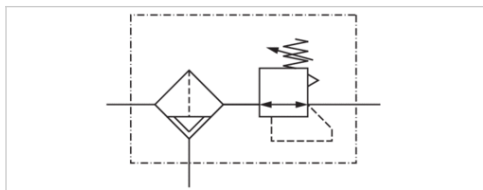


Filter pressure regulator, Series AS5-FRE

- G 3/4 G 1
- filter porosity 40 µm
- lockable
- for padlocks
- suitable for ATEX



Type	1-part, Can be assembled into blocks
Parts	Filter pressure regulator
Mounting orientation	vertical
Certificates	suitable for ATEX
Working pressure min./max.	1,5 ... 16 bar
Ambient temperature min./max.	-10 ... 50 °C
Medium temperature min./max.	-10 ... 50 °C
Medium	Compressed air Neutral gases
Nominal flow Qn	14000 l/min
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Adjustment range min./max.	0,5 ... 10 bar
Pressure supply	single
Filter reservoir volume	87 cm³
Filter element	exchangeable
Max. Internal air consumption	1,5 l/min
Weight	See table below

Technical data

Part No.	Port	filter porosity	Flow	Condensate drain	Weight
			Qn		
R412009218	G 3/4	40 µm	14000 l/min	semi-automatic, open without pressure	0,99 kg
R412009219	G 3/4	40 µm	14000 l/min	fully automatic, open without pressure	1,04 kg
R412009220	G 3/4	40 µm	14000 l/min	fully automatic, closed without pressure	1,04 kg
R412009221	G 1	40 µm	14000 l/min	semi-automatic, open without pressure	0,99 kg
R412009222	G 1	40 µm	14000 l/min	fully automatic, open without pressure	1,04 kg
R412009223	G 1	40 µm	14000 l/min	fully automatic, closed without pressure	1,04 kg

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

Order pressure gauge separately, Suitable for use in Ex zones 1, 2, 21, 22.

Technical information

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

Note: Polycarbonate reservoirs are susceptible to solvents, supplementary information can be found at "Customer information".

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.

Also suitable for separation of fluid oil or water due to the design.

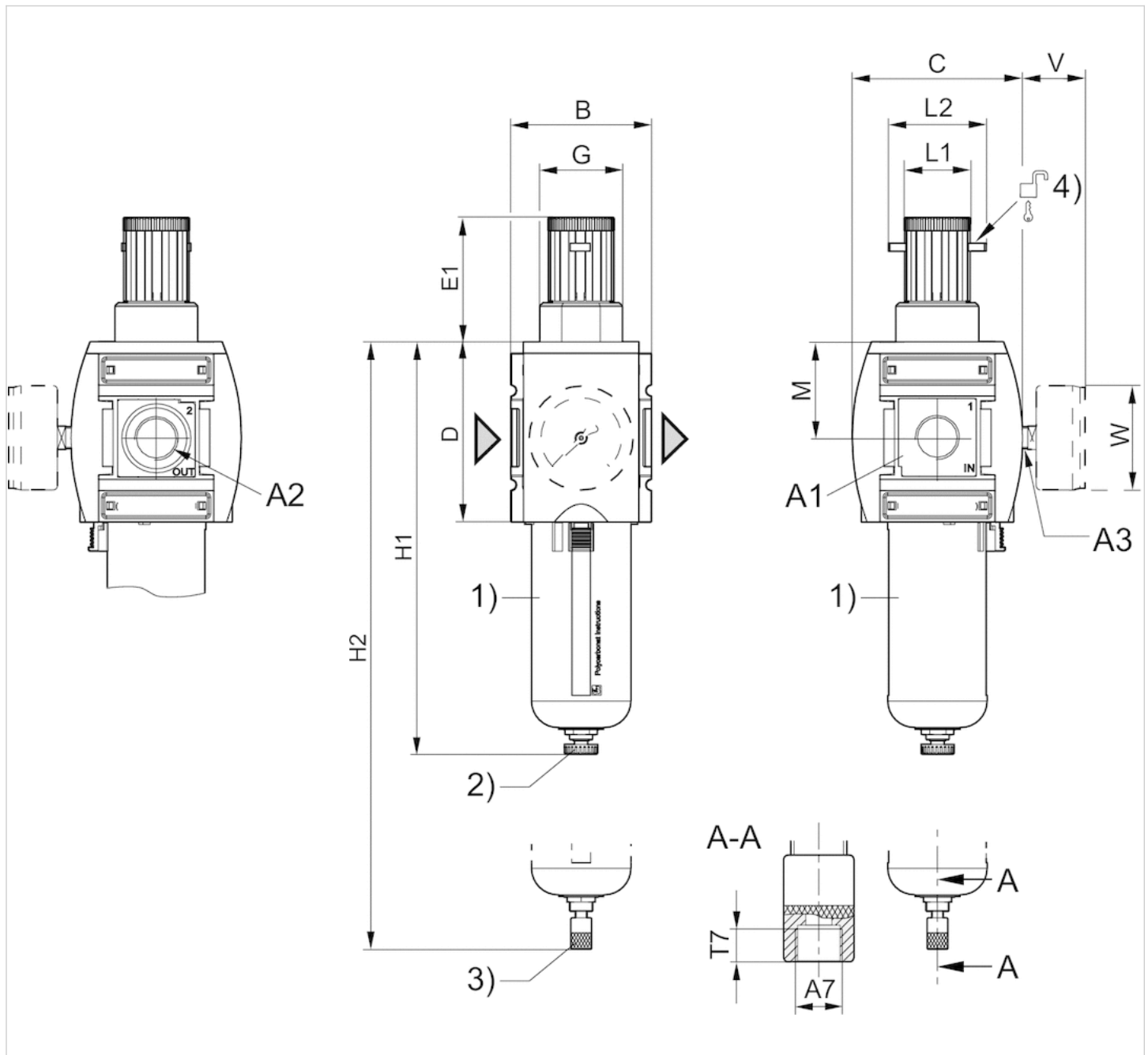
Max. achievable compressed air class acc. to ISO 8573-1:2010 7 : 7 : -

Technical information

Material	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber
Threaded bushing	Die cast zinc
Reservoir	Polycarbonate
Protective guard	Polyamide
Filter insert	Polyethylene

Dimensions

Dimensions



A1 = input

A2 = output

A3 = pressure gauge connection

A7 = condensate drain

1) Plastic reservoir and protective guard with window

2) Semi-automatic condensate drain

3) Fully automatic condensate drain

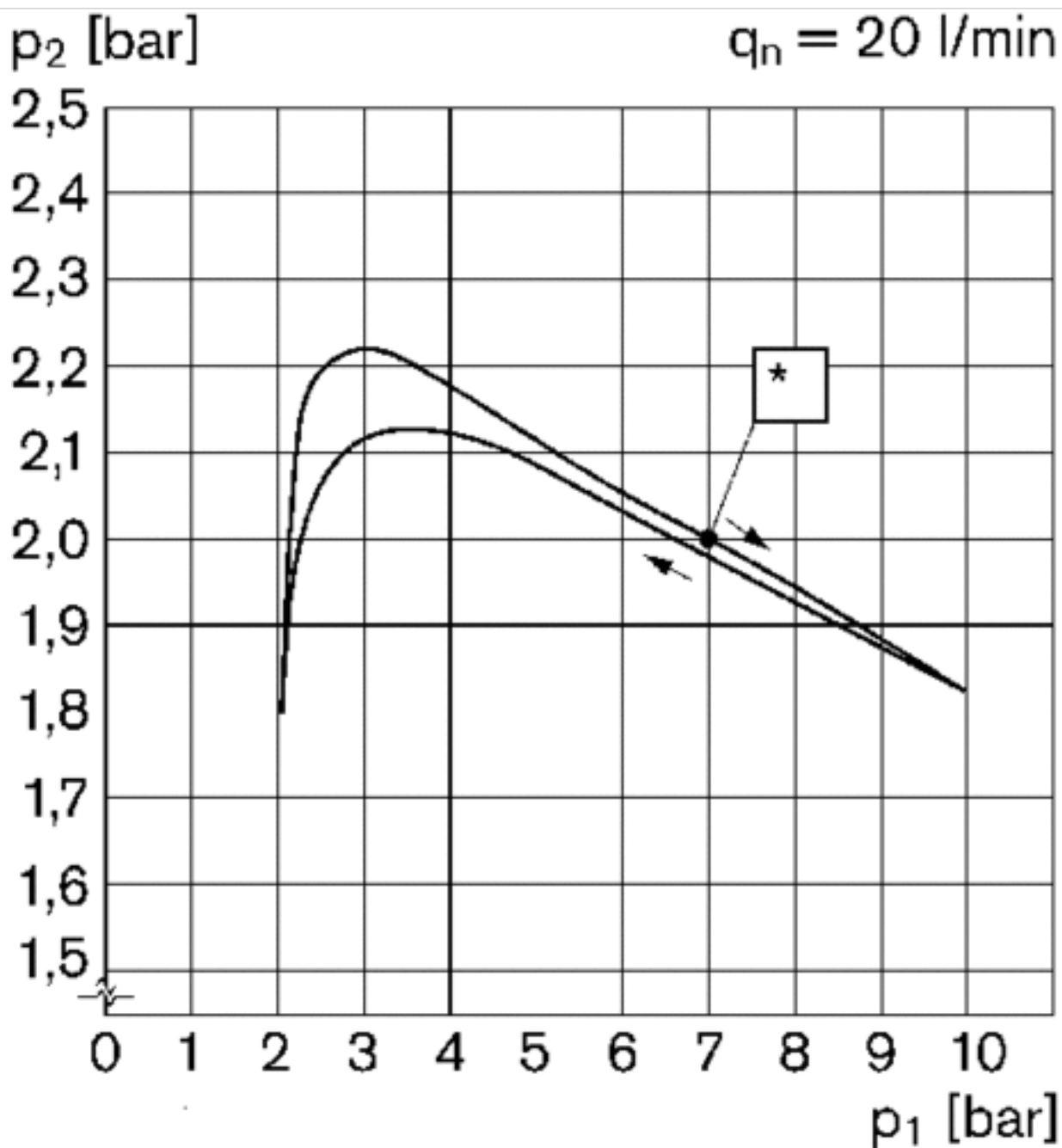
4) Mounting option for padlocks, max. shackle Ø 8

Dimensions in mm

A1	A2	A3	A7	B	C	D	E1	G	H1	H2	L1	L2	M	T7	V	W
G 3/4	G 3/4	G 1/4	G 1/8	85	103	109	75	M50x1,5	250	266	41	60	58	8.5	38	63
G 1	G 1	G 1/4	G 1/8	85	103	109	75	M50x1,5	250	266	41	60	58	8.5	38	63

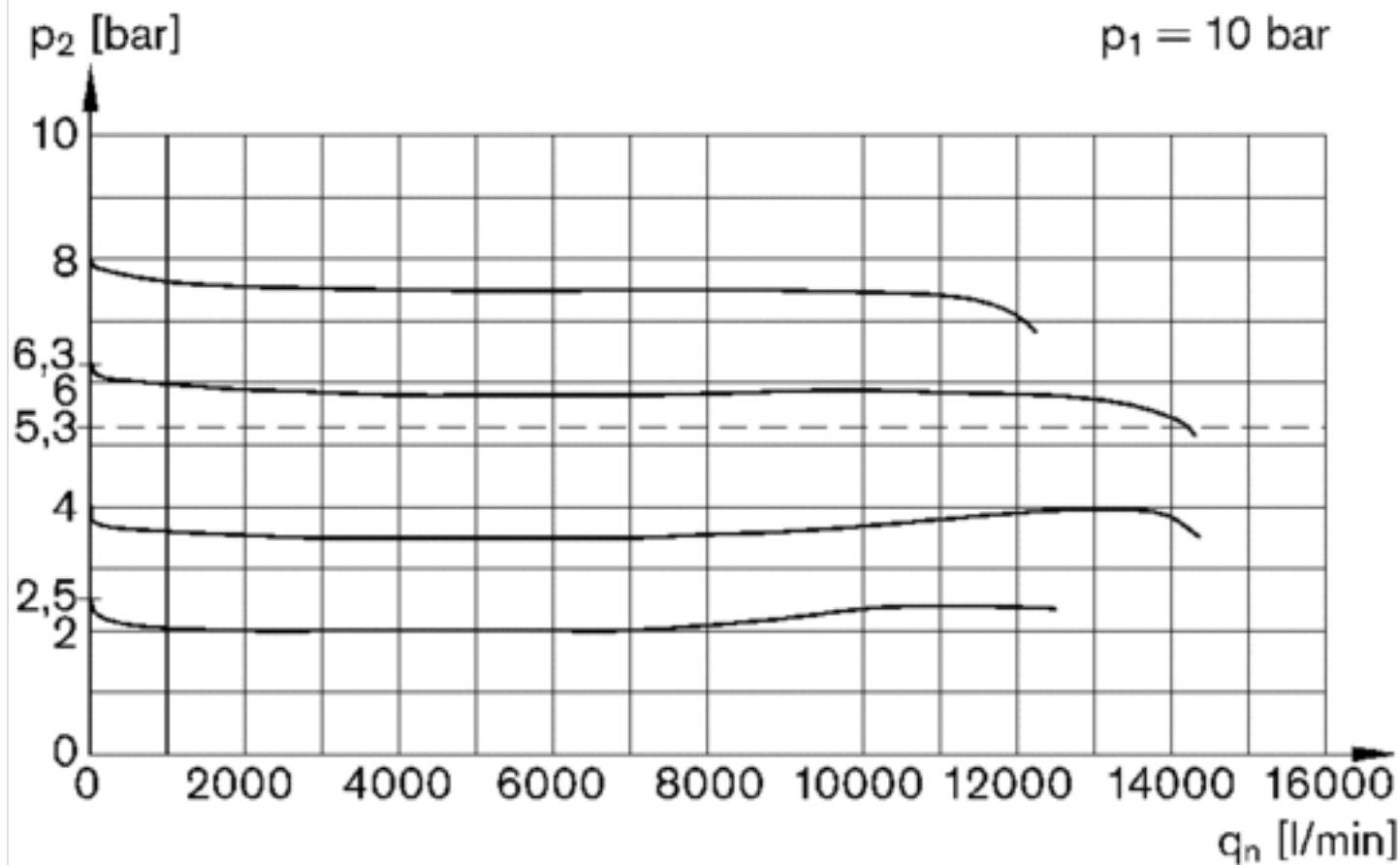
Diagrams

Pressure characteristics curve



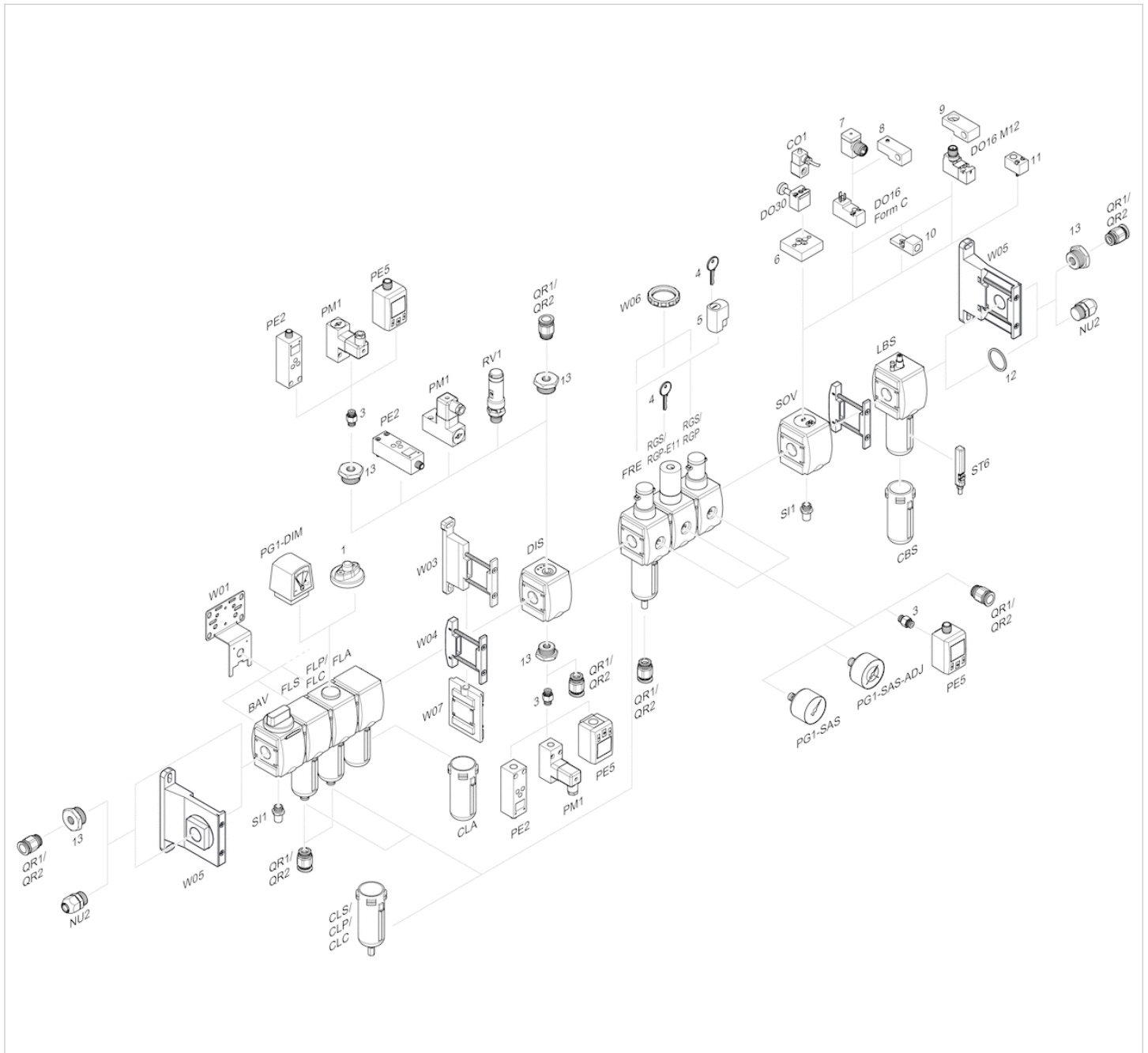
p_1 = working pressure
 p_2 = secondary pressure
 q_n = nominal flow
 * starting point

Flow rate characteristic (setting range p2: 0.5 - 8 bar)



p_1 = working pressure
 p_2 = secondary pressure
 q_n = 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

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



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