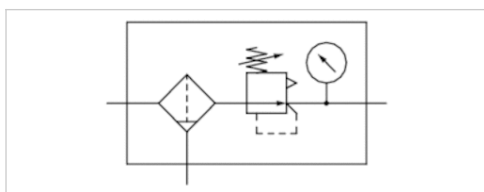


Filter pressure regulator, Series NL6-FRE

- G 3/4 G 1
- filter porosity 40 µm
- 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.	1,5 ... 16 bar
Ambient temperature min./max.	-10 ... 60 °C
Medium temperature min./max.	-10 ... 60 °C
Medium	Compressed air Neutral gases
Nominal flow Qn	15000 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	125 cm ³
Filter element	exchangeable
Max. Internal air consumption	0,5 l/min
Weight	See table below

Technical data

Part No.	Port	filter porosity	Flow	Condensate drain
			Qn	
0821300850	G 3/4	40 µm	15000 l/min	semi-automatic, open without pressure
0821300851	G 3/4	40 µm	15000 l/min	semi-automatic, open without pressure
0821300852	G 3/4	40 µm	15000 l/min	semi-automatic, open without pressure
0821300853	G 3/4	40 µm	15000 l/min	fully automatic, open without pressure
0821300854	G 3/4	40 µm	15000 l/min	fully automatic, open without pressure
0821300855	G 3/4	40 µm	15000 l/min	fully automatic, open without pressure
0821300856	G 1	40 µm	15000 l/min	semi-automatic, open without pressure
0821300857	G 1	40 µm	15000 l/min	semi-automatic, open without pressure
0821300858	G 1	40 µm	15000 l/min	semi-automatic, open without pressure
0821300859	G 1	40 µm	15000 l/min	fully automatic, open without pressure
0821300860	G 1	40 µm	15000 l/min	fully automatic, open without pressure
0821300861	G 1	40 µm	15000 l/min	fully automatic, open without pressure

Part No.	Pressure gauge	Reservoir	Protective guard	Weight
0821300850	with pressure gauge	Polycarbonate	-	2,15 kg
0821300851	with pressure gauge	Polycarbonate	Steel	5,3 kg
0821300852	with pressure gauge	Die cast zinc	-	2,45 kg
0821300853	with pressure gauge	Polycarbonate	-	2,18 kg
0821300854	with pressure gauge	Polycarbonate	Steel	2,28 kg

Part No.	Pressure gauge	Reservoir	Protective guard	Weight
0821300855	with pressure gauge	Die cast zinc	-	2,48 kg
0821300856	with pressure gauge	Polycarbonate	-	2,15 kg
0821300857	with pressure gauge	Polycarbonate	Steel	2,25 kg
0821300858	with pressure gauge	Die cast zinc	-	2,45 kg
0821300859	with pressure gauge	Polycarbonate	-	2,18 kg
0821300860	with pressure gauge	Polycarbonate	Steel	2,28 kg
0821300861	with pressure gauge	Die cast zinc	-	2,48 kg

Nominal flow Q_n with secondary pressure $p_2 = 6$ bar at $\Delta p = 1$ bar

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

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).

Mounting: mounting bracket 1821336017 / block assembly kit 1827009593

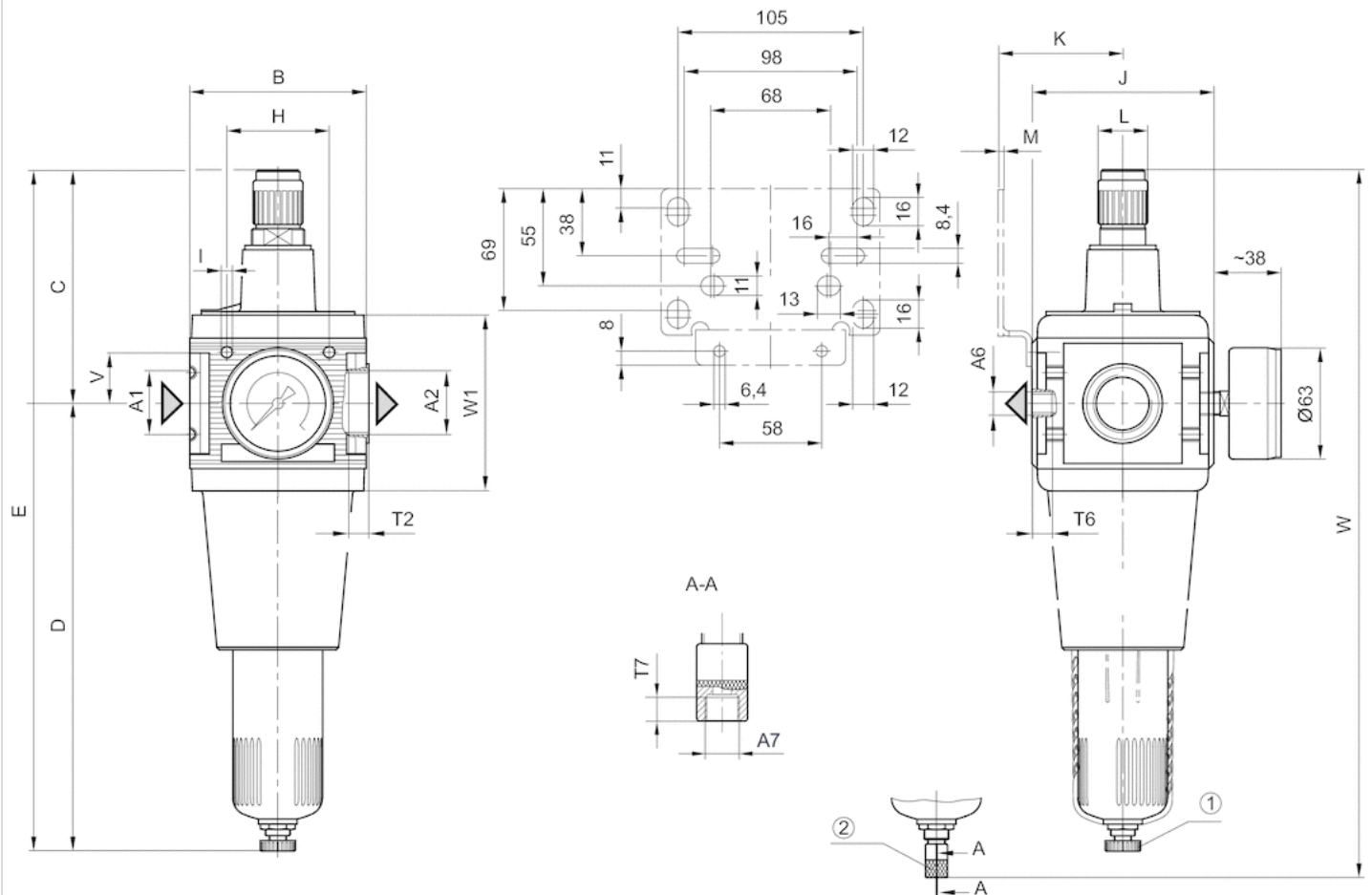
Max. achievable compressed air class acc. to ISO 8573-1:2010 7 : 7 : -

Technical information

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

Dimensions

Dimensions



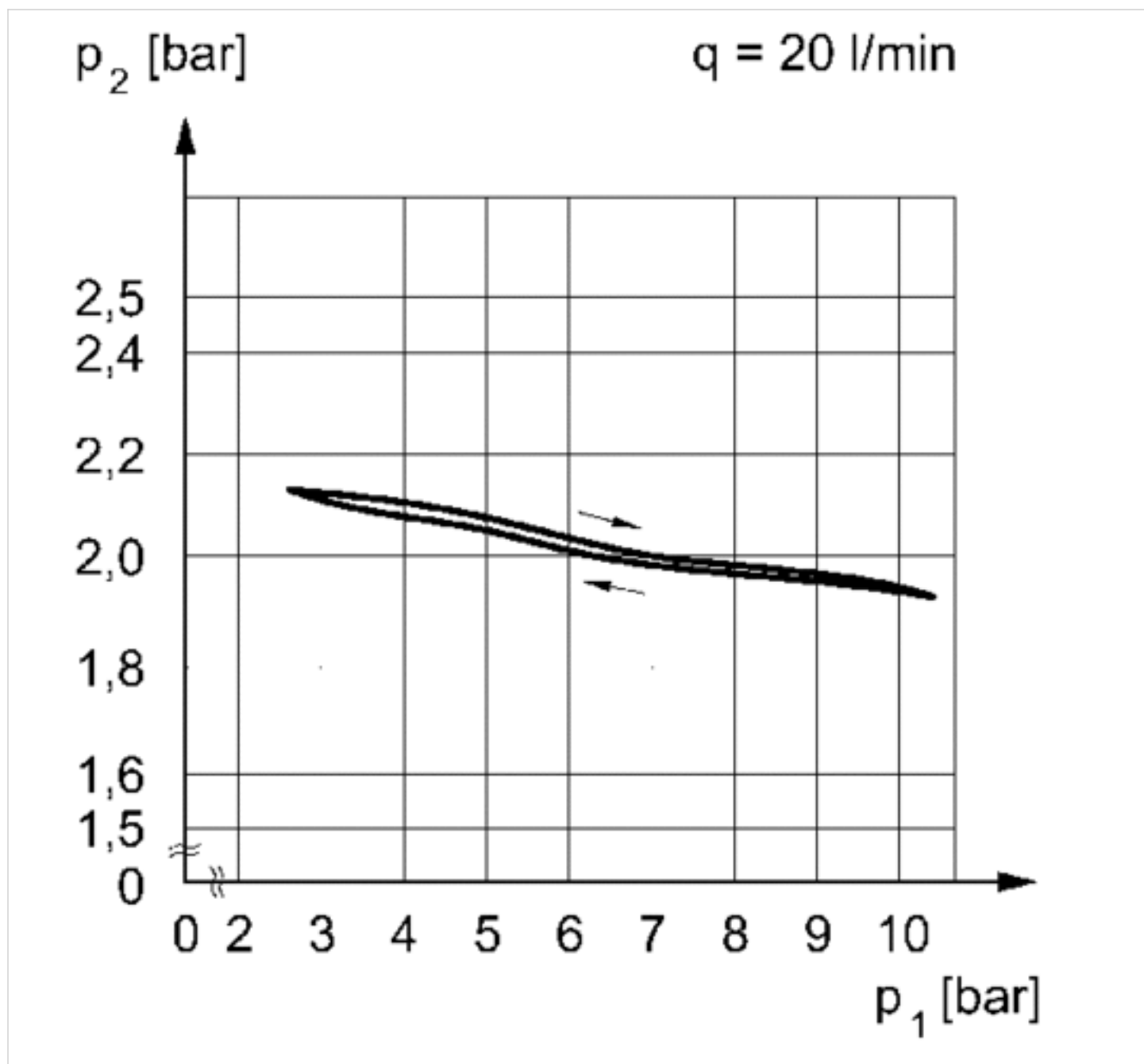
- A1 = input
A2 = output
A6 = output
A7 = condensate drain
1) Semi-automatic condensate drain
2) fully automatic condensate drain

Dimensions in mm

A1	A2	A6	A7	B	C	D	E	H	I	J	K	L	M	T2	T6	T7	V	W	W1
G 3/4	G 3/4	G 1/4	G 1/8	100	132	253	385	58	M6	103	70.5	28	3	18	7	8.5	29	403	101.5
G 1	G 1	G 1/4	G 1/8	100	132	253	385	58	M6	103	70.5	28	3	18	7	8.5	29	403	101.5

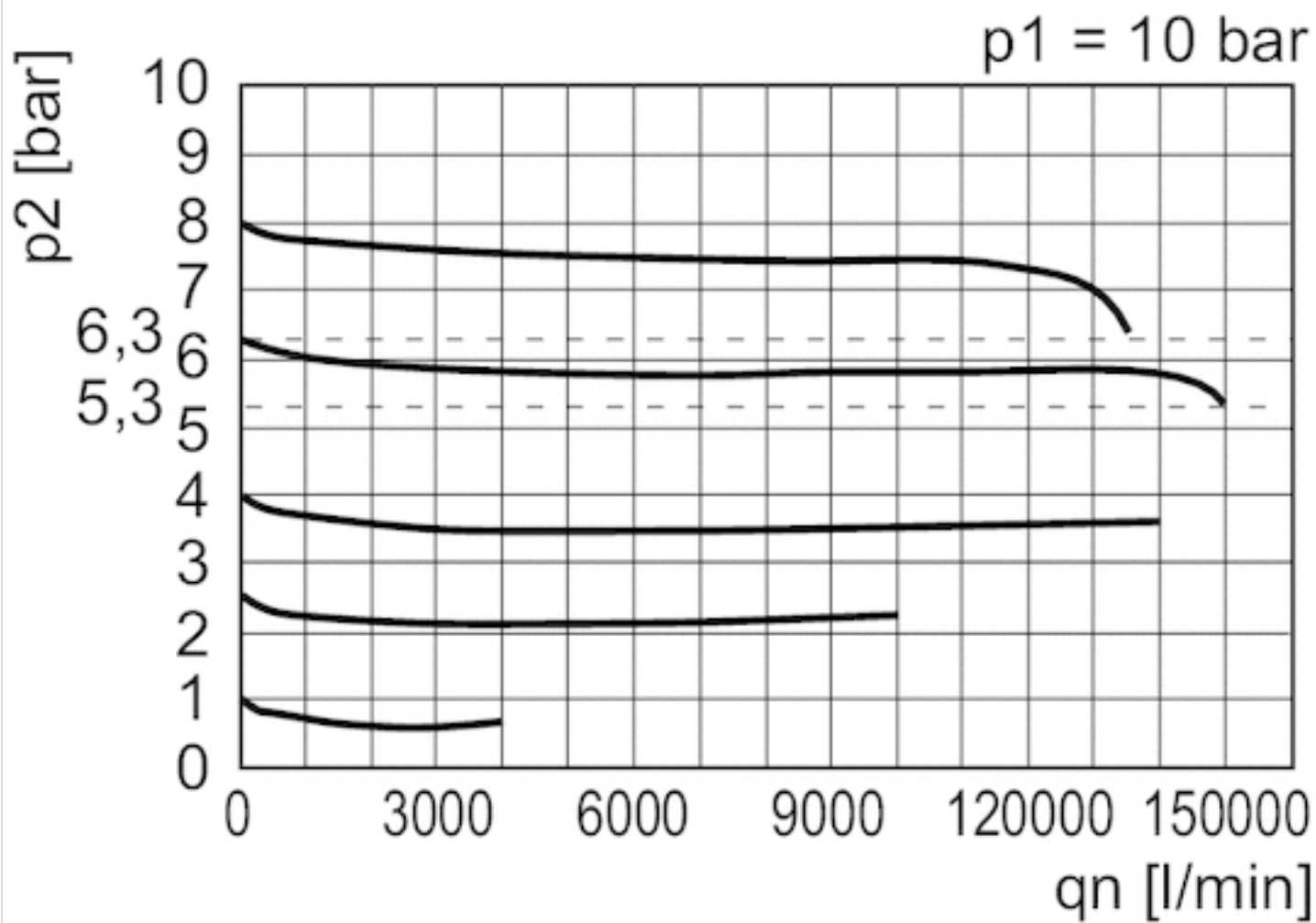
Diagrams

Pressure characteristics curve



p_1 = working pressure
 p_2 = secondary pressure
 q_n = nominal flow
 q = flow rate

Flow rate characteristic



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

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



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