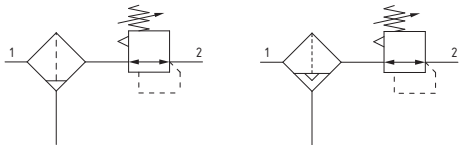


Filter regulators



- ▶ Filter-pressure regulator diaphragm with over-pressure drain (Relieving)
- ▶ Body, adjustment mechanism, back plate and caseback internal components in AISI 316L stainless steel
- ▶ AISI 316 stainless steel adjustment springs
- ▶ Fixing screws, adjustment screw and locking nut in inox A4 (AISI 316)
- ▶ Clean profile versions available
- ▶ Filter cartridge available in AISI 316 stainless steel or HDPE
- ▶ Low hysteresis rolling diaphragm
- ▶ Balanced system
- ▶ Manual or automatic drain
- ▶ ATEX certification (II 2G or II 2D), SIL, EAC

**Note**

The pressure must be always regulating while increasing. For a more precise regulation and higher sensibility, the use of a regulator with a pressure range as close as possible to the regulated pressure is recommended.

2

AIR TREATMENT

Technical characteristics			
Size	Size 2	Size 3	Size 4
Type	Rough finishing Clean profile (Bowl and adjustment mechanism)		
IN / OUT connections	1/4" NPT 3/8" NPT G1/4"	1/4" NPT 1/2" NPT G1/2"	3/4" NPT 1" NPT G1"
Assembly configuration	Stand alone		
Assembly position	Vertical		
Filter pore size (µm)	5 20 50		
Pressure range (bar)	0-2 0-4 0-8 0-12		0-2 0-4 0-7 0-10
Max. bowl capacity (cm³)	34	68	90
Condensation drain	Manual Automatic		
Regulation	Manual		
Pressure measurement	1/8" NPT pressure gauge connection port		

Operational characteristics						
Size	Size 2	Size 3	Size 4	Size 2	Size 3	Size 4
Condensation drain	Manual condensation drain			Automatic condensation drain		
Maximum working pressure (bar)	20 (standard version)			16 (automatic drain version) 10 (reduced orifice automatic drain version)		
Minimum working pressure (bar)	/			0,5		
Working temperature (C°)	-30 ... +80 (standard version) -50 ... +80 (low temperature L version) -60 ... +80 (low temperature version -60 °C Z) -5 ... +150 (high temperature H version) -40 ... +100 (EPDM-FDA version)			-35 ... +70 (automatic drain S version and reduced orifice automatic drain SR version)		

Weight			
Size	Size 2	Size 3	Size 4
Standard version (g)	1492	2557	6253
Automatic drain version / Reduced orifice automatic drain version (g)	1579	2723	6290



Order codes

S S 17 3B E B B N L

Version	
S	Rough finishing
F	Clean profile
M	Modular assembly version (only for size 2 and size 3)

Size and connections	
2A	Size 2 - 1/4" NPT
2B	Size 2 - 3/8" NPT
2C	Size 2 - G1/4"
3A	Size 3 - 1/4" NPT
3B	Size 3 - 1/2" NPT
3D	Size 3 - G1/2"
4A	Size 4 - 3/4" NPT
4B	Size 4 - 1" NPT
4D	Size 4 - G1"

Filter pore size	
A	5 μ m - 316 stainless steel
B	20 μ m - 316 stainless steel
C	50 μ m - 316 stainless steel
D	5 μ m - HDPE
E	20 μ m - HDPE
F	50 μ m - HDPE

Pressure range	
A	0 - 2 bar
B	0 - 4 bar
C	0 - 8 bar (0 - 7 bar for size 4)
D	0 - 12 bar (0 - 10 bar for size 4)

Type	
	Standard
N	Without relieving

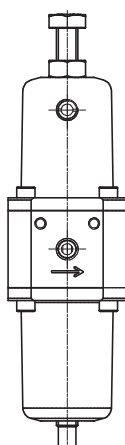
Options	
	Standard
L	Low temperature
Z	Low temperature (-60 °C)
H	High temperature
S	Automatic drain
SR	Reduced orifice automatic drain version
EF	EPDM-FDA

Example: SS173BEBBNL

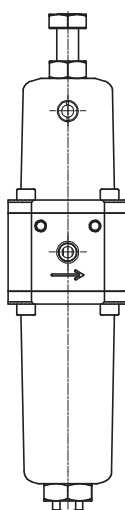
Size 3 filter regulator, rough finishing, 1/2" NPT connection, filter pore size 20 μ m - 316 stainless steel, pressure range 0 - 4 bar, without relieving, low temperature version.

Design

Size 2 - Size 3 - Size 4
Manual drain

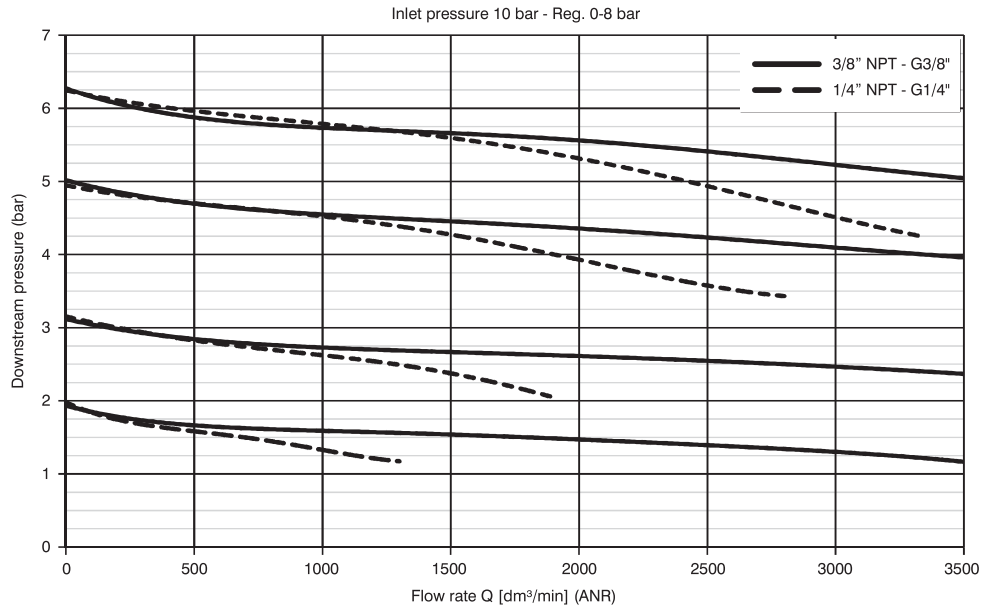


Size 2 - Size 3 - Size 4
Automatic drain



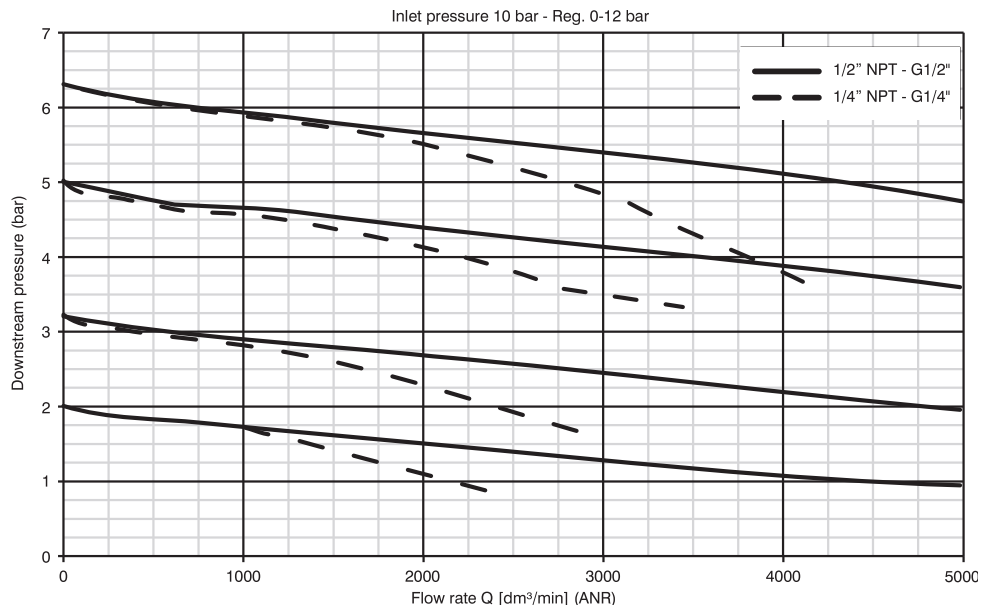
Characteristic curves

Flow rate curves



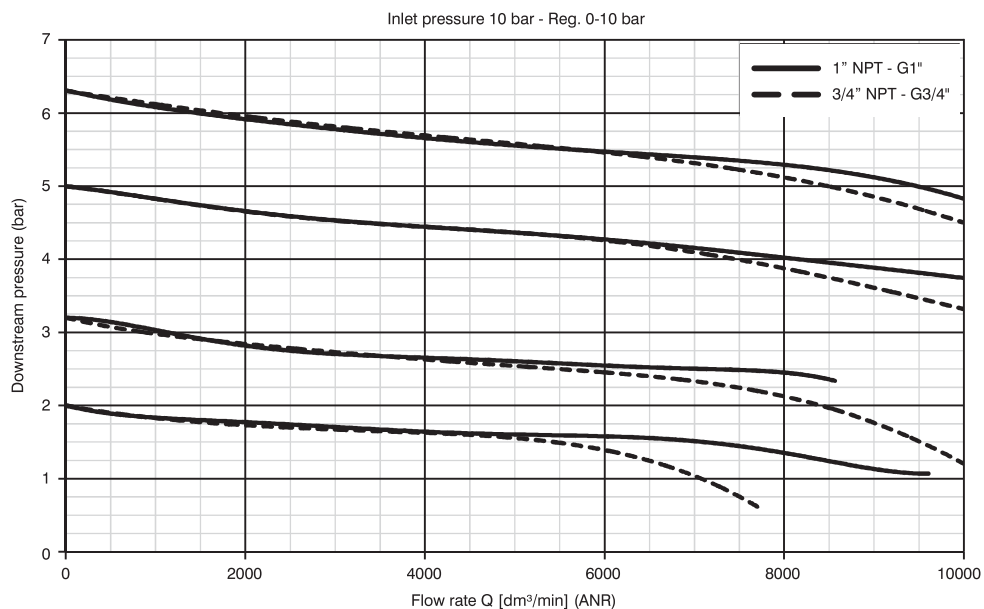
Size 2

Flow rate curves



Size 3

Flow rate curves



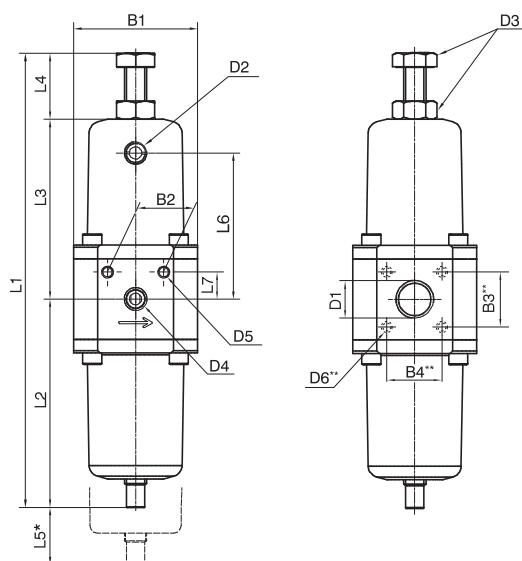
Size 4

2

AIR TREATMENT

Dimensions

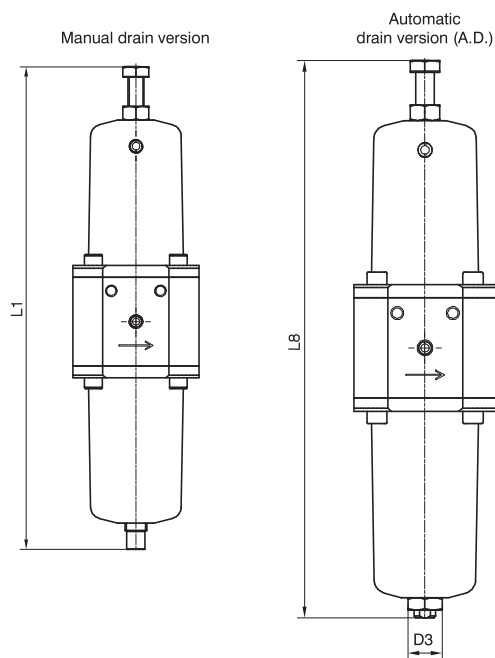
Overall manual drain version



* = BOWL REMOVAL MAXIMUM HEIGHT
** = ONLY FOR M VERSION

Model	B1	B2	B3	B4	D1	D2	D3	D4	D5	D6	L1	L2	L3	L4	L5	L6	L7
#172...	55	25	25	25	1/4" NPT 3/8" NPT G1/4"	1/8" NPT	Ch.17	1/8" NPT	M5 2 front holes 2 rear holes	M4 4 holes IN side 4 holes OUT side	202,5	93	80	29,5	45	65	12
#173...	71	22	31,5	31,5	1/4" NPT 1/2" NPT G1/2"	1/8" NPT	Ch.17	1/8" NPT	M6 2 front holes 2 rear holes	M5 4 holes IN side 4 holes OUT side	223,5	104	91	28,5	65	76	14,5
#174...	92	36	/	/	3/4" NPT 1" NPT G1"	1/8" NPT	Ch.19	1/8" NPT	M8 2 front holes 2 rear holes	/	352,5	166	147	39,5	80	128	22,5

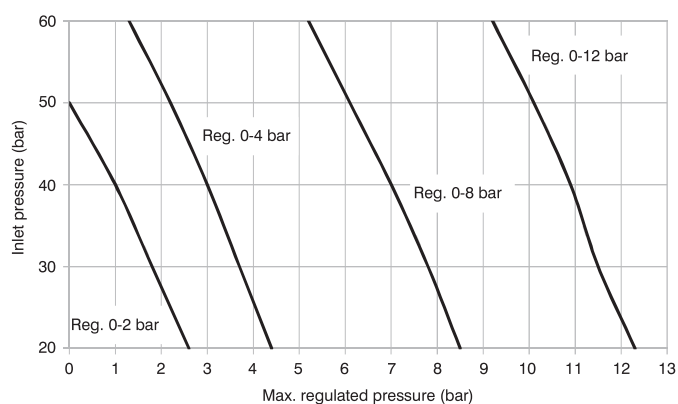
Variable dimensions



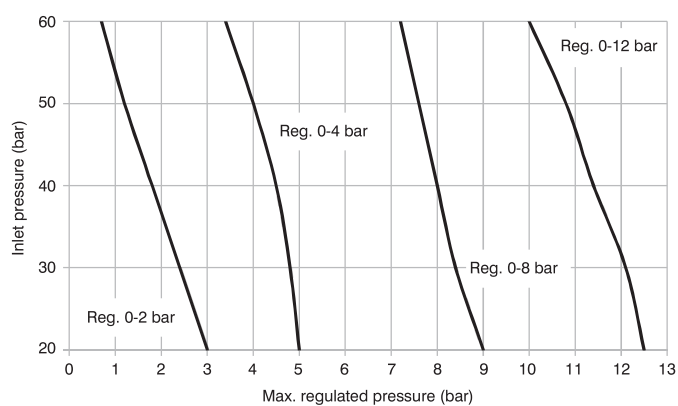
Model	L1	L8	D3
#172...	202,5	229,5	1/8" NPT
#173...	223,5	259,5	1/8" NPT
#174...	352,5	361	1/8" NPT

Inlet pressure notes

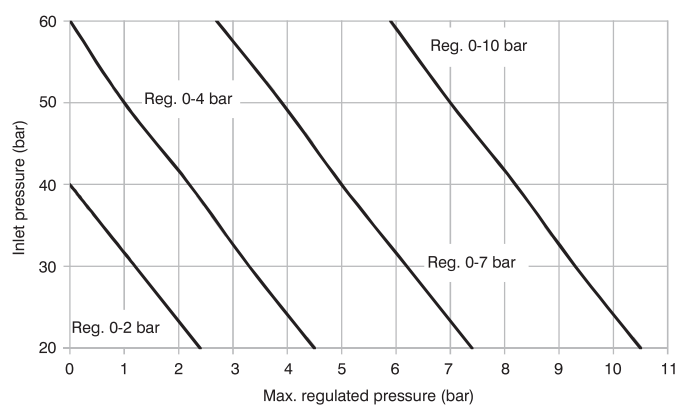
Pressure regulator Stainless steel line have been designed to withstand a **60 bar** maximum inlet pressure. **Maximum regulated outlet pressure is 20 bar**. For performance details please refer to diagram alongside.



Size 2



Size 3



Size 4