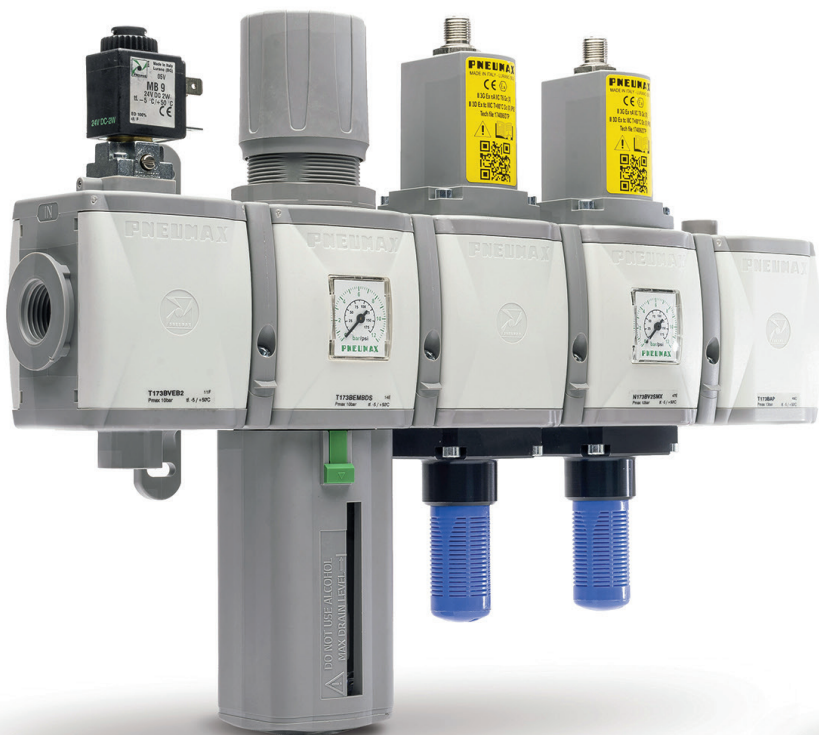




PNEUMAX



SERIES AIRPLUS AIR TREATMENT

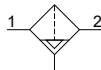
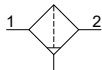
SAFETY AND RELIABILITY

PRODUCT	VERSION	SIZE				MAX. PRESSURE		MIN - MAX AMBIENT TEMPERATURE			ATEX	
		Size 1	Size 2	Size 3	Size 4	Technopolymer body or bowl	Metal body and bowl	Technopolymer body or bowl	Metal body and bowl	Automatic drain		
FILTER (F)	T : Technopolymer body and thread	●	●	●		13 bar - 10 bar (automatic drain)	/ 20 bar - 16 bar (automatic drain)	-5 °C ... +50 °C	/ -30 °C ... +80 °C -40 °C ... +80 °C	-5 °C ... +50 °C	●	
	N : Technopolymer body and metal inserts	●	●	●								
	P : Aluminum body		●	●	●							
	L : Aluminum body, low temperature		●	●	●							
COALESCING FILTER (D)	T : Technopolymer body and thread	●	●	●		13 bar - 10 bar (automatic drain)	/ 20 bar - 16 bar (automatic drain)	-5 °C ... +50 °C	/ -30 °C ... +80 °C -40 °C ... +80 °C	-5 °C ... +50 °C	●	
	N : Technopolymer body and metal inserts	●	●	●								
	P : Aluminum body		●	●	●							
	L : Aluminum body, low temperature		●	●	●							
OIL REMOVAL FILTER (DBV) (DCV) (DAV)	T : Technopolymer body and thread			●		10 bar		-5 °C ... +50 °C	/		●	
	N : Technopolymer body and metal inserts			●								
	P : Aluminum body			●	●							
	L : Aluminum body, low temperature											
CARBON FILTER (DD)	T : Technopolymer body and thread			●		13 bar	/ 20 bar	-5 °C ... +50 °C	/ -30 °C ... +80 °C -40 °C ... +80 °C	-5 °C ... +50 °C	●	
	N : Technopolymer body and metal inserts			●								
	P : Aluminum body			●	●							
	L : Aluminum body, low temperature			●	●							
REGULATOR (R) (RM) (RW)	T : Technopolymer body and thread	●	●	●		13 bar	20 bar	-5 °C ... +50 °C	/ -30 °C ... +80 °C -40 °C ... +80 °C	/	●	
	N : Technopolymer body and metal inserts	●	●	●								
	P : Aluminum body		●	●	●							
	L : Aluminum body, low temperature		●	●	●							
PRESSURE REGULATORS FOR MANIFOLD (B - M)	T : Technopolymer body and thread	●				13 bar	/	-5 °C ... +50 °C	/	/	●	
	N : Technopolymer body and metal inserts	●										
	P : Aluminum body								/			
	L : Aluminum body, low temperature							/	/			
PILOTED PRESSURE REGULATORS (RP) (RMP) (RPP)	T : Technopolymer body and thread					/	/	/	/	/	●	
	N : Technopolymer body and metal inserts											
	P : Aluminum body				●	/	20 bar	/	-30 °C ... +80 °C			
	L : Aluminum body, low temperature					/		/				
PILOTED PRESSURE REGULATORS WITH DIGITAL PRESSURE SWITCH (RPP) (RPZ)	T : Technopolymer body and thread					/	/	/	/	/		
	N : Technopolymer body and metal inserts											
	P : Aluminum body				●	/	20 bar	/	0 °C ... +50 °C			
	L : Aluminum body, low temperature					/		/				
FILTER REGULATOR (E) (EM) (EW)	T : Technopolymer body and thread	●	●	●		13 bar - 10 bar (automatic drain)	20 bar - 16 bar (automatic drain)	-5 °C ... +50 °C	/ -30 °C ... +80 °C -40 °C ... +80 °C	-5 °C ... +50 °C	●	
	N : Technopolymer body and metal inserts	●	●	●								
	P : Aluminum body		●	●	●							
	L : Aluminum body, low temperature		●	●	●							
REGULATOR WITH DIGITAL PRESSURE SWITCH (RP) (RZ)	T : Technopolymer body and thread	●	●	●		13 bar	20 bar	0 °C ... +50 °C		/		
	N : Technopolymer body and metal inserts	●	●	●								
	P : Aluminum body		●	●	●							
	L : Aluminum body, low temperature		●	●	●							
FILTER REGULATOR WITH DIGITAL PRESSURE SWITCH (E) (EP) (EZ)	T : Technopolymer body and thread	●	●	●		13 bar - 10 bar (automatic drain)	20 bar - 16 bar (automatic drain)	0 °C ... +50 °C		-5 °C ... +50 °C		
	N : Technopolymer body and metal inserts	●	●	●								
	P : Aluminum body		●	●	●							
	L : Aluminum body, low temperature		●	●	●							
LUBRICATOR (L)	T : Technopolymer body and thread	●	●	●		13 bar		-5 °C ... +50 °C	/		●	
	N : Technopolymer body and metal inserts	●	●	●								
	P : Aluminum body		●	●	●							
	L : Aluminum body, low temperature											/

PRODUCT	VERSION	SIZE				MAX. PRESSURE		MIN - MAX AMBIENT TEMPERATURE			ATEX
		Size 1	Size 2	Size 3	Size 4	Technopolymer body or bowl	Metal body and bowl	Technopolymer body or bowl	Metal body and bowl	Automatic drain	
LUBRICATOR WITH ELECTRICAL MINIMUM LEVEL SENSOR (LA) (LC)	T : Technopolymer body and thread	●	●	●		13 bar		-5 °C ... +50 °C		/	
	N : Technopolymer body and metal inserts	●	●	●							
	P : Aluminum body		●	●	●						
	L : Aluminum body, low temperature					/		/			
SHUT OFF VALVE (VL)	T : Technopolymer body and thread	●	●	●		13 bar - 10 bar (for size 4)		-5 °C ... +50 °C	/	/	●
	N : Technopolymer body and metal inserts	●	●	●					-30 °C ... +80 °C		
	P : Aluminum body		●	●	●				-40 °C ... +80 °C		
	L : Aluminum body, low temperature		●	●	●						
PNEUMATIC SHUT OFF VALVE (VP)	T : Technopolymer body and thread	●	●	●		13 bar	20 bar	-5 °C ... +50 °C	/	/	●
	N : Technopolymer body and metal inserts	●	●	●					-30 °C ... +80 °C		
	P : Aluminum body		●	●	●				-40 °C ... +80 °C		
	L : Aluminum body, low temperature		●	●	●						
ELECTRIC SHUT OFF VALVE (VE)	T : Technopolymer body and thread	●	●	●		10 bar		-5 °C ... +50 °C		/	●
	N : Technopolymer body and metal inserts	●	●	●							
	P : Aluminum body		●	●	●						
	L : Aluminum body, low temperature					/		/			
PROGRESSIVE START-UP VALVE (AP)	T : Technopolymer body and thread	●	●	●		13 bar - 10 bar (for size 4)		-5 °C ... +50 °C		/	●
	N : Technopolymer body and metal inserts	●	●	●							
	P : Aluminum body		●	●	●						
	L : Aluminum body, low temperature		●	●	●						
AIR INTAKE (PA)	T : Technopolymer body and thread	●	●	●		13 bar	20 bar	-5 °C ... +50 °C	/	/	●
	N : Technopolymer body and metal inserts	●	●	●					-30 °C ... +80 °C		
	P : Aluminum body		●	●	●						
	L : Aluminum body, low temperature					/		/			
PRESSURE SWITCH (PP)	T : Technopolymer body and thread	●	●	●		13 bar	20 bar	-5 °C ... +50 °C		/	
	N : Technopolymer body and metal inserts	●	●	●							
	P : Aluminum body		●	●	●						
	L : Aluminum body, low temperature					/		/			
AIR INTAKE WITH INTEGRATED PRESSURE GAUGE (PM-PW)	T : Technopolymer body and thread	●	●	●		13 bar		-5 °C ... +50 °C	/	/	●
	N : Technopolymer body and metal inserts	●	●	●					-30 °C ... +80 °C		
	P : Aluminum body		●	●	●						
	L : Aluminum body, low temperature					/		/			
AIR INTAKE WITH INTEGRATED DIGITAL PRESSURE SWITCH (PP-PZ)	T : Technopolymer body and thread	●	●	●		13 bar		0 °C ... +50 °C		/	
	N : Technopolymer body and metal inserts	●	●	●							
	P : Aluminum body		●	●	●						
	L : Aluminum body, low temperature					/		/			

Filters (F)


- ▶ Double filter action: air flow centrifugation and filter element
- ▶ Available in 4 sizes with flow rates up to 14000 NI/min and connections from 1/8" to 1"
- ▶ Filtering cartridge made of HDPE available in three different filtration grades (5 µm, 20 µm, 50 µm)
- ▶ Filter cartridge can be regenerated by washing / blowing it or replaced
- ▶ Bowl assembly via bayonet type quick coupling mechanism with safety button
- ▶ Semi-automatic or automatic drain
- ▶ Atex certification (II 2GD or II 3GD)
- ▶ Inlet pressures up to 20 bar


Note

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.

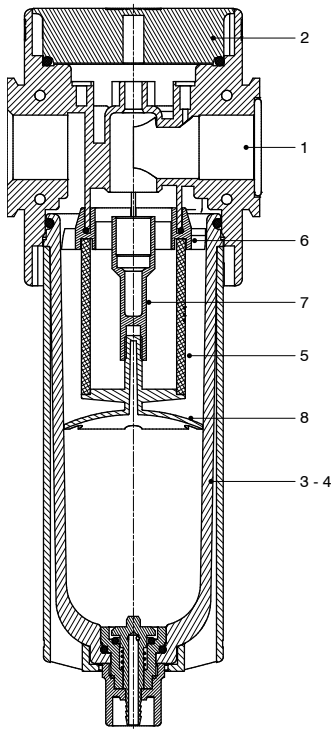
Technical characteristics					
Size		Size 1	Size 2	Size 3	Size 4
Body and connections type		Technopolymer body, integrated technopolymer connections (T version) Technopolymer body, metal connections (N version)			/
		/	Aluminium body, integrated aluminium connections (P - L versions)		
Protection and 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	not available	G3/8" - 1/4" NPT	G1/2" - 1/2" NPT	G1" - 1" NPT
Assembly configuration		Stand alone			
		/			Panel mounted
Assembly positions		Vertical ±5°			
Filter pore size		5 µm 20 µm 50 µm			
Bowl capacity		18 cm³	34 cm³	68 cm³	90 cm³
Condensation drain		Semi-automatic Automatic			
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

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)						

Weights	Size	Size 1	Size 2	Size 3	Size 4
Fully technopolymer version		129 g	226 g	355 g	/
Technopolymer body version, aluminium bowl protection and technopolymer bowl		/	257 g	393 g	/
Technopolymer body version, aluminium bowl		/	301 g	465 g	/
Aluminium body version, technopolymer protection and bowl		/	314 g	477 g	1163 g
Aluminium body version, aluminium bowl protection and technopolymer bowl		/	344 g	514 g	1306 g
Aluminium body version and aluminium bowl		/	389 g	587 g	1330 g

Materials

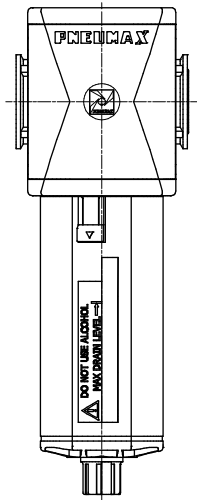
Exploded sectioned



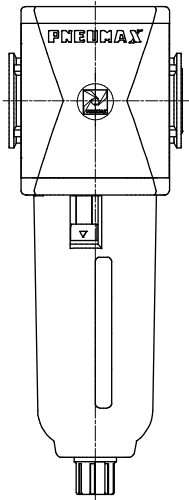
Filter		
1	Body	Polyamide Die-cast aluminium
2	Plug	Polyamide
3	Technopolymer bowl	Polycarbonate Polyamide
4	Metal bowl Bowl protection	Die-cast aluminium Polyamide - Die-cast aluminium
5	Filtering element	Polyethylene
6	Baffle	Acetal resin
7	Spool support	Acetal resin
8	Filtering element support	Acetal resin

Design

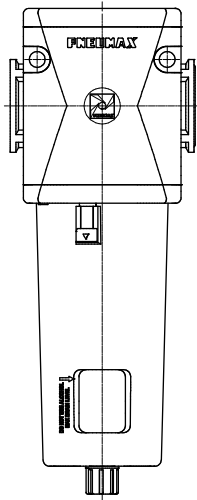
Size 1 - Size 2 - Size 3
Technopolymer protection



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



Size 4
All versions





Order codes

T 17 3B F B 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

Filter pore size

A : 5 μm
B : 20 μm
C : 50 μm

Condensation drain

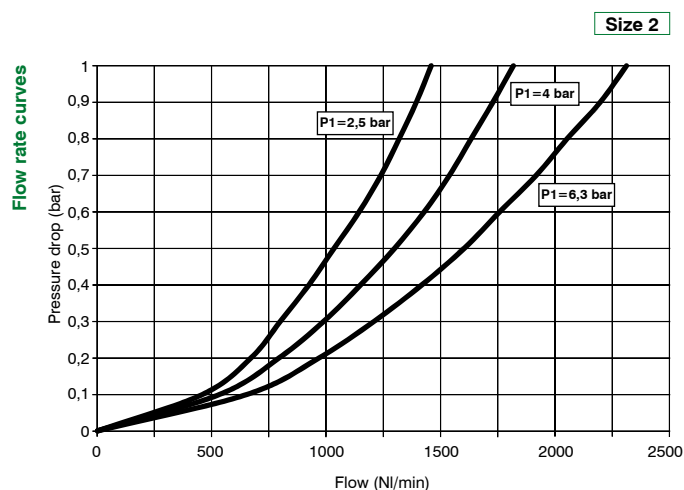
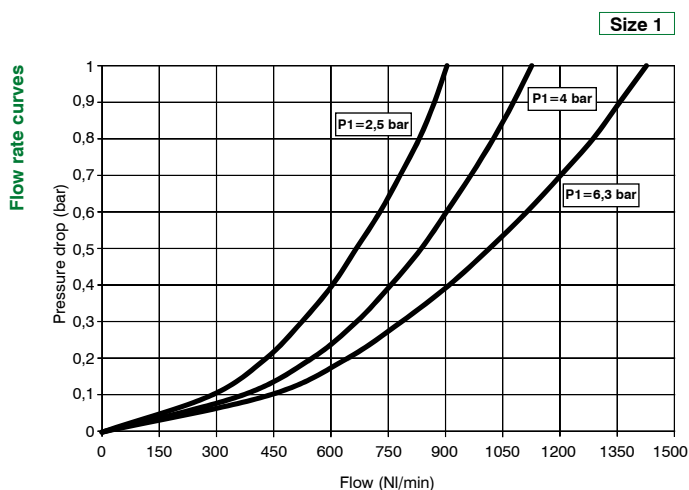
: Semi-automatic drain
S : Automatic drain

Bowl options

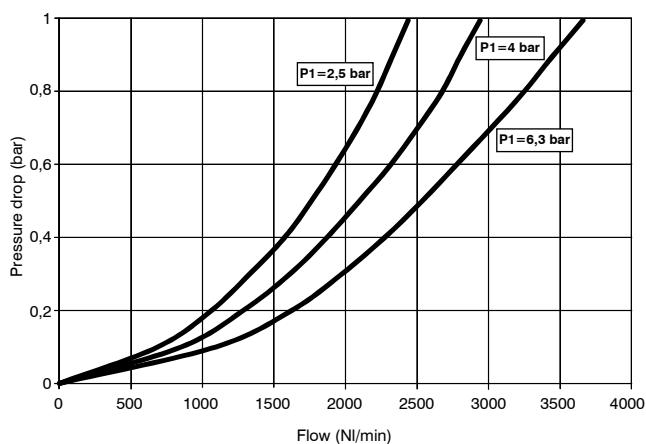
: Technopolymer protection - PC bowl
N : Technopolymer protection - PA bowl
P : Metal protection - PC bowl (not available for size 1)
R : Metal protection - PA bowl (not available for size 1)
T : Metal bowl (not available for size 1)

Example : T173BFBST : Size 3 filter G1/2" 20 μm , automatic drain and metal bowl

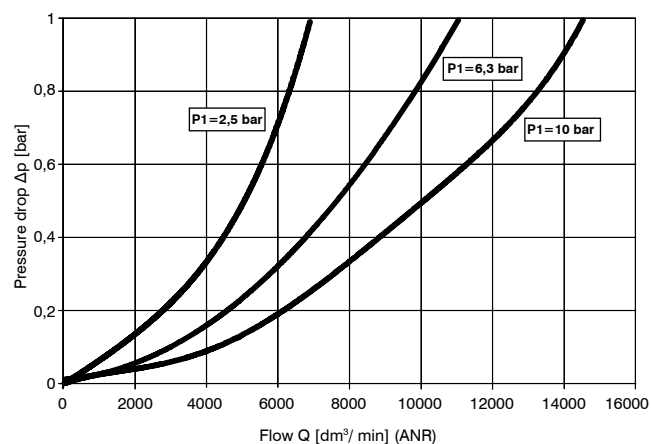
Characteristic curves



Flow rate curves



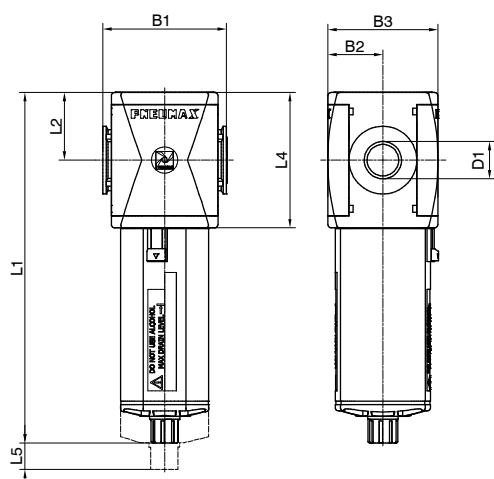
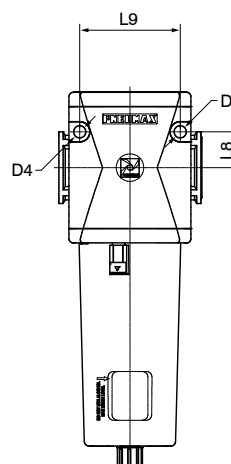
Flow rate curves



AIR TREATMENT

Dimensioni

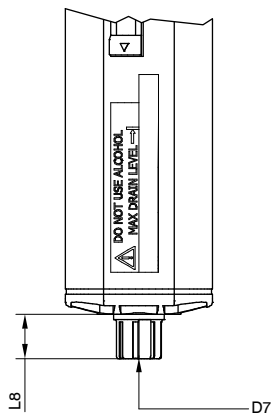
Semi-automatic drain version


Fixing holes dimension detail
(only for size 4)


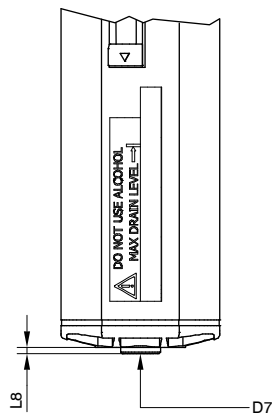
Model	B1	B2	B3	D1	D4	L1 - Bowl material		L2	L4	L5	L8	L9
						Technopolymer	Metal					
#171..	48	21	42	G1/8" G1/4" 1/4" NPT	/	148	/	27,5	55	40	/	/
#172..	62	28,5	57	G1/4" G3/8" 1/4" NPT 3/8" NPT	/	169,1	171,5	34	68	50	/	/
#173..	73	32,5	65	G3/8" G1/2" 1/2" NPT	/	207,2	209,5	40	80	65	/	/
#174..	99	44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

Variable dimensions

Semi-automatic drain version



Automatic drain version

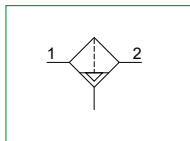
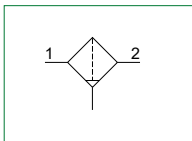


Model	L8 - Bowl material		D7
	Technopolymer	Metal	
Semi-automatic drain	15,7	18	Plastic hose connector Ø6
Automatic drain	2	4,5	G1/8"

Coalescing filters (DA)



- ▶ Coalescing filter
- ▶ Available in 4 sizes with flow rates up to 8000 NI/min and connections from 1/8" to 1"
- ▶ Filtering cartridge with filtration grade of 0,01 μm
- ▶ Filtering performances 99.97% (particles up to 0.01 μm)
- ▶ Bowl assembly via bayonet type quick coupling mechanism with safety button
- ▶ Semi-automatic or automatic drain
- ▶ Atex certification (II 2GD or II 3GD)
- ▶ Inlet pressures up to 20 bar



Note

In order to ensure the high level of filtration, it is recommended that a 5 μ filter is installed before the coalescing filter. 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.

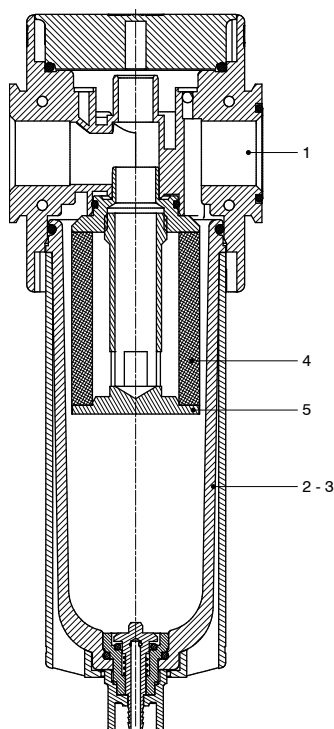
Technical characteristics					
Size		Size 1	Size 2	Size 3	Size 4
Body and connections type		Technopolymer body, integrated technopolymer connections (T version) Technopolymer body, metal connections (N version)			/
		/	Aluminium body, integrated aluminium connections (P - L versions)		
Protection and 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	not available	G3/8"	G1/2"	G1"
Assembly configuration		Stand alone			
		/			Panel mounted
Assembly positions		Vertical ±5°			
Filter pore size		0,01 μm, efficiency of 99,97%			
Bowl capacity		18 cm³	34 cm³	68 cm³	90 cm³
Condensation drain		Semi-automatic Automatic			
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

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)						

Weights	Size	Size 1	Size 2	Size 3	Size 4
Fully technopolymer version		130 g	224 g	366 g	/
Technopolymer body version, aluminium bowl protection and technopolymer bowl		/	251 g	402 g	/
Technopolymer body version, aluminium bowl		/	293 g	475 g	/
Aluminium body version, technopolymer protection and bowl		/	309 g	493 g	1197 g
Aluminium body version, aluminium bowl protection and technopolymer bowl		/	337 g	529 g	1340 g
Aluminium body version and aluminium bowl		/	378 g	603 g	1365 g

Materials

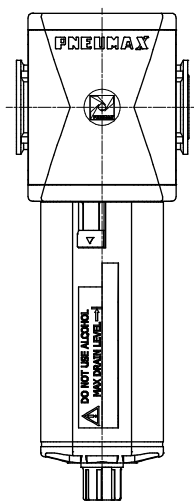
Exploded sectioned



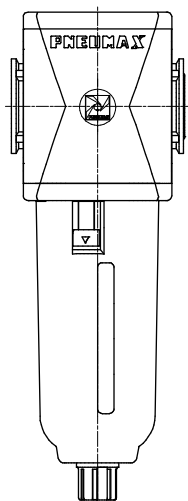
Coalescing filter		
1	Body	Polyamide Die-cast aluminium
2	Technopolymer bowl	Polycarbonate Polyamide
3	Metal bowl Bowl protection	Die-cast aluminium Polyamide - Die-cast aluminium
4	Filtering element	Borosilicate glass fiber
5	Filtering element support	Aluminium

Design

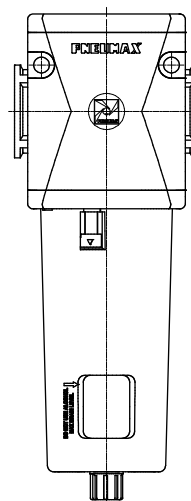
Size 1 - Size 2 - Size 3
Technopolymer protection



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



Size 4
All versions



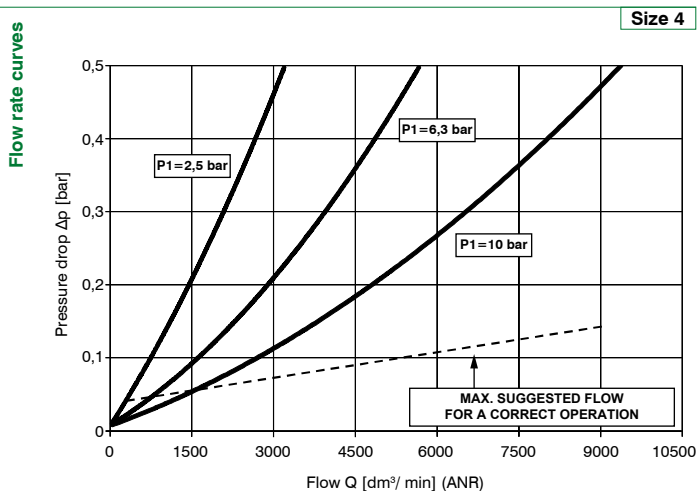
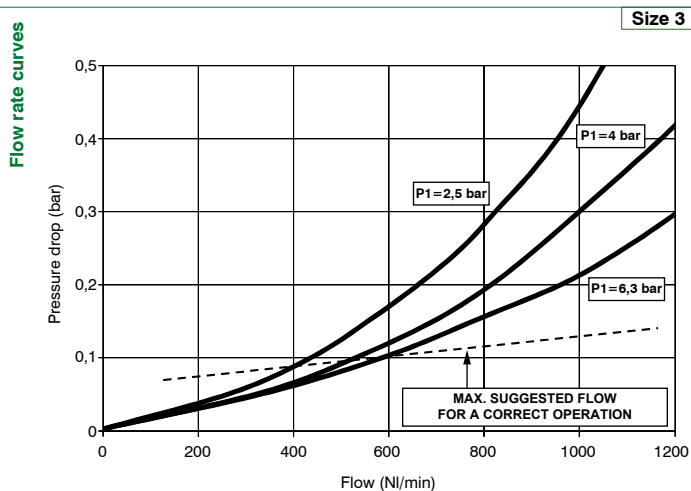
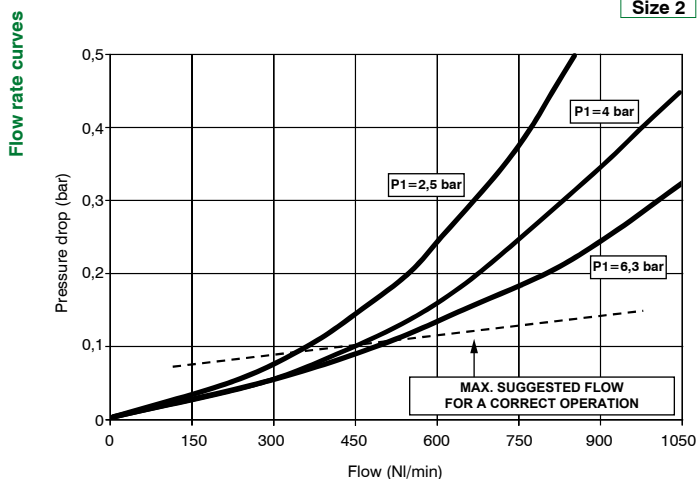
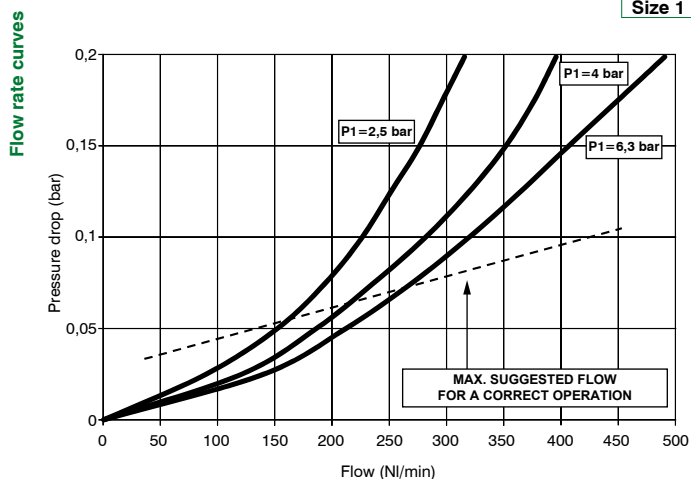
Order codes

	T	17	3B	DA	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						
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 version						
4B : Size 4 - G1" only for P - L versions						
Condensation drain						
: Semi-automatic drain						
S : Automatic drain						
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 : T173BDAST : Size 3 coalescing filter G1/2" 0,01 µm, automatic drain and metal bowl

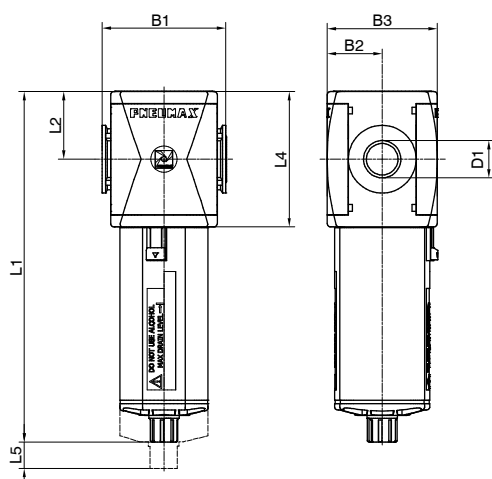
Characteristic curves

AIR TREATMENT

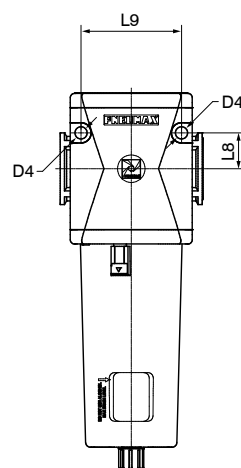


Dimensions

Semi-automatic drain version



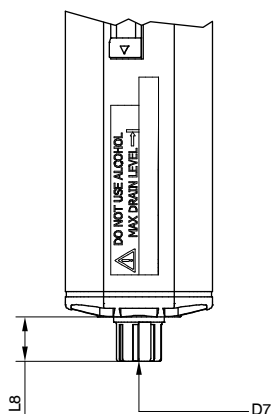
Fixing holes dimension detail (only for size 4)



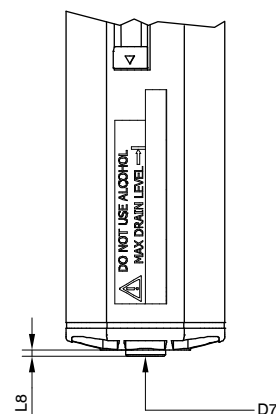
Model	B1	B2	B3	D1	D4	L1 - Bowl material		L2	L4	L5	L8	L9
						Technopolymer	Metal					
#171..	48	21	42	G1/8" G1/4" 1/4" NPT	/	148	/	27,5	55	40	/	/
#172..	62	28,5	57	G1/4" G3/8" 1/4" NPT 3/8" NPT	/	169,1	171,5	34	68	50	/	/
#173..	73	32,5	65	G3/8" G1/2" 1/2" NPT	/	207,2	209,5	40	80	65	/	/
#174..	99	44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

Variable dimensions

Semi-automatic drain version



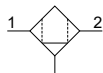
Automatic drain version



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"

Oil removal filters (DBV - DCV - DAV)


- ▶ Oil removal filter with coalescing filter element
- ▶ Available in 2 sizes with connections from 3/8" to 1"
- ▶ Particle removal up to 0,01 μm
- ▶ Oil residual 0,01 ppm
- ▶ Cartridge clogging level display:
 - green color - ok
 - red color - warning ($\Delta p > 0,5 \text{ bar}$)
- ▶ Bowl assembly via bayonet type quick coupling mechanism with safety button
- ▶ Automatic drain mounted as standard
- ▶ Atex certification (II 2GD or II 3GD)


Note

In order to ensure the high level of filtration, it is recommended that a 5 μ filter is installed before the coalescing filter. In order to ensure that any fluid discharged by the auto drain assembly is adequately drained away, it is recommended you use a 6mm fitting and tube.

Technical characteristics			
Size		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 version)	
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	G1/2"	not available
	N version	G3/8" - G1/2" - 1/2" NPT	
	P version	G1/2"	G1"
Assembly configuration		Stand alone	
		/	Panel mounted
Assembly positions		Vertical ±5°	
Filter pore size		Particle removal up to 0,01 µm Oil residual 0,01 ppm	
Bowl capacity		30 cm³	90 cm³
Condensation drain		Automatic	
Max. fittings torque IN / OUT connections		G3/8" metal: 25 Nm G1/2" metal: 30 Nm G1/2" technopolymer: 22 Nm	G1" metal: 35 Nm

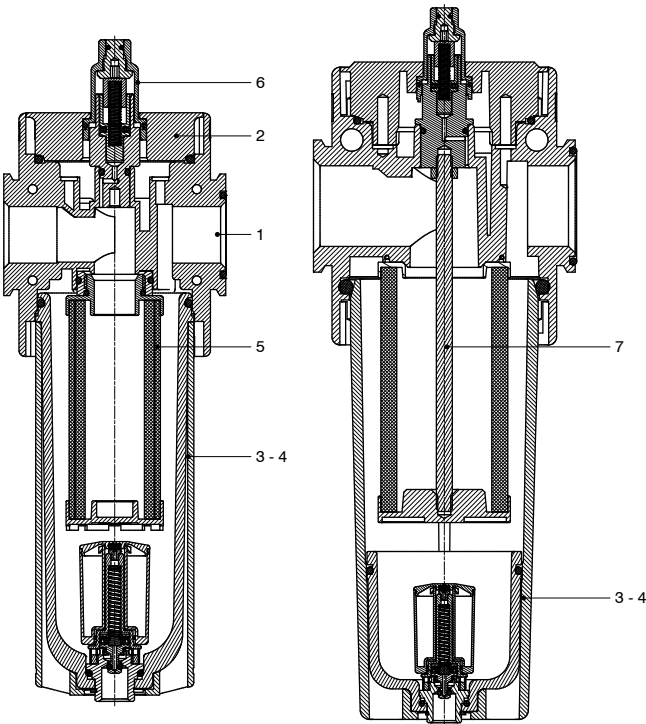
Operational characteristics		
Size	Size 3	Size 4
Condensation drain	Automatic	
Maximum working pressure	10 bar	
Minimum working pressure	0,5 bar	
Working temperature	-5 °C ... +50 °C	

Weights

Size	Size 3 Standard cartridge	Size 3 Oversize cartridge	Size 4
Fully technopolymer version	416 g	634 g	/
Technopolymer body version, aluminium bowl protection and technopolymer bowl	453 g	671 g	/
Technopolymer body version, aluminium bowl	526 g	742 g	/
Aluminium body version, technopolymer protection and bowl	538 g	661 g	1230 g
Aluminium body version, aluminium bowl protection and technopolymer bowl	575 g	698 g	1374 g
Aluminium body version and aluminium bowl	647 g	769 g	1398 g

Materials

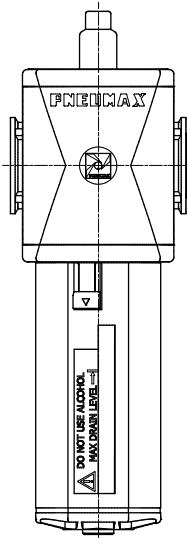
Exploded sectioned



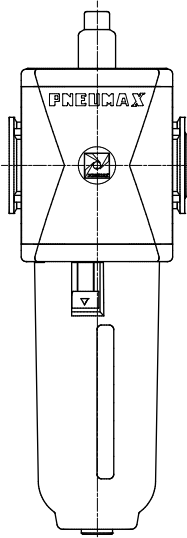
Oil removal filter		
1	Body	Polyamide Die-cast aluminium
2	Upper plug	Polyamide
3	Technopolymer bowl	Polycarbonate Polyamide
4	Metal bowl Bowl protection	Die-cast aluminium Polyamide - Die-cast aluminium
5	Filtering element	/
6	Visual indicator	Polycarbonate
7	Tie rod	Steel (only for size 4)
8	Automatic drain	/

Design

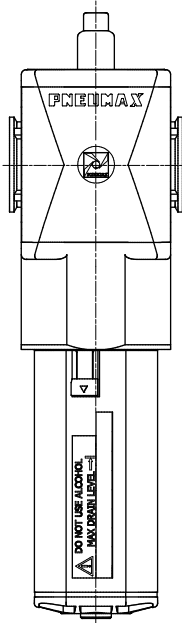
Size 3
Technopolymer protection



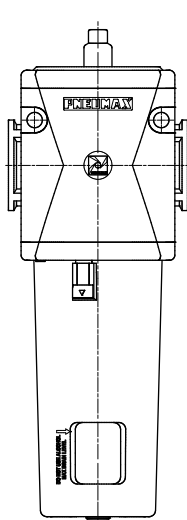
Size 3
Protection / Metal bowl



Size 3 - Oversize cartridge
Technopolymer protection



Size 4
All versions





Order codes

T 17 3BDBV T

Version

N : Technopolymer body and metal inserts (not available for size 4)
T : Technopolymer body and thread (not available for size 4)
P : Aluminium body

Size and connections

3ADBV : Size 3 - G3/8" standard cartridge only for N version
3BDBV : Size 3 - G1/2" standard cartridge for all versions
3CDBV : Size 3 - 1/2" NPT standard cartridge only for N version
3BDCV : Size 3 - G1/2" oversize cartridge only for P version
4BDAV : Size 4 - G1" standard cartridge only for P version

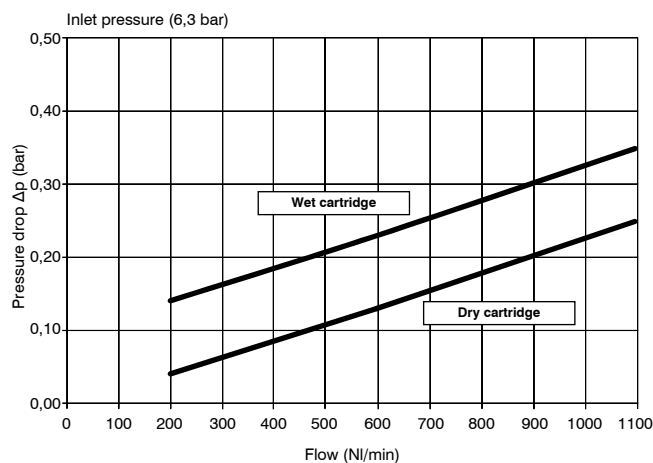
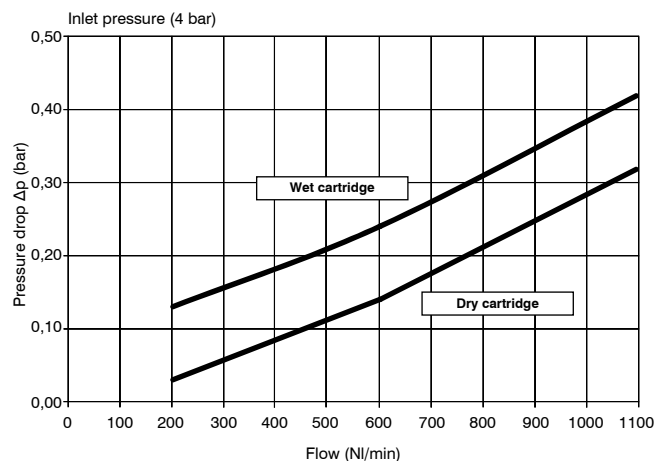
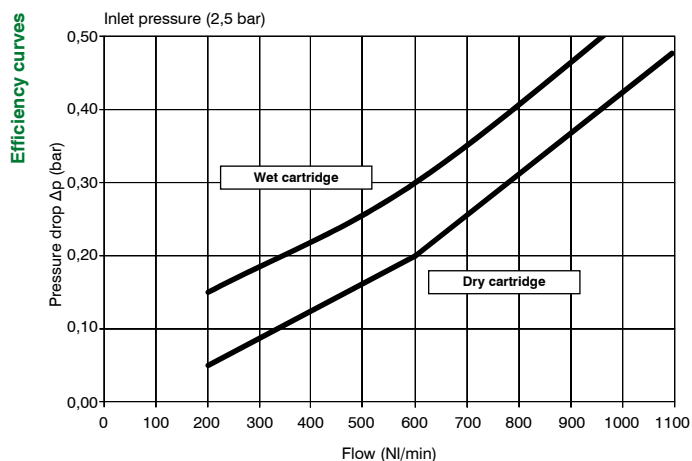
Bowl options

: Technopolymer protection - PC bowl
N : Technopolymer protection - PA bowl
P : Metal protection - PC bowl
R : Metal protection - PA bowl
T : Metal bowl

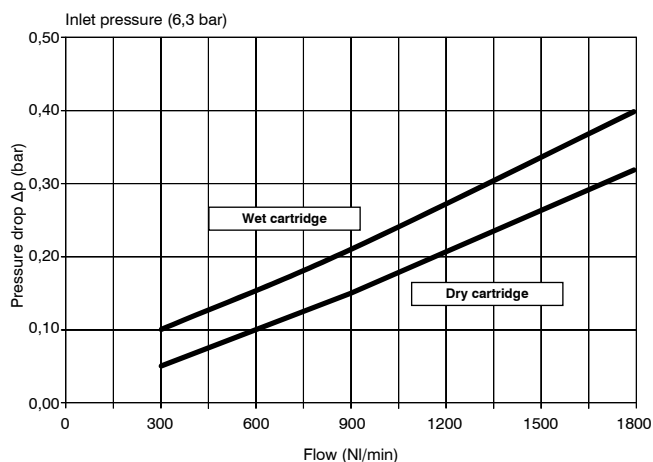
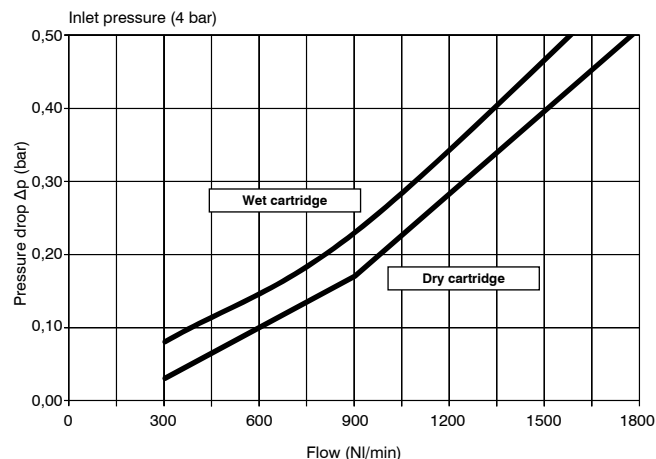
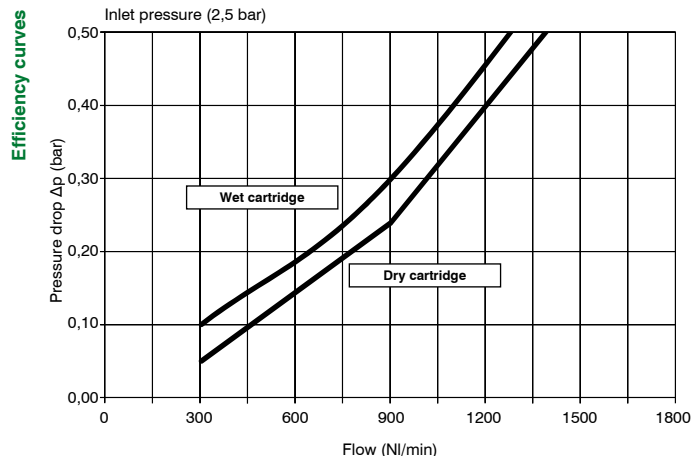
Example : T173BDBVT : Size 3 oil removal filter G1/2", standard cartridge, metal bowl

Characteristic curves

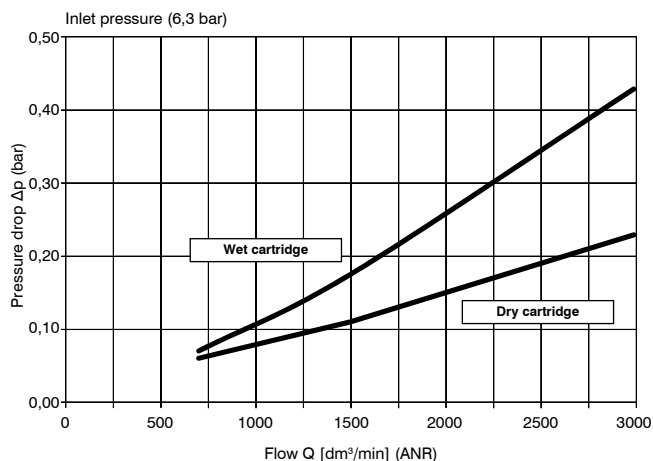
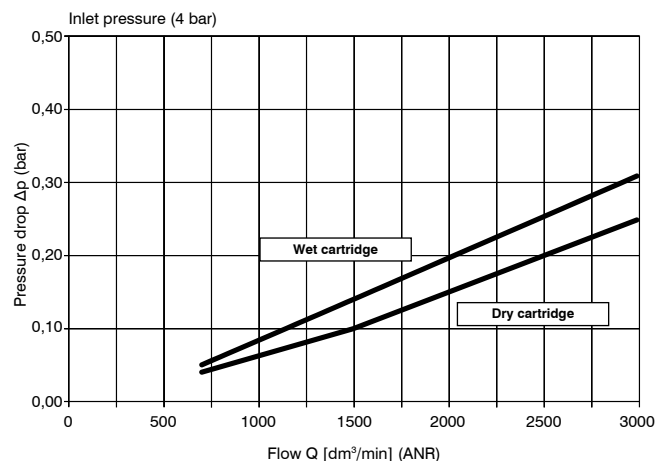
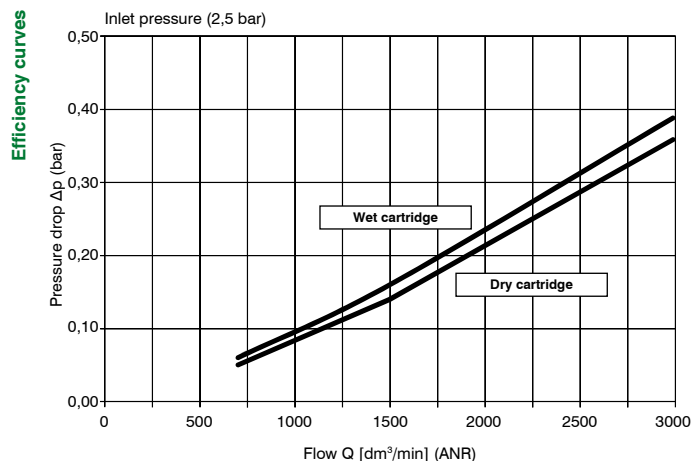
Size 3 - Standard cartridge



Size 3 - Oversize cartridge

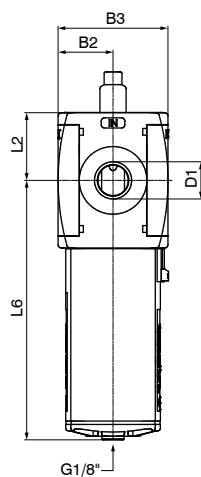
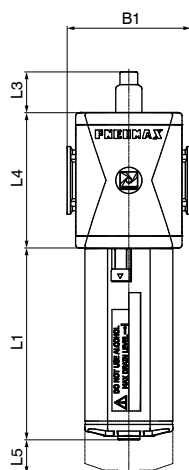


Size 4 - Standard cartridge

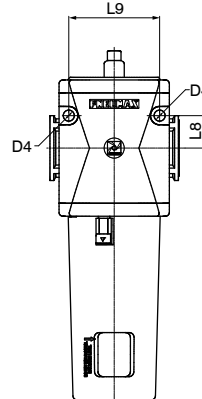




Dimensions



Fixing holes dimension detail
(only for size 4)

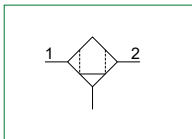


Model	B1	B2	B3	D1		L1 - Bowl material		L3	L4		L5	L8	L9
				Standard cartridge	Oversize cartridge	Technopolymer	Metal		Standard cartridge	Oversize cartridge			
#173..	73	32,5	65	G3/8" G1/2" 1/2" NPT	G1/2"	113,5	116	24,1	80	118	65	/	/
#174..	99	44	88	G1"	/	143	145,5	22,5	105	/	103	25	70

Carbon filters (DD)



- ▶ Carbon filter
- ▶ Available in 2 sizes with connections from 3/8" to 1"
- ▶ Active carbon cartridge with built in particulate filter
- ▶ Used to remove oil vapours, hydrocarbons, odours and particles
- ▶ Oil residue up to <0,003 ppm (max input aerosol 0.01 ppm)
- ▶ High absorption capacity, with low differential pressure
- ▶ Filtering performances 99.97% (particles up to 0.01 µm)
- ▶ Bowl assembly via bayonet type quick coupling mechanism with safety button
- ▶ Semi-automatic drain
- ▶ Atex certification (II 2GD or II 3GD)
- ▶ Inlet pressures up to 20 bar



Note

A 5 µ filter, coalescing filter and oil removing filter must be installed prior to the carbon filter, this is to ensure that the carbon filter operates correctly and safe guard the life of the active carbon element. It may also be necessary to replace the carbon element at fixed intervals.

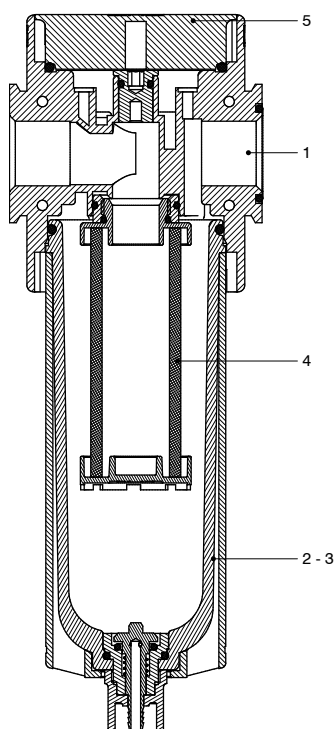
Technical characteristics			
Size		Size 3	Size 4
Body and connections type		Technopolymer body, integrated technopolymer connections (T version) Technopolymer body, metal connections (N version)	/
		Aluminium body, integrated aluminium connections (P - L versions)	
Protection and bowl type		Technopolymer 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	G1/2"	not available
	N version	G3/8" - G1/2" - 1/2" NPT	
	P and L version	G1/2"	G1"
Assembly configuration		Stand alone	Panel mounted
Assembly positions		Vertical ±5°	
Oil residue		< 0,003 ppm (max input aerosol 0.01 ppm)	
Bowl capacity		68 cm³	90 cm³
Condensation drain		Semi-automatic	
Max. fittings torque IN / OUT connections		G3/8" metal: 25 Nm G1/2" metal: 30 Nm G1/2" technopolymer: 22 Nm	G1" metal: 35 Nm

Operational characteristics		
Size	Size 3	Size 4
Condensation drain	Semi-automatic	
Maximum working pressure	13 bar 20 bar (only with body and metal bowl)	
Minimum working pressure	0,5 bar	
Working temperature	-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)	
Cartridge life	2000 ore	

Weights		
	Size	
	Size 3	Size 4
Fully technopolymer version	395 g	/
Technopolymer body version, aluminium bowl protection and technopolymer bowl	432 g	/
Technopolymer body version, aluminium bowl	505 g	/
Aluminium body version, technopolymer protection and bowl	518 g	1201 g
Aluminium body version, aluminium bowl protection and technopolymer bowl	554 g	1344 g
Aluminium body version and aluminium bowl	628 g	1368 g

Materials

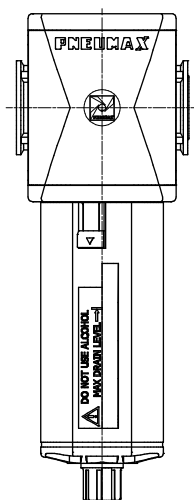
Exploded sectioned



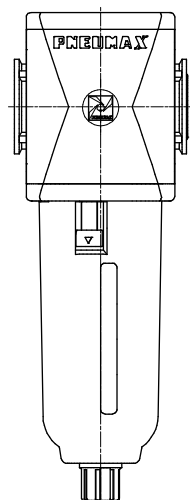
Carbon filter		
1	Body	Polyamide Die-cast aluminium
2	Technopolymer bowl	Polycarbonate Polyamide
3	Metal bowl Bowl protection	Die-cast aluminium Polyamide - Die-cast aluminium
4	Filtering element	Activated carbon
5	Plug	Polyamide Die-cast aluminium

Design

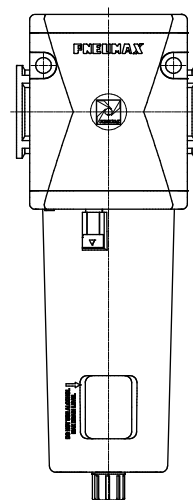
Size 3
Technopolymer protection



Size 3
Protection / Metal bowl



Size 4
All versions





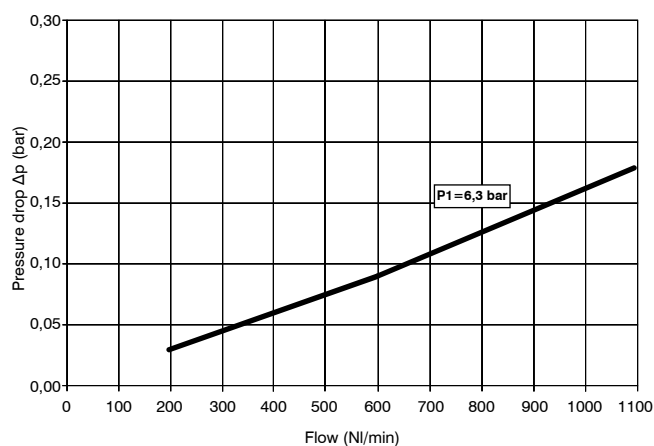
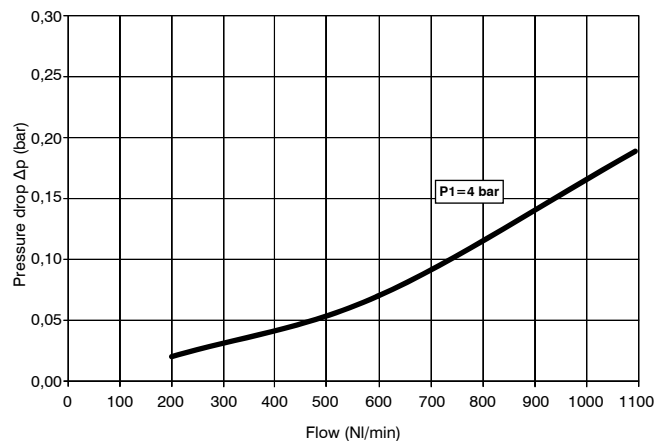
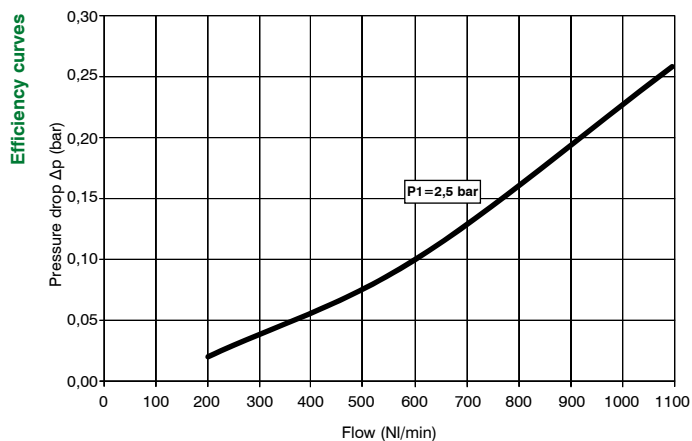
Order codes

	T	17	3B	DD	T
Version					
N : Technopolymer body and metal inserts (not available for size 4)					
T : Technopolymer body and thread (not available for size 4)					
P : Aluminium body					
L : Aluminium body, low temperature					
Size and connections					
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 version					
4B : Size 4 - G1" only for P - L versions					
Bowl options					
: Technopolymer protection - PC bowl					
N : Technopolymer protection - PA bowl					
P : Metal protection - PC bowl					
R : Metal protection - PA bowl					
T : Metal bowl					

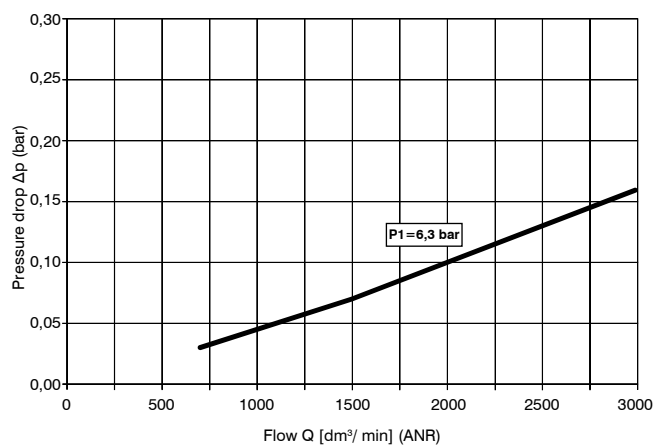
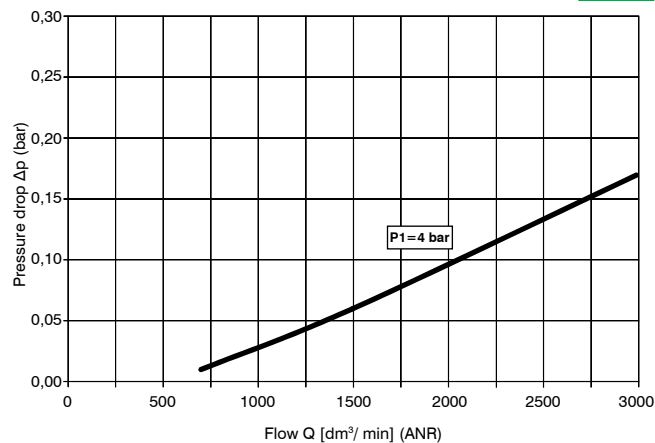
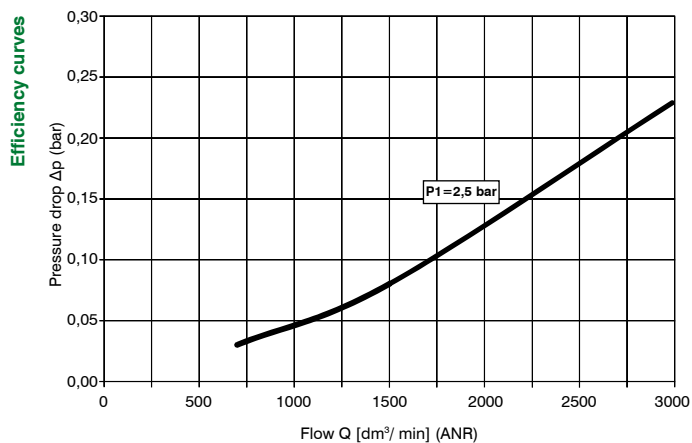
Example : T173BDDT : Size 3 carbon filter G1/2" metal bowl

Characteristic curves

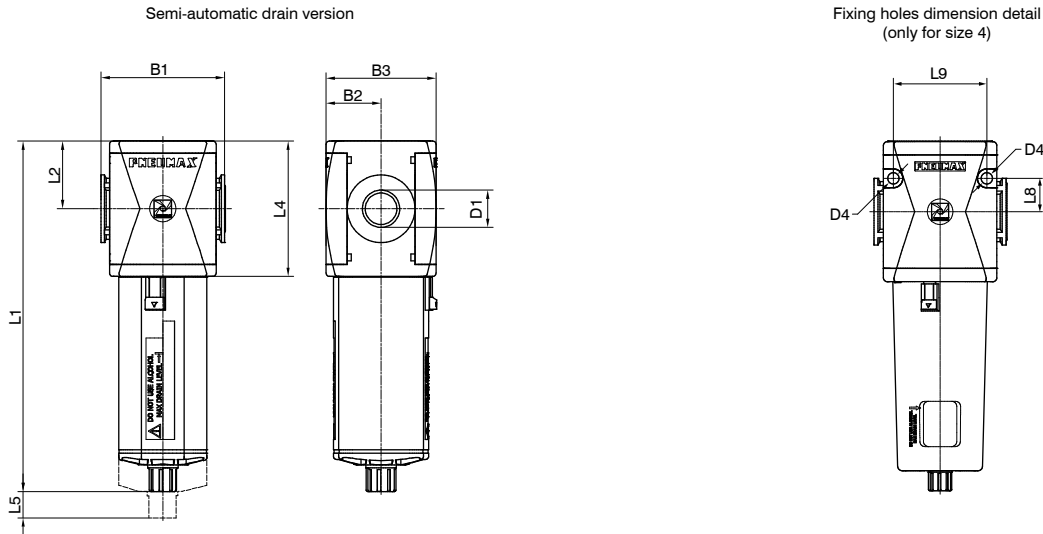
Size 3



Size 4

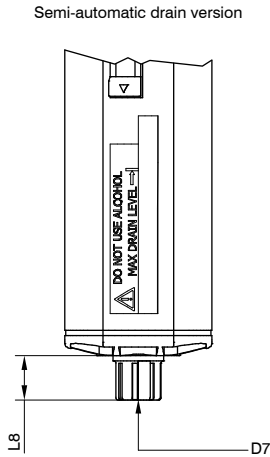


Dimensions



Model	B1	B2	B3	D1	D4	L1 - Bowl material		L2	L4	L5	L8	L9
						Technopolymer	Metal					
#173..	73	32,5	65	G3/8" G1/2" 1/2" NPT	/	207,2	209,5	40	80	65	/	/
#174..	99	44	88	G1" 1" NPT	8,5	262	264,5	52,5	105	103	25	70

Variable dimensions



Model	L8 - Bowl material		D7
	Technopolymer	Metal	
Semi-automatic drain	15,7	18	Plastic hose connector Ø 6