

Preparation of compressed air → Maintenance units and components

Filter pressure regulator, Series AS3-FRE

► G 3/8 - G 1/2 ► filter porosity: 5 µm ► lockable ► ATEX certified



ATEX	II 2G2D T4 X
Maintenance Unit	1-in-1, Can be assembled into blocks
Parts	Filter, Pressure controller
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Lock type	with padlock
Pressure supply	single
Installation location	vertical
Ambient temperature min./max.	-10 °C / +50 °C
Medium temperature min./max.	-10 °C / +50 °C
Working pressure min./max.	See table below
Adjustment range min./max.	See table below
Medium	Compressed air
Filter element	exchangeable
Filter reservoir volume	49 cm ³
Condensate drain	See table below
Materials:	
Housing	Polyamide
Threaded bushing	Die cast zinc
Cover	Acrylonitrile butadiene styrene
Seal	Acrylonitrile Butadiene Rubber
Filter insert	Polyethylene

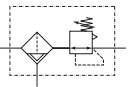
Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- Max. particle count as per ISO 8573-4 at the outlet: 10 mg/m³

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	Port	Qn	Working pressure min./max.	Adjustment range min./max.	Condensate drain	Note	Weight	Part No.
		[l/min]	[bar]	[bar]			[kg]	
	G 3/8	4300	1.5 / 16	0.5 / 8	semi-automatic, open without pressure	1); 4)	0.586	R412007175
	G 3/8	4300	1.5 / 16	0.5 / 8	fully automatic, open without pressure	1); 4)	0.635	R412007176
	G 3/8	4300	0 / 16	0.5 / 8	fully automatic, closed without pressure	1); 4)	0.635	R412007177
	G 3/8	4300	1.5 / 16	0.5 / 8	fully automatic, closed without pressure	2)	0.818	R412007181
	G 3/8	4300	1.5 / 16	0.5 / 8	fully automatic, open without pressure	2)	0.87	R412007182
	G 3/8	4300	0 / 16	0.5 / 8	fully automatic, closed without pressure	2)	0.87	R412007183
	G 3/8	4300	1.5 / 16	0.5 / 10	semi-automatic, open without pressure	1); 4)	0.818	R412007193
	G 3/8	4300	1.5 / 16	0.5 / 10	fully automatic, open without pressure	1); 4)	0.87	R412007194
	G 3/8	4300	0 / 16	0.5 / 10	fully automatic, closed without pressure	1); 4)	0.87	R412007195
	G 1/2	4300	1.5 / 16	0.5 / 10	semi-automatic, open without pressure	1); 4)	0.586	R412007196
	G 1/2	4300	1.5 / 16	0.5 / 10	fully automatic, open without pressure	1); 4)	0.635	R412007197
	G 1/2	4300	0 / 16	0.5 / 10	fully automatic, closed without pressure	1); 4)	0.635	R412007198
	G 1/2	4300	0 / 16	0.5 / 16	fully automatic, closed without pressure	1); 4)	0.635	R412007238
	G 1/2	4300	1.5 / 16	0.5 / 16	semi-automatic, open without pressure	3)	0.797	R412007240
	G 1/2	4300	1.5 / 16	0.5 / 16	fully automatic, open without pressure	3)	0.85	R412007241
	G 1/2	4300	0 / 16	0.5 / 16	fully automatic, closed without pressure	3)	0.85	R412007242
	G 1/2	5100	1.5 / 16	0.5 / 8	semi-automatic, open without pressure	1); 4)	0.586	R412007184
	G 1/2	5100	1.5 / 16	0.5 / 8	fully automatic, open without pressure	1); 4)	0.635	R412007185
	G 1/2	5100	0 / 16	0.5 / 8	fully automatic, closed without pressure	1); 4)	0.635	R412007186
	G 1/2	5100	1.5 / 16	0.5 / 8	semi-automatic, open without pressure	2)	0.797	R412007190
	G 1/2	5100	1.5 / 16	0.5 / 8	fully automatic, open without pressure	2)	0.85	R412007191
	G 1/2	5100	0 / 16	0.5 / 8	fully automatic, closed without pressure	2)	0.85	R412007192

1) Reservoir: Polycarbonate

2) Reservoir: Die cast zinc with window

3) Reservoir: Die cast zinc

4) Protective guard: Polyamide

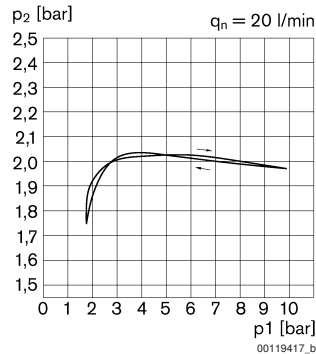
Nominal flow Qn at 6.3 bar and Δp = 1 bar.

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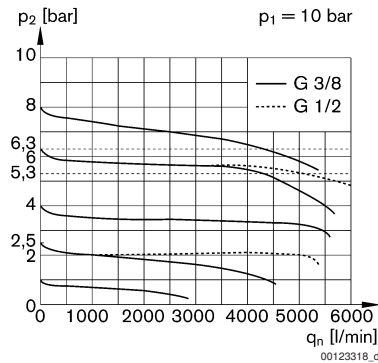
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Pressure characteristics curve



p1 = working pressure; p2 = secondary pressure; qn = nominal flow

Flow rate characteristic (p2: 0,5 - 8 bar)

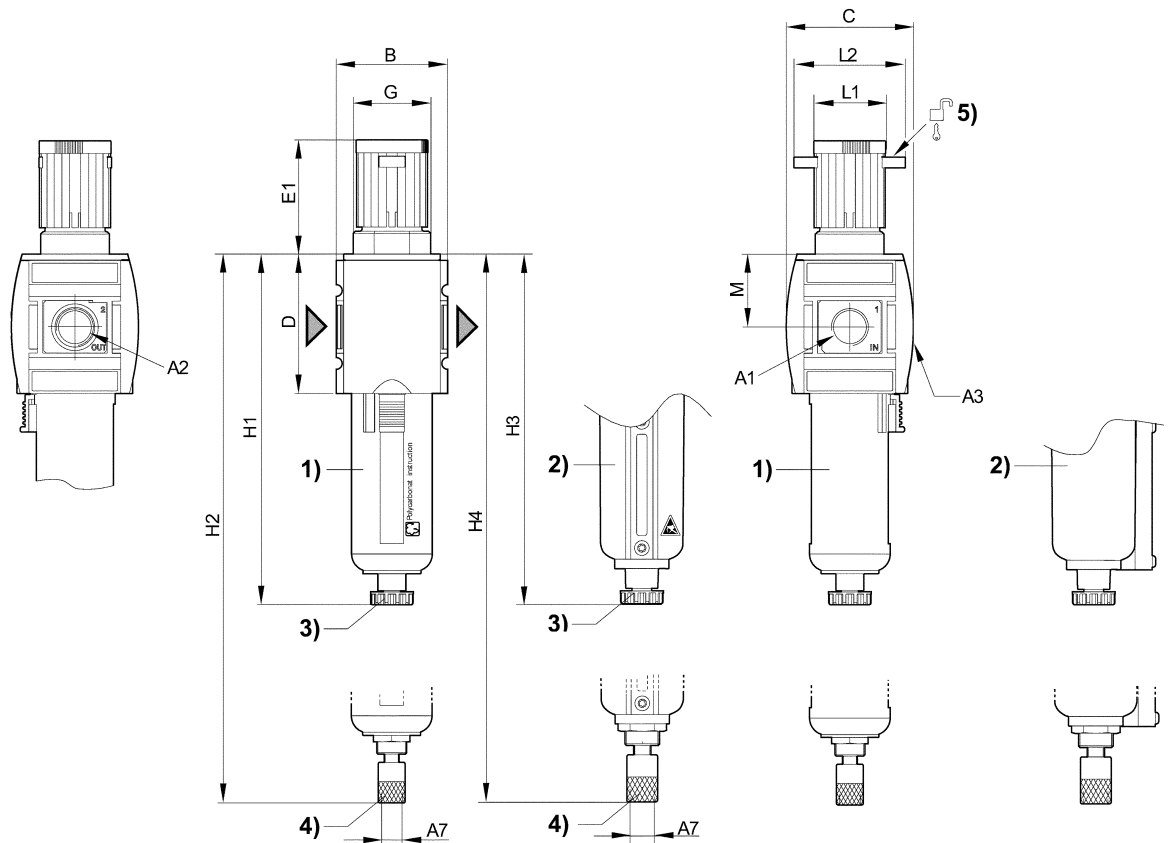


p1 = working pressure; p2 = secondary pressure; qn = nominal flow

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Dimensions



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- 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

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

A1	L1	L2	M									
G 3/8	41	60	42.5									
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G 3/8	41	60	42.5									
G 1/2	41	60	42.5									
G 1/2	41	60	42.5									
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A1	L1	L2	M										
G 1/2	41	60	42.5										