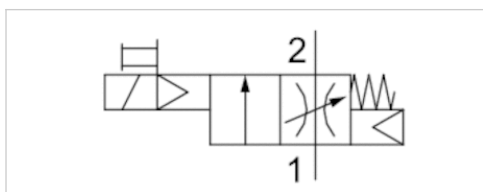


Filling valve, electrically operated, series AS3-SSV

- With electrical priority circuit, adjustable filling time.
- Compressed air connection G 1/2 G 3/8
- Pipe connection
- Electrical connection: Plug, M12x1



Type	Poppet valve with elect. priority circuit, Can be assembled into blocks
Parts	Filling valve
Nominal flow	4500 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
Duty cycle	100 %
Weight	0,43 kg

Technical data

Part No.	Compressed air connection input	Compressed air connection output	Operational voltage
			DC
R412007389	G 1/2	G 1/2	24 V
R412007390	G 3/8	G 3/8	24 V

Part No.	Electrical connection
	Pilot valve
R412007389	Plug, M12x1
R412007390	Plug, M12x1

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

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.

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.

Actuating the electric priority circuit disrupts the slow pressure build-up and pressure p₁ is immediately applied.

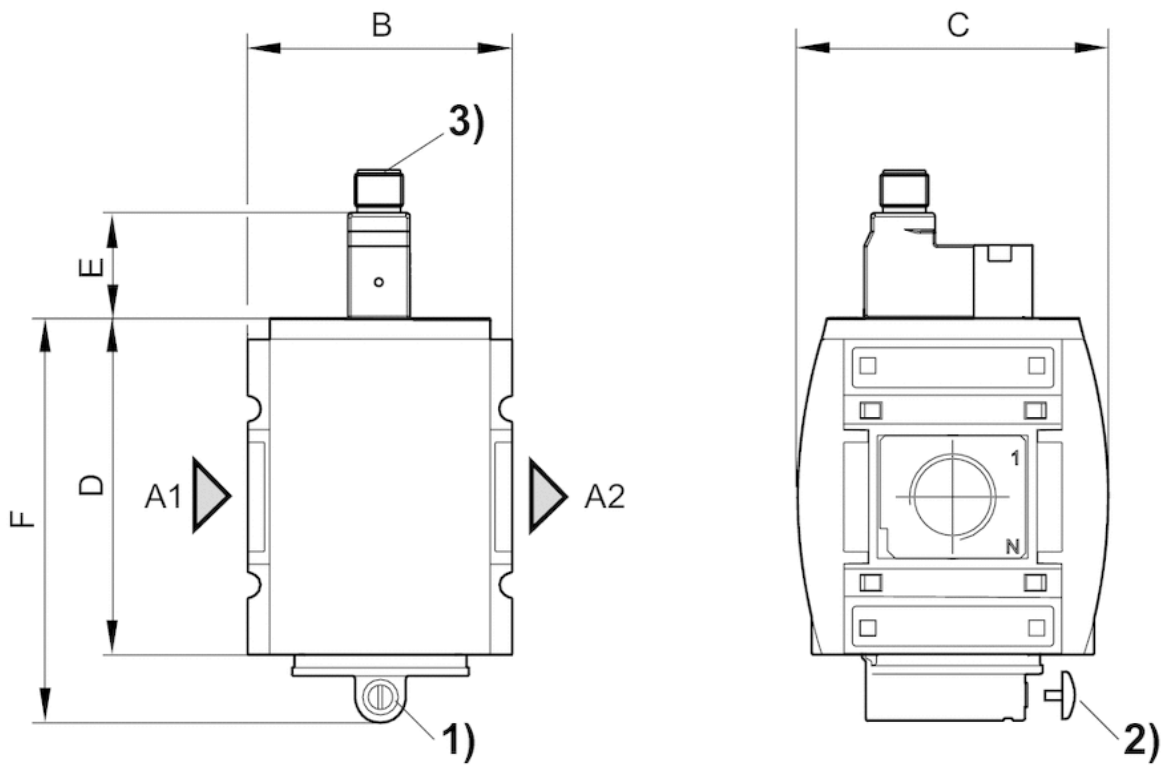
For unthrottled operation, the filling valve must be permanently electrically actuated.

Technical information

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

Dimensions

Dimensions



A1 = input
 A2 = output

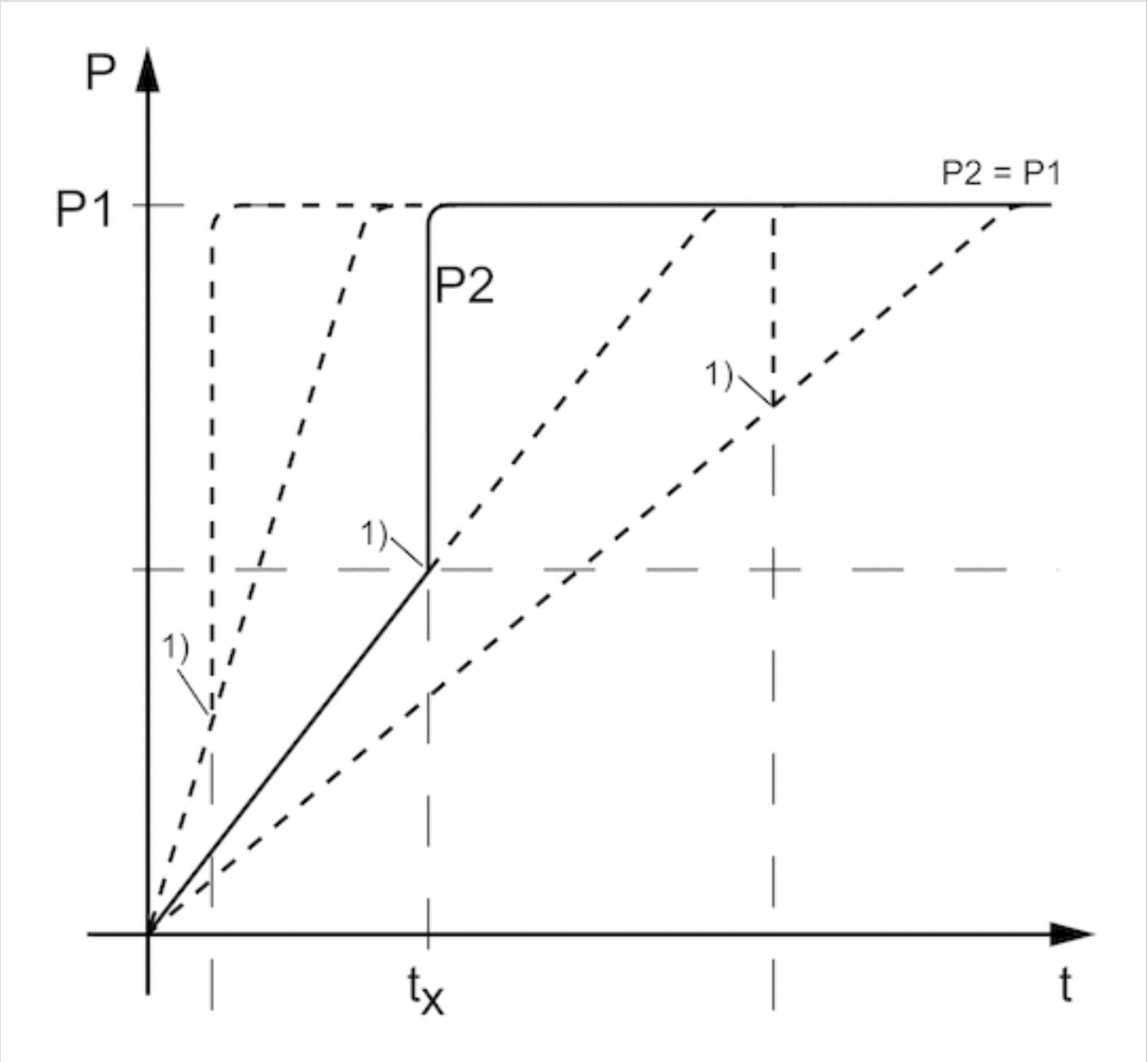
- 1) Adjustment screw for filling time
- 2) Adjustment screw lock
- 3) For valve plug connectors M12x1

Dimensions in mm

A1	A2	B	C	D	E	F
G 1/2	G 1/2	63	74	80	39	96
G 3/8	G 3/8	63	74	80	39	96

Diagrams

Secondary pressure while filling



p1 = working pressure
p2 = secondary pressure

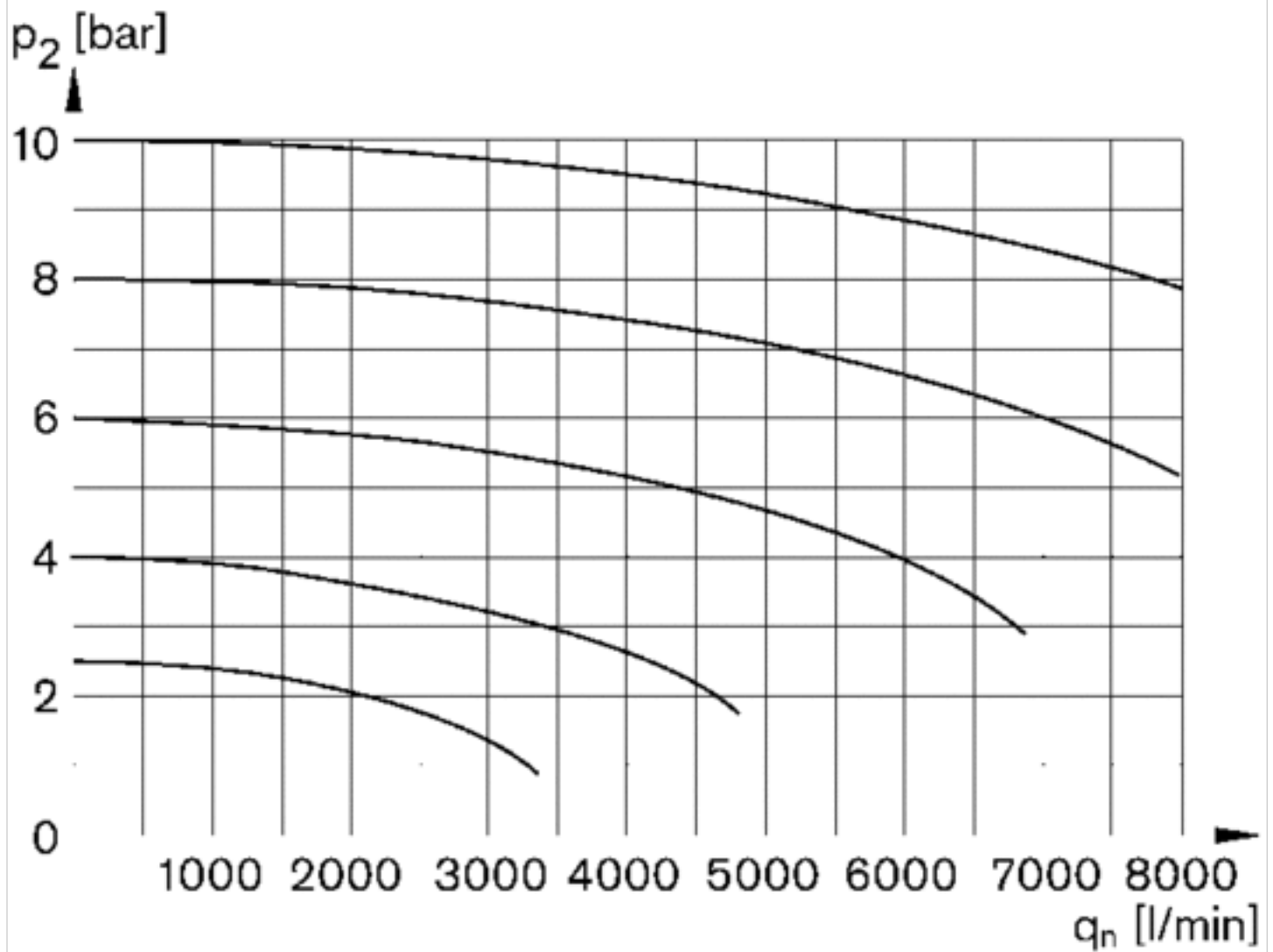
t = filling time

t_x = switchover time

1) Electrically triggered switching point

Filling time adjustable via adjustment screw (throttle)

Flow rate characteristic

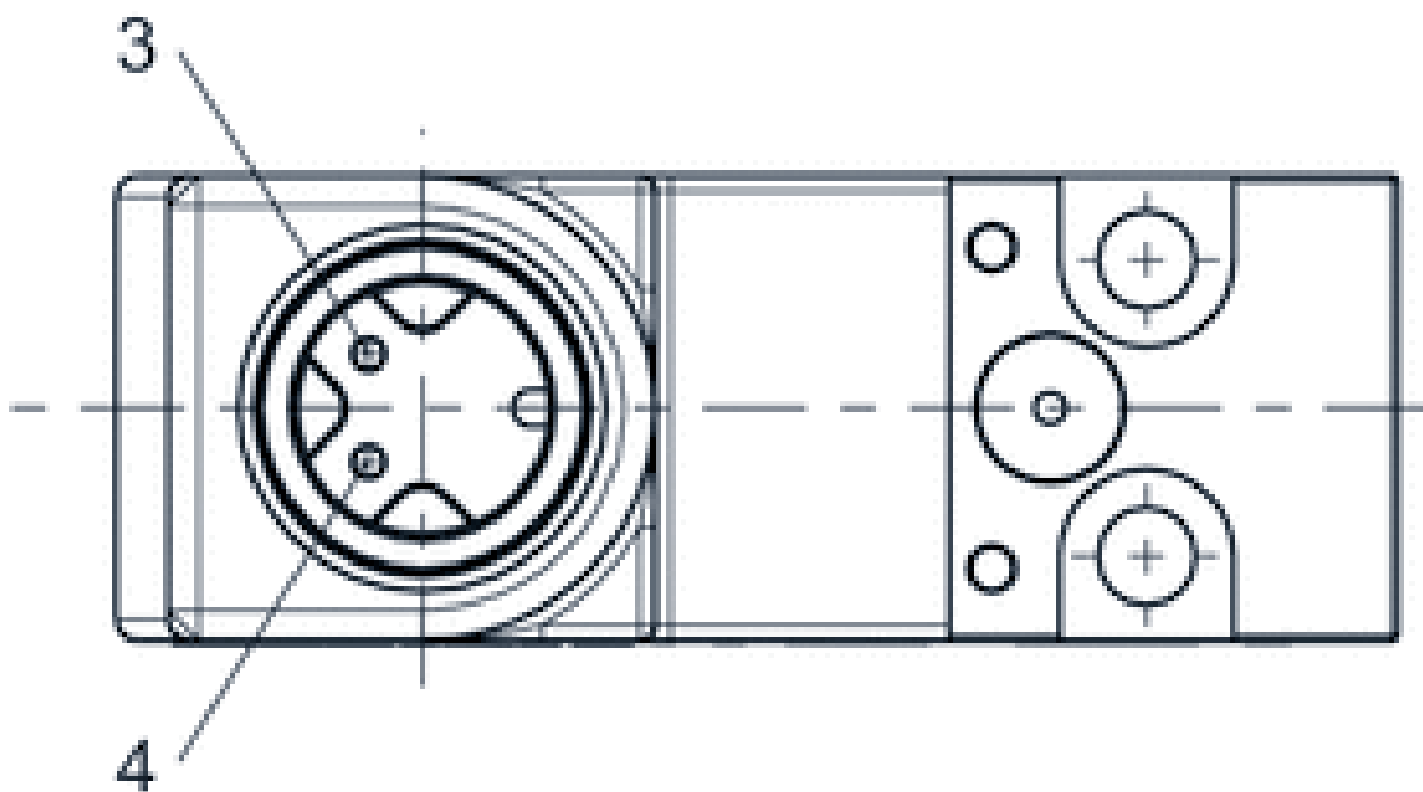


p_2 = secondary pressure

q_n = nominal flow

Pin assignments

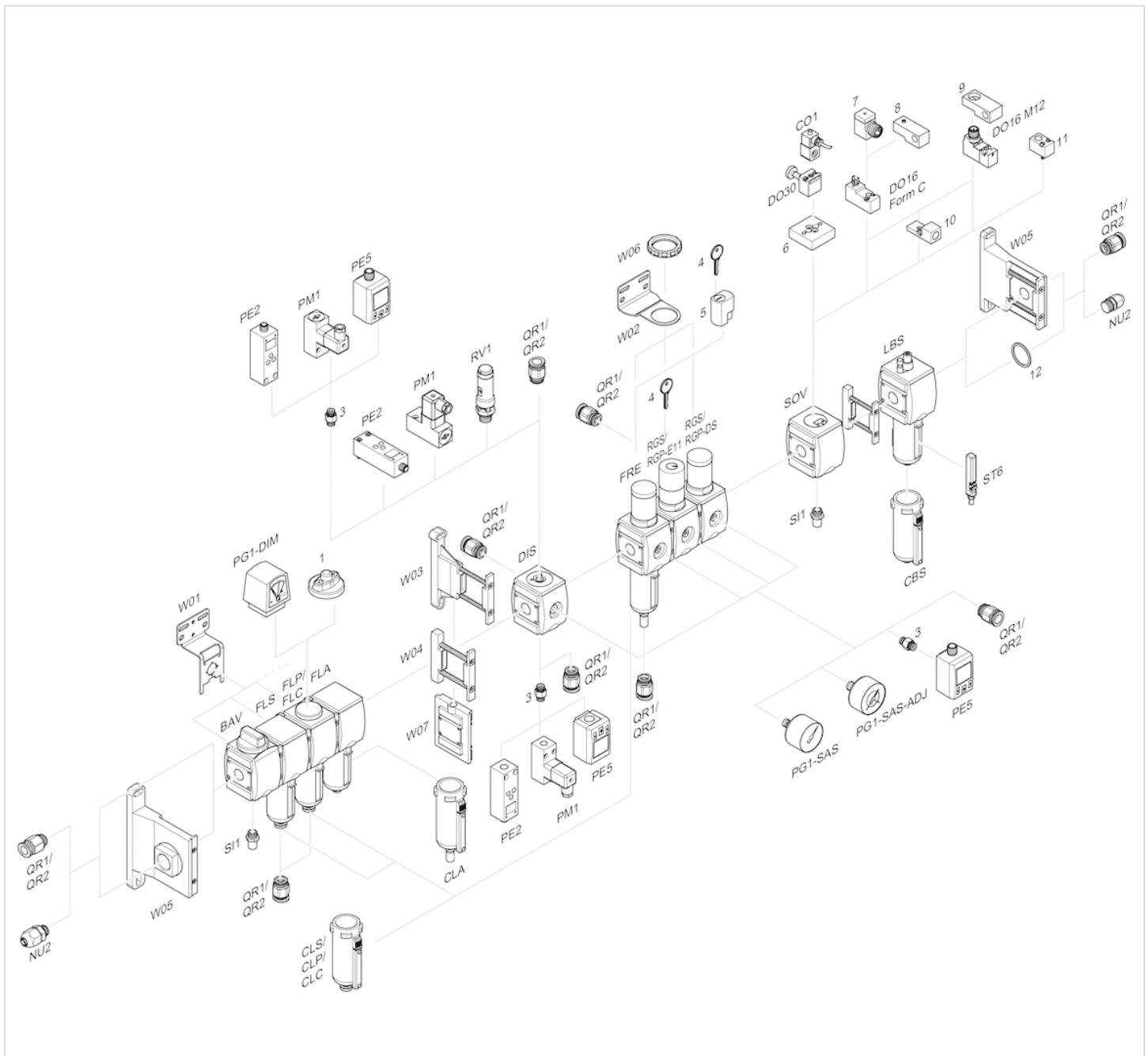
Pin assignment M12x1



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

Efficient pneumatic solutions, our program: cylinders and drives, valves and valve systems, air supply management



Visit us: [Emerson.com/Aventics](https://www.emerson.com/Aventics)

Your local contact: [Emerson.com/contactus](https://www.emerson.com/contactus)



Emerson.com



Facebook.com/EmersonAutomationSolutions



LinkedIn.com/company/Emerson-Automation-Solutions



Twitter.com/EMR_Automation

An example configuration is depicted on the title page. The delivered product may thus vary from that in the illustration. Subject to change. This Document, as well as the data, specifications and other information set forth in it, are the exclusive property of AVENTICS GmbH. It may not be reproduced or given to third parties without its consent. Only use the AVENTICS products shown in industrial applications. Read the product documentation completely and carefully before using the product. Observe the applicable regulations and laws of the respective country. When integrating the product into applications, note the system manufacturer's specifications for safe use of the product. The data specified only serve to describe the product. No statements concerning a certain condition or suitability for a certain application can be derived from our information. The information given does not release the user from the obligation of own judgement and verification. It must be remembered that the products are subject to a natural process of wear and aging.

The Emerson logo is a trademark and service mark of Emerson Electric Co. Brand logotype are registered trademarks of one of the Emerson family of companies. All other marks are the property of their respective owners. © 2020 Emerson Electric Co. All rights reserved.
2020-12



CONSIDER IT SOLVED™