

Pressure regulator, Series AS3-RGS

- G 3/8 G 1/2
- Qn = 1600-5200 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
Regulator function	with relieving air exhaust
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		
R412007101			G 3/8	1600 l/min	0,1 ... 16 bar	0,1 ... 1 bar
R412007103			G 3/8	4600 l/min	0,1 ... 16 bar	0,1 ... 2 bar
R412007105			G 3/8	5000 l/min	0,2 ... 16 bar	0,2 ... 4 bar
R412007107			G 3/8	4300 l/min	0,5 ... 16 bar	0,5 ... 8 bar
R412007109			G 3/8	4300 l/min	0,5 ... 16 bar	0,5 ... 10 bar
R412007111			G 3/8	3500 l/min	0,5 ... 16 bar	0,5 ... 16 bar
R412007100		—	G 3/8	1600 l/min	0,1 ... 16 bar	0,1 ... 1 bar
R412007102		—	G 3/8	4600 l/min	0,1 ... 16 bar	0,1 ... 2 bar
R412007104		—	G 3/8	5000 l/min	0,2 ... 16 bar	0,2 ... 4 bar
R412007106		—	G 3/8	4300 l/min	0,5 ... 16 bar	0,5 ... 8 bar
R412007108		—	G 3/8	4300 l/min	0,5 ... 16 bar	0,5 ... 10 bar
R412007110		—	G 3/8	3500 l/min	0,5 ... 16 bar	0,5 ... 16 bar
R412007113			G 1/2	1600 l/min	0,1 ... 16 bar	0,1 ... 1 bar
R412007115			G 1/2	4600 l/min	0,1 ... 16 bar	0,1 ... 2 bar
R412007117			G 1/2	5000 l/min	0,2 ... 16 bar	0,2 ... 4 bar
R412007119			G 1/2	5200 l/min	0,5 ... 16 bar	0,5 ... 8 bar
R412007121			G 1/2	5200 l/min	0,5 ... 16 bar	0,5 ... 10 bar
R412007123			G 1/2	4000 l/min	0,5 ... 16 bar	0,5 ... 16 bar
R412007112		—	G 1/2	1600 l/min	0,1 ... 16 bar	0,1 ... 1 bar
R412007114		—	G 1/2	4600 l/min	0,1 ... 16 bar	0,1 ... 2 bar

Part No.			Port	Flow	Working pressure min./max.	Adjustment range min./max.
				Qn		
R412007116		—	G 1/2	5000 l/min	0,2 ... 16 bar	0,2 ... 4 bar
R412007118		—	G 1/2	5200 l/min	0,5 ... 16 bar	0,5 ... 8 bar
R412007120		—	G 1/2	5200 l/min	0,5 ... 16 bar	0,5 ... 10 bar
R412007122		—	G 1/2	4000 l/min	0,5 ... 16 bar	0,5 ... 16 bar

Part No.	Pressure gauge	Weight	
R412007101	with pressure gauge	0,6 kg	1)
R412007103	with pressure gauge	0,6 kg	1)
R412007105	with pressure gauge	0,6 kg	1)
R412007107	with pressure gauge	0,6 kg	1)
R412007109	with pressure gauge	0,6 kg	1)
R412007111	with pressure gauge	0,6 kg	1)
R412007100	-	0,528 kg	2)
R412007102	-	0,528 kg	2)
R412007104	-	0,528 kg	2)
R412007106	-	0,528 kg	2)
R412007108	-	0,528 kg	2)
R412007110	-	0,528 kg	2)
R412007113	with pressure gauge	0,6 kg	1)
R412007115	with pressure gauge	0,6 kg	1)
R412007117	with pressure gauge	0,6 kg	1)
R412007119	with pressure gauge	0,6 kg	1)
R412007121	with pressure gauge	0,6 kg	1)
R412007123	with pressure gauge	0,6 kg	1)
R412007112	-	0,528 kg	2)
R412007114	-	0,528 kg	2)
R412007116	-	0,528 kg	2)
R412007118	-	0,528 kg	2)
R412007120	-	0,528 kg	2)
R412007122	-	0,528 kg	2)

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
 2) 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 .

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 (≤ 0.3 bar over set pressure)

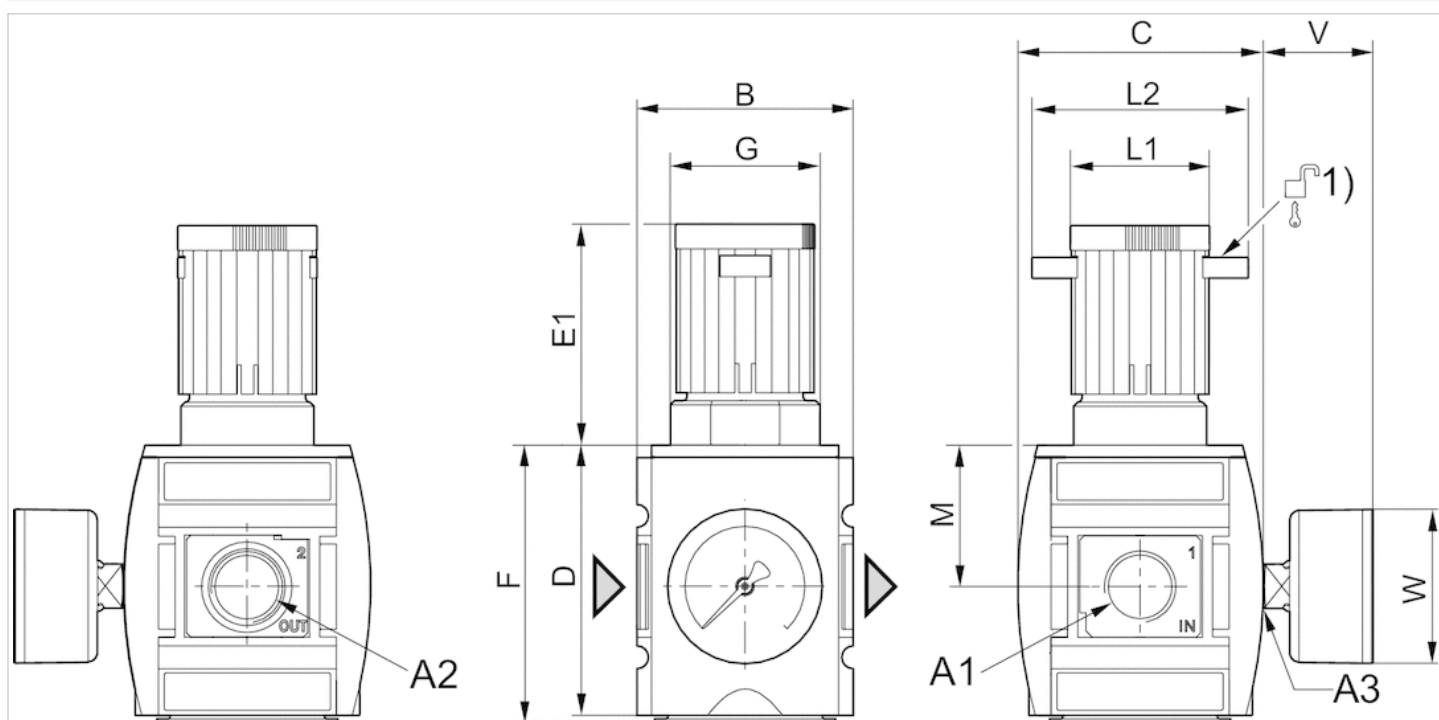
With rear exhaust (> 3 bar)

Technical information

Material	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



A1 = input

A2 = output

A3 = pressure gauge connection

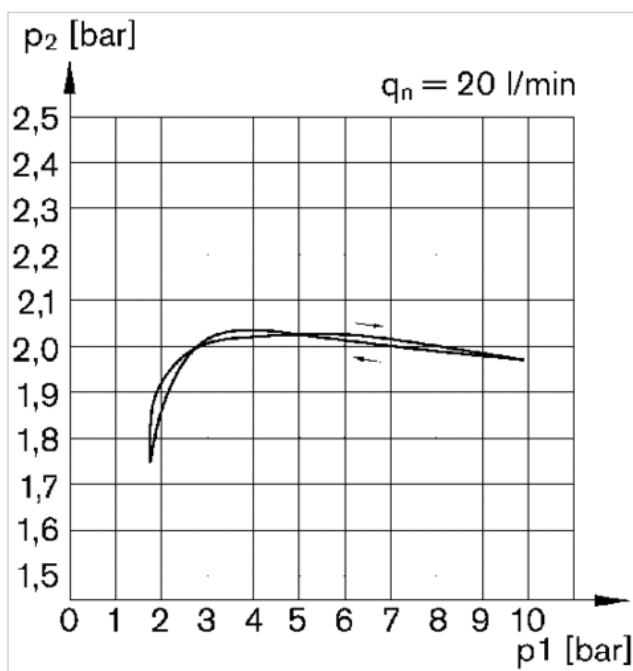
1) Mounting option for padlocks, max. shackle Ø 8

Dimensions in mm

A1	A2	A3	B	C	D	E1	F	G	L1	L2	M	V	W
G 3/8	G 3/8	G 1/4	63	74	80	63.5	82	M42x1,5	41	60	42.5	33	50
G 1/2	G 1/2	G 1/4	63	74	80	63.5	82	M42x1,5	41	60	42.5	33	50

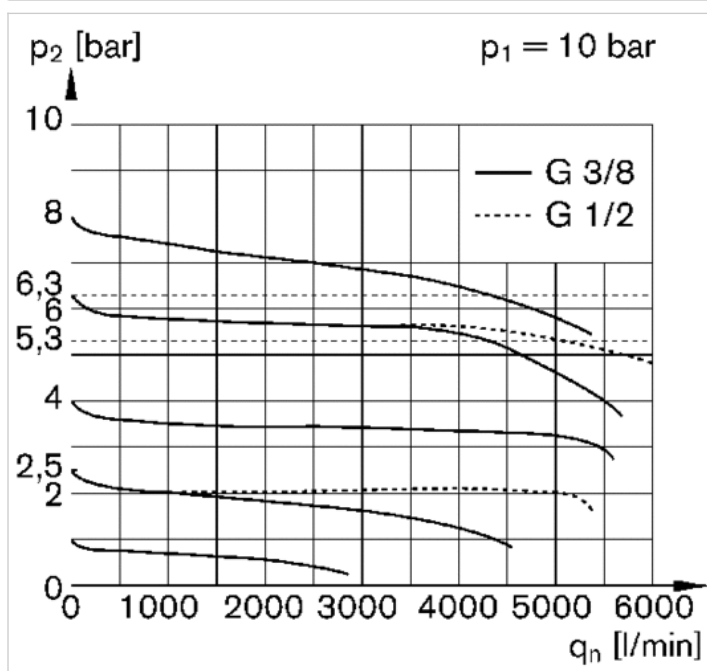
Diagrams

Pressure characteristics curve, Standard version



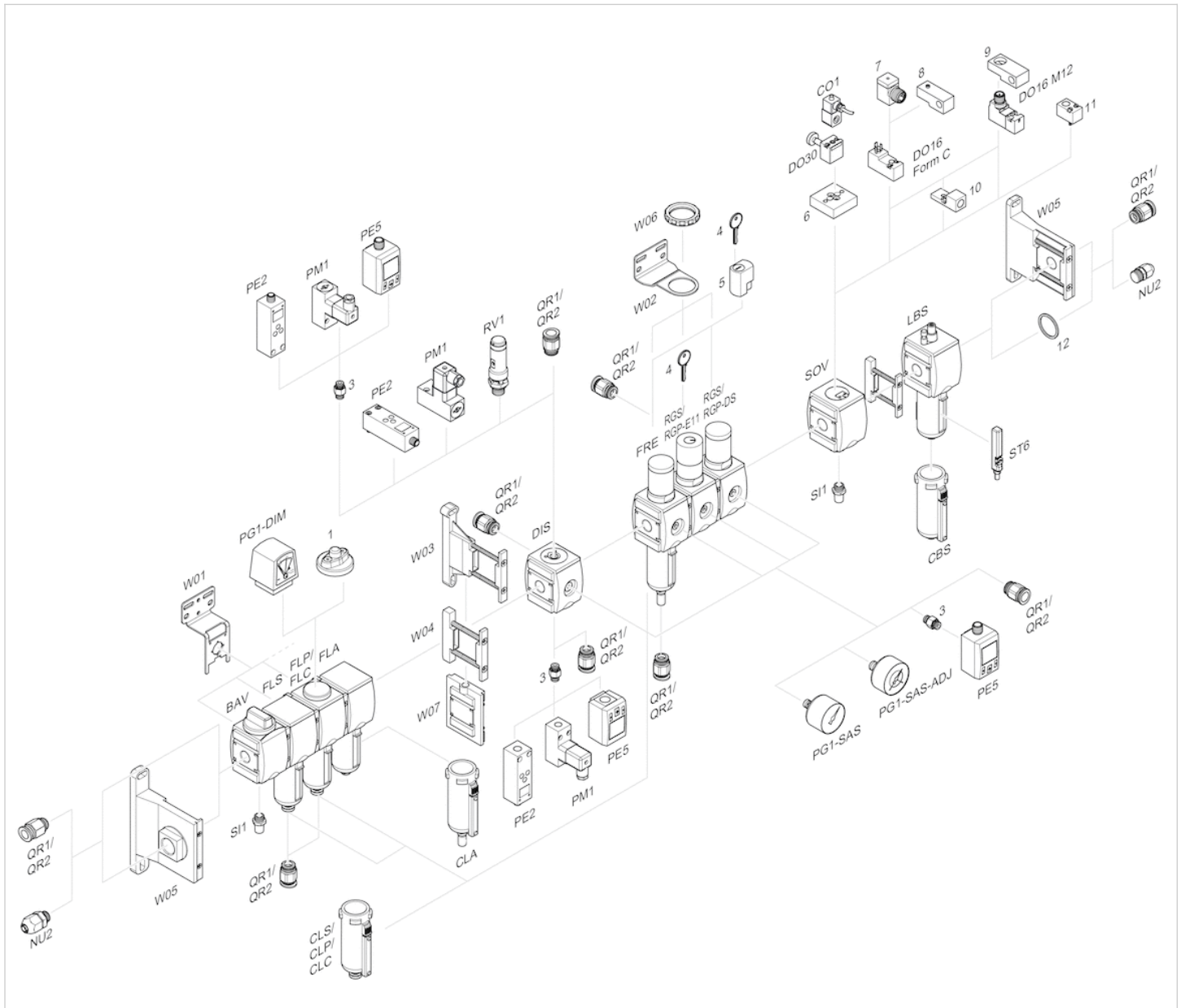
p_1 = Working pressure
 p_2 = Secondary pressure
 q_n = Nominal flow

Flow rate characteristic (p_2 : 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