

## Preparation of compressed air ► Supplementary products

### Filter pressure regulator, Series NL4-FRE

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



00106912

Parts	Filter, Pressure controller
Nominal flow Qn	3500 l/min
Mounting orientation	vertical
Working pressure min./max.	1.5 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 (> 3 bar)
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
Materials:	
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.
- Max. residual oil content acc. to ISO 8573-4 at the outlet: 5 mg/m³

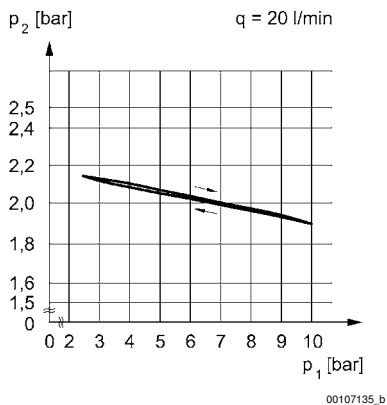
		Port	Condensate drain	Weight [kg]	Note	Part No.
		G 1/2	semi-automatic, open without pressure	1.19	1)	<b>0821300350</b>
		G 1/2	semi-automatic, open without pressure	1.282	1); 3)	<b>0821300351</b>
		G 1/2	semi-automatic, open without pressure	1.406	2)	<b>0821300352</b>
		G 1/2	fully automatic, open without pressure	1.256	1)	<b>0821300353</b>
		G 1/2	fully automatic, open without pressure	1.346	1); 3)	<b>0821300354</b>
		G 1/2	fully automatic, open without pressure	1.472	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	1.282	1); 3)	<b>0821300381</b>
		G 3/4	semi-automatic, open without pressure	1.406	2)	<b>0821300382</b>
		G 3/4	fully automatic, open without pressure	1.256	1)	<b>0821300383</b>
		G 3/4	fully automatic, open without pressure	1.346	1); 3)	<b>0821300384</b>
		G 3/4	fully automatic, open without pressure	1.472	2)	<b>0821300385</b>

Nominal flow Qn with secondary pressure 6 bar at  $\Delta p = 1$  bar  
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

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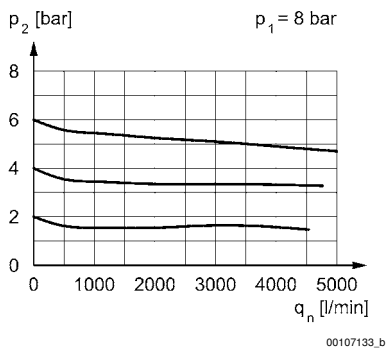
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### Pressure characteristics curve



$p_1$  = working pressure;  $p_2$  = secondary pressure;  $q$  = flow rate

### Flow rate characteristic



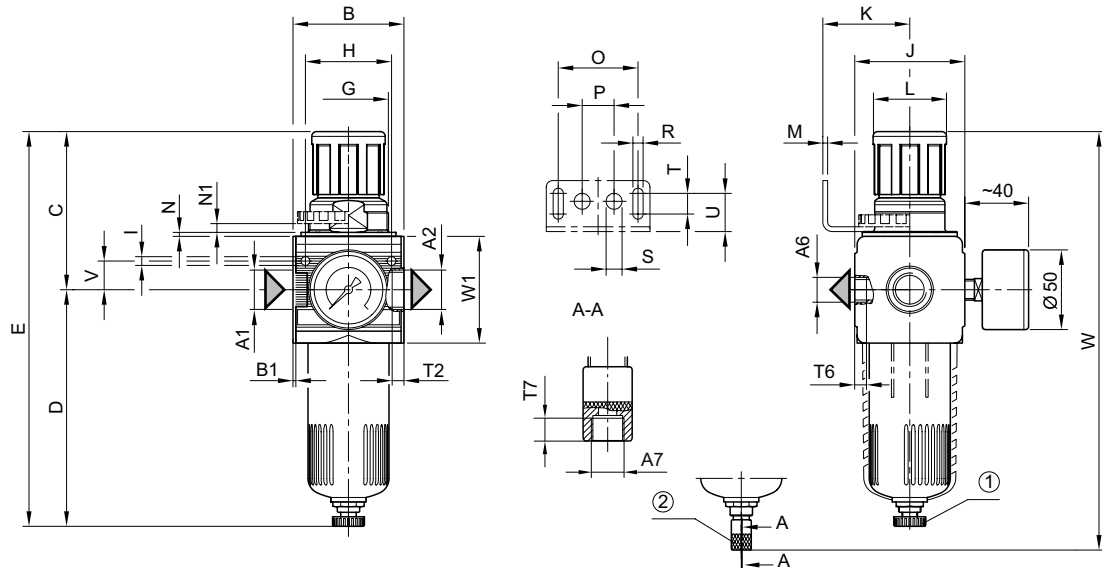
$p_1$  = Working pressure  
 $p_2$  = Secondary pressure  
 $q_n$  = Nominal flow

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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									