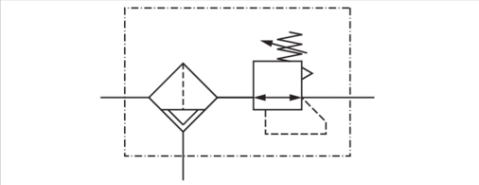
Filter pressure regulator, Series AS2-FRE

- G 1/4 G 3/8
- filter porosity 25 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
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Adjustment range min./max.	See table below
Pressure supply	single
Filter reservoir volume	28 cm³
Filter element	exchangeable
Weight	See table below

Technical data

Part No.	Port	filter porosity	Flow	Adjustment range min./max.
			Qn	
R412006180	G 1/4	25 µm	2100 l/min	0,5 ... 8 bar
R412006218	G 1/4	25 µm	2100 l/min	0,5 ... 10 bar
R412006219	G 1/4	25 µm	2100 l/min	0,5 ... 10 bar
R412006220	G 1/4	25 µm	2100 l/min	0,5 ... 10 bar
R412006221	G 3/8	25 µm	2600 l/min	0,5 ... 10 bar
R412006222	G 3/8	25 µm	2600 l/min	0,5 ... 10 bar
R412006223	G 3/8	25 µm	2600 l/min	0,5 ... 10 bar

Part No.	Condensate drain	Reservoir	Protective guard	Weight
R412006180	semi-automatic, open without pressure	Die cast zinc	-	0,537 kg
R412006218	semi-automatic, open without pressure	Polycarbonate	Polyamide	0,304 kg
R412006219	fully automatic, open without pressure	Polycarbonate	Polyamide	0,347 kg
R412006220	fully automatic, closed without pressure	Polycarbonate	Polyamide	0,347 kg
R412006221	semi-automatic, open without pressure	Polycarbonate	Polyamide	0,347 kg
R412006222	fully automatic, open without pressure	Polycarbonate	Polyamide	0,347 kg
R412006223	fully automatic, closed without pressure	Polycarbonate	Polyamide	0,347 kg

Part No.	Fig.
R412006180	Fig. 1
R412006218	Fig. 1
R412006219	Fig. 2
R412006220	Fig. 2
R412006221	Fig. 3
R412006222	Fig. 4
R412006223	Fig. 4

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.

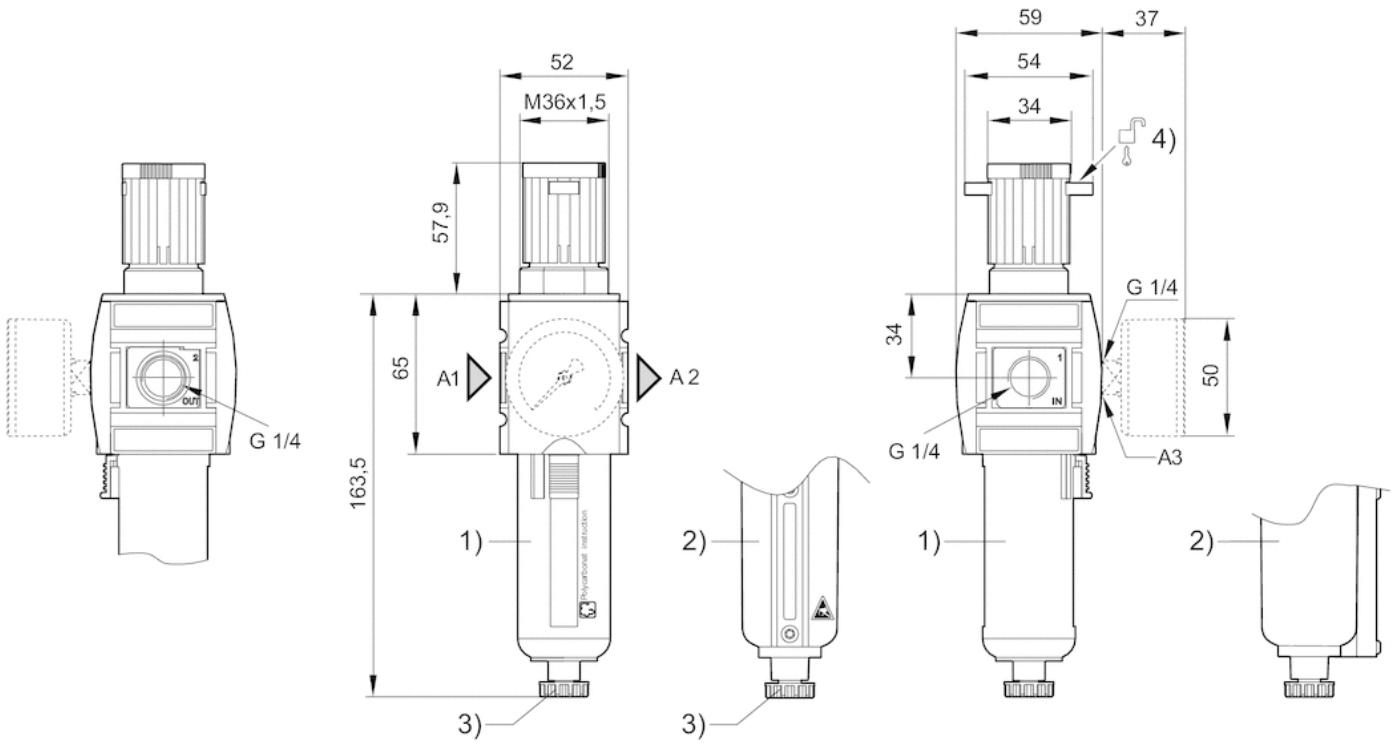
Max. achievable compressed air class acc. to ISO 8573-1:2010 7 : 7 : -

Technical information

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

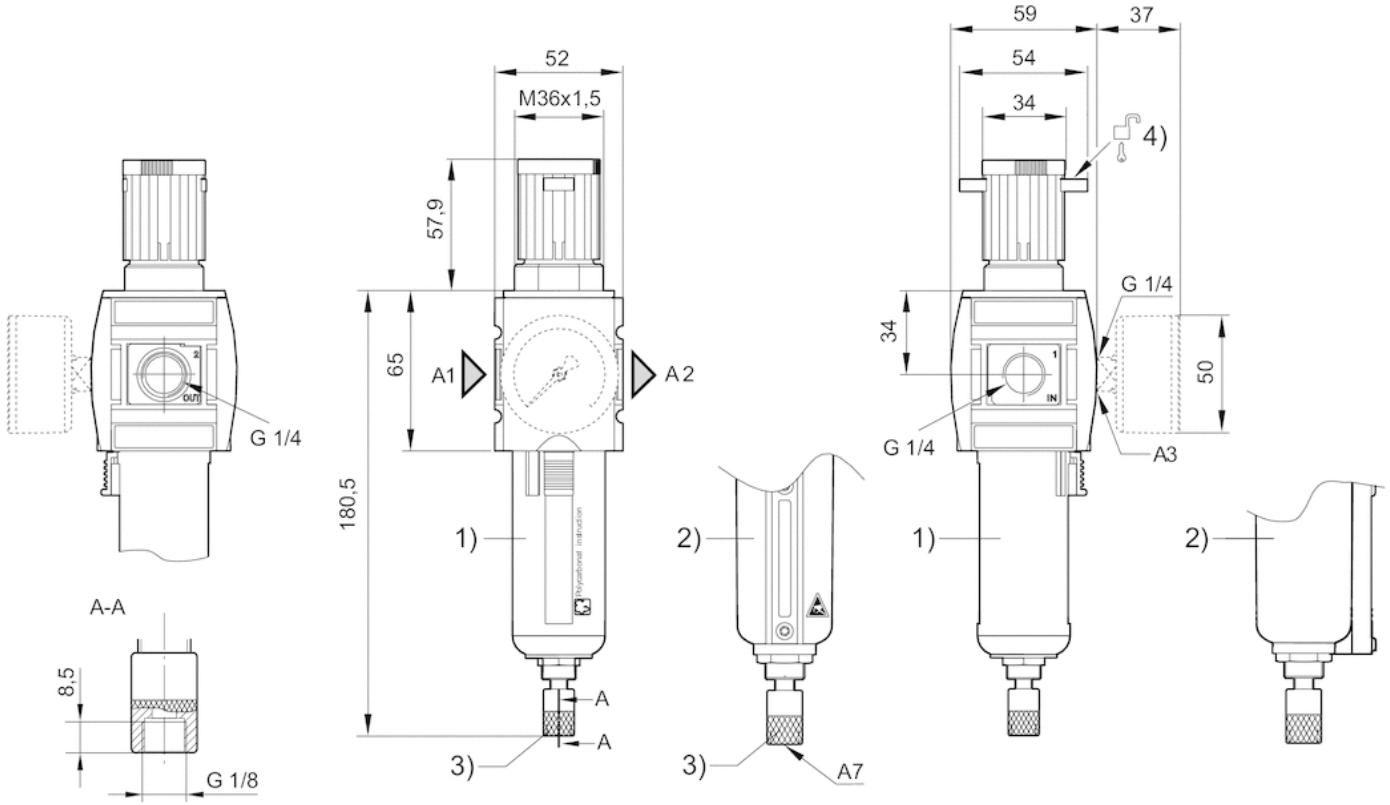
Dimensions

Dimensions in mm, Fig. 1



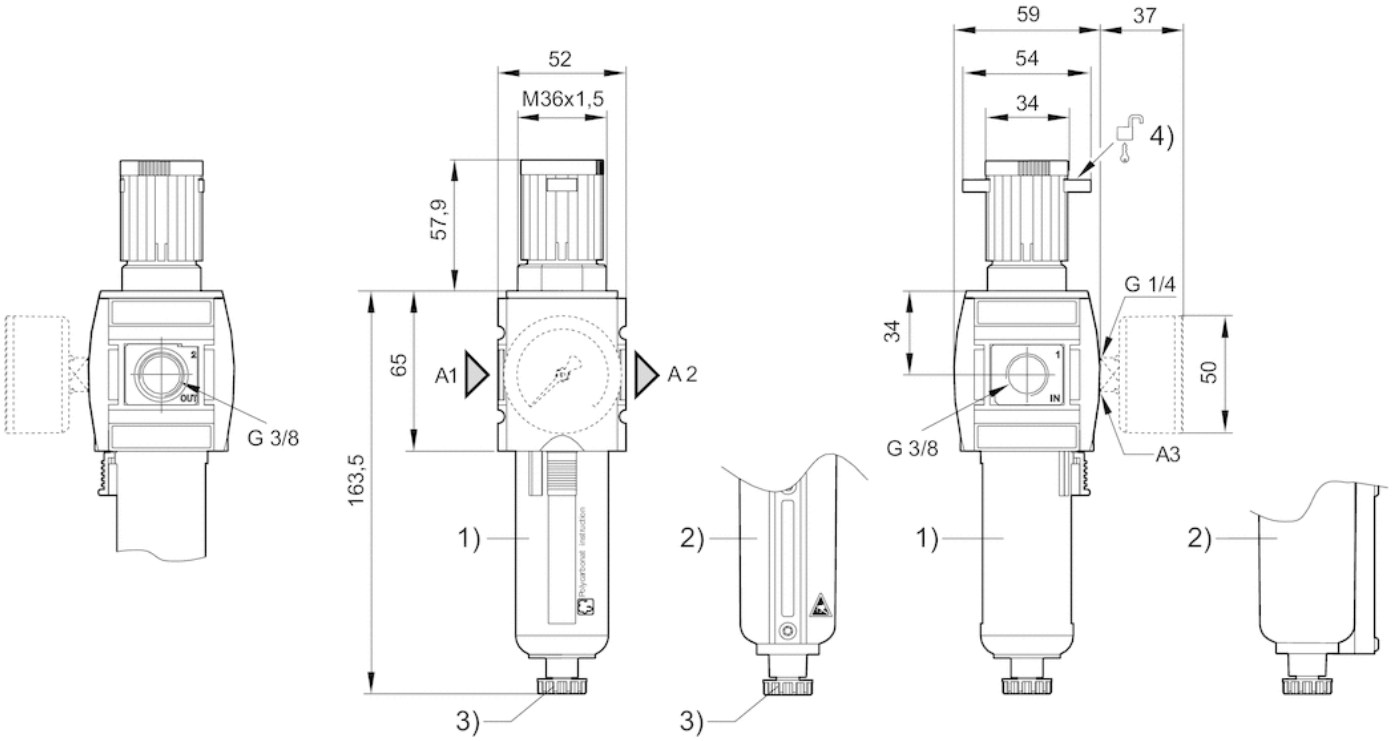
A1 = input
A2 = output
A3 = pressure gauge connection
1) Plastic reservoir and protective guard with window
2) Metal reservoir
3) Semi-automatic condensate drain
4) Mounting option for padlocks, max. shackle Ø 8

Dimensions in mm, Fig. 2



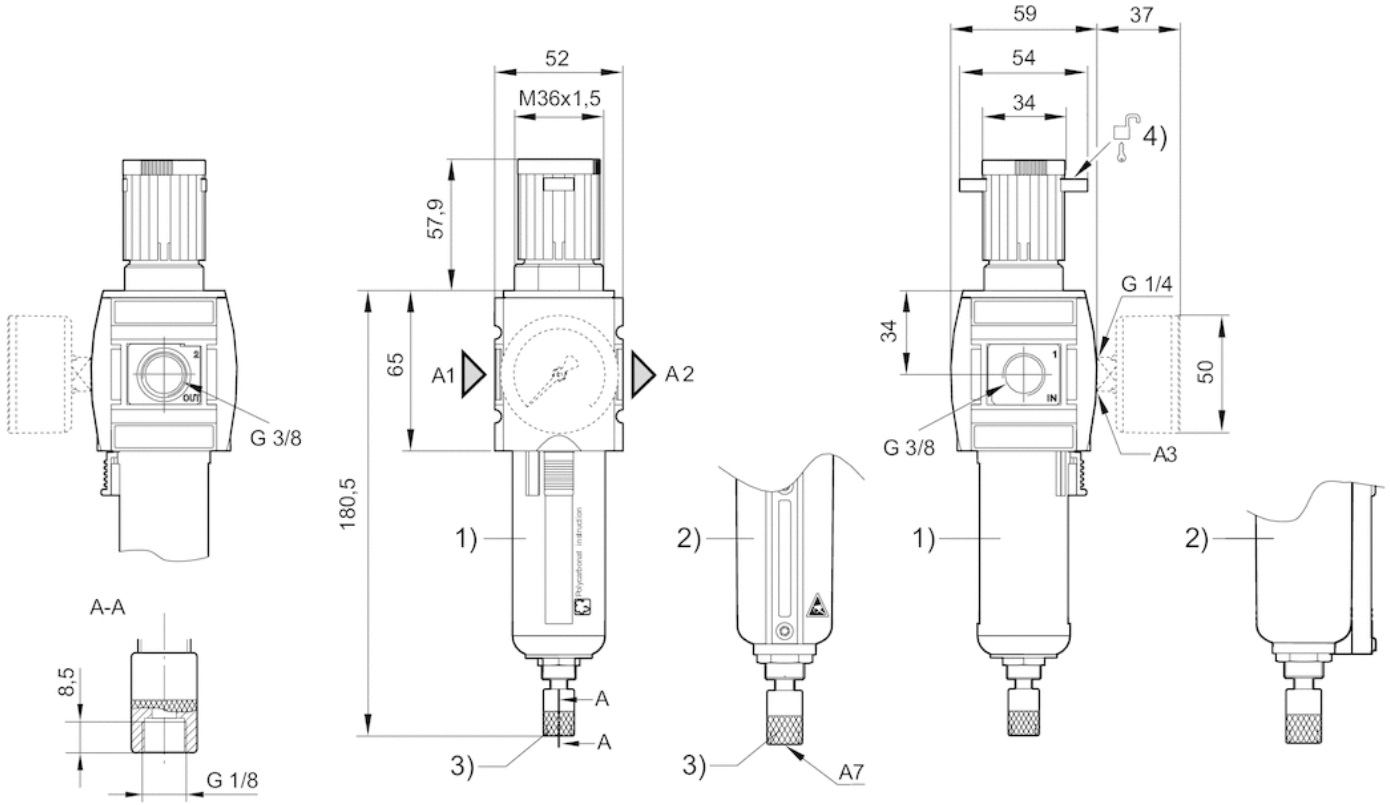
A1 = input
A2 = output
A3 = pressure gauge connection
A7 = condensate drain
1) Plastic reservoir and protective guard with window
2) Metal reservoir
3) Fully automatic condensate drain
4) Mounting option for padlocks, max. shackle Ø 8

Dimensions in mm, Fig. 3



A1 = input
A2 = output
A3 = pressure gauge connection
1) Plastic reservoir and protective guard with window
2) Metal reservoir
3) Semi-automatic condensate drain
4) Mounting option for padlocks, max. shackle Ø 8

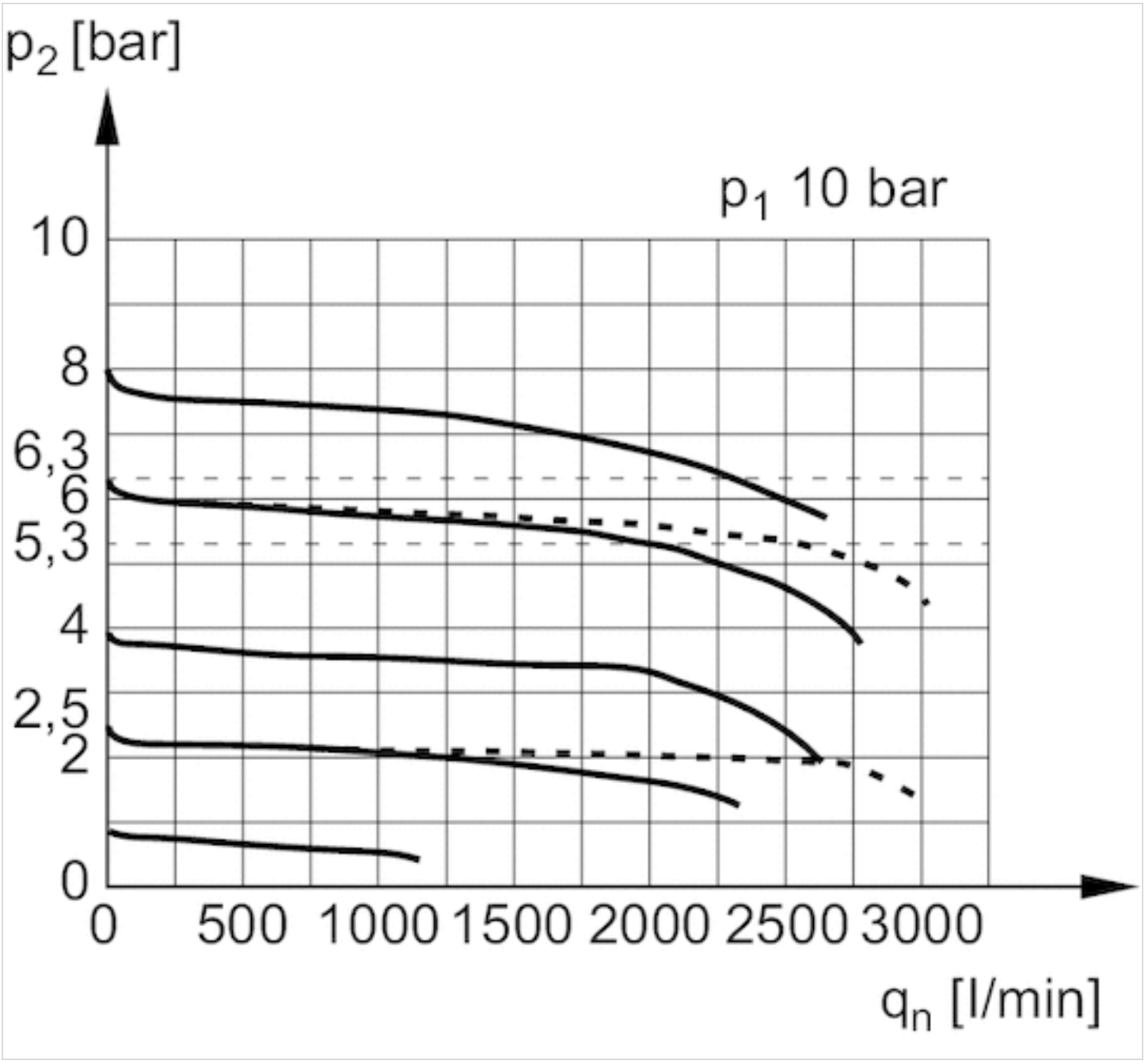
Dimensions in mm, Fig. 4



A1 = input
A2 = output
A3 = pressure gauge connection
A7 = condensate drain
1) Plastic reservoir and protective guard with window
2) Metal reservoir
3) Fully automatic condensate drain
4) Mounting option for padlocks, max. shackle Ø 8

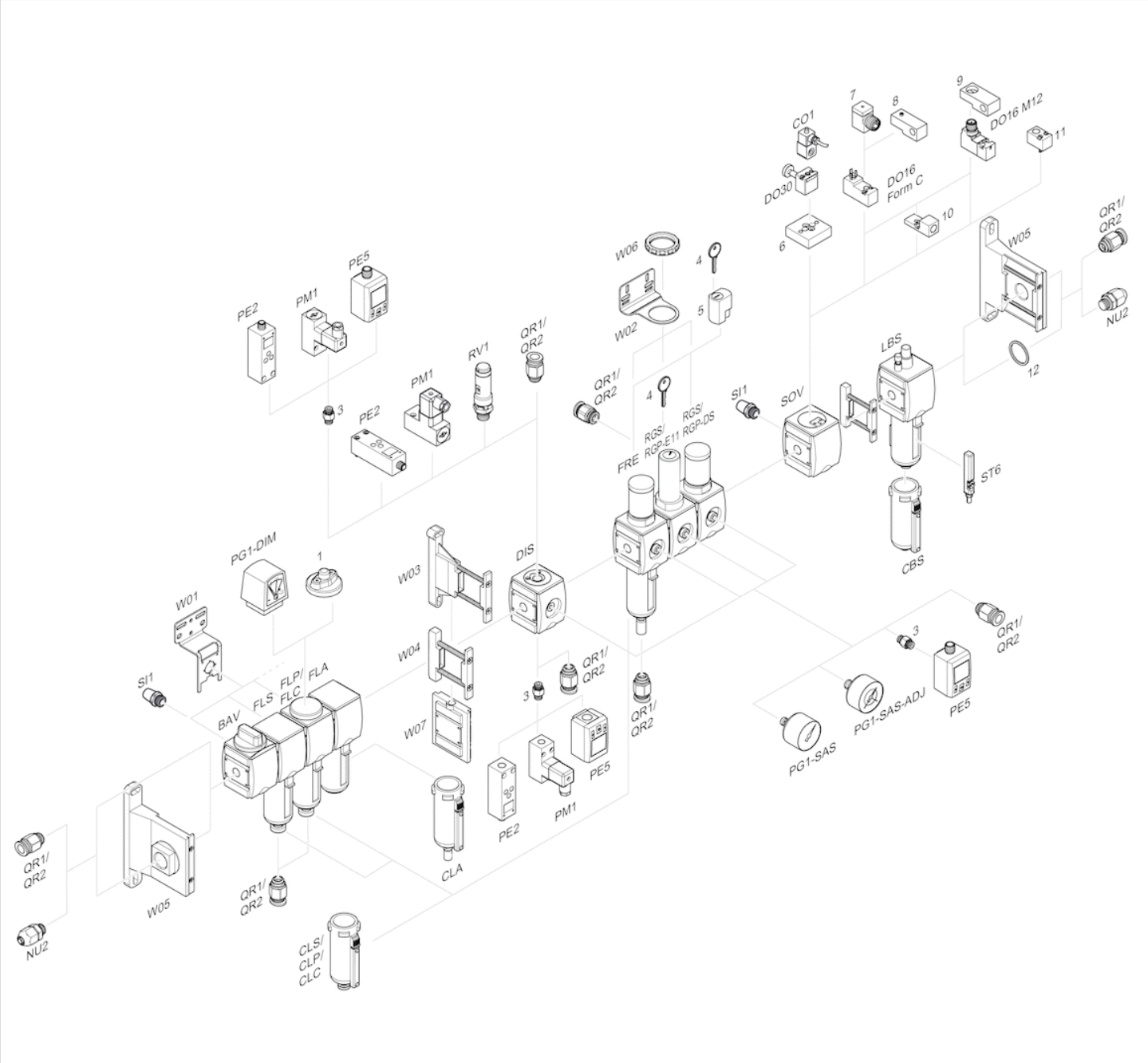
Diagrams

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

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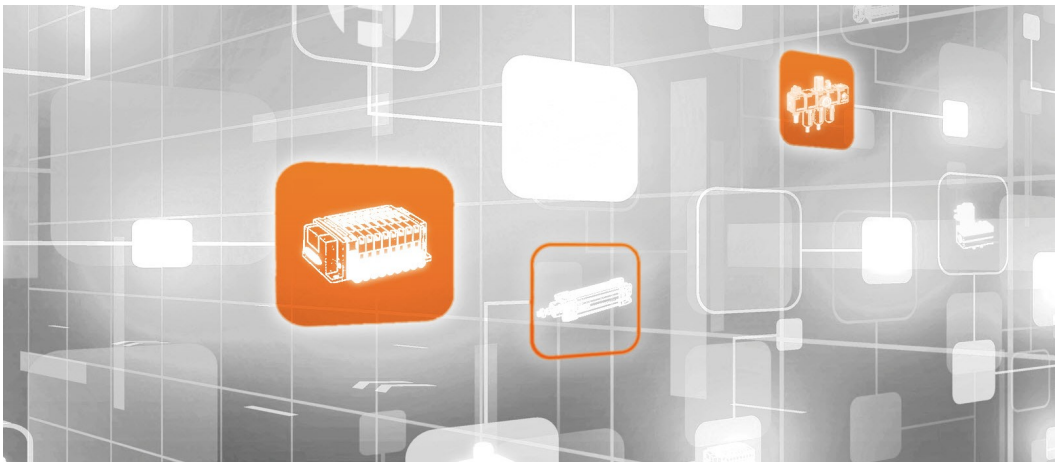

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