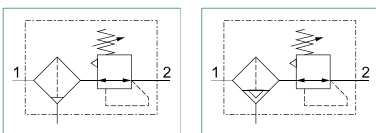


Filter regulators (E - EM - EW - EP - EZ)

AIR TREATMENT


- Filter - diaphragm pressure regulator with relieving
- Available in 4 sizes with flow rates up to 8000 NI/min and connections from 1/8" to 1"
- Low hysteresis rolling diaphragm and balanced spool
- Filtering element made of HDPE available in 3 different filtration grades (5 µm, 20 µm and 50 µm)
- Bowl assembly via bayonet type quick coupling mechanism with safety button
- Semi-automatic or automatic drain
- Available in four pressure ranges up to 12 bar
- Fitted with panel mounting locking ring
- Available with pressure gauge or digital pressure switch integrated
- Atex certification (II 2GD or II 3GD)
- Inlet pressures up to 20 bar


Note

For installations where a more accurate and constant pressure is required, the unit should be installed as close as possible to the point of use. In order to ensure that any fluid discharged by the auto drain assembly is adequately drained away, it is recommended you use a 6 mm fitting and tube.

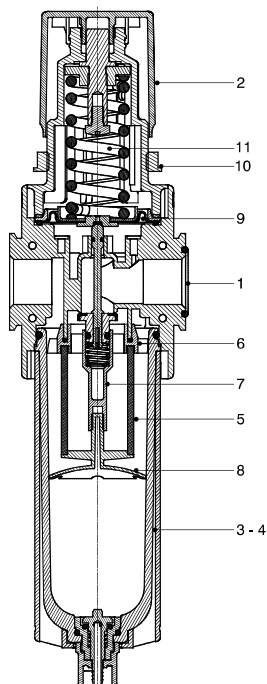
Technical characteristics					
Size		Size 1	Size 2	Size 3	Size 4
Body and connections type		Technopolymer body, integrated technopolymer connections (T version) Technopolymer body, metal connections (N version)			/
		/	Aluminium body, integrated aluminium connections (P - L versions)		
Protection and bowl type		Technopolymer protection - PC bowl Technopolymer protection - PA bowl			
		/	Metal protection - PC bowl Metal protection - PA bowl Metal bowl (blind metal bowl)		
IN / OUT connections	T version	G1/4"	G3/8"	G1/2"	not available
	N version	G1/8" - G1/4" - 1/4" NPT	G3/8" - G1/4" - 3/8" NPT	G3/8" - G1/2" - 1/2" NPT	
	P and L version	non disponibile	G3/8" - 1/4" NPT	G1/2" - 1/2" NPT	G1" - 1" NPT
Assembly configuration		Stand alone Panel mounting With fixing bracket			
		/			Panel mounted
Assembly positions		Vertical ±5°			
Filter pore size		5 µm 20 µm 50 µm			
Pressure range		0-2 bar 0-4 bar 0-8 bar 0-12 bar (P2 max 10 Bar in case of digital pressure switch selection)			
Bowl capacity		18 cm³	34 cm³	68 cm³	90 cm³
Condensation drain		Semi-automatic Automatic			
Regulation		Manul push and lock with pressure Manual lockable with accessories			
Pressure measurement		G1/8" - 1/8" NPT pressure gauge connection port (only for versions with IN / OUT NPT connections) Integrated pressure gauge (optional) Digital pressure switch (optional)			
Max. fittings torque IN / OUT connections		G1/8" metal: 15 Nm G1/4" metal: 20 Nm G1/4" technopolymer: 9 Nm	G1/4" metal: 20 Nm G3/8" metal: 25 Nm G3/8" technopolymer: 16 Nm	G3/8" metal: 25 Nm G1/2" metal: 30 Nm G1/2" technopolymer: 22 Nm	G1" metal: 35 Nm
Max. fitting torque pressure gauge connection port		G1/8" technopolymer: 4 Nm G1/8" metal: 15 Nm			

Operational characteristics								
Size	Size 1	Size 2	Size 3	Size 4	Size 1	Size 2	Size 3	Size 4
Condensation drain	Semi-automatic				Automatic			
Maximum working pressure	13 bar				10 bar			
	/	20 bar (only with body and metal bowl)			/	16 bar (only with body and metal bowl)		
Minimum working pressure	0,5 bar				0,5 bar			
Working temperature	-5 °C ... +50 °C				-5 °C ... +50 °C			
	/	-30 °C +80 °C (only for P version and metal bowl) -40 °C +80 °C (only for L version and metal bowl)						
Working temperature with digital pressure switch	0 °C ... +50 °C							

Weights					
	Size	Size 1	Size 2	Size 3	Size 4
Fully technopolymer version		210 g	410 g	500 g	/
Technopolymer body version, aluminium bowl protection and technopolymer bowl		/	440 g	600 g	/
Technopolymer body version, aluminium bowl		/	460 g	660 g	/
Aluminium body version, technopolymer protection and bowl		/	480 g	710 g	1460 g
Aluminium body version, aluminium bowl protection and technopolymer bowl		/	510 g	730 g	1600 g
Aluminium body version and aluminium bowl		/	560 g	790 g	1620 g

Materials

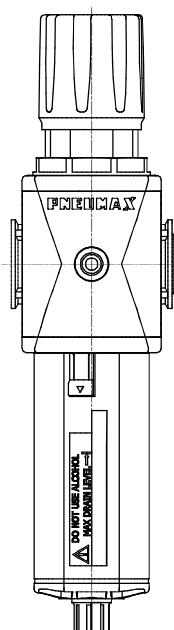
Exploded sectioned



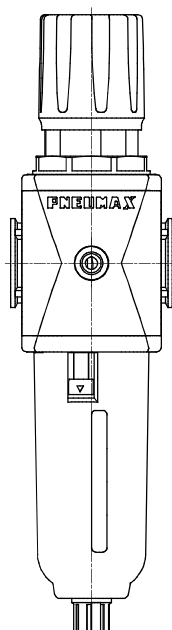
Filter regulator		
1	Body	Polyamide Die-cast aluminium
2	Adjusting knob	Polyamide
3	Technopolymer bowl	Polycarbonate Polyamide
4	Metal bowl Bowl protection	Die-cast aluminium Polyamide - Die-cast aluminium
5	Filtering element	Polyethylene
6	Baffle	Acetal resin
7	Spool support	Acetal resin
8	Filtering element support	Acetal resin
9	Diaphragm	NBR
10	Panel mounting locking ring	Polyamide
11	Adjusting spring	Steel

Design

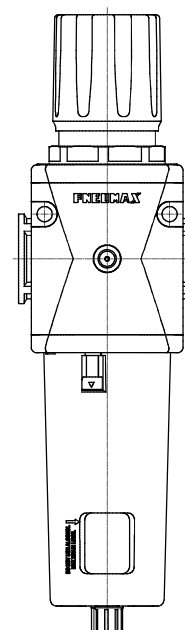
Size 1 - Size 2 - Size 3
Technopolymer protection



Size 1 - Size 2 - Size 3
Protection / Metal bowl



Size 4
All versions





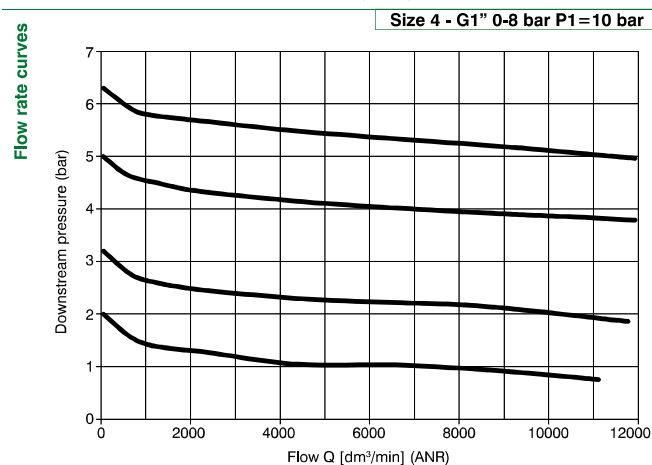
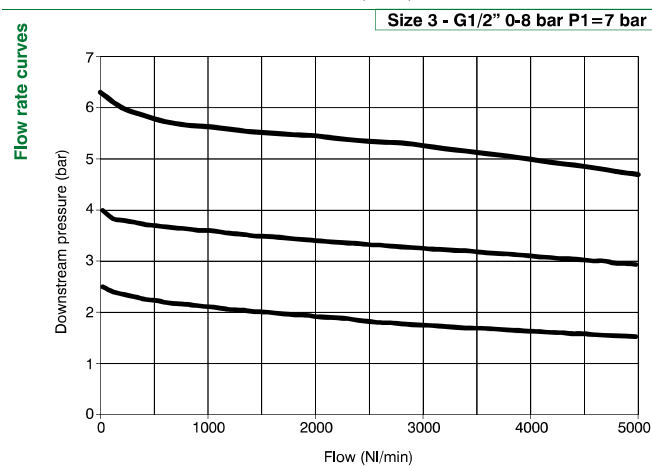
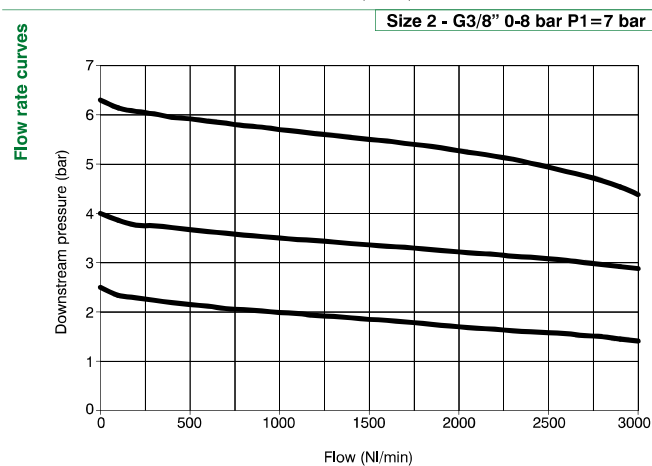
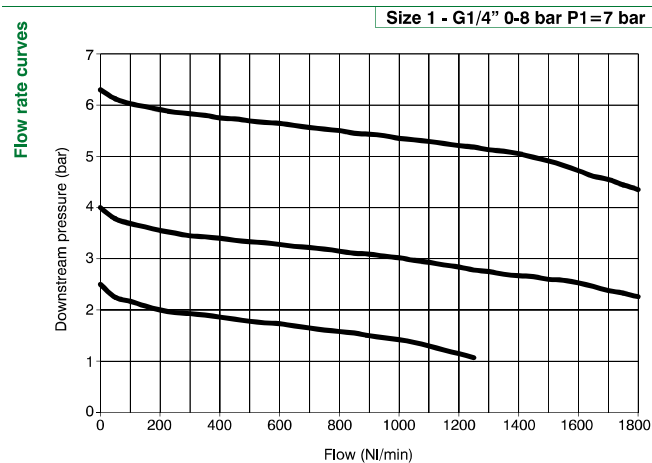
Order codes

AIR TREATMENT

	T	17	3B	E	M	B	D	S				T
Version												
N : Technopolymer body and metal inserts (not available for size 4)												
T : Technopolymer body and thread (not available for size 4)												
P : Aluminum body (not available for size 1)												
L : Aluminum body, low temperature (not available for size 1)												
Size and connections												
1A : Size 1 - G1/8" only for N version												
1B : Size 1 - G1/4" only for T - N versions												
1C : Size 1 - 1/4" NPT only for N version												
2A : Size 2 - G1/4" only for N version												
2B : Size 2 - G3/8" for all versions												
2C : Size 2 - 3/8" NPT only for N version - 1/4" NPT only for P - L versions												
3A : Size 3 - G3/8" only for N version												
3B : Size 3 - G1/2" for all versions												
3C : Size 3 - 1/2" NPT only for N - P - L versions												
4B : Size 4 - G1" only for P - L versions												
4C : Size 4 - 1" NPT only for P - L versions												
Pressure measurement options												
: G1/8" - 1/8" NPT thread												
M : Integrated pressure gauge												
W : Integrated pressure gauge Right - Left												
P : Digital pressure switch												
Z : Digital pressure switch Right - Left												
Filter pore size												
A : 5 µm												
B : 20 µm												
C : 50 µm												
Pressure range												
A : 0 - 2 bar												
B : 0 - 4 bar												
C : 0 - 8 bar												
D : 0 - 12 bar												
Condensation drain												
: Semi-automatic drain												
S : Automatic drain												
Relieving options												
: With relieving												
L : Without relieving												
Knob options												
: Non-lockable version												
K : Lockable version												
U : Lockable version with universal key												
Digital pressure switch options												
A : Cable 150 mm + M8 PNP												
B : Cable 150 mm + M8 NPN												
C : Cable 2 m PNP												
D : Cable 2 m NPN												
Bowl options												
: Technopolymer protection - PC bowl												
N : Technopolymer protection - PA bowl												
P : Metal protection - PC bowl (not available for size 1)												
R : Metal protection - PA bowl (not available for size 1)												
T : Metal bowl (not available for size 1)												

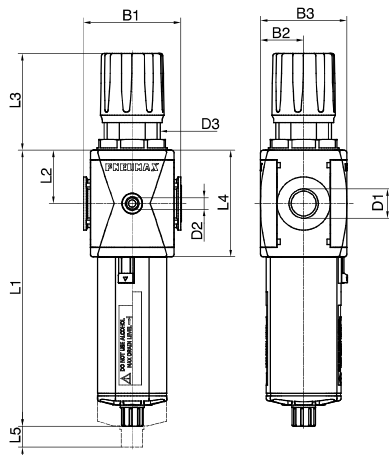
Example : T173BEMBDST : Size 3 filter regulator G1/2" 20 µm 0 - 12 bar, automatic drain and metal bowl

Characteristic curves

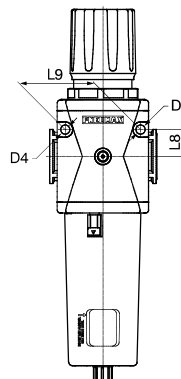


Dimensions

Pressure gauge connection port and semi-automatic drain version



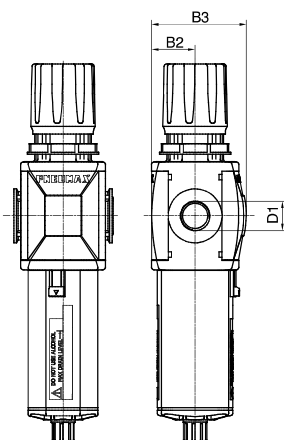
Fixing holes dimension detail (only for size 4)



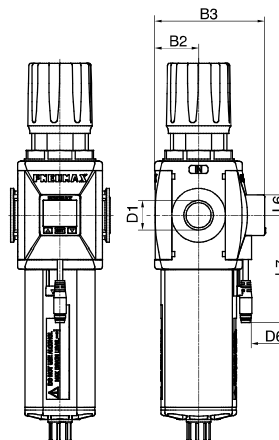
Model	B1	B2	B3	D1	D2	D3	D4	L1 - Bowl material		L2	L3	L4	L5	L8	L9
								Technopolymer	Metal						
#171..	48	21	42	G1/8" G1/4" 1/4" NPT	G1/8" 1/8" NPT	M30x1,5	/	148	/	27,5	54	55	40	/	/
#172..	62	28,5	57	G1/4" G3/8" 1/4" NPT 3/8" NPT	G1/8" 1/8" NPT	M42x1,5	/	169,1	171,5	34	71,8	68	50	/	/
#173..	73	32,5	65	G3/8" G1/2" 1/2" NPT	G1/8" 1/8" NPT	M42x1,5	/	207,2	209,5	40	72,8	80	65	/	/
#174..	99	44	88	G1" 1" NPT	G1/8" 1/8" NPT	M54x1,5	8,5	262	264,5	52,5	87,5	105	103	25	70

Variable dimensions

Integrated pressure gauge version



Integrated digital pressure switch version



Model	B2	B3		D1	D6 - Type of digital pressure switch		L6	L7 - Type of digital pressure switch	
		With pressure gauge	With digital pressure switch		A - B	C - D		A - B	C - D
#171..	21	48,5	60	G1/8" G1/4" 1/4" NPT	M8 - 3 PIN	3 x 0,129 mm, Ø 4 mm	15	150	2000
#172..	28,5	62,5	73,5	G1/4" G3/8" 1/4" NPT 3/8" NPT					
#173..	32,5	70,5	81,5	G3/8" G1/2" 1/2" NPT					
#174..	44	90,5	101,5	G1" 1" NPT					



Variable dimensions



Model	L8 - Bowl material		D7
	Technopolymer	Metal	
Semi-automatic drain	15,7	18	Plastic hose connector Ø 6
Automatic drain	2	4,5	G1/8"

AIR TREATMENT