

# Pressure regulator, Series AS2-RGS






- G 1/4 G 3/8
- Qn = 2200-2700 l/min
- Standard pressure regulator
- Activation Mechanical
- lockable
- for padlocks
- suitable for ATEX



Parts	Pressure regulator
Mounting orientation	Any
Certificates	suitable for ATEX
Working pressure min./max.	See table below
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 Can be assembled into blocks with relieving air exhaust
Regulator function	
Adjustment range min./max.	See table below
Lock type	for padlocks
Pressure supply	single
Activation	Mechanical
Weight	See table below

## Technical data

Part No.			Port	Flow	Working pressure min./max.	Adjustment range min./max.
				Qn		
R412006101			G 1/4	2200 l/min	0,1 ... 16 bar	0,1 ... 1 bar
R412006103			G 1/4	2200 l/min	0,1 ... 16 bar	0,1 ... 2 bar
R412006105			G 1/4	2200 l/min	0,2 ... 16 bar	0,2 ... 4 bar
R412006107			G 1/4	2200 l/min	0,5 ... 16 bar	0,5 ... 8 bar
R412006109			G 1/4	2200 l/min	0,5 ... 16 bar	0,5 ... 10 bar
R412006111			G 1/4	2200 l/min	0,5 ... 16 bar	0,5 ... 16 bar
R412006100		—	G 1/4	2200 l/min	0,1 ... 16 bar	0,1 ... 1 bar
R412006102		—	G 1/4	2200 l/min	0,1 ... 16 bar	0,1 ... 2 bar
R412006104		—	G 1/4	2200 l/min	0,2 ... 16 bar	0,2 ... 4 bar
R412006106		—	G 1/4	2200 l/min	0,5 ... 16 bar	0,5 ... 8 bar
R412006108		—	G 1/4	2200 l/min	0,5 ... 16 bar	0,5 ... 10 bar
R412006110		—	G 1/4	2200 l/min	0,5 ... 16 bar	0,5 ... 16 bar
R412006113			G 3/8	2700 l/min	0,1 ... 16 bar	0,1 ... 1 bar
R412006115			G 3/8	2700 l/min	0,1 ... 16 bar	0,1 ... 2 bar
R412006117			G 3/8	2700 l/min	0,2 ... 16 bar	0,2 ... 4 bar
R412006119			G 3/8	2700 l/min	0,5 ... 16 bar	0,5 ... 8 bar
R412006121			G 3/8	2700 l/min	0,5 ... 16 bar	0,5 ... 10 bar
R412006123			G 3/8	2700 l/min	0,5 ... 16 bar	0,5 ... 16 bar
R412006112		—	G 3/8	2700 l/min	0,1 ... 16 bar	0,1 ... 1 bar
R412006114		—	G 3/8	2700 l/min	0,1 ... 16 bar	0,1 ... 2 bar

Part No.			Port	Flow	Working pressure min./max.	Adjustment range min./max.
				Qn		
R412006116		—	G 3/8	2700 l/min	0,2 ... 16 bar	0,2 ... 4 bar
R412006118		—	G 3/8	2700 l/min	0,5 ... 16 bar	0,5 ... 8 bar
R412006120		—	G 3/8	2700 l/min	0,5 ... 16 bar	0,5 ... 10 bar
R412006122		—	G 3/8	2700 l/min	0,5 ... 16 bar	0,5 ... 16 bar
R414012351		—	G 1/4	2200 l/min	0,5 ... 16 bar	0,5 ... 8 bar

Part No.	Pressure gauge	Weight	Fig.	
R412006101	with pressure gauge	0,32 kg	Fig. 1	1)
R412006103	with pressure gauge	0,32 kg	Fig. 1	1)
R412006105	with pressure gauge	0,32 kg	Fig. 1	1)
R412006107	with pressure gauge	0,32 kg	Fig. 1	1)
R412006109	with pressure gauge	0,32 kg	Fig. 1	1)
R412006111	with pressure gauge	0,32 kg	Fig. 1	1)
R412006100	-	0,248 kg	Fig. 1	2)
R412006102	-	0,248 kg	Fig. 1	2)
R412006104	-	0,248 kg	Fig. 1	2)
R412006106	-	0,248 kg	Fig. 1	2)
R412006108	-	0,248 kg	Fig. 1	2)
R412006110	-	0,248 kg	Fig. 1	2)
R412006113	with pressure gauge	0,32 kg	Fig. 2	1)
R412006115	with pressure gauge	0,32 kg	Fig. 2	1)
R412006117	with pressure gauge	0,32 kg	Fig. 2	1)
R412006119	with pressure gauge	0,32 kg	Fig. 2	1)
R412006121	with pressure gauge	0,32 kg	Fig. 2	1)
R412006123	with pressure gauge	0,32 kg	Fig. 2	1)
R412006112	-	0,248 kg	Fig. 2	2)
R412006114	-	0,248 kg	Fig. 2	2)
R412006116	-	0,248 kg	Fig. 2	2)
R412006118	-	0,248 kg	Fig. 2	2)
R412006120	-	0,248 kg	Fig. 2	2)
R412006122	-	0,248 kg	Fig. 2	2)
R414012351	-	0,332 kg	Fig. 1	3)

Nominal flow Qn with secondary pressure p2 = 6 bar at  $\Delta p = 1$  bar

- 1) Pressure gauge enclosed separately, Suitable for use in Ex zones 1, 2, 21, 22., With rear exhaust (> 3 bar ).
- 2) Order pressure gauge separately, Suitable for use in Ex zones 1, 2, 21, 22., With rear exhaust (> 3 bar ).
- 3) Order pressure gauge separately, Suitable for use in Ex zones 1, 2, 21, 22. Safe rear exhaust in case of drop (removal) of pilot pressure.

## Technical information

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

The rear pressure gauge connection on the pressure regulator is closed with a blanking plug, the front connection is open. Depending on the customer application, a second blanking plug may be necessary. Please order separately (see accessories).

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.

Relieving exhaust ( $\leq 0.3$  bar over set pressure).

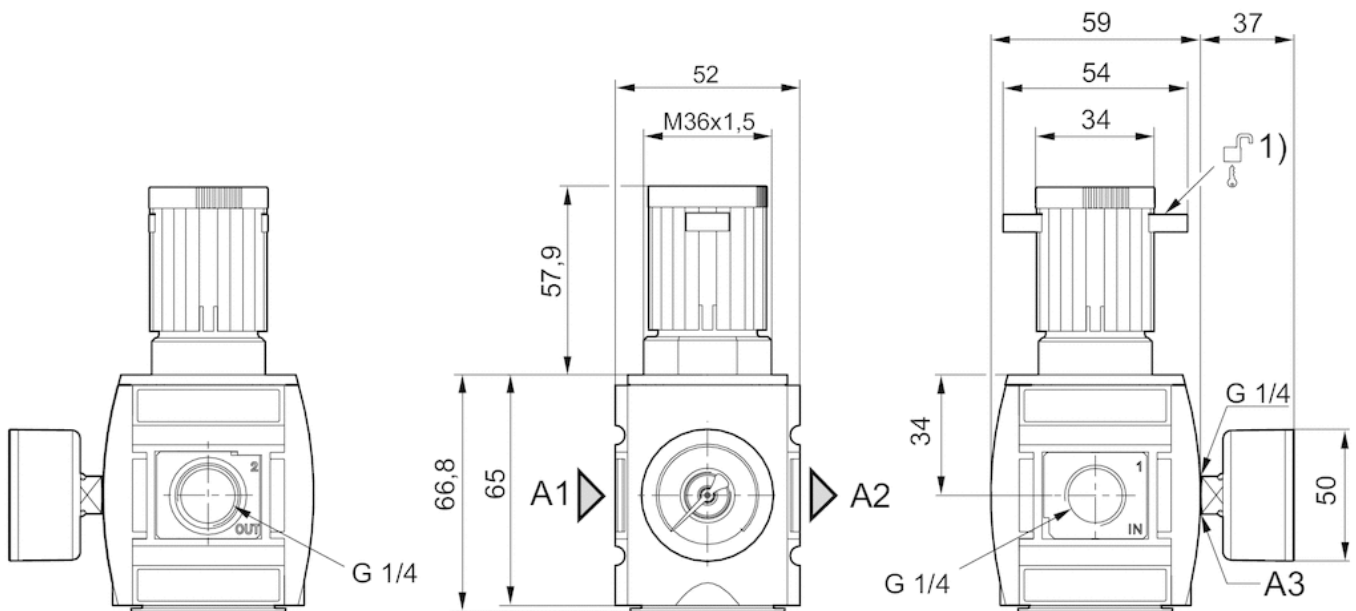
With rear exhaust (> 3 bar ).

## Technical information

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

## Dimensions

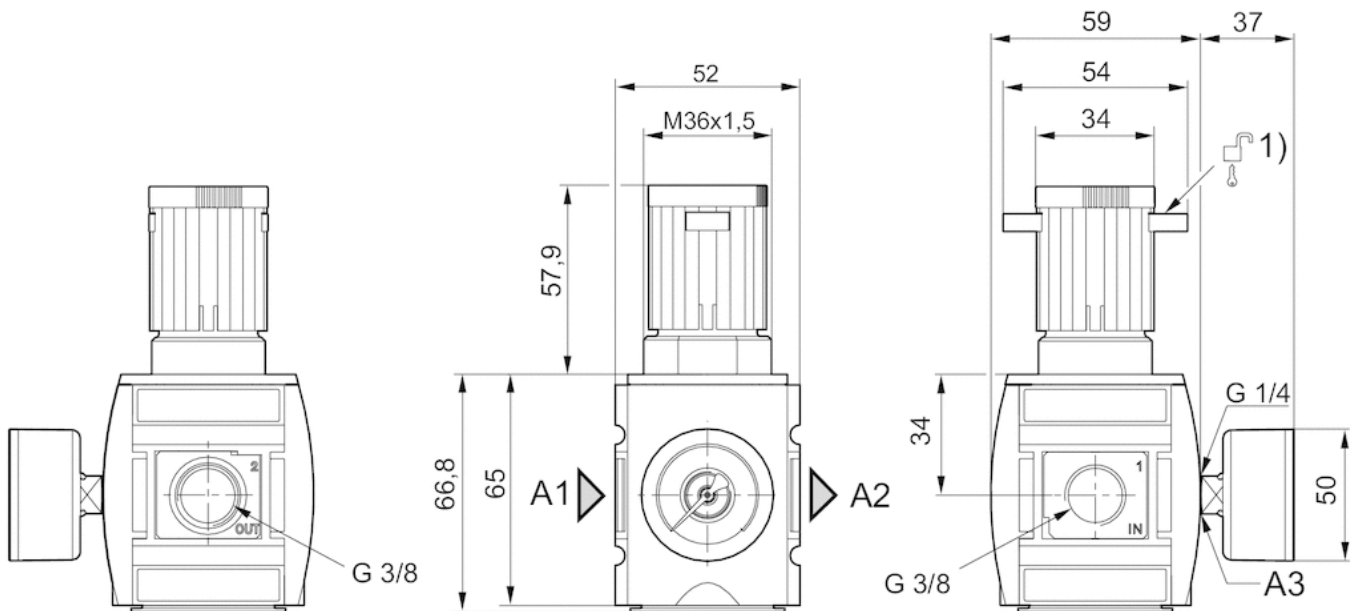
Dimensions in mm, Fig. 1



A1 = input

A2 = output  
 A3 = pressure gauge connection  
 1) Mounting option for padlocks, max. shackle Ø 8

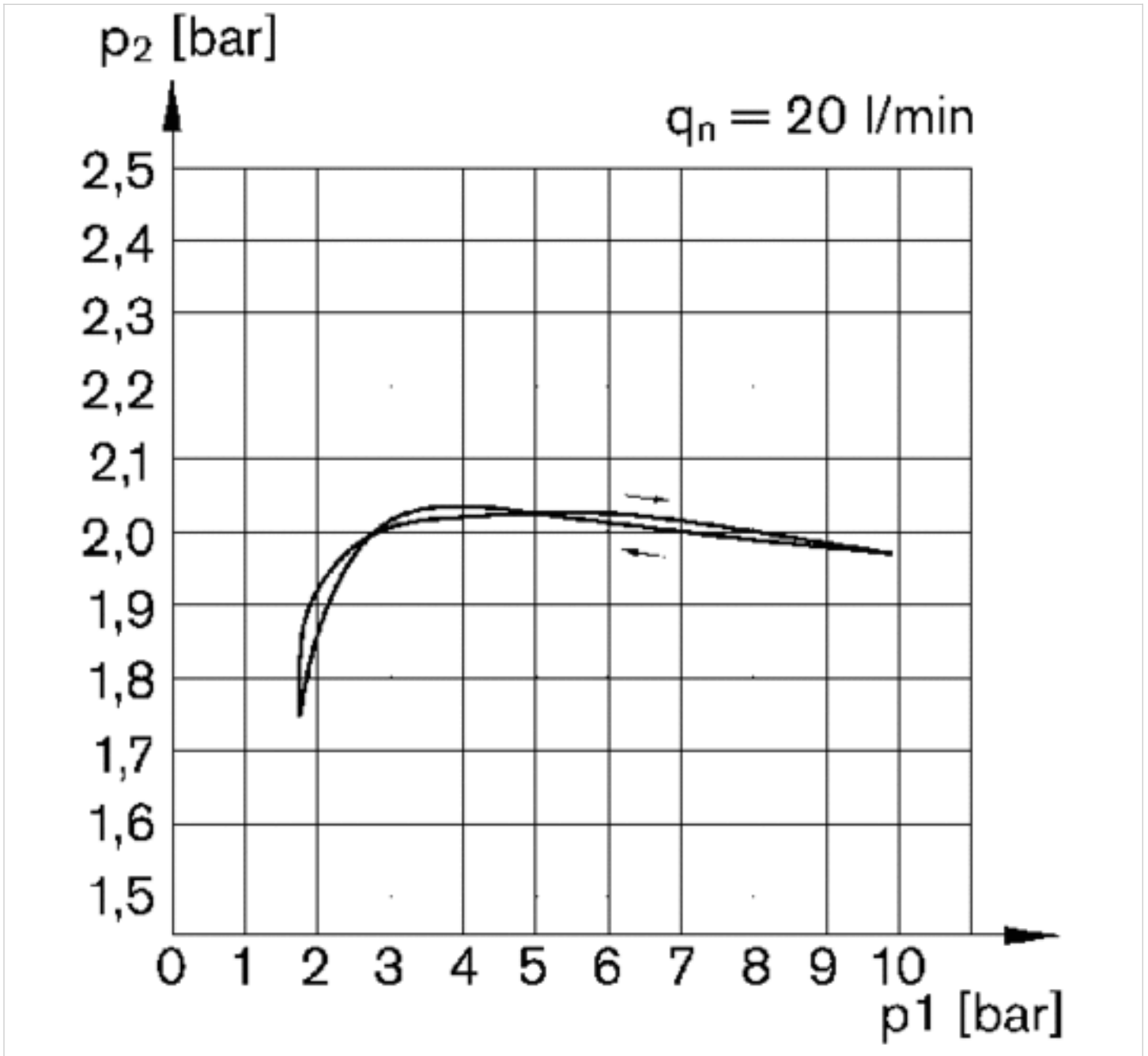
Dimensions in mm, Fig. 2



A1 = input  
 A2 = output  
 A3 = pressure gauge connection  
 1) Mounting option for padlocks, max. shackle Ø 8

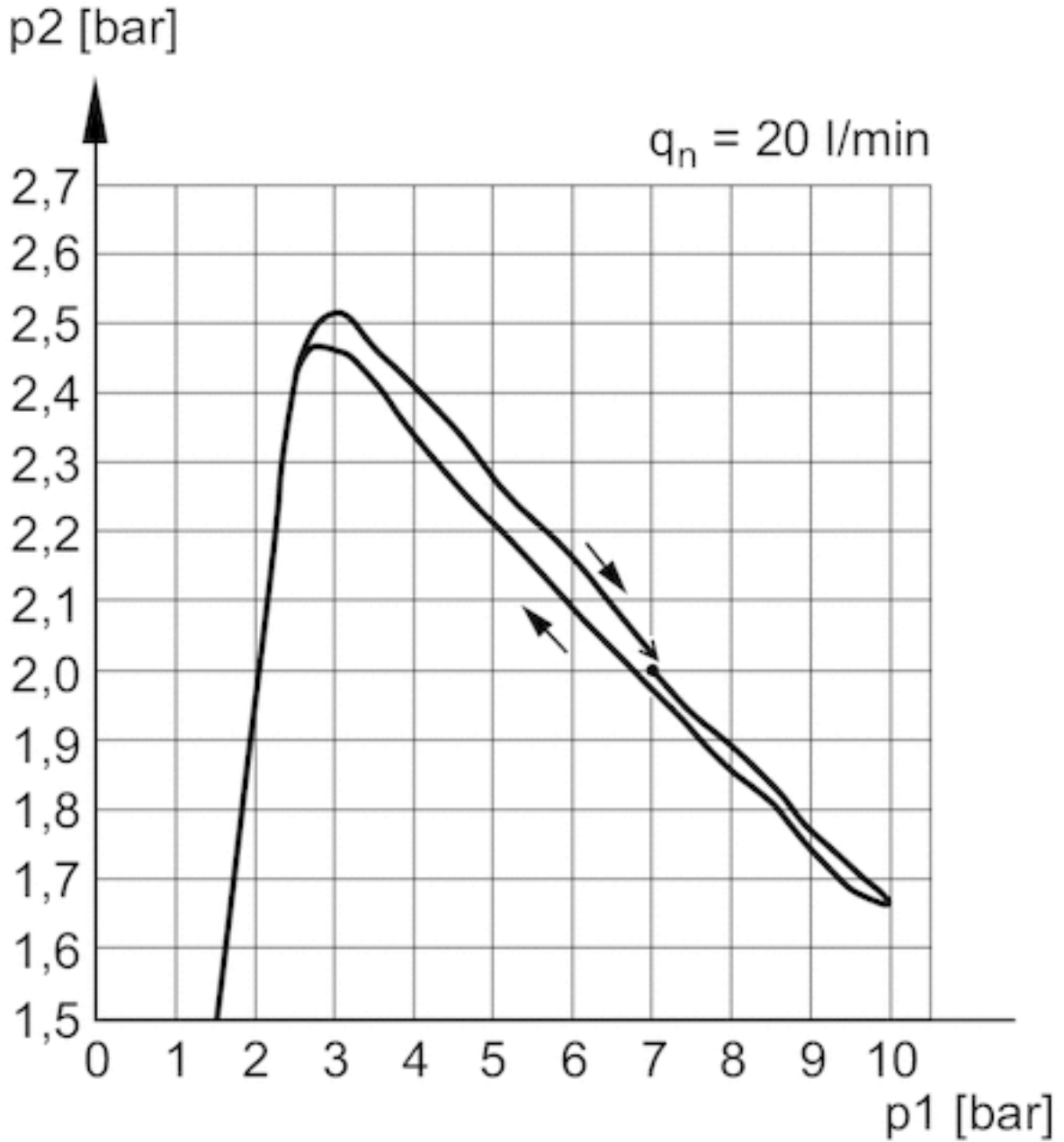
Diagrams

Pressure characteristics curve, Standard version



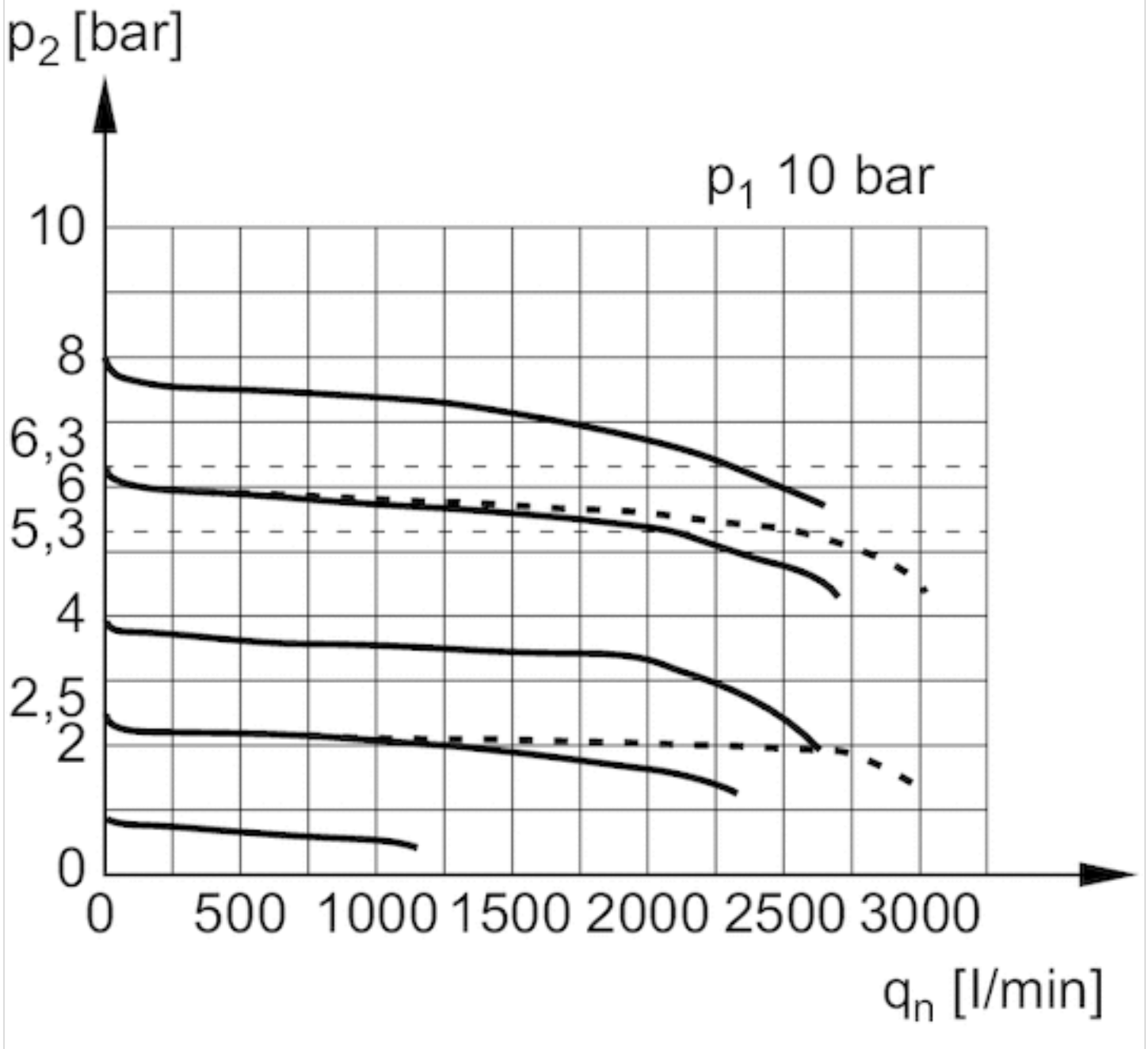
$p_1$  = Working pressure  
 $p_2$  = Secondary pressure  
 $q_n$  = Nominal flow

Pressure characteristics curve, Version with safe rear exhaust in case of drop (removal) of pilot pressure



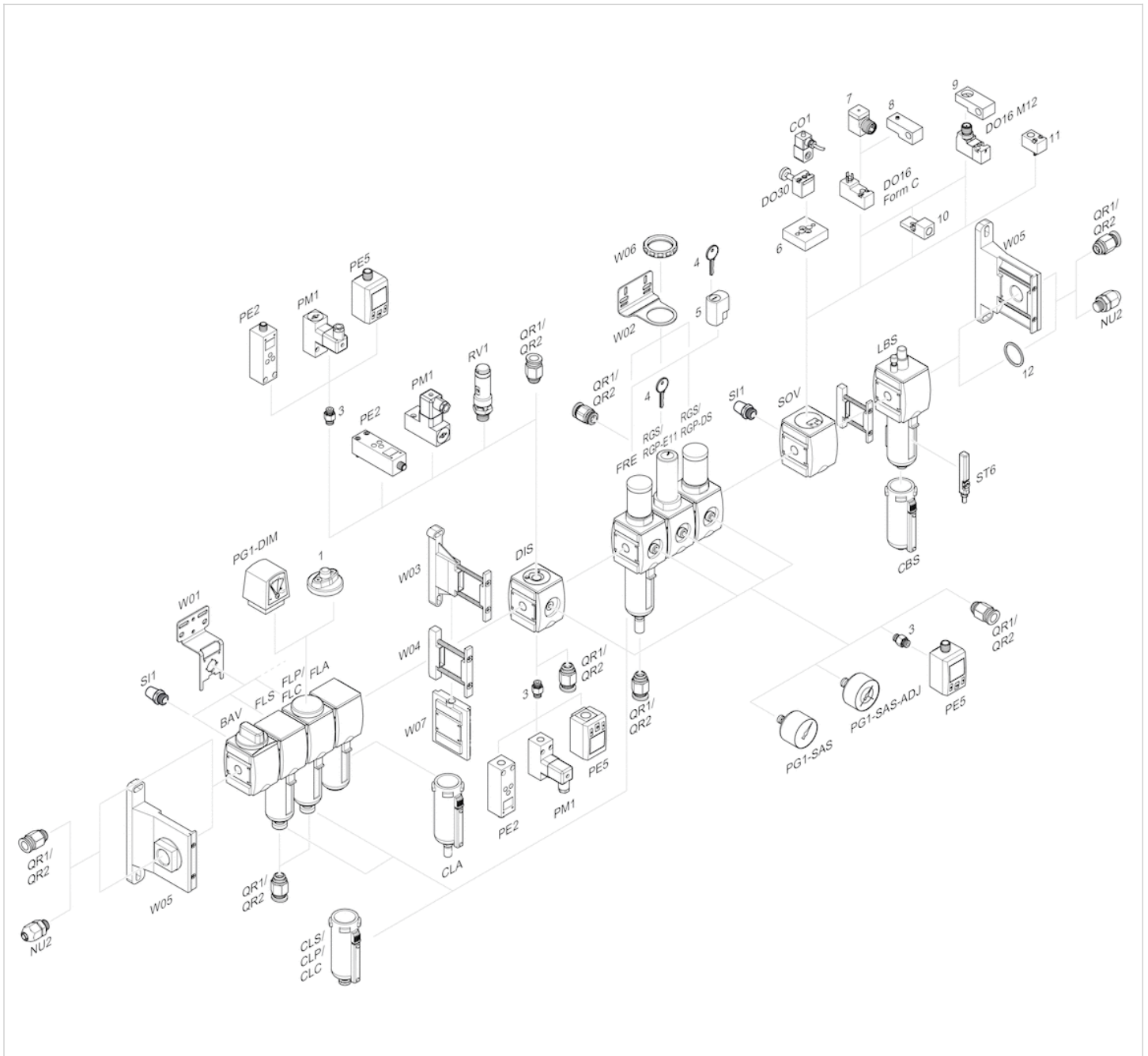
$p_1$  = Working pressure  
 $p_2$  = Secondary pressure  
 $q_n$  = Nominal flow

Flow rate characteristic (p<sub>2</sub>: 0,5 - 8 bar)



p<sub>1</sub> = Working pressure  
p<sub>2</sub> = Secondary pressure  
q<sub>n</sub> = 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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2021-05



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