

Filter pressure regulator, Series AS1-FRE

- G 1/4
- Air supply right
- filter porosity 5 µm



Type	1-part, Can be assembled into blocks
Parts	Filter pressure regulator
Mounting orientation	vertical
Working pressure min./max.	1,5 ... 12 bar
Ambient temperature min./max.	-10 ... 50 °C
Medium temperature min./max.	-10 ... 50 °C
Medium	Compressed air Neutral gases
Nominal flow Qn	1000 l/min
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	16 cm³
Filter element	exchangeable
Weight	See table below

Technical data

Part No.			Port	filter porosity	Flow	Adjustment range min./max.
					Qn	
R412014723			G 1/4	5 µm	1000 l/min	0,5 ... 8 bar
R412014724			G 1/4	5 µm	1000 l/min	0,5 ... 8 bar
R412014725			G 1/4	5 µm	1000 l/min	0,5 ... 8 bar
R412014726			G 1/4	5 µm	1000 l/min	0,5 ... 8 bar
R412014727			G 1/4	5 µm	1000 l/min	0,5 ... 8 bar
R412014728			G 1/4	5 µm	1000 l/min	0,5 ... 8 bar
R412014729			G 1/4	5 µm	1000 l/min	0,5 ... 8 bar
R412014730		—	G 1/4	5 µm	1000 l/min	0,5 ... 8 bar
R412014731		—	G 1/4	5 µm	1000 l/min	0,5 ... 8 bar
R412014732		—	G 1/4	5 µm	1000 l/min	0,5 ... 8 bar
R412014733			G 1/4	5 µm	1000 l/min	0,5 ... 10 bar
R412014734			G 1/4	5 µm	1000 l/min	0,5 ... 10 bar
R412014735			G 1/4	5 µm	1000 l/min	0,5 ... 10 bar
R412014736			G 1/4	5 µm	1000 l/min	0,5 ... 10 bar
R412014737			G 1/4	5 µm	1000 l/min	0,5 ... 10 bar
R412014738			G 1/4	5 µm	1000 l/min	0,5 ... 10 bar
R412014739			G 1/4	5 µm	1000 l/min	0,5 ... 10 bar

Part No.	Condensate drain	Pressure gauge
R412014723	semi-automatic, open without pressure	With integrated pressure gauge
R412014724	fully automatic, open without pressure	With integrated pressure gauge
R412014725	fully automatic, closed without pressure	With integrated pressure gauge

Part No.	Condensate drain	Pressure gauge
R412014726	semi-automatic, open without pressure	With integrated pressure gauge
R412014727	semi-automatic, open without pressure	With integrated pressure gauge
R412014728	fully automatic, open without pressure	With integrated pressure gauge
R412014729	fully automatic, closed without pressure	With integrated pressure gauge
R412014730	semi-automatic, open without pressure	-
R412014731	fully automatic, open without pressure	-
R412014732	fully automatic, closed without pressure	-
R412014733	semi-automatic, open without pressure	With integrated pressure gauge
R412014734	fully automatic, open without pressure	With integrated pressure gauge
R412014735	fully automatic, closed without pressure	With integrated pressure gauge
R412014736	semi-automatic, open without pressure	With integrated pressure gauge
R412014737	semi-automatic, open without pressure	With integrated pressure gauge
R412014738	fully automatic, open without pressure	With integrated pressure gauge
R412014739	fully automatic, closed without pressure	With integrated pressure gauge

Part No.	Max. pressure gauge Ø in blocked state	Reservoir	Protective guard	Weight	Fig.
R412014723	-	Polycarbonate	-	0,241 kg	Fig. 1
R412014724	-	Polycarbonate	-	0,259 kg	Fig. 1
R412014725	-	Polycarbonate	-	0,259 kg	Fig. 1
R412014726	-	Polycarbonate	metal	0,274 kg	Fig. 1
R412014727	-	Die cast zinc	-	0,318 kg	Fig. 1
R412014728	-	Die cast zinc	-	0,33 kg	Fig. 1
R412014729	-	Die cast zinc	-	0,33 kg	Fig. 1
R412014730	40 mm	Polycarbonate	-	0,238 kg	Fig. 2
R412014731	40 mm	Polycarbonate	-	0,256 kg	Fig. 2
R412014732	40 mm	Polycarbonate	-	0,256 kg	Fig. 2
R412014733	-	Polycarbonate	-	0,241 kg	Fig. 1
R412014734	-	Polycarbonate	-	0,259 kg	Fig. 1
R412014735	-	Polycarbonate	-	0,259 kg	Fig. 1
R412014736	-	Polycarbonate	metal	0,274 kg	Fig. 1
R412014737	-	Die cast zinc	-	0,318 kg	Fig. 1
R412014738	-	Die cast zinc	-	0,33 kg	Fig. 1
R412014739	-	Die cast zinc	-	0,33 kg	Fig. 1

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 .

Note: Polycarbonate reservoirs are susceptible to solvents, supplementary information can be found at "Customer information".
Also suitable for separation of fluid oil or water due to the design.

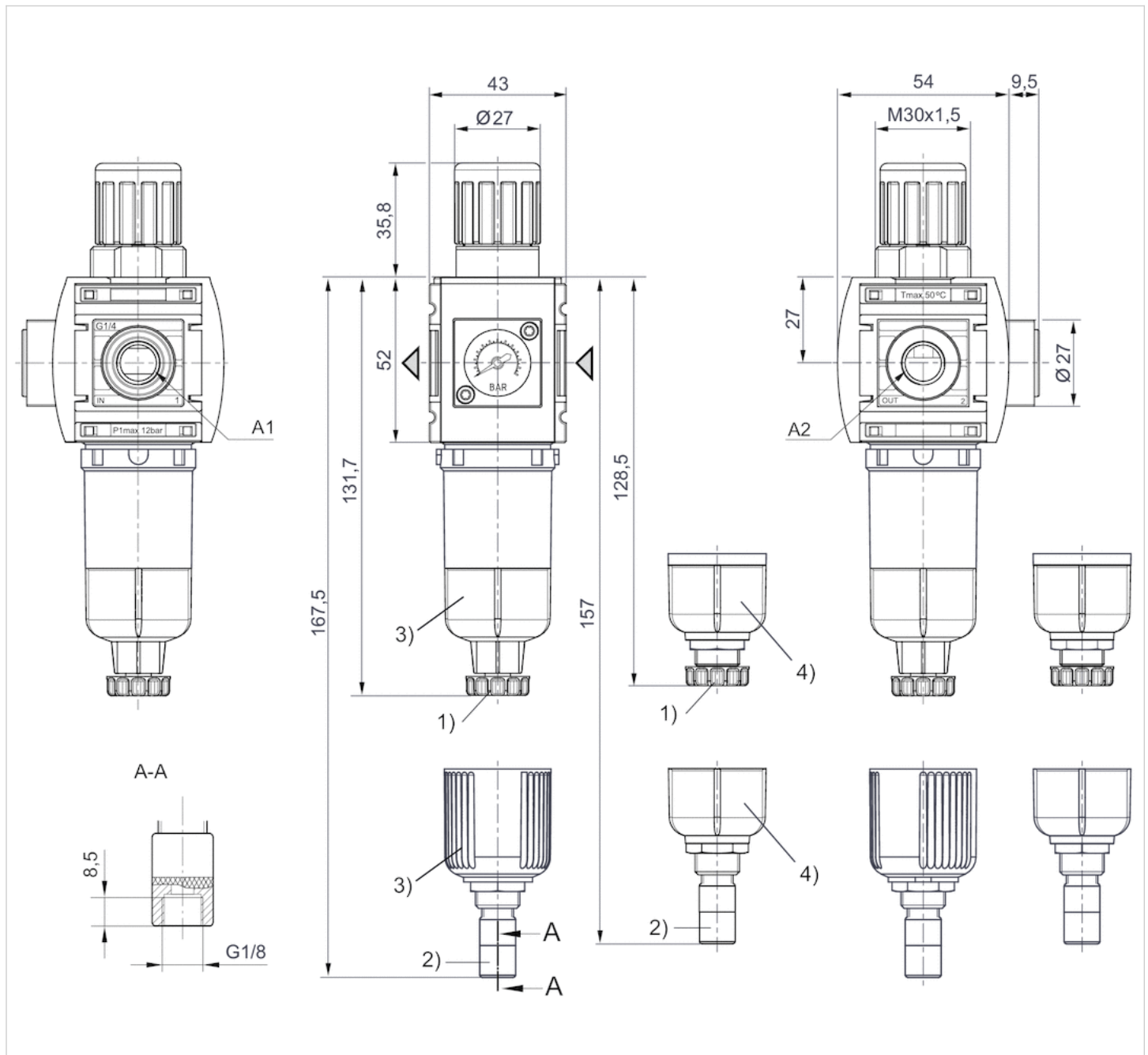
Max. achievable compressed air class acc. to ISO 8573-1:2010 6 : 7 : -

Technical information

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

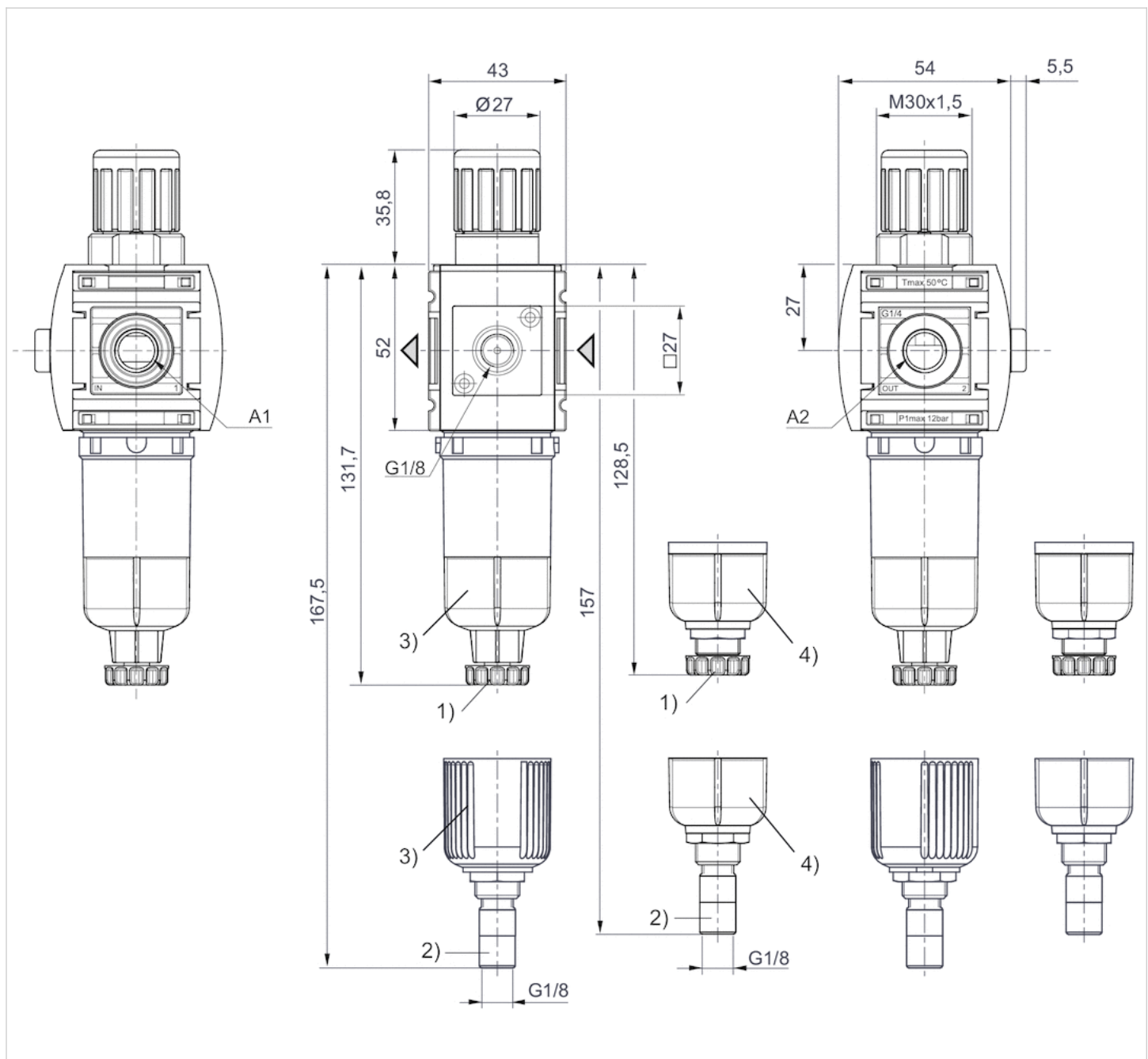
Dimensions

Dimensions in mm, Fig. 1



- A1 = input
A2 = output
1) Semi-automatic condensate drain
2) Fully automatic condensate drain
3) Reservoir: polycarbonate
4) Reservoir: metal

Dimensions in mm, Fig. 2



A1 = input

A2 = output

1) Semi-automatic condensate drain

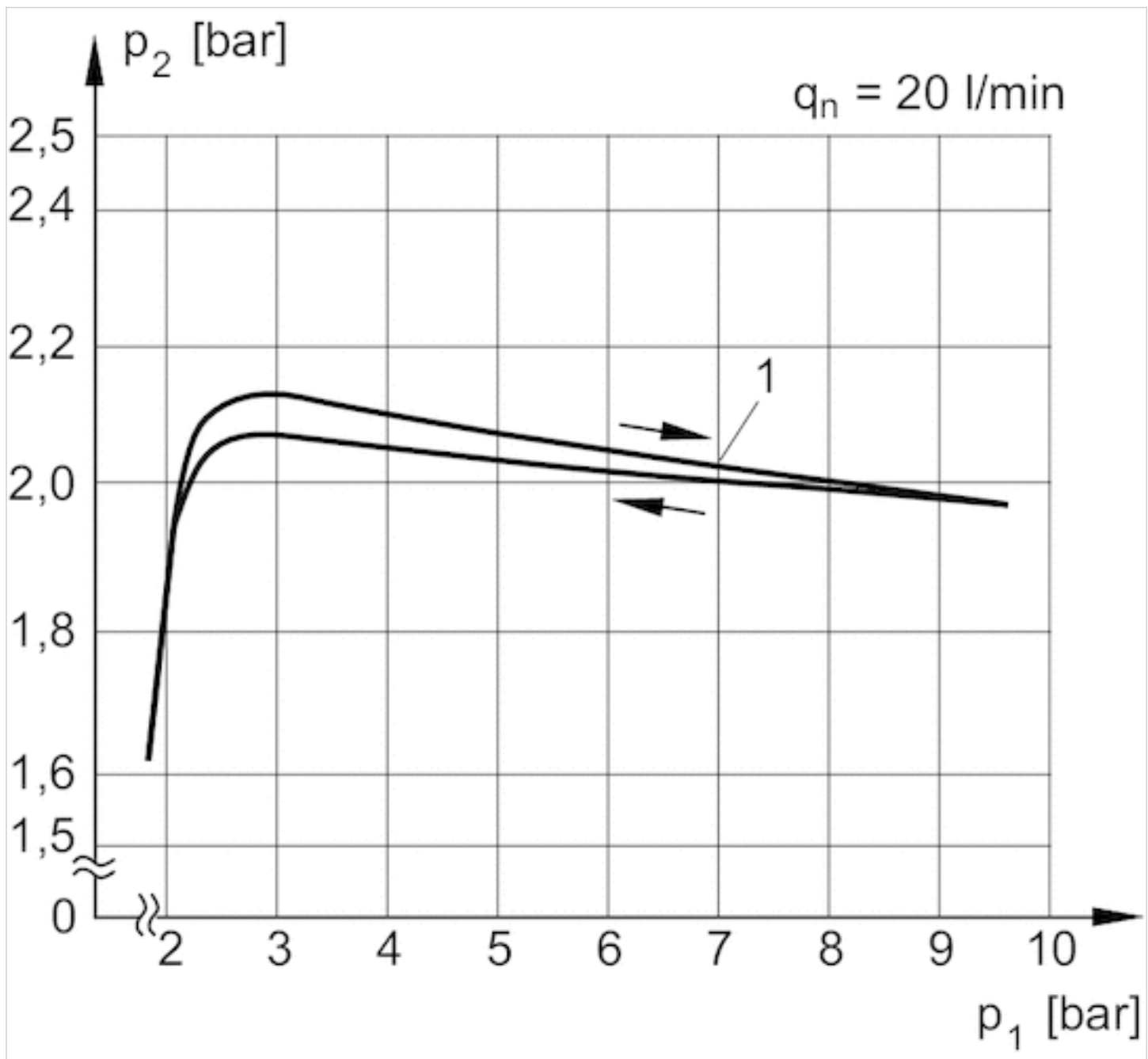
2) Fully automatic condensate drain

3) Reservoir: polycarbonate

4) Reservoir: metal

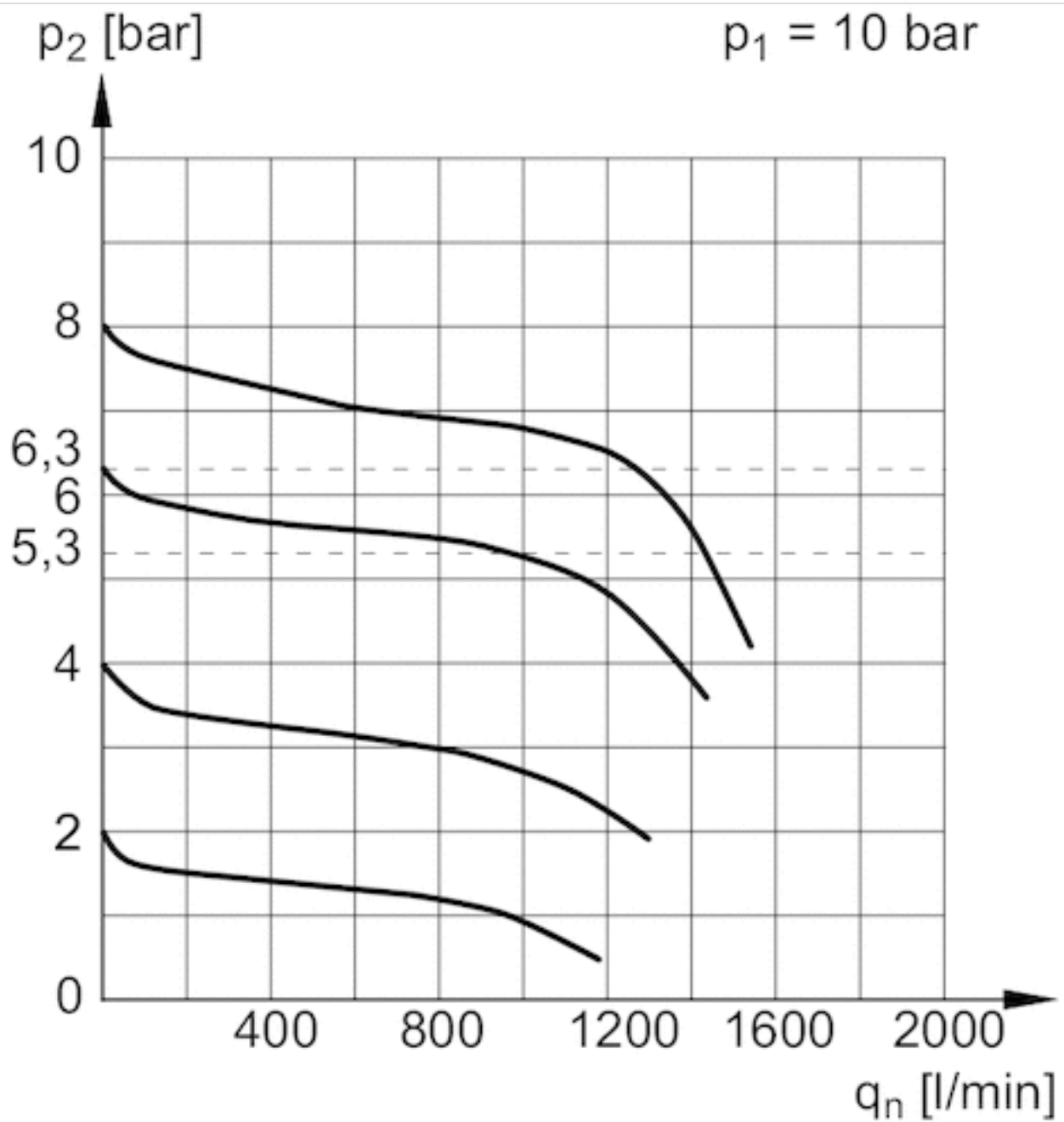
Diagrams

Pressure characteristics curve



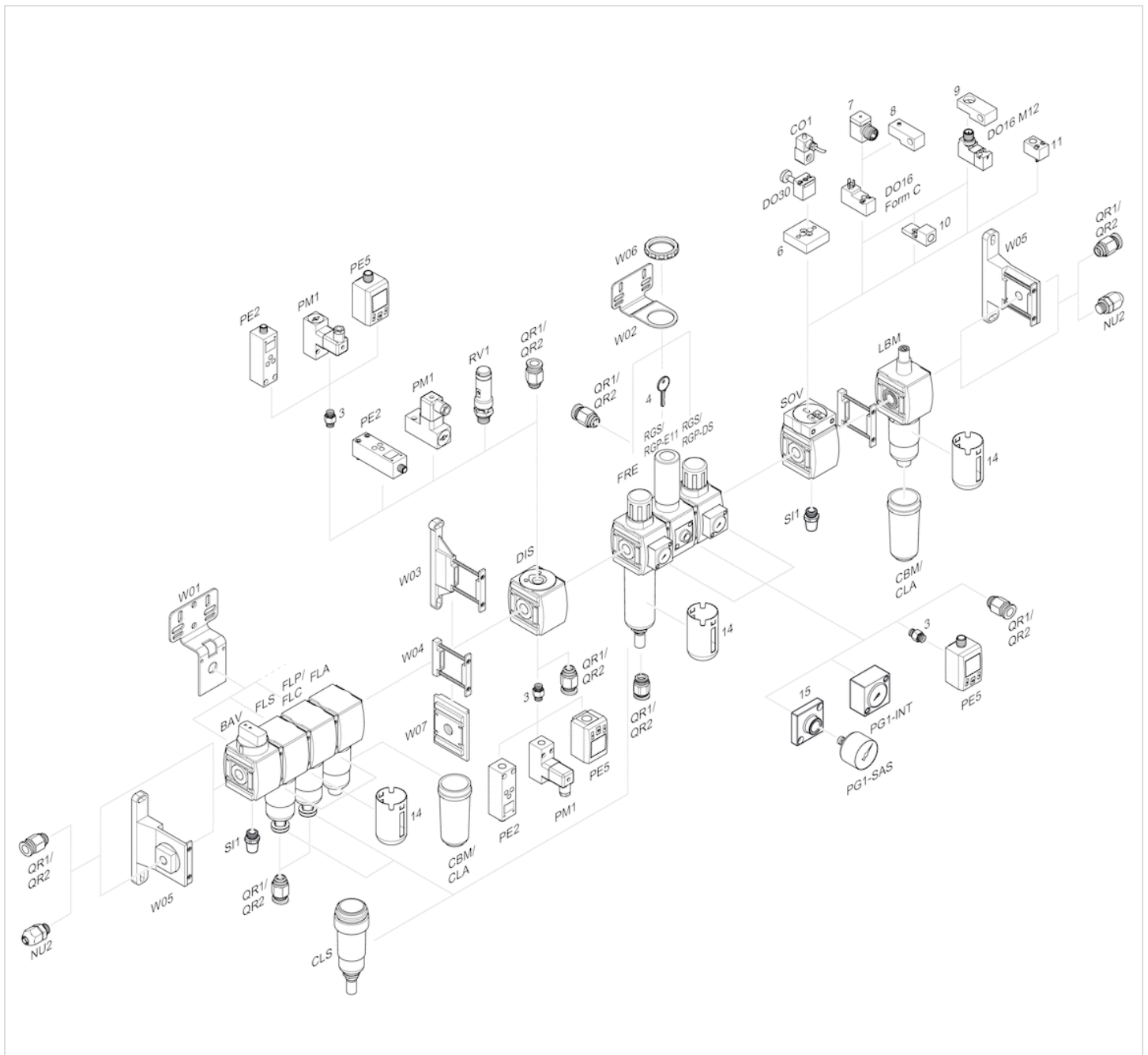
p_1 = working pressure
 p_2 = secondary pressure
 q_n = nominal flow
1) = Starting point

Flow rate characteristic



p_1 = working pressure
 p_2 = secondary pressure
 q_n = nominal flow

Accessories overview



- 3 = Double nipple
- 4 = Key for E11 locking
- 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
- 14 = Protective guard
- 15 = Transition plate for assembling a pressure gauge with connection thread G 1/8

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