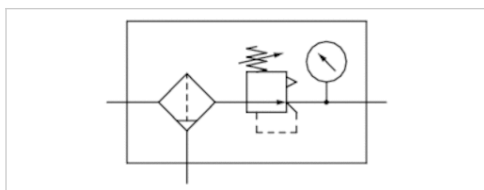


Filter pressure regulator, Series NL2-FRE

- G 1/4 G 3/8
- filter porosity 5 µm
- lockable
- with key
- with pressure gauge
- suitable for ATEX



Type	1-part, Can be assembled into blocks
Parts	Filter pressure regulator
Mounting orientation	vertical
Certificates	suitable for ATEX
Working pressure min./max.	2 ... 16 bar
Ambient temperature min./max.	-10 ... 60 °C
Medium temperature min./max.	-10 ... 60 °C
Medium	Compressed air Neutral gases
Nominal flow Qn	1650 l/min
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Adjustment range min./max.	0,5 ... 10 bar
Pressure supply	single
Filter reservoir volume	25 cm³
Filter element	exchangeable
Weight	See table below

Technical data

Part No.		Port	filter porosity	Flow	Condensate drain
				Qn	
0821300306		G 1/4	5 µm	1650 l/min	semi-automatic, open without pressure
0821300220		G 1/4	5 µm	1650 l/min	semi-automatic, open without pressure
0821300221		G 1/4	5 µm	1650 l/min	semi-automatic, open without pressure
0821300312		G 1/4	5 µm	1650 l/min	fully automatic, open without pressure
0821300222		G 1/4	5 µm	1650 l/min	fully automatic, open without pressure
0821300336		G 3/8	5 µm	1650 l/min	semi-automatic, open without pressure
0821300226		G 3/8	5 µm	1650 l/min	fully automatic, open without pressure

Part No.	Pressure gauge	Reservoir	Protective guard	Weight
0821300306	with pressure gauge	Polycarbonate	-	0,6 kg
0821300220	with pressure gauge	Polycarbonate	Steel	0,641 kg
0821300221	with pressure gauge	Die cast zinc	-	0,775 kg
0821300312	with pressure gauge	Polycarbonate	-	0,628 kg
0821300222	with pressure gauge	Polycarbonate	Steel	0,67 kg
0821300336	with pressure gauge	Polycarbonate	-	0,6 kg
0821300226	with pressure gauge	Polycarbonate	-	0,628 kg

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

Metal protective guard can be retrofitted for all polycarbonate reservoirs, Suitable for use in Ex zones 1, 2, 21, 22., Pressure gauge enclosed separately

Technical information

The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

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

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.

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).

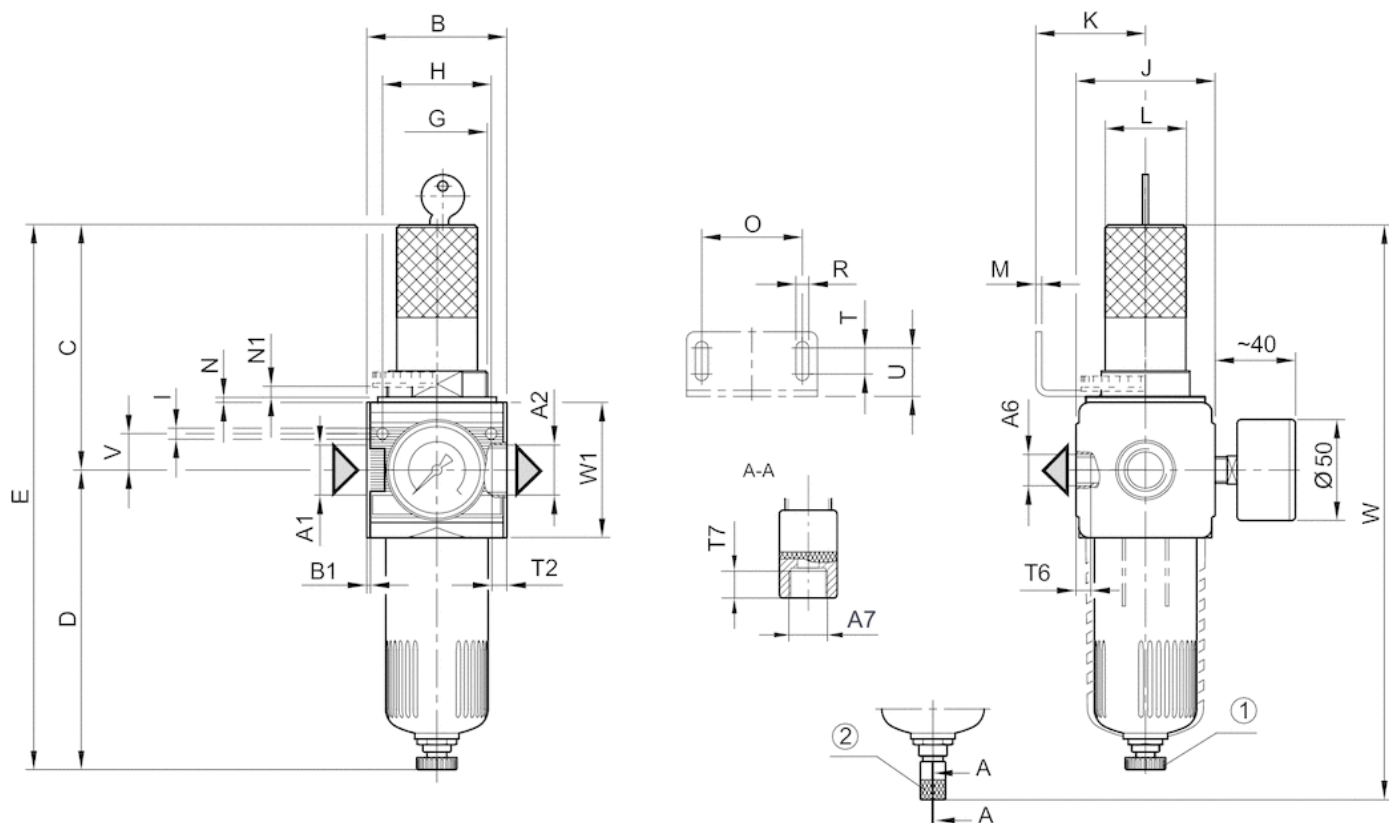
Max. achievable compressed air class acc. to ISO 8573-1:2010 6 : 7 : -

Technical information

Material	
Housing	Die cast zinc
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber
Reservoir	Polycarbonate Die cast zinc
Protective guard	Steel
Filter insert	Polyethylene

Dimensions

Dimensions



A1 = input

A2 = output

A6 = output

A7 = condensate drain

1) Semi-automatic condensate drain

2) fully automatic condensate drain

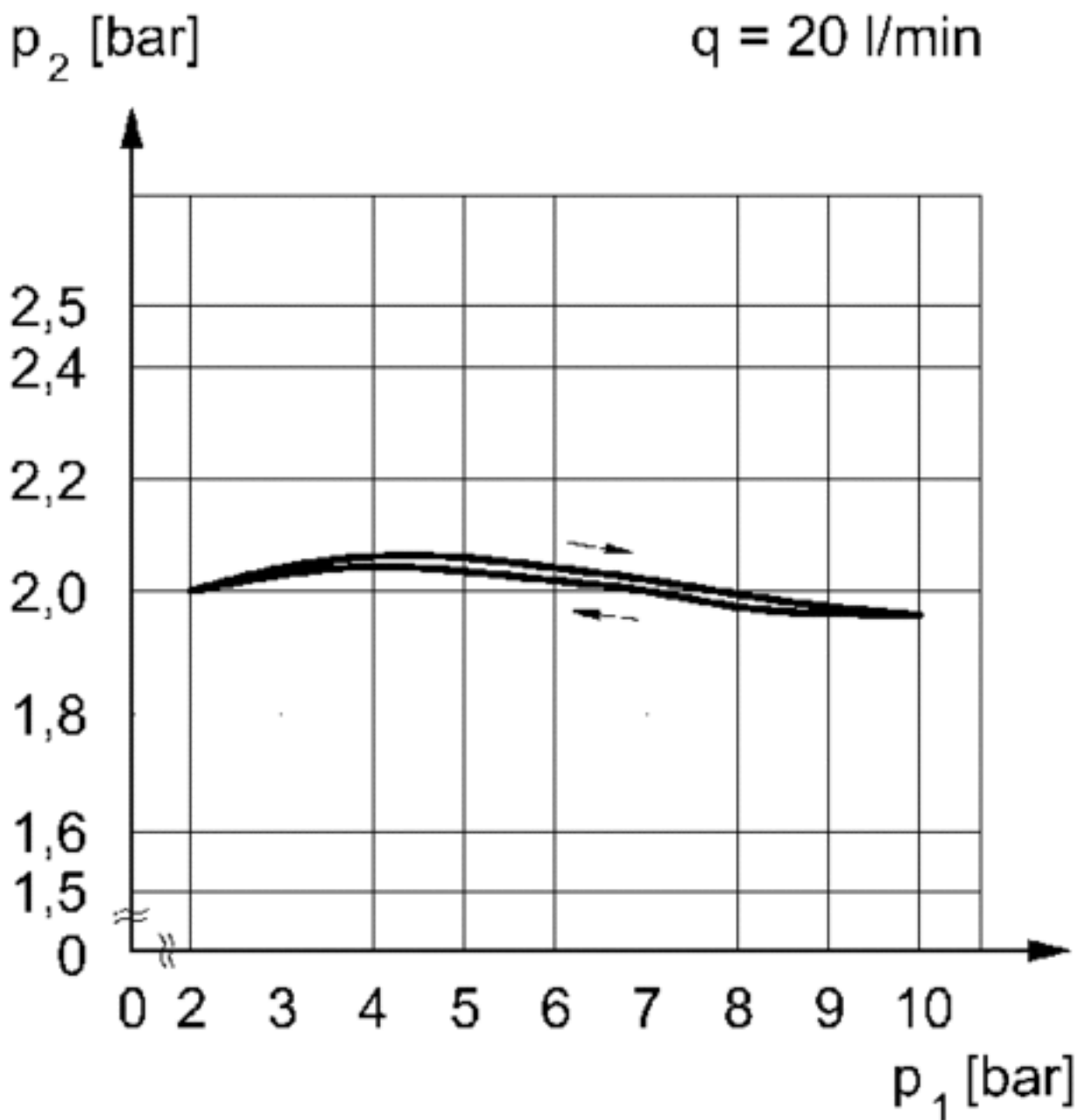
Dimensions in mm

A1	A2	A6	A7	B	B1	C	D	E	G	H	I	J	K	L	M	N	N1	O	R	T	T2
G 1/4	G 1/4	G 1/4	G 1/8	48	1.5	96.5	124.5	221	M30x1,5	36	4.4	47	43.5	28	3	3.5	3	38	5.4	8	9.5
G 3/8	G 3/8	G 1/4	G 1/8	48	1.5	96.5	124.5	221	M30x1,5	36	4.4	47	43.5	28	3	3.5	3	38	5.4	8	9.5

T6	T7	U	V	W	W1
7	8.5	18.5	12.3	243	52
7	8.5	18.5	12.3	243	52

Diagrams

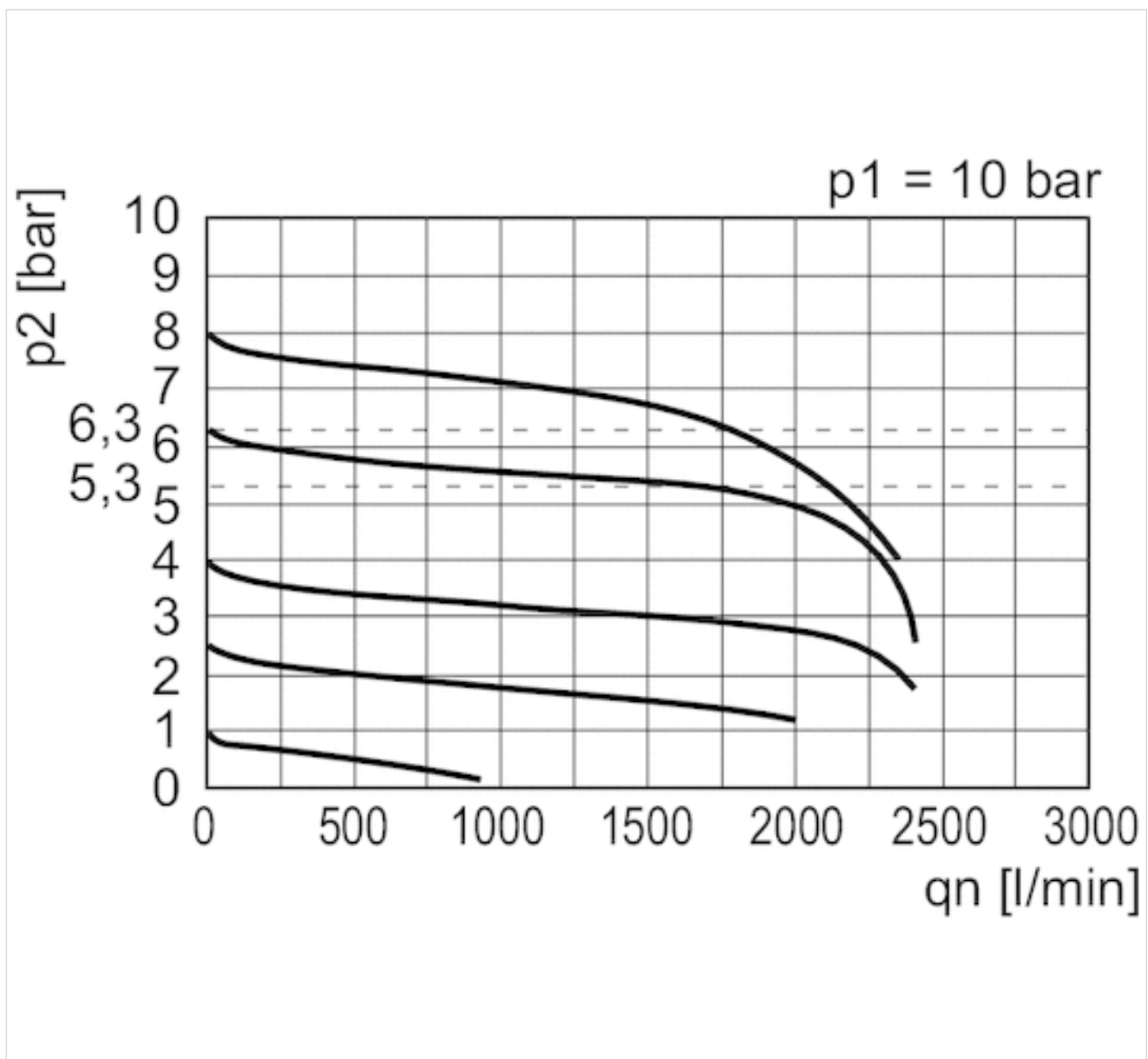
Pressure characteristics curve



p_1 = working pressure
 p_2 = secondary pressure

q = flow rate

Flow rate characteristic



p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

Efficient pneumatic solutions, our program: cylinders and drives, valves and valve systems, air supply management



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