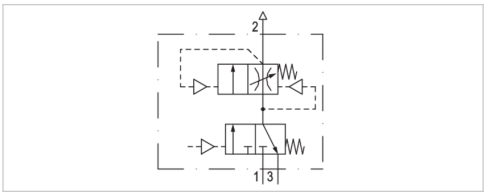
Filling unit, pneumatically operated, Series AS5-SSU

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



Type	Poppet valve, Can be assembled into blocks
Pilot	Internal
Sealing principle	Soft sealing
Working pressure min./max.	0 ... 16 bar
Control pressure min./max.	2,5 ... 16 bar
Ambient temperature min./max.	-10 ... 50 °C
Medium temperature min./max.	-10 ... 50 °C
Medium	Compressed air Neutral gases
Max. particle size	40 µm
Weight	0,924 kg

Technical data

Part No.	Port	Pilot connection	Exhaust	Flow	Flow	Flow	
				Qn	Qn 1▸2	Qn 2▸3	
R412009276	G 3/4	G 1/8	G 1/2	8750 l/min	8750 l/min	3700 l/min	-
R412009281	G 1	G 1/8	G 1/2	8750 l/min	8750 l/min	3700 l/min	-
R412009289	G 1	G 1/8	G 1/2	8750 l/min	8750 l/min	3700 l/min	1)

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

1) With adjustment screw lock

Technical information

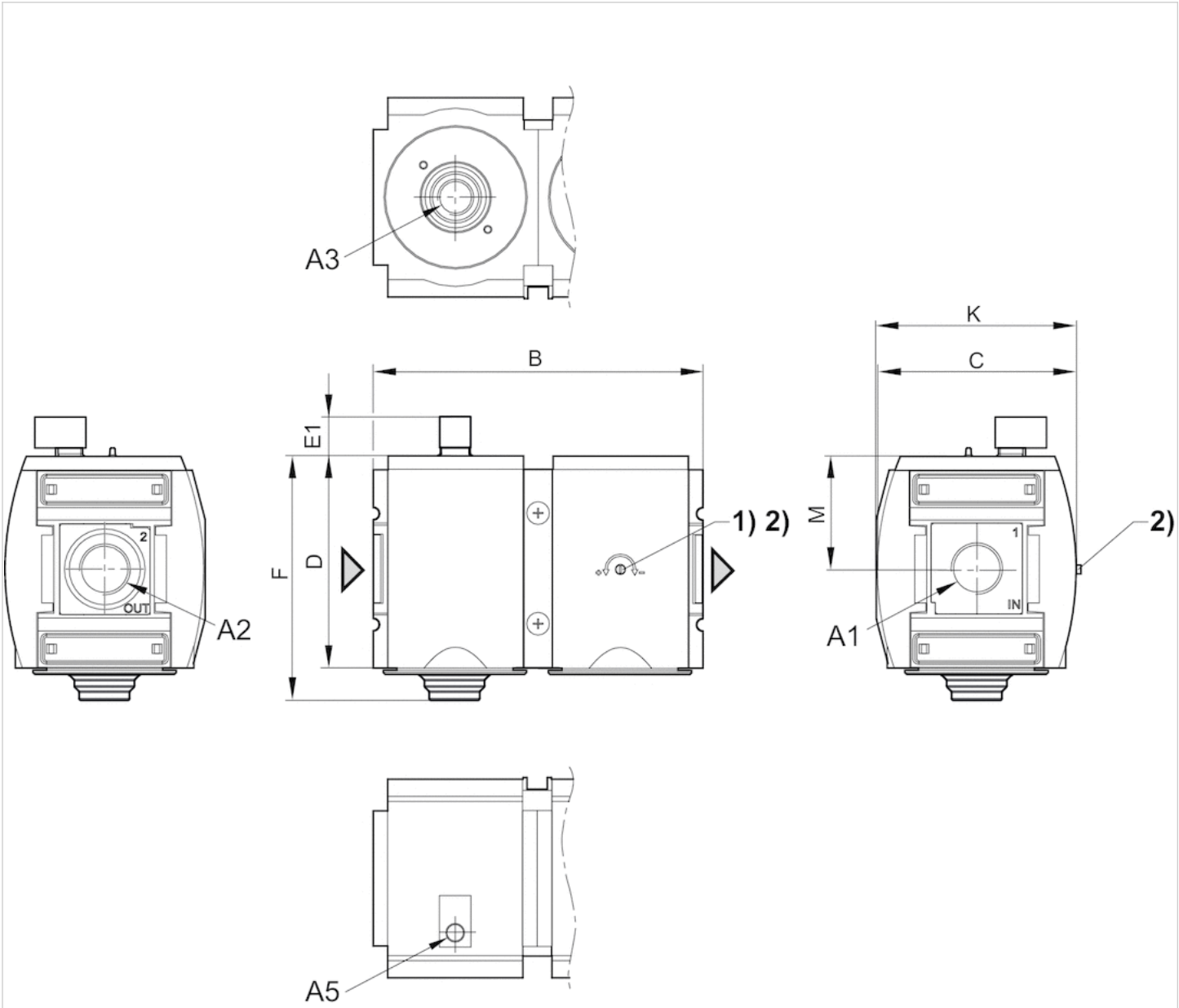
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The filling valve builds up pressure slowly in the pneumatic systems, i.e. prevents a sudden pressure build-up during a recommissioning after a mains pressure failure or avoids emergency OFF switching. This allows dangerous abrupt cylinder motions to be avoided.
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.
Suitable for use in Ex zones 1, 2, 21, 22.
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

Dimensions



A1 = input
A2 = output

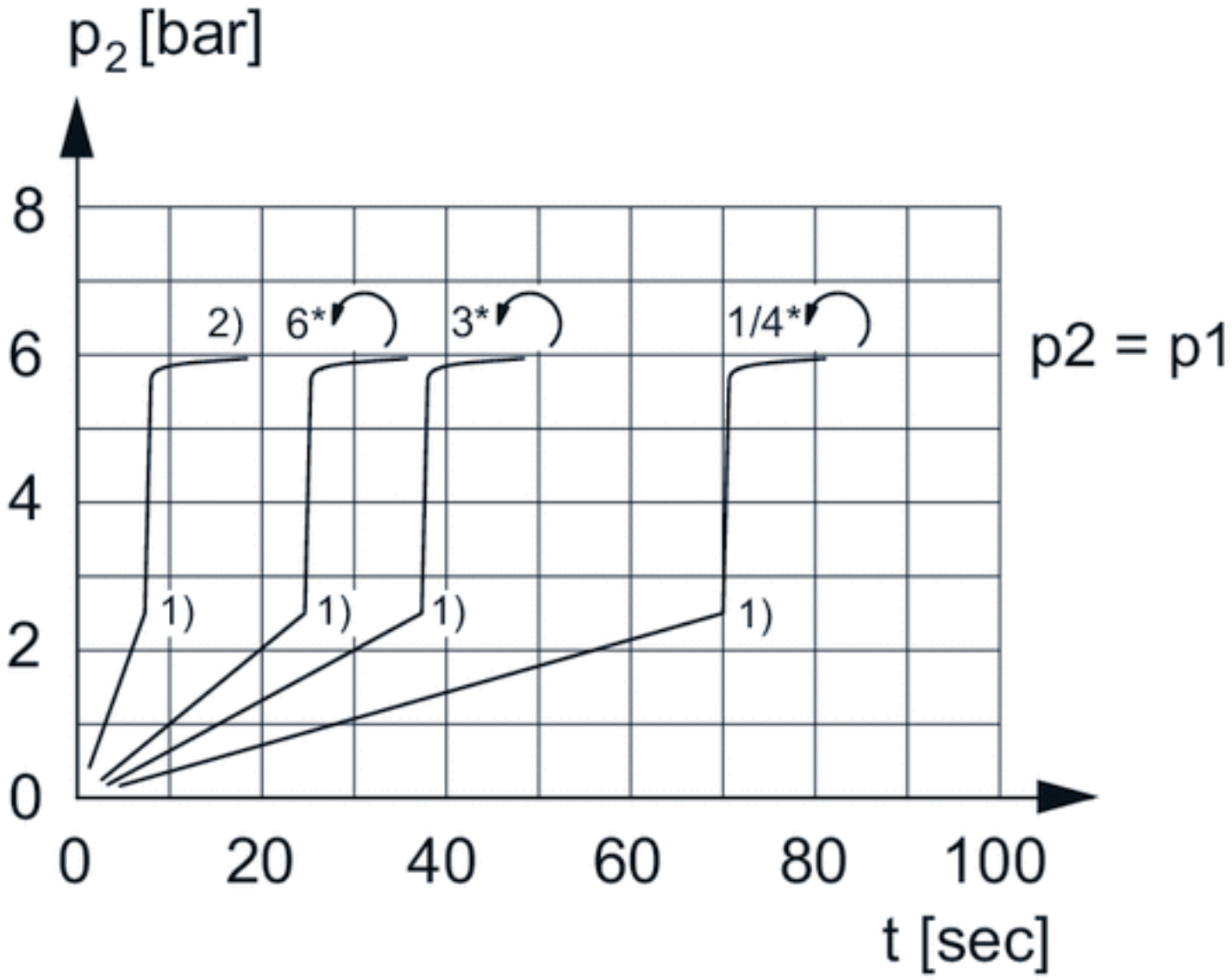
A3 = ventilation port
A5 = control pressure connection
1) Adjustment screw for filling time
2) Adjustment screw lock

Dimensions in mm

A1	A2	A3	A5	B	C	D	E1	F	K	M
G 3/4	G 3/4	G 1/2	G 1/8	170	103	109	20.2	125	103.5	58
G 1	G 1	G 1/2	G 1/8	170	103	109	20.2	125	103.5	58

Diagrams

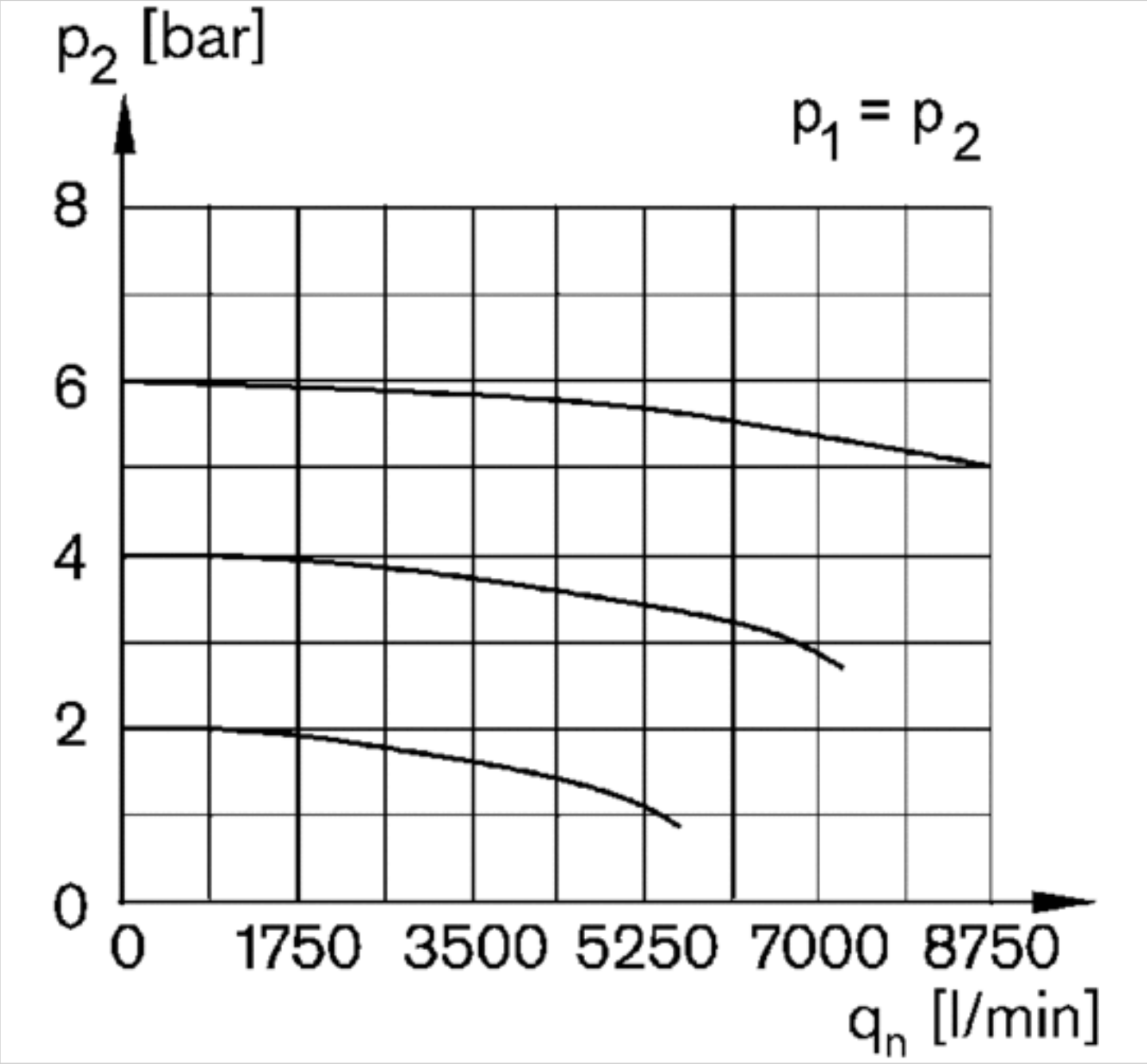
Secondary pressure while filling



p1 = working pressure

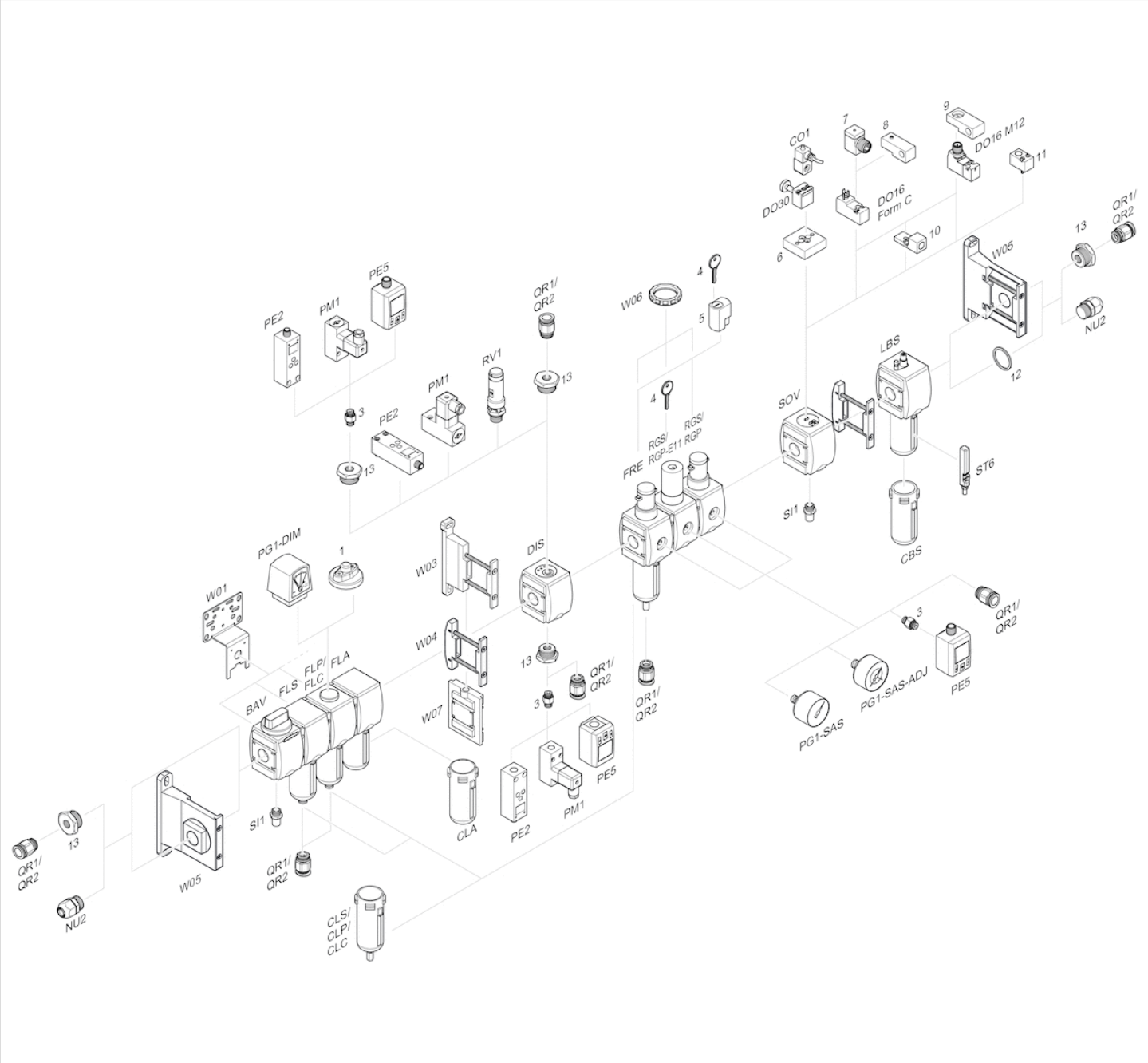
p2 = secondary pressure
t = filling time, adjustable via adjustment screw (throttle)
1) Switching point: adjustable filling time, fixed change-over pressure ≈ 0.5 x p1 (50%)
2) Throttle fully opened
* Adjustment screw rotations

Flow rate characteristic



p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

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
13 = Reducing nipple

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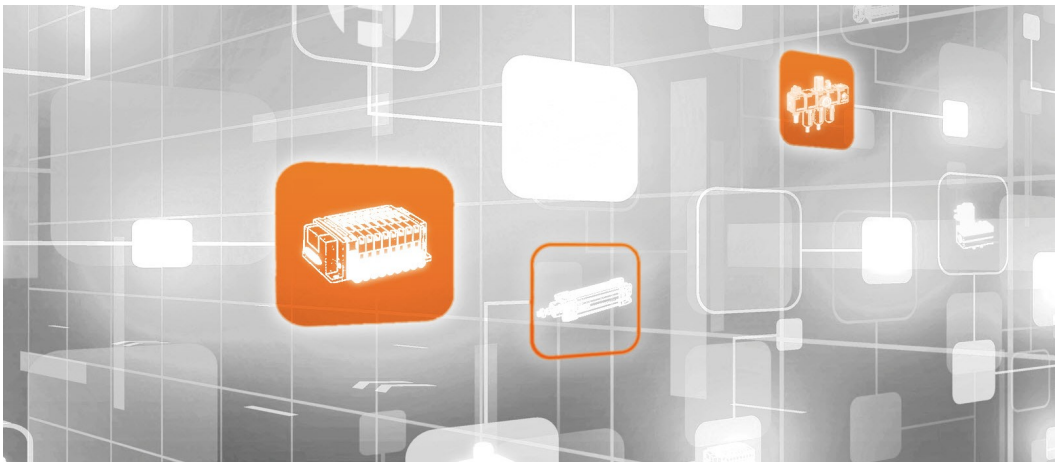

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