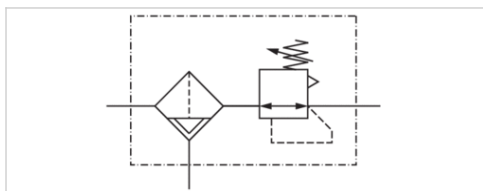


# Filter pressure regulator, Series AS3-FRE

- G 3/8 G 1/2
- filter porosity 5 µm
- lockable
- for padlocks



Version	1-part, Can be assembled into blocks
Parts	Filter pressure regulator
Mounting orientation	vertical
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
Nominal flow Qn	5100 l/min
Regulator type	Diaphragm-type pressure regulator
Regulator function Adjustment	with relieving air exhaust
range min./max. Pressure supply	See table below
Filter reservoir volume	single
Filter element	49 cm³
Weight	exchangeable
	See table below

## Technical data

Part No.	Port	filter porosity	Flow	Adjustment range min./max.
			Qn	
R412007175	G 3/8	5 µm	5100 l/min	0.5 ... 8 bar
R412007193	G 3/8	5 µm	5100 l/min	0.5 ... 10 bar
R412007176	G 3/8	5 µm	5100 l/min	0.5 ... 8 bar
R412007177	G 3/8	5 µm	5100 l/min	0.5 ... 8 bar
R412007194	G 3/8	5 µm	5100 l/min	0.5 ... 10 bar
R412007195	G 3/8	5 µm	5100 l/min	0.5 ... 10 bar
R412007181	G 3/8	5 µm	5100 l/min	0.5 ... 8 bar
R412007182	G 3/8	5 µm	5100 l/min	0.5 ... 8 bar
R412007183	G 3/8	5 µm	5100 l/min	0.5 ... 8 bar
R412007184	G 1/2	5 µm	5100 l/min	0.5 ... 8 bar
R412007196	G 1/2	5 µm	5100 l/min	0.5 ... 10 bar
R412007190	G 1/2	5 µm	5100 l/min	0.5 ... 8 bar
R412007240	G 1/2	5 µm	5100 l/min	0.5 ... 16 bar
R412007185	G 1/2	5 µm	5100 l/min	0.5 ... 8 bar
R412007186	G 1/2	5 µm	5100 l/min	0.5 ... 8 bar
R412007197	G 1/2	5 µm	5100 l/min	0.5 ... 10 bar
R412007198	G 1/2	5 µm	5100 l/min	0.5 ... 10 bar
R412007238	G 1/2	5 µm	5100 l/min	0.5 ... 16 bar

Part No.	Port	filter porosity	Flow	Adjustment range min./max.
			Qn	
R412007192	G 1/2	5 µm	5100 l/min	0.5 ... 8 bar
R412007191	G 1/2	5 µm	5100 l/min	0.5 ... 8 bar
R412007241	G 1/2	5 µm	5100 l/min	0.5 ... 16 bar
R412007242	G 1/2	5 µm	5100 l/min	0.5 ... 16 bar

Part No.	Condensate drain	Reservoir	Protective guard	Weight
R412007175	semi-automatic, open without pressure	Polycarbonate	Polyamide	0.586 kg
R412007193	semi-automatic, open without pressure	Polycarbonate	Polyamide	0.818 kg
R412007176	fully automatic, open without pressure	Polycarbonate	Polyamide	0.635 kg
R412007177	fully automatic, closed without pressure	Polycarbonate	Polyamide	0.635 kg
R412007194	fully automatic, open without pressure	Polycarbonate	Polyamide	0.87 kg
R412007195	fully automatic, closed without pressure	Polycarbonate	Polyamide	0.87 kg
R412007181	fully automatic, closed without pressure	Die cast zinc	-	0.818 kg
R412007182	fully automatic, open without pressure	Die cast zinc	-	0.87 kg
R412007183	fully automatic, closed without pressure	Die cast zinc	-	0.87 kg
R412007184	semi-automatic, open without pressure	Polycarbonate	Polyamide	0.586 kg
R412007196	semi-automatic, open without pressure	Polycarbonate	Polyamide	0.586 kg
R412007190	semi-automatic, open without pressure	Die cast zinc	-	0.797 kg
R412007240	semi-automatic, open without pressure	Die cast zinc	-	0.797 kg
R412007185	fully automatic, open without pressure	Polycarbonate	Polyamide	0.635 kg
R412007186	fully automatic, closed without pressure	Polycarbonate	Polyamide	0.635 kg
R412007197	fully automatic, open without pressure	Polycarbonate	Polyamide	0.635 kg
R412007198	fully automatic, closed without pressure	Polycarbonate	Polyamide	0.635 kg
R412007238	fully automatic, closed without pressure	Polycarbonate	Polyamide	0.635 kg
R412007192	fully automatic, closed without pressure	Die cast zinc	-	0.85 kg
R412007191	fully automatic, open without pressure	Die cast zinc	-	0.85 kg
R412007241	fully automatic, open without pressure	Die cast zinc	-	0.85 kg
R412007242	fully automatic, closed without pressure	Die cast zinc	-	0.85 kg

Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

Order pressure gauge separately.

## 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".

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 6 : 7 : -

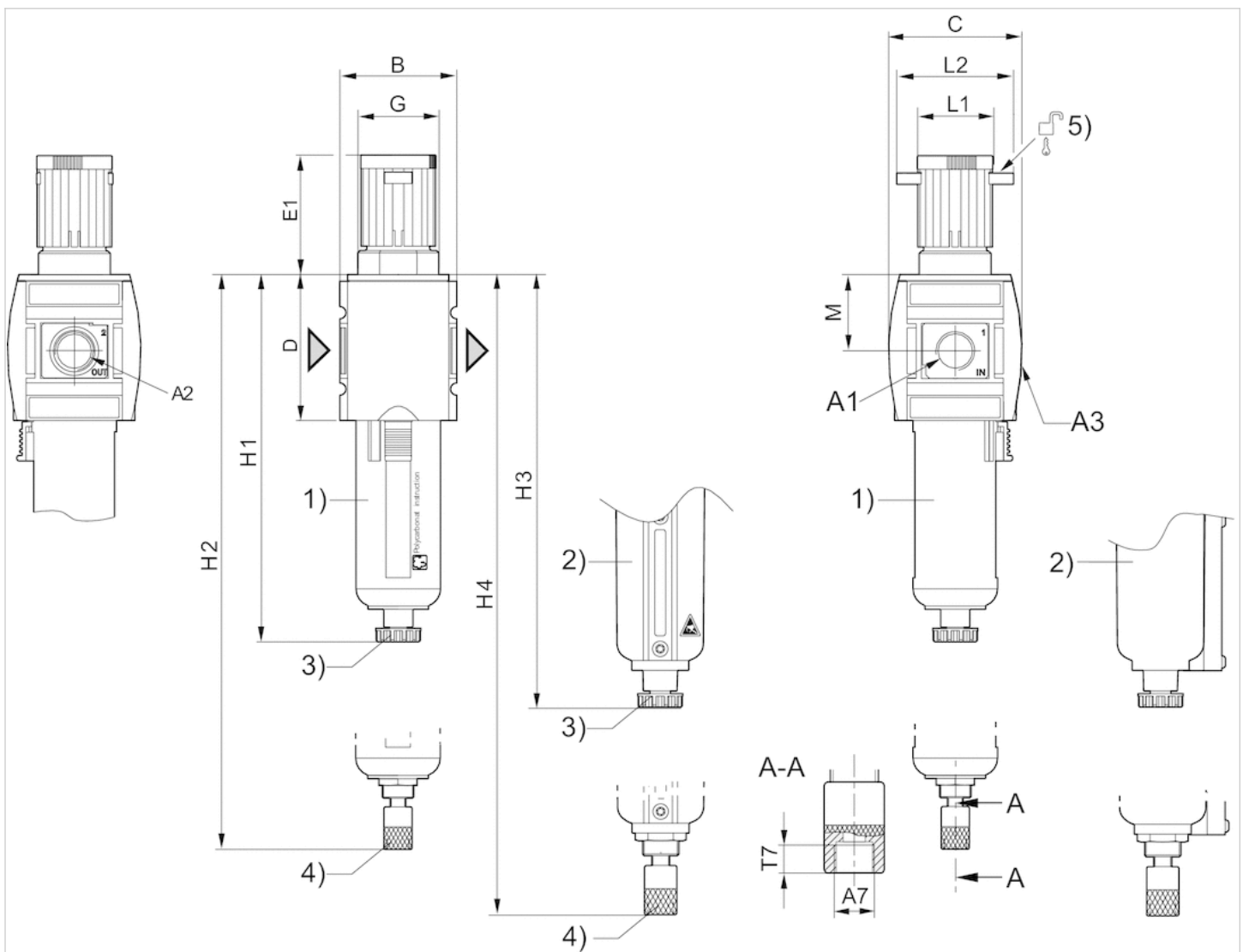
## Technical information

Material	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene

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

## Dimensions

### Dimensions



A1 = input

A2 = output

A3 = pressure gauge connection

A7 = condensate drain

1) Plastic reservoir and protective guard with window

2) Metal reservoir with level indicator

3) Semi-automatic condensate drain

4) Fully automatic condensate drain

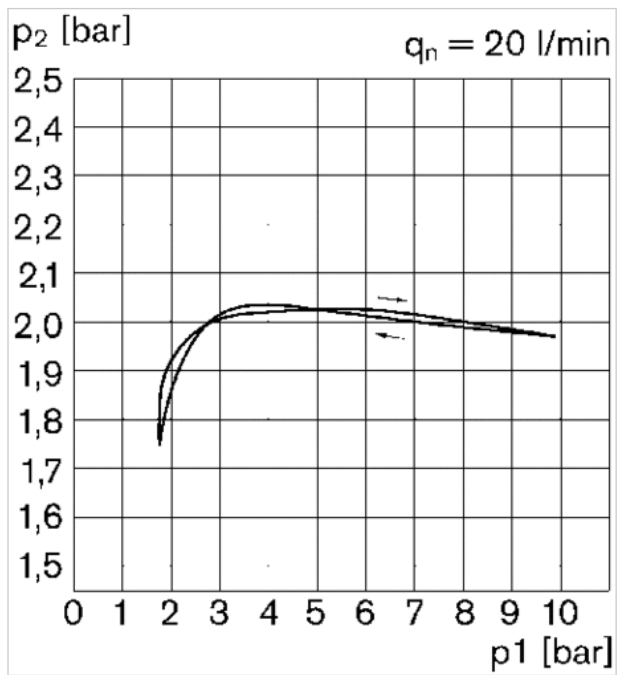
5) Mounting option for padlocks, max. shackle Ø 8

## Dimensions in mm

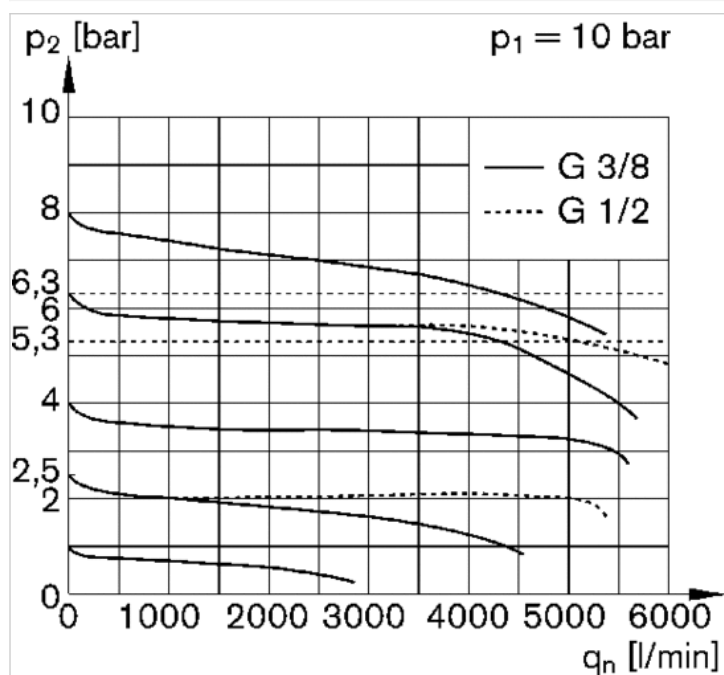
A1	A2	A3	A7	B	C	D	E1	G	H1	H2	H3	H4	L1	L2	M
G 3/8	G 3/8	G 1/4	G 1/8	63	74	80	63.5	M42x1,5	189.5	--	--	--	41	60	42.5
G 3/8	G 3/8	G 1/4	G 1/8	63	74	80	63.5	M42x1,5	--	206	--	--	41	60	42.5
G 3/8	G 3/8	G 1/4	G 1/8	63	74	80	63.5	M42x1,5	--	--	193.5	--	41	60	42.5
G 3/8	G 3/8	G 1/4	G 1/8	63	74	80	63.5	M42x1,5	--	--	--	210.5	41	60	42.5
G 1/2	G 1/2	G 1/4	G 1/8	63	74	80	63.5	M42x1,5	189.5	--	--	--	41	60	42.5
G 1/2	G 1/2	G 1/4	G 1/8	63	74	80	63.5	M42x1,5	--	--	193.5	--	41	60	42.5
G 1/2	G 1/2	G 1/4	G 1/8	63	74	80	63.5	M42x1,5	--	206	--	--	41	60	42.5
G 1/2	G 1/2	G 1/4	G 1/8	63	74	80	63.5	M42x1,5	--	--	--	210.5	41	60	42.5

## Diagrams

## Pressure characteristics curve



$p_1$  = 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