

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

Mounting orientation

Certificates

Working pressure min./max.

Ambient temperature min./max.

Medium temperature min./max.

Medium

Regulator type

Regulator function

Adjustment range min./max.

Lock type

Pressure supply

Activation

Weight

Pressure regulator

Any

suitable for ATEX

See table below

-10 ... 50 °C

-10 ... 50 °C

Compressed air Neutral gases

Diaphragm-type pressure regulator Can be assembled into blocks

with relieving air exhaust

See table below

for padlocks

single

Mechanical

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 3/8	2700 l/min	0,5 ... 16 bar	0,5 ... 16 bar

Part No.	Pressure gauge	Weight	
R412006101	with pressure gauge	0,32 kg	1)
R412006103	with pressure gauge	0,32 kg	1)
R412006105	with pressure gauge	0,32 kg	1)
R412006107	with pressure gauge	0,32 kg	1)
R412006109	with pressure gauge	0,32 kg	1)
R412006111	with pressure gauge	0,32 kg	1)
R412006100	-	0,248 kg	2)
R412006102	-	0,248 kg	2)
R412006104	-	0,248 kg	2)
R412006106	-	0,248 kg	2)
R412006108	-	0,248 kg	2)
R412006110	-	0,248 kg	2)
R412006113	with pressure gauge	0,32 kg	1)
R412006115	with pressure gauge	0,32 kg	1)
R412006117	with pressure gauge	0,32 kg	1)
R412006119	with pressure gauge	0,32 kg	1)
R412006121	with pressure gauge	0,32 kg	1)
R412006123	with pressure gauge	0,32 kg	1)
R412006112	-	0,248 kg	2)
R412006114	-	0,248 kg	2)
R412006116	-	0,248 kg	2)
R412006118	-	0,248 kg	2)
R412006120	-	0,248 kg	2)
R412006122	-	0,248 kg	2)
R414012351	-	0,248 kg	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
- 2) Order pressure gauge separately, Suitable for use in Ex zones 1, 2, 21, 22
- 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 (≤ 0.3 bar over set pressure)

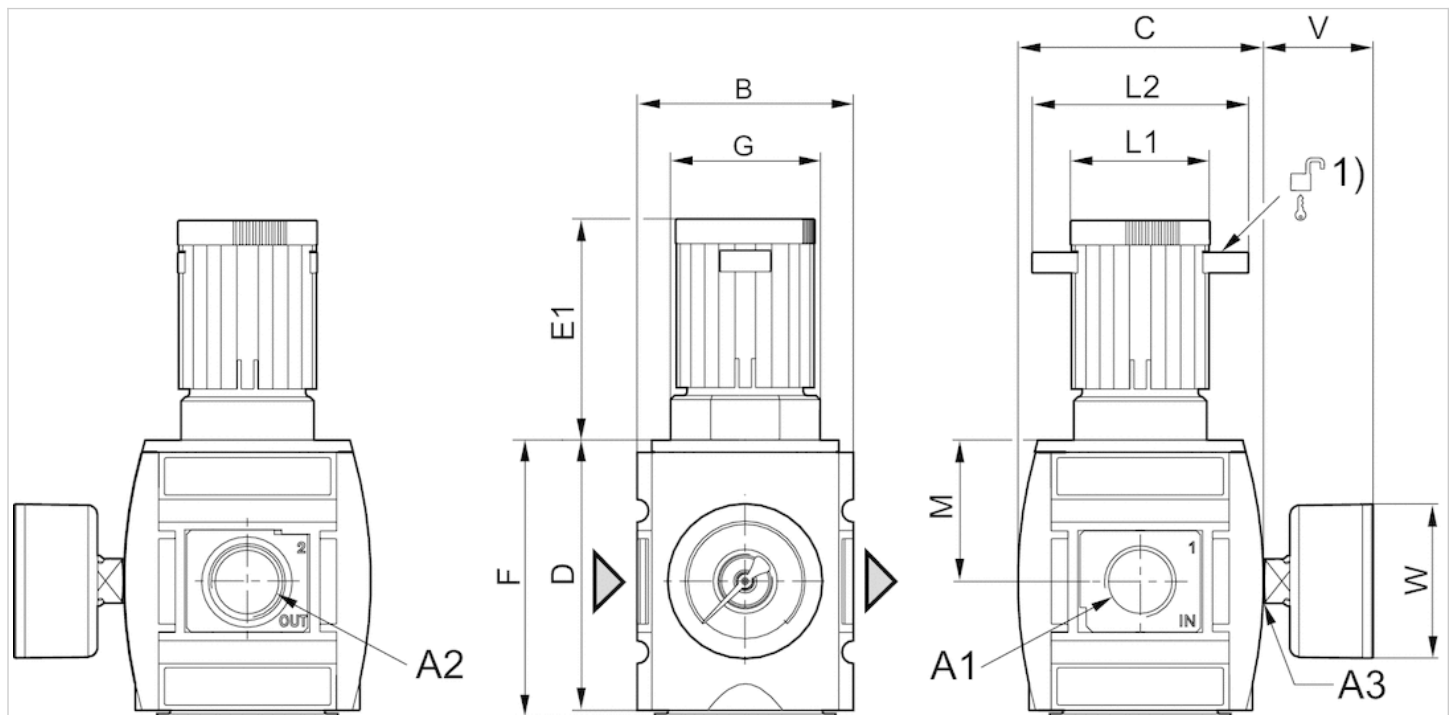
With rear exhaust (> 3 bar)

Technical information

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

Dimensions

Dimensions



A1 = input A2 = output

A3 = pressure gauge connection

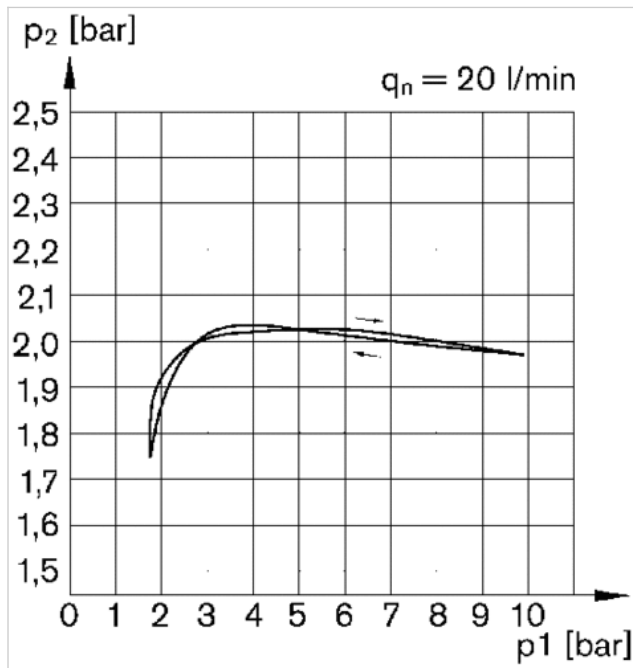
1) Mounting option for padlocks; max. shackle Ø 8

Dimensions in mm

A1	A2	A3	B	C	D	E1	F	G	L1	L2	M	V	W
G 1/4	G 1/4	G 1/4	52	59	65	57.9	66.8	M36x1,5	34	54	34	37	50
G 3/8	G 3/8	G 1/4	52	59	65	57.9	66.8	M36x1,5	34	54	34	37	50

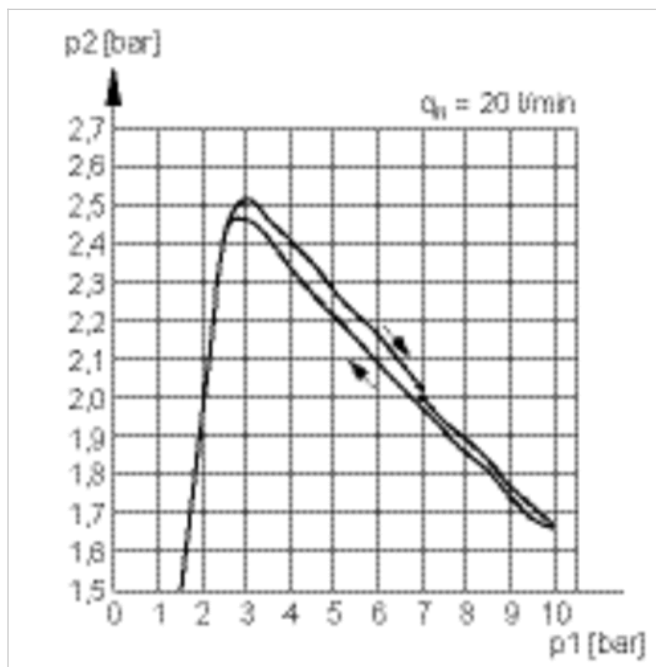
Diagrams

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

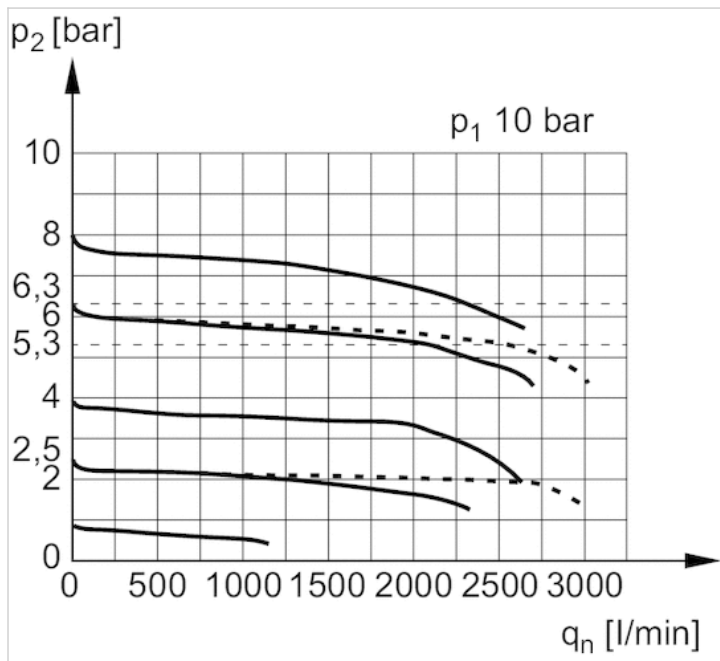


p_1 = Working pressure p_2 = Secondary pressure q_n = Nominal flow



EMERSON

AVENTICS

Flow rate characteristic (p₂: 05 - 8 bar)

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