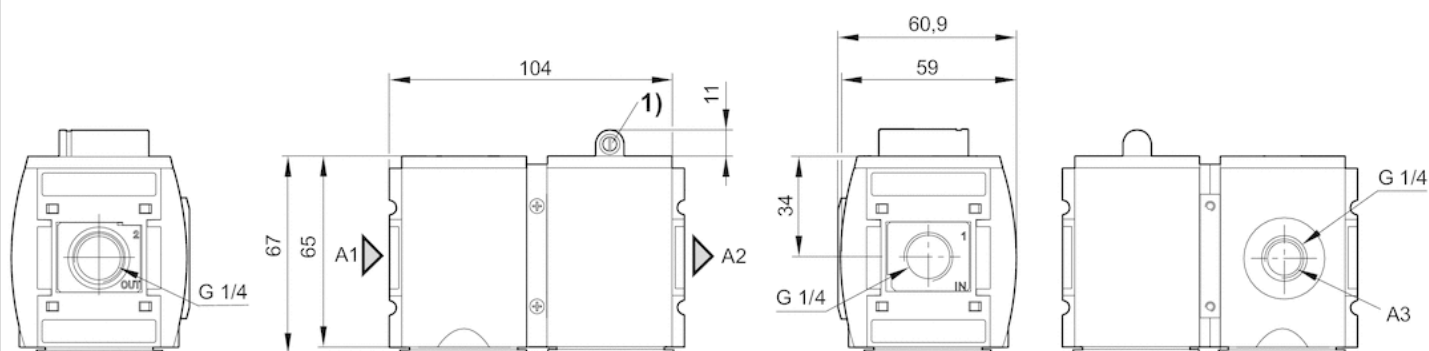
The filling valve builds up pressure slowly in the pneumatic systems, i.e. prevents a sudden pressure build-up during a recommissioning after a mains pressure failure or avoids emergency OFF switching. This allows dangerous abrupt cylinder motions to be avoided.

Technical information

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

Dimensions

Dimensions in mm, Fig. 1



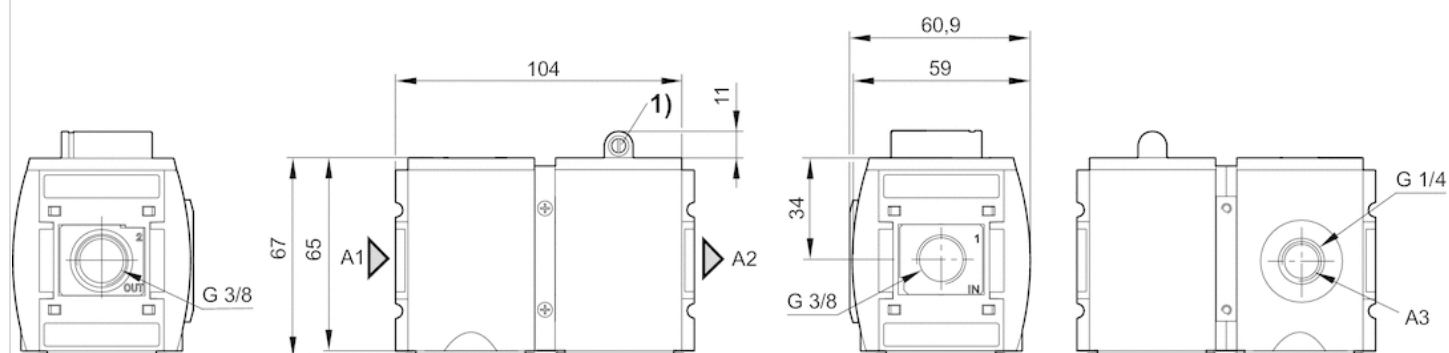
A1 = input

A2 = output

A3 = ventilation port

1) Adjustment screw for filling time

Dimensions in mm, Fig. 2



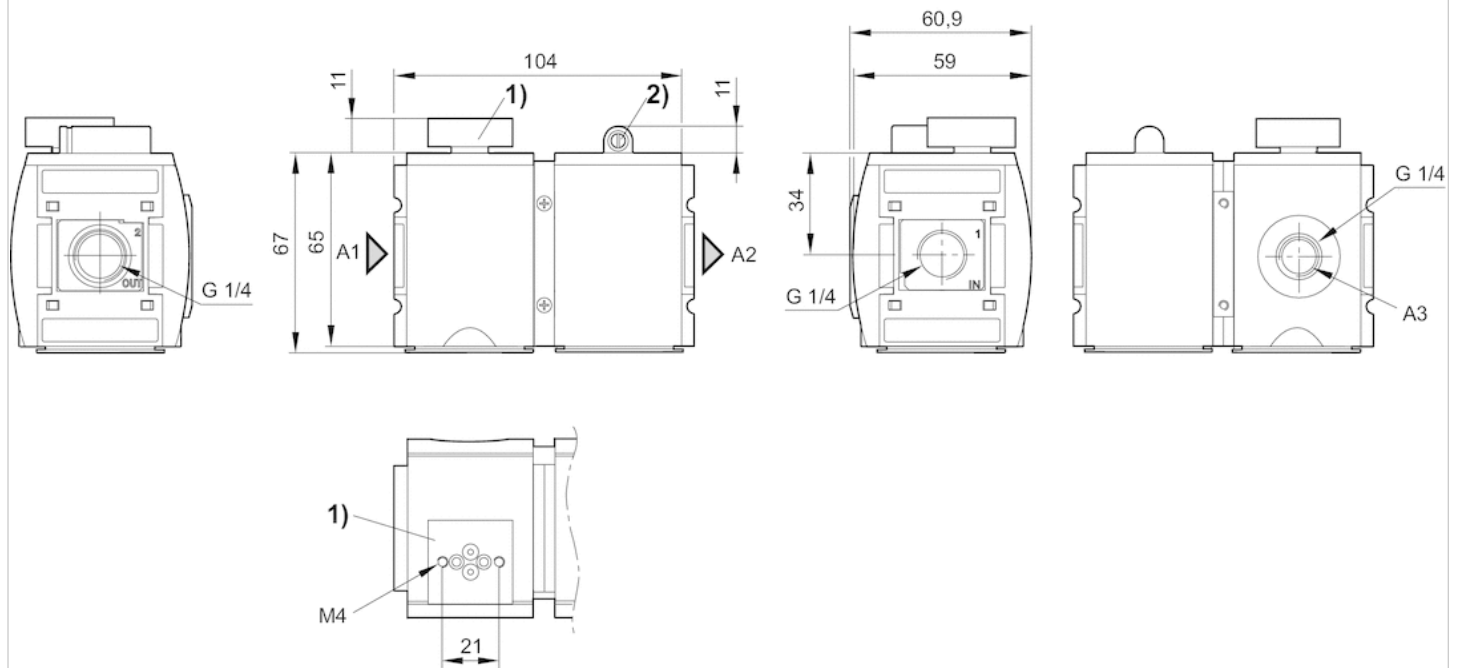
A1 = input

A2 = output

A3 = ventilation port

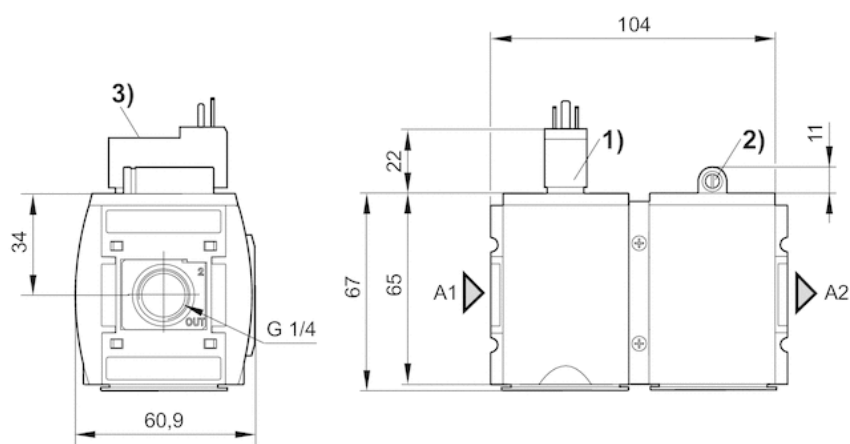
1) Adjustment screw for filling time

Dimensions in mm, Fig. 3



- 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, Fig. 4



A1 = input

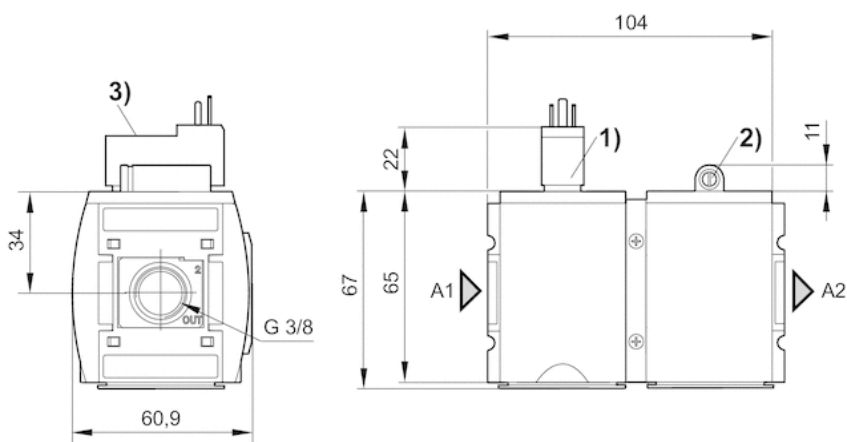
A2 = output

1) Connection for valve plug connector according to ISO 15217 (form C)

2) Adjustment screw for filling time

3) Manual override

Dimensions in mm, Fig. 5



A1 = input

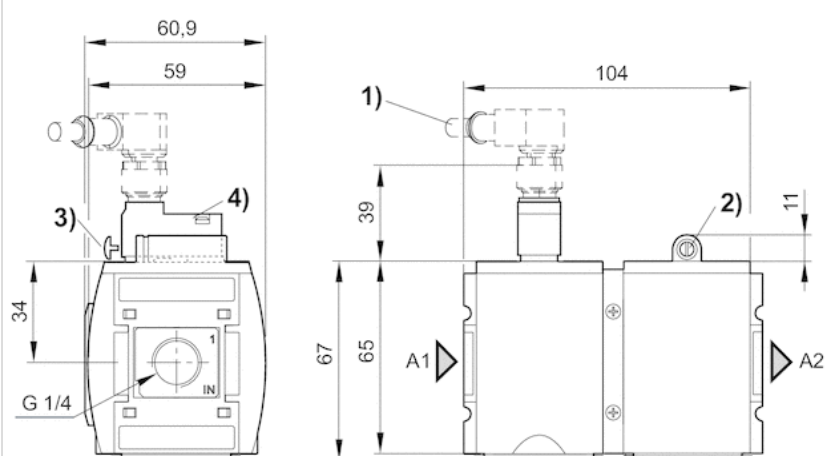
A2 = output

1) Connection for valve plug connector according to ISO 15217 (form C)

2) Adjustment screw for filling time

3) Manual override

Dimensions in mm, Fig. 6



A1 = input

A2 = output

1) Port for plug M12x1

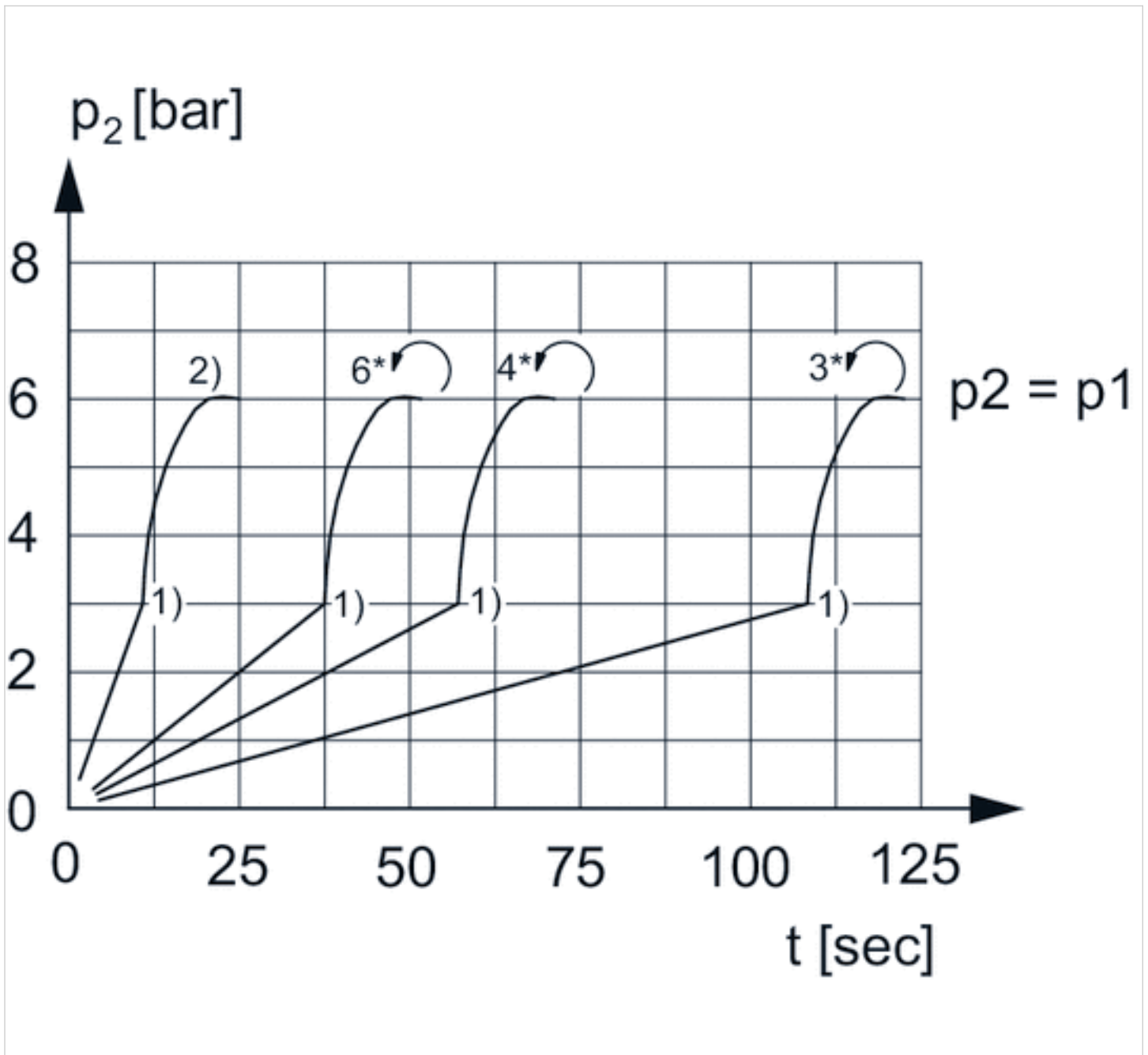
2) Adjustment screw for filling time

3) Adjustment screw lock

4) Manual override

Diagrams

Secondary pressure while filling



p_1 = working pressure

p_2 = secondary pressure

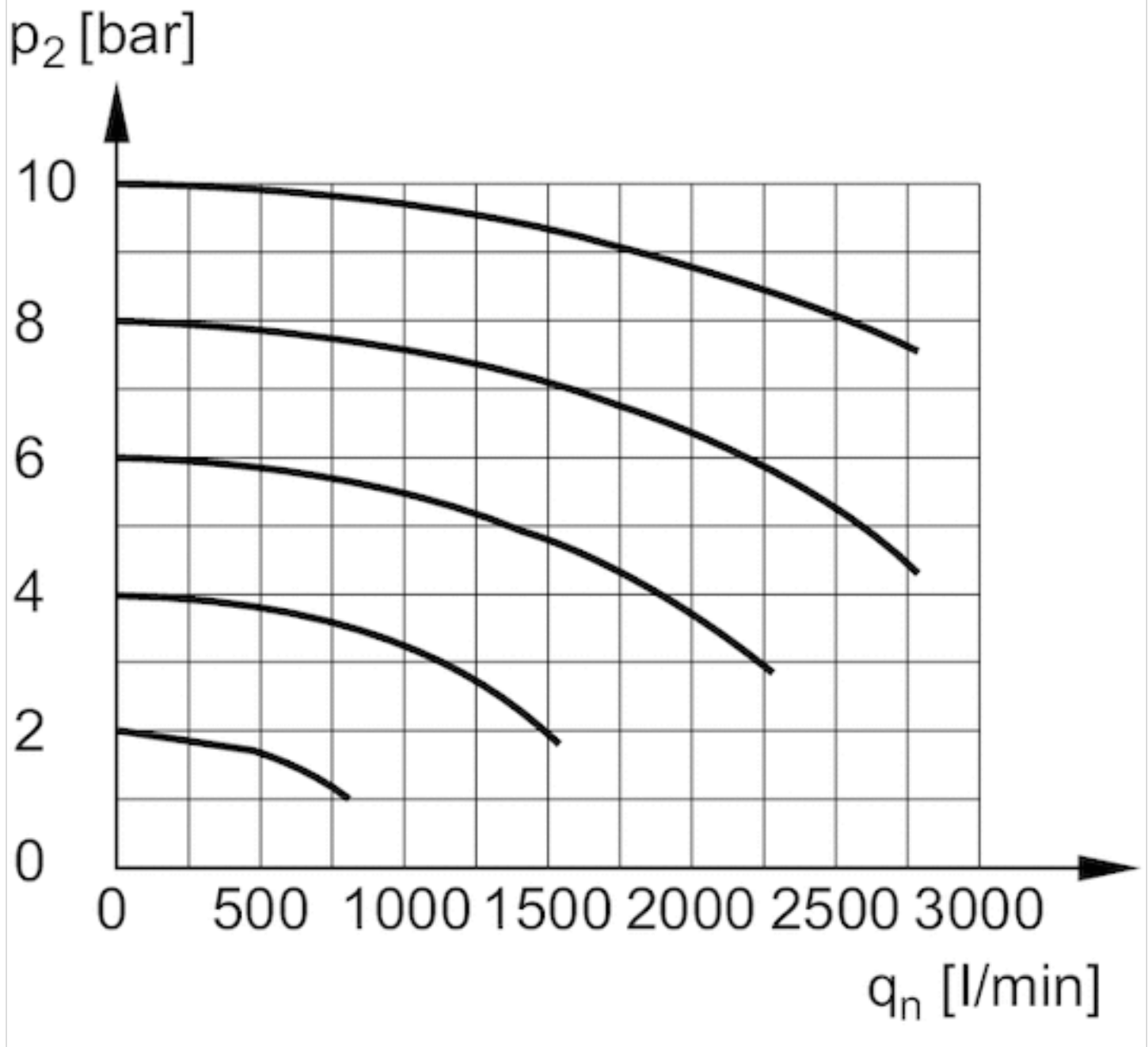
t = filling time, adjustable via adjustment screw (throttle)

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

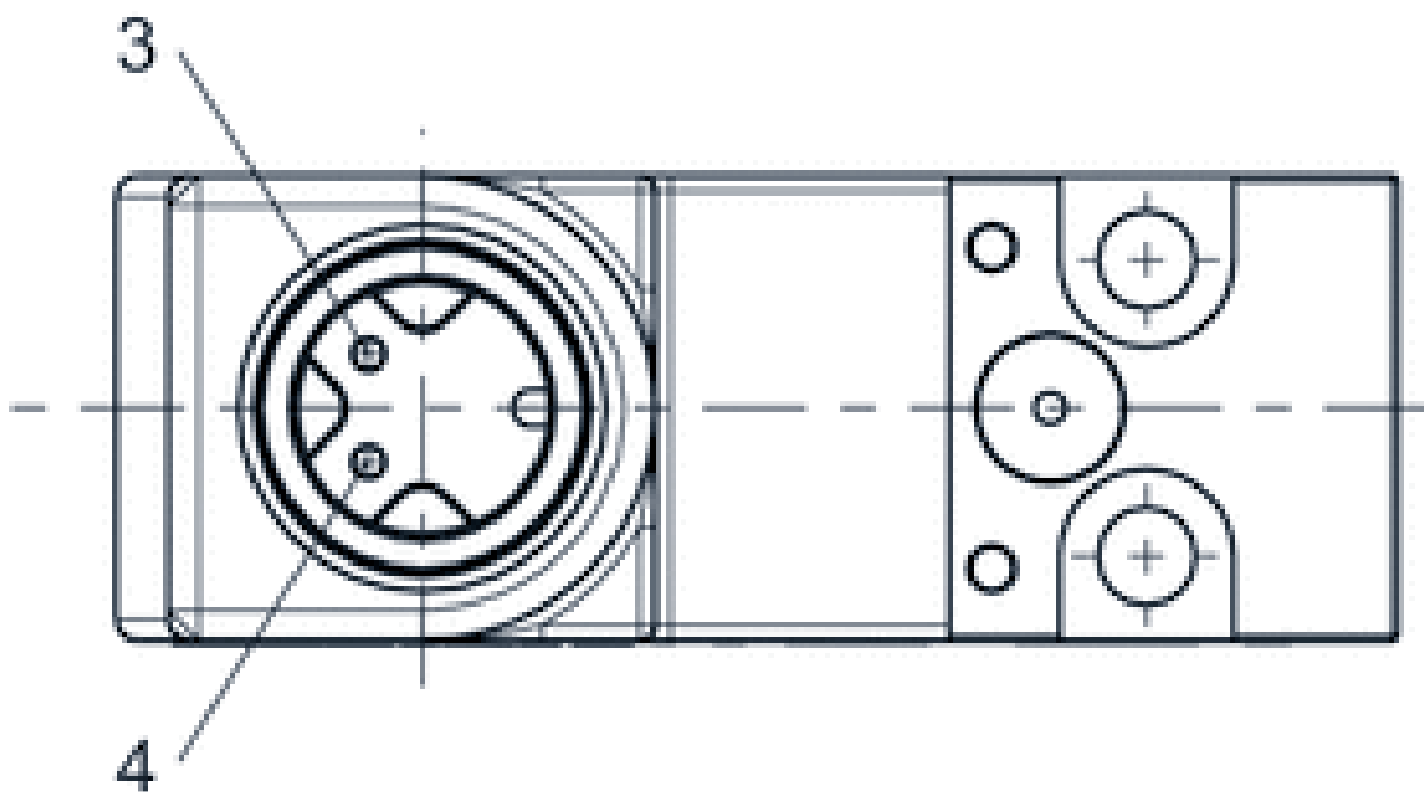


p_2 = secondary pressure

q_n = nominal flow

Pin assignments

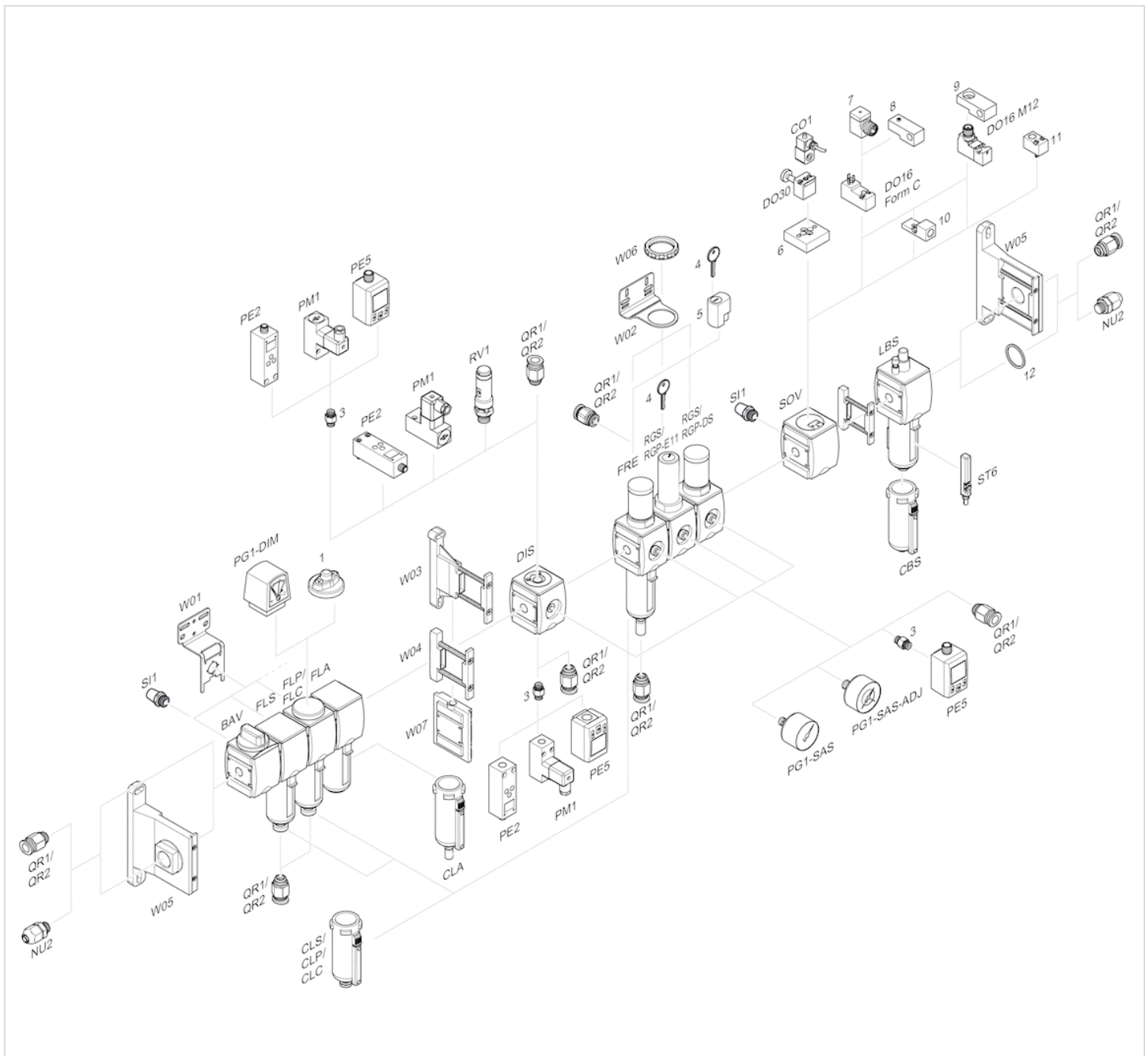
Pin assignment M12x1



3: +/-

4: +/-

Accessories overview



- 1 = contamination display
- 3 = Double nipple
- 4 = Key for E11 locking
- 5 = mortise lock
- 6 = Transition plate DO30
- 7 = Adapter, Series CON-VP
- 8 = Mounting aid DO16, form C
- 9 = Mounting aid DO16, M12
- 10 = Adapter for external pilot air
- 11 = Adapter pneumatic operation
- 12 = Sealing ring

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