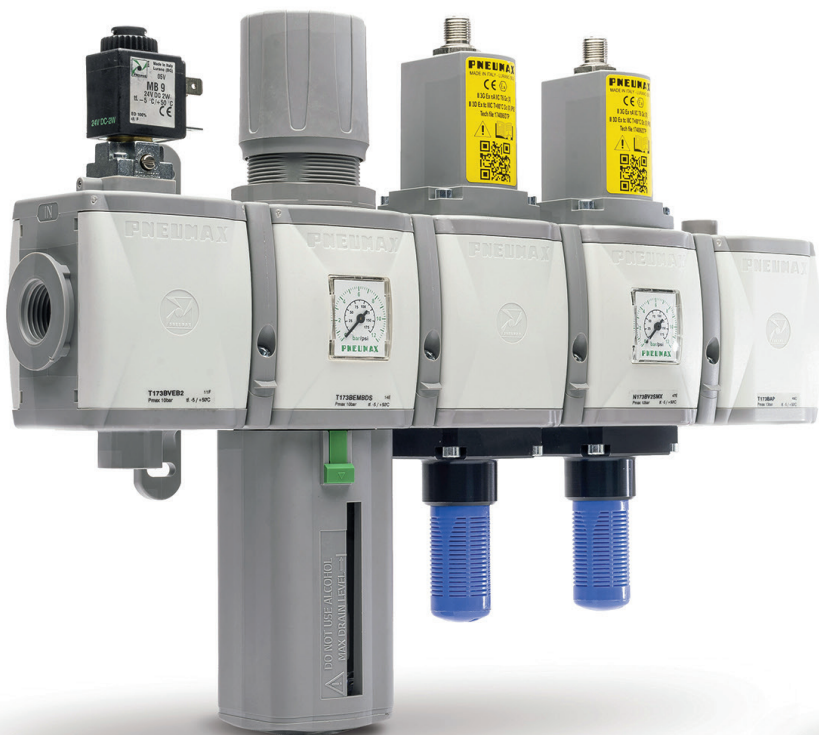




PNEUMAX



SERIES AIRPLUS AIR TREATMENT

SAFETY AND RELIABILITY



Product overview

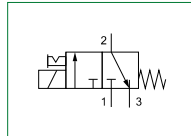
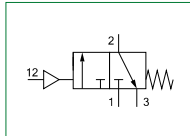
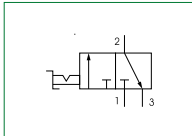
PRODUCT	VERSION	SIZE				MAX. PRESSURE		MIN - MAX AMBIENT TEMPERATURE			ATEX
		Size 1	Size 2	Size 3	Size 4	Technopolymer body or bowl	Metal body and bowl	Technopolymer body or bowl	Metal body and bowl	Automatic drain	
FILTER (F)	T : Technopolymer body and thread	●	●	●		13 bar - 10 bar (automatic drain)	/ 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										
PILOTTED PRESSURE REGULATORS (RP) (RMP) (RPP)	T : Technopolymer body and thread					/ / /	/ 20 bar	/ / /	/ -30 °C ... +80 °C	/ /	●
	N : Technopolymer body and metal inserts										
	P : Aluminum body				●						
	L : Aluminum body, low temperature										
PILOTTED PRESSURE REGULATORS WITH DIGITAL PRESSURE SWITCH (RPP) (RPZ)	T : Technopolymer body and thread					/ / /	/ 20 bar	/ / /	/ 0 °C ... +50 °C	/ /	
	N : Technopolymer body and metal inserts										
	P : Aluminum body				●						
	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					/		/			

► Shut off valves (VL - VP - VE)



- 3/2 N.C. shut off valve
- Suitable for system downstream pneumatic feeding or exhaust
- Manual, pneumatic and electropneumatic operation available
- Up to 3off manual operation lockable device available (closed position)
- Atex certification (II 2GD or II 3GD)



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 version)		
Operated type		Manual Pneumatic Electropneumatic			
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"
Pilot connection		G1/8"			
Exhaust connection		G1/4"	G3/8"	G1/2"	
Assembly configuration		Stand alone			
		/			Panel mounted
Assembly positions		Indifferent			
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	G1/2"metal: 30 Nm G1" metal: 35 Nm

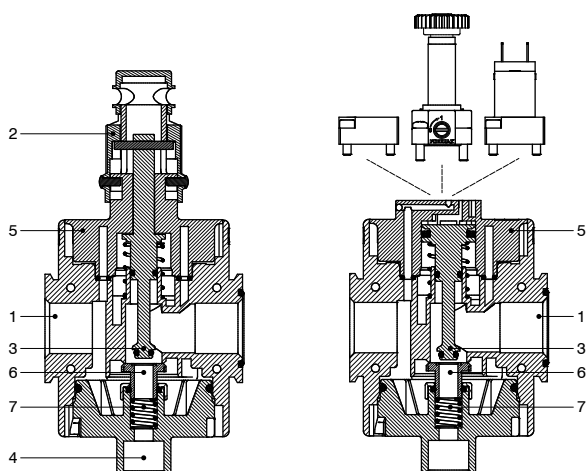
Operational characteristics								
Size	Size 1	Size 2	Size 3	Size 4	Size 1	Size 2	Size 3	Size 4
Operator	Manual				Pneumatic / Solenoid			
Maximum working pressure	13 bar			10 bar	10 bar			
Minimum working pressure	0,5 bar				2,5 bar			
Working temperature	-5 °C ... +50 °C				-5 °C ... +50 °C			
	/	30°C ... +80°C (only for P version) -40 °C ... +80 °C (only for L version)			/	-30 °C ... +80 °C (only with metal body and pneumatic version) -40 °C ... +80 °C (only with metal body and pneumatic version)		
Nominal flow rate at 6 bar with $\Delta p=1$ (from 1 to 2)	1400 NI/min	2200 NI/min	3600 NI/min	15000 NI/min	1400 NI/min	2200 NI/min	3600 NI/min	15000 NI/min
Exhaust nominal flow rate at 6 bar with $\Delta p=1$ (from 2 to 3)	550 NI/min	1500 NI/min		3600 NI/min	550 NI/min	1500 NI/min		3600 NI/min
Un-conveyed exhaust nominal flow rate (from 2 to 3)	1000 NI/min	2500 NI/min		5000 NI/min	1000 NI/min	2500 NI/min		5000 NI/min

Weights								
Size	Size 1				Size 2			
Operator	Manual	Pneumatic	Solenoid M2 actuator	Solenoid 15 mm coil	Manual	Pneumatic	Solenoid M2 actuator	Solenoid 15 mm coil
Technopolymer body version	110 g	99 g	140 g	140 g	190 g	181 g	210 g	216 g
Aluminium body version	/	/	/	/	270 g	265 g	298 g	301 g

Size	Size 3				Size 4			
Operator	Manual	Pneumatic	Solenoid M2 actuator	Solenoid 15 mm coil	Manual	Pneumatic	Solenoid M2 actuator	Solenoid 15 mm coil
Technopolymer body version	250 g	270 g	310 g	310 g	/	/	/	/
Aluminium body version	400 g	398 g	429 g	432 g	1100 g	1135 g	1170 g	1180 g

Materials

Exploded sectioned



Shut off valve		
1	Body	Polyamide Die-cast aluminium
2	Manual override	Polyamide
3	Drive pin Piston	Aluminium
4	Exhaust plug	Polyamide
5	Central support	Polyamide
6	Spool	Brass + NBR
7	Repositioning spring	Steel

Design

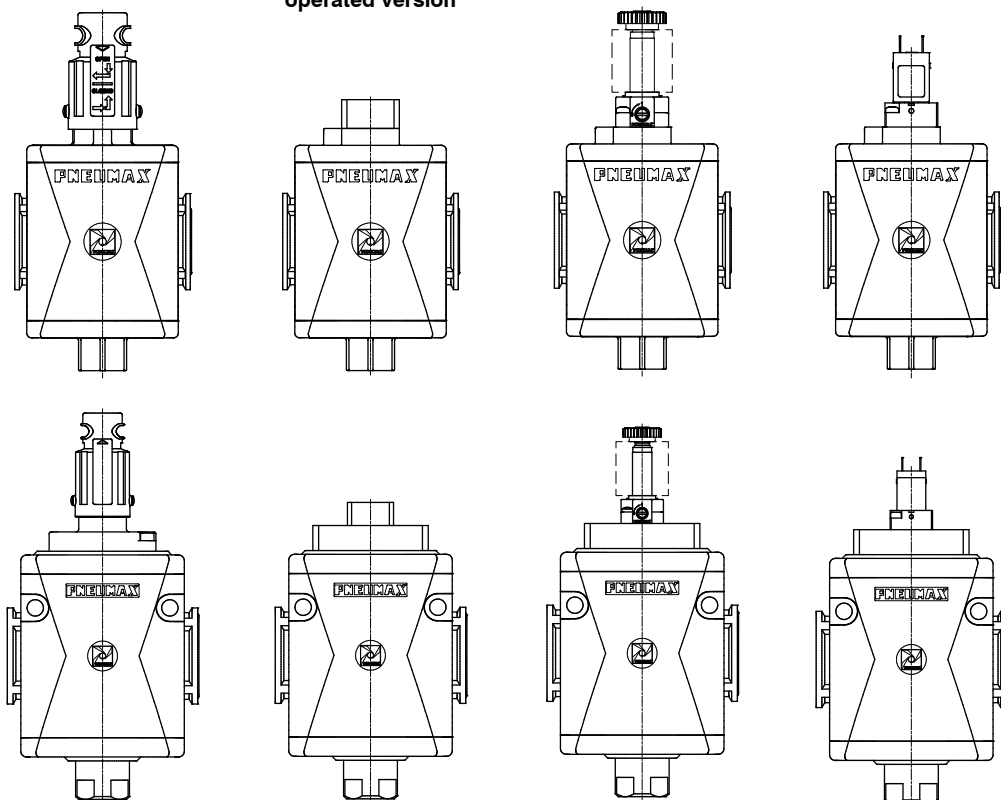
Manual operated version

Pneumatic
operated version

Solenoid operated version

Size 1 - Size 2
Size 3

Size 4





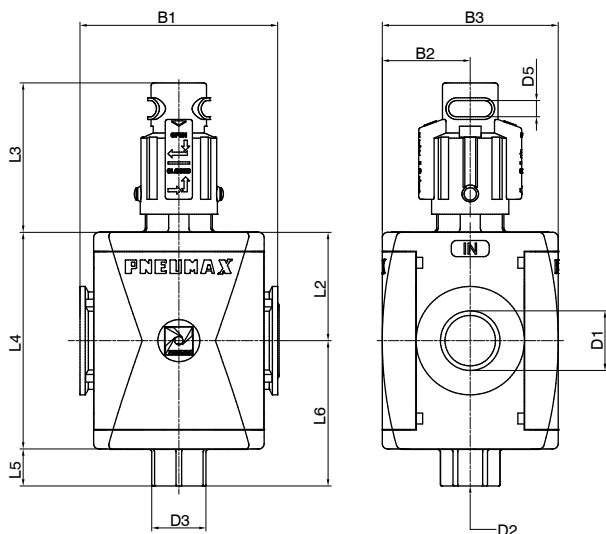
Order codes

	T	17	3B	V	E	A5
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 : Aluminium body, low temperature (not available for solenoid version)						
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						
Operator						
L : Manual						
P : Pneumatic						
E : Solenoid						
Coil options						
15 mm coil						
A4 : 12 VDC						
A5 : 24 VDC						
A6 : 24 VAC (50-60 Hz)						
A7 : 110 VAC (50-60 Hz)						
A8 : 230 VAC (50-60 Hz)						
A9 : 24 VDC (1 Watt)						
22 mm coil						
B2 : Mechanical M2, without coil						
B4 : 12 VDC						
B5 : 24 VDC						
B6 : 24 VAC (50-60 Hz)						
B7 : 110 VAC (50-60 Hz)						
B8 : 230 VAC (50-60 Hz)						
B9 : 24 VDC (2 Watt) (Atex certification not available)						
30 mm coil						
C5 : 24 VDC						
C6 : 24 VAC (50-60 Hz)						
C7 : 110 VAC (50-60 Hz)						
C8 : 230 VAC (50-60 Hz)						
C9 : 24 VDC (2 Watt) (Atex certification not available)						

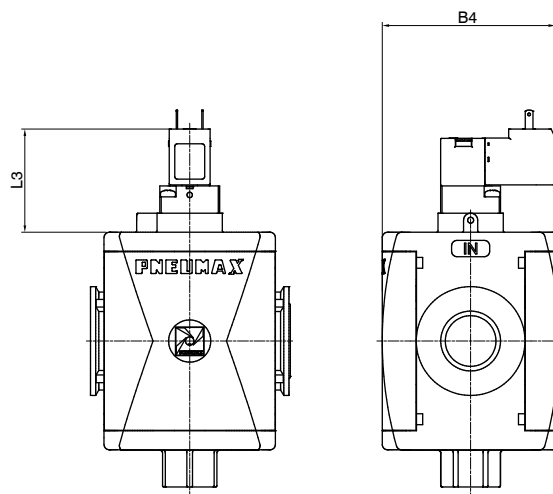
Example : T173BVEA5 : Size 3 electric shut off valve G1/2", 15 mm coil, 24 VDC

Dimensions

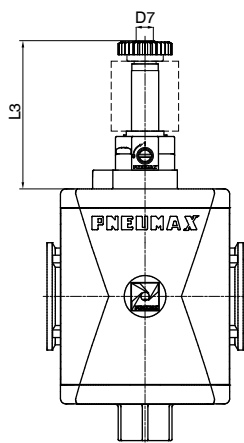
Manual operated version



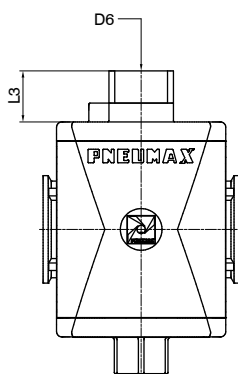
Solenoid operated version (15 mm coil)



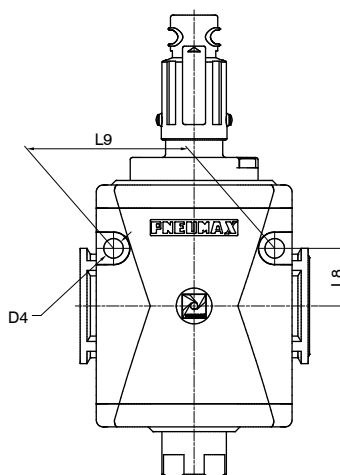
Solenoid operated version
(22 / 30 mm coil)



Pneumatic operated version



Fixing holes dimension detail
(only for size 4)



Model	B1	B2	B3	B4	D1	D2	D3	D4	D5	D6	D7	L2	L3				L4	L5	L6	L8	L9
													Manual	Pneumatic	Solenoid coil 22 or 30 mm	Solenoid 15 mm coil					
#171..	48	21	42	52	G1/8" G1/4" 1/4" NPT	G1/4"	Ch.17	/	6	G1/8"	M5	27,5	55	19	57	37,5	55	11	38,5	/	/
#172..	62	28,5	57	59,6	G1/4" G3/8" 3/8" NPT	G3/8"	Ch.20	/	6	G1/8"	M5	34	54,2	22	60	40,3	68	14	48	/	/
#173..	73	32,5	65	63,6	G3/8" G1/2" 1/2" NPT	G3/8"	Ch.20	/	6	G1/8"	M5	40	55	19	57	37,4	80	14	54	/	/
#174..	99	44	88	75	G1"	G1/2"	Ch.25	8,5	6	G1/8"	M5	52,5	71,5	27	67	45,5	105	22	74,5	25	70