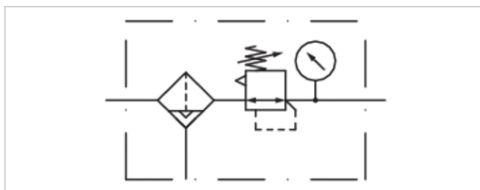


# Filter pressure regulator, Series AS3-FRE

- G 3/8, G 1/2
- filter porosity 5 µm
- lockable
- for padlocks
- with pressure gauge
- suitable for ATEX



Version	1-in-1, Can be assembled into blocks
Parts	Filter, Pressure regulator
Mounting orientation	vertical
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
Nominal flow Qn	5100 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	49 cm <sup>3</sup>
Filter element	exchangeable
Condensate drain	See table below
Weight	See table below

## Technical data

Part No.	Port	Flow	Working pressure min./max.	Adjustment range min./max.	Condensate drain	Reservoir
		Qn				
R412007200	G 3/8	5100 l/min	1,5 ... 16 bar	0,5 ... 8 bar	semi-automatic, open without pressure	Polycarbonate
R412007201	G 3/8	5100 l/min	1,5 ... 16 bar	0,5 ... 8 bar	fully automatic, open without pressure	Polycarbonate
R412007202	G 3/8	5100 l/min	0 ... 16 bar	0,5 ... 8 bar	fully automatic, closed without pressure	Polycarbonate
R412007206	G 3/8	5100 l/min	1,5 ... 16 bar	0,5 ... 8 bar	semi-automatic, open without pressure	Die cast zinc
R412007207	G 3/8	5100 l/min	1,5 ... 16 bar	0,5 ... 8 bar	fully automatic, open without pressure	Die cast zinc
R412007208	G 3/8	5100 l/min	0 ... 16 bar	0,5 ... 8 bar	fully automatic, closed without pressure	Die cast zinc
R412007237	G 1/2	5100 l/min	1,5 ... 16 bar	0,5 ... 16 bar	fully automatic, open without pressure	Polycarbonate
R412007209	G 1/2	5100 l/min	1,5 ... 16 bar	0,5 ... 8 bar	semi-automatic, open without pressure	Polycarbonate
R412007210	G 1/2	5100 l/min	1,5 ... 16 bar	0,5 ... 8 bar	fully automatic, open without pressure	Polycarbonate
R412007211	G 1/2	5100 l/min	0 ... 16 bar	0,5 ... 8 bar	fully automatic, closed without pressure	Polycarbonate
R412007215	G 1/2	5100 l/min	1,5 ... 16 bar	0,5 ... 8 bar	semi-automatic, open without pressure	Die cast zinc
R412007216	G 1/2	5100 l/min	1,5 ... 16 bar	0,5 ... 8 bar	fully automatic, open without pressure	Die cast zinc
R412007217	G 1/2	5100 l/min	0 ... 16 bar	0,5 ... 8 bar	fully automatic, closed without pressure	Die cast zinc

Part No.	Protective guard	Weight
R412007200	Polyamide	0,658 kg
R412007201	Polyamide	0,707 kg

Part No.	Protective guard	Weight
R412007202	Polyamide	0,707 kg
R412007206	-	0,89 kg
R412007207	-	0,943 kg
R412007208	-	0,943 kg
R412007237	Polyamide	0,658 kg
R412007209	Polyamide	0,658 kg
R412007210	Polyamide	0,707 kg
R412007211	Polyamide	0,707 kg
R412007215	-	0,87 kg
R412007216	-	0,922 kg
R412007217	-	0,922 kg

Pressure gauge enclosed separately, Nominal flow Qn with secondary pressure p2 = 6 bar at  $\Delta p = 1$  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".

Suitable for use in Ex zones 1, 2, 21, 22

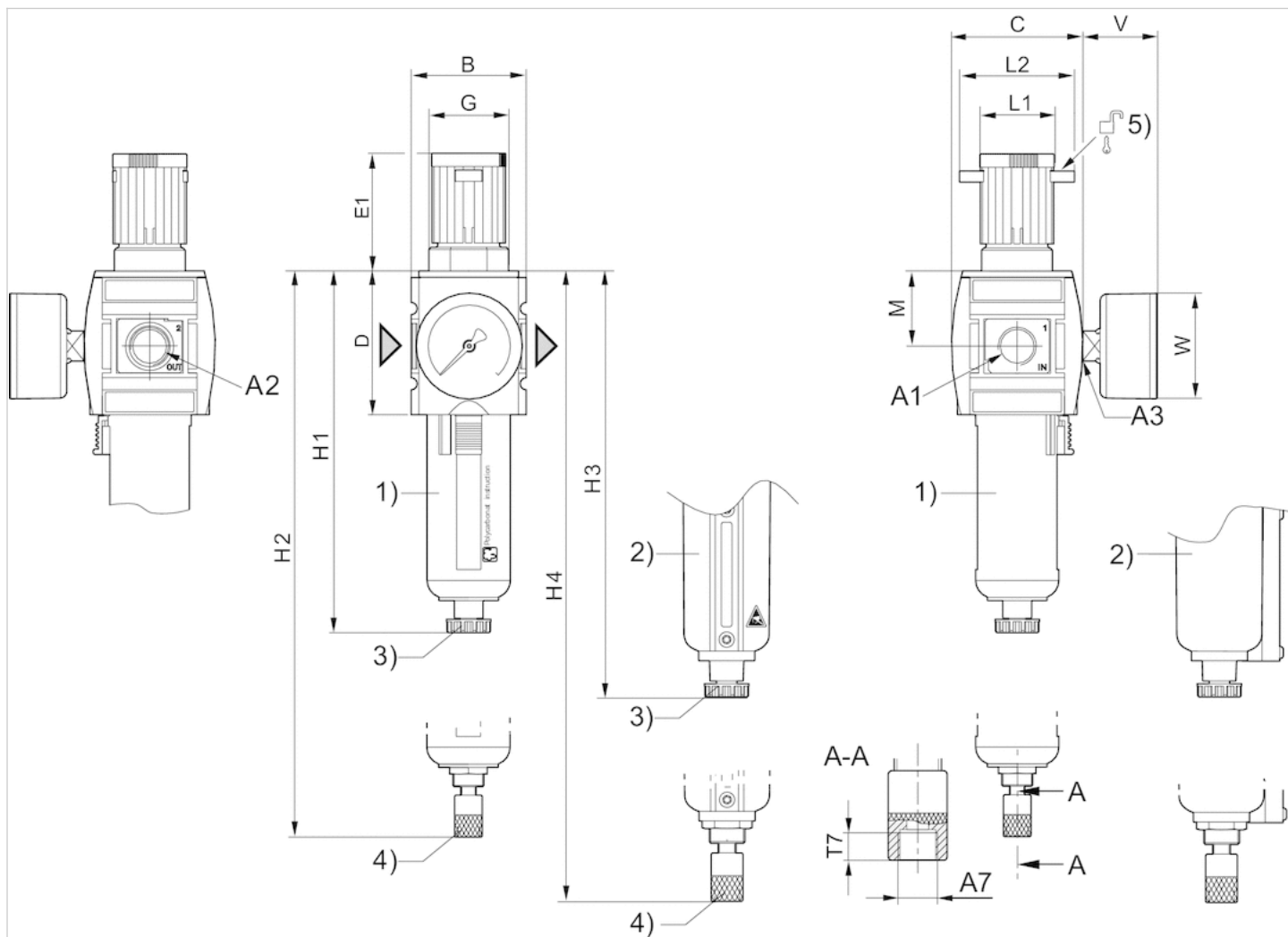
Max. residual oil content acc. to ISO 8573-1 at the outlet 10 mg/m<sup>3</sup>

## 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	Polyamide
Filter insert	Polyethylene

## Dimensions

### Dimensions



A1 = input

A2 = output

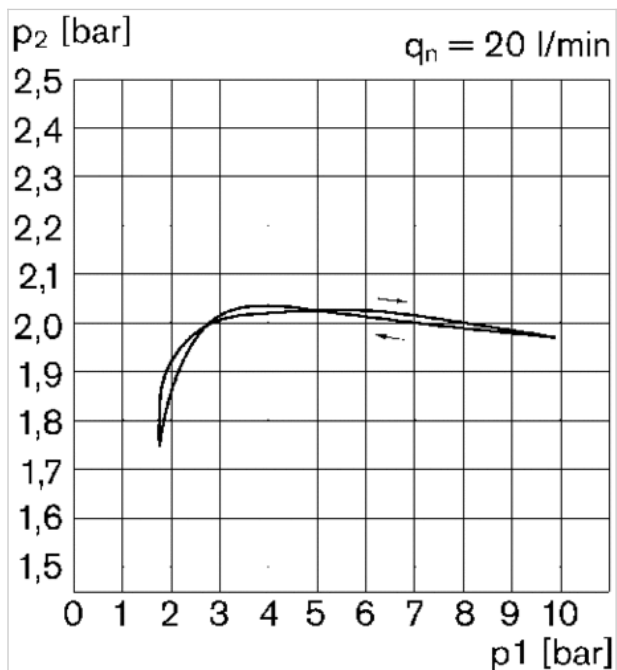
A3 = pressure gauge connection  
 1) Plastic reservoir and protective guard with window  
 2) Metal reservoir with level indicator  
 3) Semi-automatic condensate drain  
 4) Fully automatic condensate drain  
 5) Mounting option for padlocks; max. shackle Ø 8

## Dimensions

A1	A2	A3	A7	B	C	D	E1	G	H1	H2	H3	H4	L1	L2	M	T7	V	W
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	8.5	33	50
G 3/8	G 3/8	G 1/4	G 1/8	63	74	80	63.5	M42x1,5	--	206	--	--	41	60	42.5	8.5	33	50
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	8.5	33	50
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	8.5	33	50
G 1/2	G 1/2	G 1/4	G 1/8	63	74	80	63.5	M42x1,5	--	206	--	--	41	60	42.5	8.5	33	50
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	8.5	33	50
G 1/2	G 1/2	G 1/4	G 1/8	63	74	80	63.5	M42x1,5	--	206	--	--	41	60	42.5	8.5	33	50
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	8.5	33	50
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	8.5	33	50

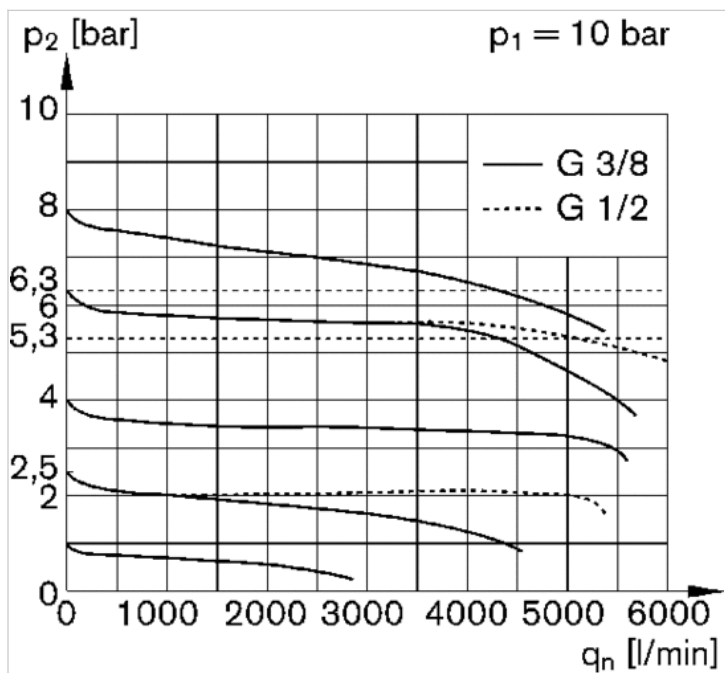
## Diagrams

### 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