

## Preparation of compressed air ► Maintenance units and components

### Filter pressure regulator, Series NL4-FRE

► G 1/2 - G 3/4 ► filter porosity: 5 µm ► with pressure gauge ► suitable for ATEX



00106912

Version	1-in-1, Can be assembled into blocks
Parts	Filter, Pressure regulator
Nominal flow Qn	6900 l/min
Mounting orientation	vertical
Working pressure min./max.	2 bar / 16 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10°C / +60°C
Ambient temperature min./max.	-10°C / +60°C
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Adjustment range min./max.	0.5 bar / 10 bar
Pressure supply	single
Filter reservoir volume	50 cm³
Filter element	exchangeable
Condensate drain	See table below
<b>Materials:</b>	
Housing	Die cast zinc
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber
Threaded bushing	Die cast zinc
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.
- 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

		Port	Condensate drain	Weight [kg]	Note	Part No.
		G 1/2	semi-automatic, open without pressure	1.19	1)	<b>0821300350</b>
		G 1/2	semi-automatic, open without pressure	1.28	1); 3)	<b>0821300351</b>
		G 1/2	semi-automatic, open without pressure	1.41	2)	<b>0821300352</b>
		G 1/2	fully automatic, open without pressure	1.26	1)	<b>0821300353</b>
		G 1/2	fully automatic, open without pressure	1.35	1); 3)	<b>0821300354</b>
		G 1/2	fully automatic, open without pressure	1.47	2)	<b>0821300355</b>
		G 3/4	semi-automatic, open without pressure	1.19	1)	<b>0821300380</b>
		G 3/4	semi-automatic, open without pressure	1.28	1); 3)	<b>0821300381</b>
		G 3/4	semi-automatic, open without pressure	1.41	2)	<b>0821300382</b>
		G 3/4	fully automatic, open without pressure	1.26	1)	<b>0821300383</b>
		G 3/4	fully automatic, open without pressure	1.35	1); 3)	<b>0821300384</b>
		G 3/4	fully automatic, open without pressure	1.47	2)	<b>0821300385</b>

Metal protective guard can be retrofitted for all polycarbonate reservoirs

Pressure gauge enclosed separately

1) Reservoir: Polycarbonate

2) Reservoir: Die cast zinc

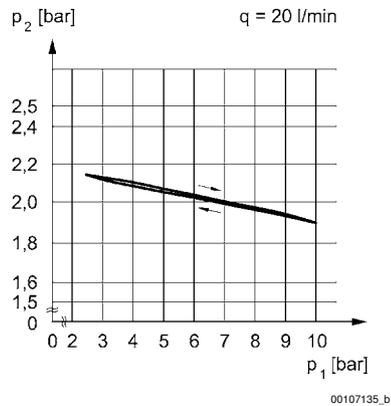
3) Protective guard: Steel

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

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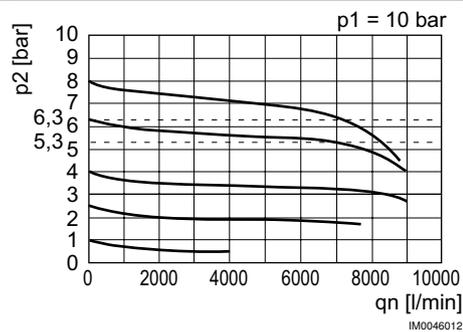
▶ G 1/2 - G 3/4 ▶ filter porosity: 5  $\mu\text{m}$  ▶ with pressure gauge ▶ suitable for ATEX

#### Pressure characteristics curve



p<sub>1</sub> = working pressure  
 p<sub>2</sub> = secondary pressure  
 q = flow rate

#### Flow rate characteristic



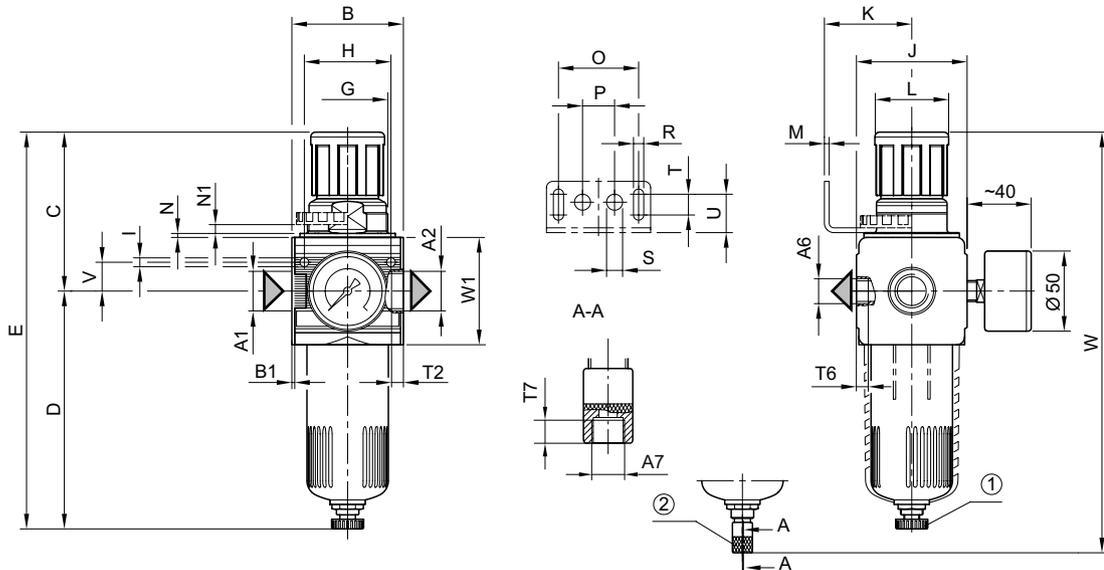
p<sub>1</sub> = Working pressure  
 p<sub>2</sub> = Secondary pressure  
 q<sub>n</sub> = Nominal flow

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### Dimensions



- 1) Semi-automatic condensate drain
- 2) fully automatic condensate drain

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A1	A2	A6	A7	B	B1	C	D	E	G	H	I	J
G 1/2	G 1/2	G 1/4	G 1/8	69.6	1.8	98.3	146.5	244.8	M50x1,5	54	5.5	69
G 3/4	G 3/4	G 1/4	G 1/8	69.6	1.8	98.3	146.5	244.8	M50x1,5	54	5.5	69

A1	K	L	M	N	N1	O	P	R	S	T	T2	T6	T7
G 1/2	54.5	46	3	3	5.5	50	20	6.4	10	13	13	7	8.5
G 3/4	54.5	46	3	3	5.5	50	20	6.4	10	13	13	7	8.5

A1	U	V	W	W1
G 1/2	24	18	262.8	67
G 3/4	24	18	262.8	67