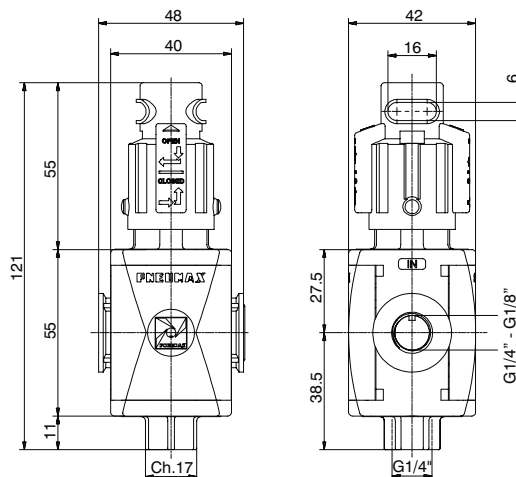


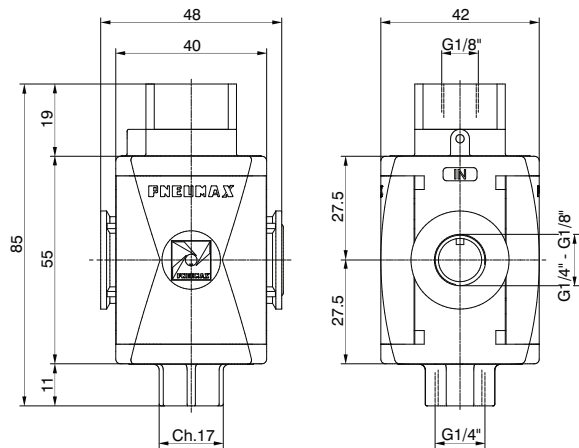
## Shut-off valve (VL)



Example: T171BVL : size 1, Shut-off valve with Technopolymer threads, G1/4" connections

Operational characteristics	Technical characteristics		
<ul style="list-style-type: none"> <li>- Manual operated 3 ways poppet valve.</li> <li>- Double handle action for valve opening: pushing and rotating (clockwise).</li> <li>- The valve can be closed and the down stream circuit depressurized by rotating anticlockwise the knob.</li> <li>- Knob lockable with three padlocks.</li> </ul>	Connections	G 1/8" - G 1/4"	Ordering code
	Max. inlet pressure	13 bar	<b>V171CVL</b>
	Discharge connection	G1/4"	
	Working temperature	-5°C +50°C	VERSION
	Weight with Technopolymer threads	gr. 100	<b>V</b> N = Metal inserts T = Technopolymer thread
	Weight with threaded inserts	gr. 110	CONNECTIONS
	Assembly positions	Indifferent	<b>C</b> A = G1/8" (only for "N" version) B = G1/4" C = 1/4 NPT (only for "N" version)
	Handle opening and closing angle	90°	
	Max. fitting torque (with Technopolymer threads)	G1/4" = 9 Nm	
	Max. fitting torque (with threaded inserts)	G1/8" = 15 Nm G1/4" = 20 Nm	
	Nominal flow rate at 6 bar with $\Delta p=1$	1400 NI/min.	
	Exhaust nominal flow rate at 6 bar with $\Delta p=1$	550 NI/min.	

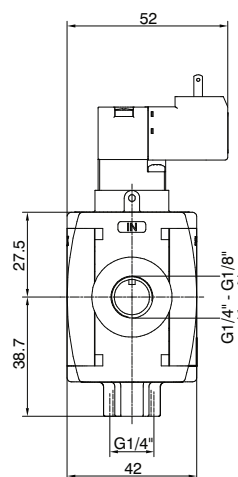
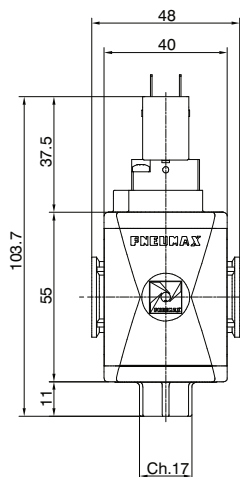
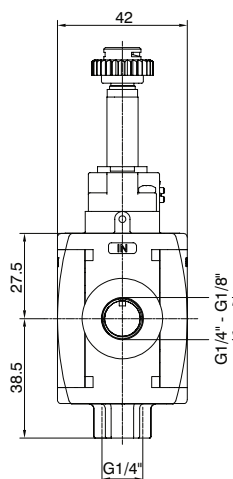
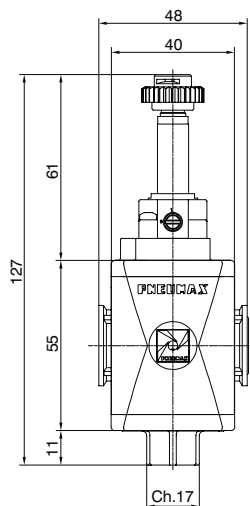
Pneumatic shut-off valve (VP)



Example: T171BVP : size 1, Pneumatic shut-off valve with Technopolymer threads, G1/4" connections

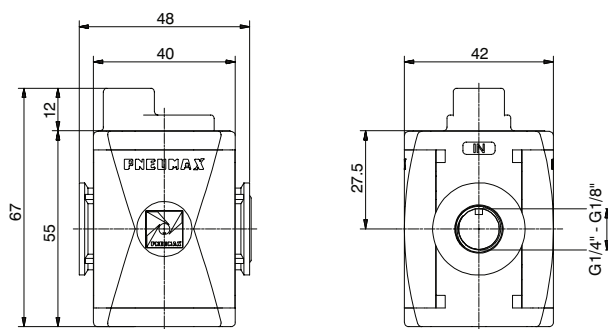
Operational characteristics	Technical characteristics		
<div>- Pneumatic operated 3 ways poppet valve.</div> <div>- When the pneumatic signal is removed the valves exhaust the pneumatic circuit</div>	Connections	G 1/8" - G 1/4"	Ordering code
	Discharge connection	G1/4"	V171CVP
	Pilot port size	G1/8"	
	Working temperature	-5°C +50°C	VERSION
	Weight with technopolymer threads	gr. 94	
	Weight with threaded inserts	gr. 99	N = Metal inserts T = Technopolymer thread
	Assembly positions	Indifferent	
	Min. pressure working	3 bar	CONNECTIONS
	Max. pressure working	10 bar	
	Max. fitting torque (with Technopolymer threads)	G1/4" = 9 Nm	A = G1/8" (only for "N" version) B = G1/4" C = 1/4 NPT (only for "N" version)
	Max. fitting torque (with threaded inserts)	G1/8" = 15 Nm G1/4" = 20 Nm	
	Nominal flow rate at 6 bar with Δp=1	1400 NI/min.	
	Exhaust nominal flow rate at 6 bar with Δp=1	550 NI/min.	

Electric shut-off valve (VE)



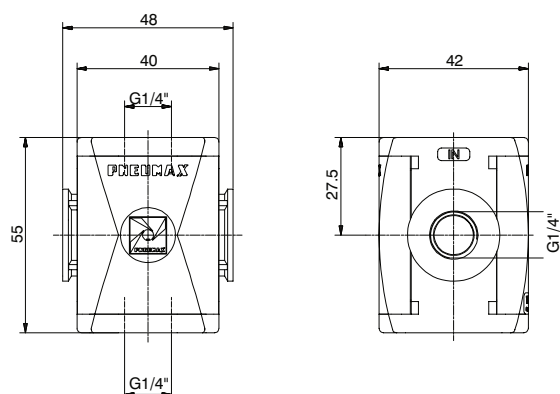
Example : T171BVEB2 : size 1, Electric shut-off valve, with M2 pilot without coil, Technopolymer threads, G1/4" connections

Operational characteristics	Technical characteristics		Ordering code
<ul style="list-style-type: none"> <li>- Solenoid operated 3 ways poppet valve.</li> <li>- The model fitted with 15 mm pilots uses pilots series N33_0A and N33_0E (1 Watt)</li> </ul>	Supply and operating connections	G 1/8" - G 1/4"	<b>V171CVEA</b>
	Discharge connections	G 1/4"	
	Working temperature	-5°C +50°C	<b>VERSION</b> <b>N</b> = Metal inserts <b>T</b> = Technopolymer thread
	Weight with Technopolymer threads	130 g	
	Weight with threaded inserts	140 g	<b>CONNECTIONS</b> <b>A</b> = G1/8" (only for "N" version) <b>B</b> = G1/4" <b>C</b> = 1/4 NPT (only for "N" version)
	Assembly positions	Indifferent	
	Min. Pressure working	3 bar	<b>15 mm COIL VOLTAGE</b> <b>A4</b> = 12 V DC <b>A5</b> = 24 V DC <b>A6</b> = 24 V AC (50-60 Hz) <b>A7</b> = 110 V AC (50-60 Hz) <b>A8</b> = 220 V AC (50-60 Hz) <b>A9</b> = 24 V DC (1 Watt)
	Max. Pressure working	10 bar	
	Max. fitting torque (with Technopolymer threads)	G1/4" = 9 Nm	<b>22 mm COIL VOLTAGE</b> <b>B2</b> = Without coil <b>M2</b> mechanic <b>A</b>
	Max. fitting torque (with threaded inserts)	G1/8" = 15 Nm G1/4" = 20 Nm	
	Nominal flow rate at 6 bar with $\Delta p=1$	1400 NI/min.	<b>30 mm COIL VOLTAGE</b> <b>C5</b> = 24 V DC <b>C6</b> = 24 V AC (50-60 Hz) <b>C7</b> = 110 V AC (50-60 Hz) <b>C8</b> = 230 V AC (50-60 Hz) <b>C9</b> = 24 V DC (2 Watt)
	Exhaust nominal flow rate at 6 bar with $\Delta p=1$	550 NI/min.	

**Progressive start-up valve (AP)**

Example : T171BAP : size 1, Progressive start-up valve with Technopolymer threads, G1/4" connections

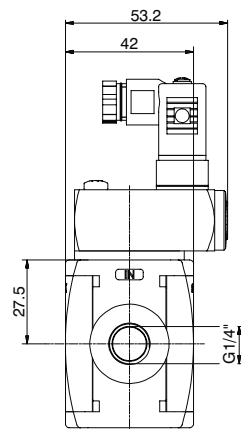
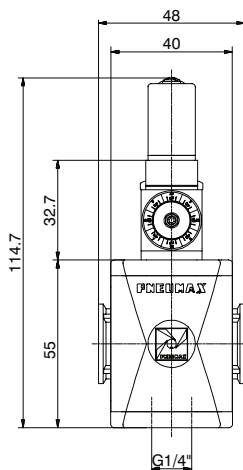
Operational characteristics	Technical characteristics		
<ul style="list-style-type: none"> <li>- Down stream circuit filling time regulated via a built in flow regulator.</li> <li>- Full pressure is allowed once the down stream circuit pressure reaches 50% of the inlet pressure.</li> </ul>	Connections	G 1/8" - G 1/4"	Ordering code
	Max. inlet pressure	13 bar	
	Working temperature	-5°C +50°C	<b>V171CAP</b> VERSION N = Metal inserts T = Technopolymer thread
	Weight with Technopolymer threads	gr. 70	
	Weight with threaded inserts	gr. 80	CONNECTIONS A = G1/8" (only for "N" version) B = G1/4" C = 1/4 NPT (only for "N" version)
	Max. fitting torque (with Technopolymer threads)	G1/4" = 9 Nm	
	Max. fitting torque (with threaded inserts)	G1/8" = 15 Nm G1/4" = 20 Nm	
	Assembly positions	Indifferent	
	Min. pressure working	2,5 bar	
	Nominal flow rate at 6 bar with $\Delta p=1$	1400 NI/min.	
	Fully open built in flow regulator flow rate	75 NI/min.	

**Air intake (PA)**

Example : T171BPA : size 1, Air intake with Technopolymer threads, G1/4" connections

Operational characteristics	Technical characteristics		
<ul style="list-style-type: none"> <li>- Available with two G1/4" threaded connections.</li> </ul> <b>Attention</b> For this product are available only Technopolymer connections	Connections	G 1/4"	Ordering code
	Max. inlet pressure	13 bar	
	Working temperature	-5°C +50°C	<b>T171BPA</b>
	Weight	gr. 52	
	Assembly positions	Indifferent	
	Max. fitting torque (with Technopolymer threads)	G1/4" = 9 Nm	

### Pressure switch (PP)



Example: T171BPP : Size 1, Pressure switch with Technopolymer threads, G1/4" connections

#### Operational characteristics

- Built in adjustable pressure switch (2 to 10 bar) with electrical connection.
- G1/4" threaded connection on the bottom face.
- The electrical connection is made by mean of a 15 mm connector DIN 43650 type C. The microswitch contact could be normally closed or open (change overswitch).

#### Attention

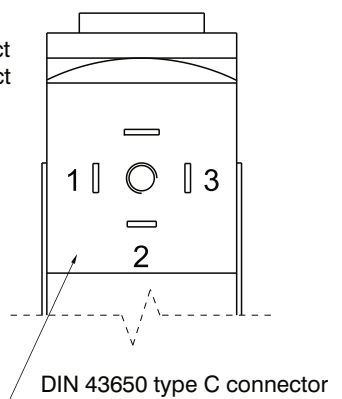
For this product are available only Technopolymer connections

#### Technical characteristics

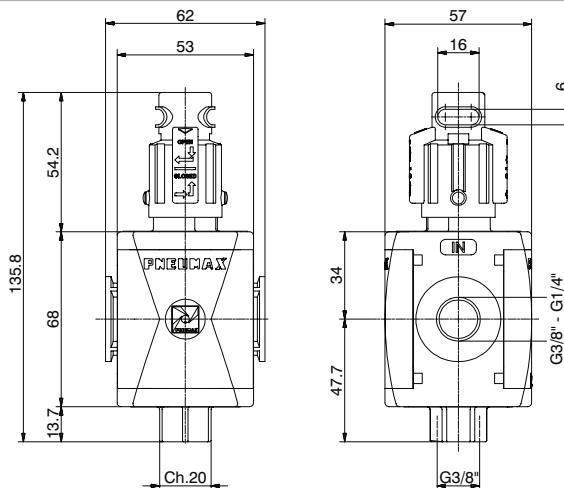
Connections	G 1/4"	Ordering code
Max. inlet pressure	13 bar	<b>T171BPP</b>
Working temperature	-5°C +50°C	
Weight	gr. 138	
Microswitch capacity	1A	
Grade of protection (with connector assembled)	IP 65	
Adjusting range	2 -10 bar	
Assembly positions	Indifferent	
Max. fitting torque (with Technopolymer threads)	G1/4" = 9 Nm	
Microswitch maximum tension	250 VAC	

Connection

- 1 = neutral
- 2 = N.C. contact
- 3 = N.O. contact



### Shut-off valve (VL)



Example: T172BVL : size 2, Shut-off valve with Technopolymer threads, G3/8" connections

#### Operational characteristics

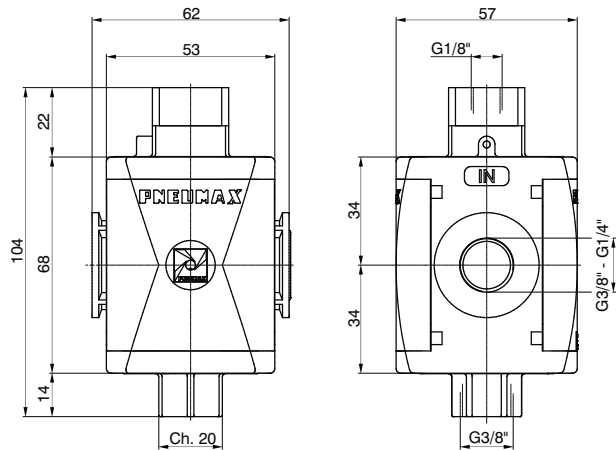
- Manual operated 3 ways poppet valve.
- Double handle action for valve opening: pushing and rotating (clockwise).
- The valve can be closed and the down stream circuit depressurized by rotating anticlockwise the knob.
- Knob lockable with three padlocks.

#### Technical characteristics

Connections	G 1/4" - G 3/8"	Ordering code
Max. inlet pressure	13 bar	
Discharge connection	G3/8"	<b>V172CVL</b> <b>VERSION</b> <b>N</b> = Metal inserts <b>T</b> = Technopolymer thread
Working temperature	-5°C ÷ +50°C	
Weight with Technopolymer threads	gr. 180	<b>CONNECTIONS</b> <b>A</b> = G1/4" (only for "N" version) <b>B</b> = G3/8" <b>C</b> = 3/8 NPT (only for "N" version)
Weight with threaded inserts	gr. 190	
Assembly positions	Indifferent	
Handle opening and closing angle	90°	
Max. fitting torque (with Technopolymer threads)	G3/8" = 16 Nm	
Max. fitting torque (with threaded inserts)	G1/4" = 20 Nm G3/8" = 25 Nm	
Nominal flow rate at 6 bar with $\Delta p=1$	2200 NI/min.	
Exhaust nominal flow rate at 6 bar with $\Delta p=1$	1500 NI/min.	



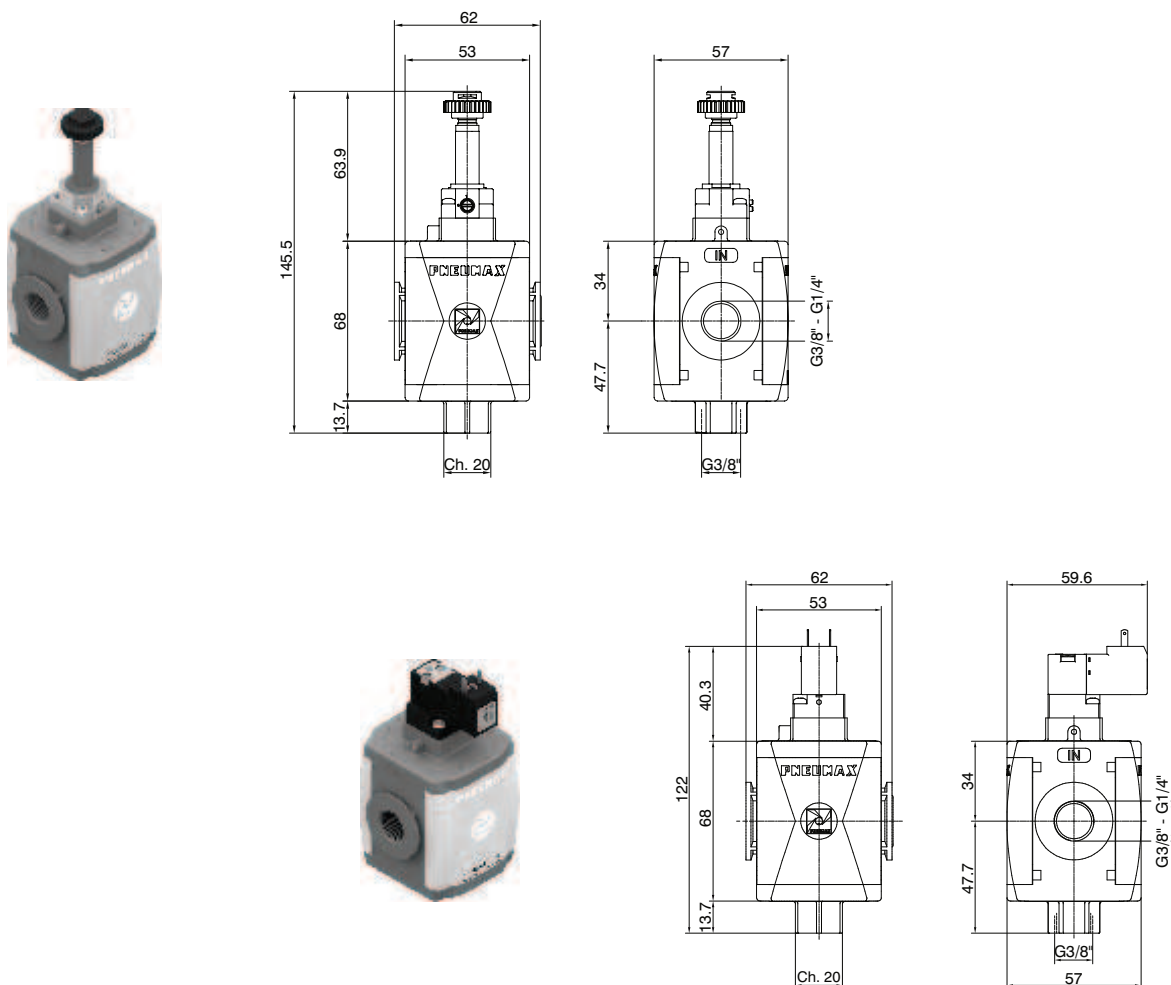
Pneumatic shut-off valve (VP)



Example: T172BVP : size 2, Pneumatic shut-off valve with Technopolymer threads, G3/8" connections

Operational characteristics	Technical characteristics		
<div>- Pneumatic operated 3 ways poppet valve.</div> <div>- When the pneumatic signal is removed the valves exhaust the pneumatic circuit</div>	Connections	G 1/4" - G 3/8"	Ordering code
	Discharge connection	G3/8"	<div>V172CVP</div> <div>VERSION</div> <div>N = Metal inserts</div> <div>T = Technopolymer thread</div> <div>CONNECTIONS</div> <div>A = G1/4"(only for "N" version)</div> <div>B = G3/8"</div> <div>C = 3/8 NPT(only for "N" version)</div>
	Pilot port size	G1/8"	
	Working temperature	-5°C +50°C	
	Weight with technopolymer threads	gr. 173	
	Weight with threaded inserts	gr. 181	
	Assembly positions	Indifferent	
	Min. pressure working	2,5 bar	
	Max. pressure working	10 bar	
	Max. fitting torque (with Technopolymer threads)	G3/8" = 16 Nm	
	Max. fitting torque (with threaded inserts)	G1/4" = 20 Nm G3/8" = 25 Nm	
	Nominal flow rate at 6 bar with Δp=1	2200 NI/min.	
	Exhaust nominal flow rate at 6 bar with Δp=1	1500 NI/min.	

# Electric shut-off valve (VE)

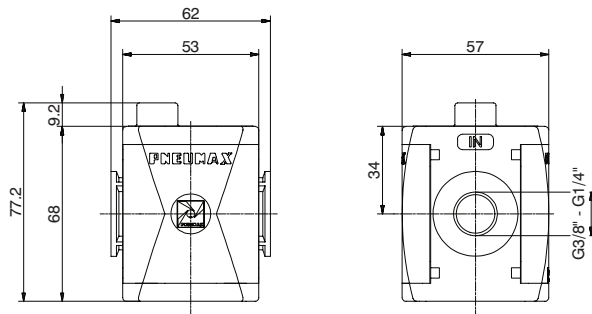


Example : T172BVEB2 : size 2, Electric shut-off valve, with M2 Pilot without coil, Technopolymer threads, G3/8" connections

Operational characteristics	Technical characteristics		Ordering code
<ul style="list-style-type: none"> <li>- Solenoid operated 3 ways poppet valve.</li> <li>- The model fitted with 15 mm pilots uses pilots series N33_0A and N33_0E (1 Watt)</li> </ul>	Supply and operating connections	G 1/4" - G 3/8"	<b>V172CVEA</b>
	Discharge connections	G 3/8"	
	Working temperature	-5°C +50°C	<b>VERSION</b> <b>N</b> = Metal inserts <b>T</b> = Technopolymer thread
	Weight with Technopolymer threads	200 g	
	Weight with threaded inserts	210 g	<b>CONNECTIONS</b> <b>A</b> = G1/4" (only for "N" version) <b>B</b> = G3/8" <b>C</b> = 3/8 NPT (only for "N" version)
	Assembly positions	Indifferent	
	Min. Pressure working	2,5 bar	<b>15 mm COIL VOLTAGE</b> <b>A4</b> = 12 V DC <b>A5</b> = 24 V DC <b>A6</b> = 24 V AC (50-60 Hz) <b>A7</b> = 110 V AC (50-60 Hz) <b>A8</b> = 220 V AC (50-60 Hz) <b>A9</b> = 24 V DC (1 Watt)
	Max. Pressure working	10 bar	
	Max. fitting torque (with Technopolymer threads)	G3/8" = 16 Nm	<b>22 mm COIL VOLTAGE</b> <b>B2</b> = Without coil <b>M2</b> mechanic <b>B4</b> = 12 V DC <b>B5</b> = 24 V DC <b>B6</b> = 24 V AC (50-60 Hz) <b>B7</b> = 110 V AC (50-60 Hz) <b>B8</b> = 220 V AC (50-60 Hz) <b>B9</b> = 24 V DC (2 Watt)
	Max. fitting torque (with threaded inserts)	G1/4" = 20 Nm G3/8" = 25 Nm	
	Nominal flow rate at 6 bar with $\Delta p=1$	2200 NI/min.	<b>30 mm COIL VOLTAGE</b> <b>C5</b> = 24 V DC <b>C6</b> = 24 V AC (50-60 Hz) <b>C7</b> = 110 V AC (50-60 Hz) <b>C8</b> = 230 V AC (50-60 Hz) <b>C9</b> = 24 V DC (2 Watt)
	Exhaust nominal flow rate at 6 bar with $\Delta p=1$	1500 NI/min.	



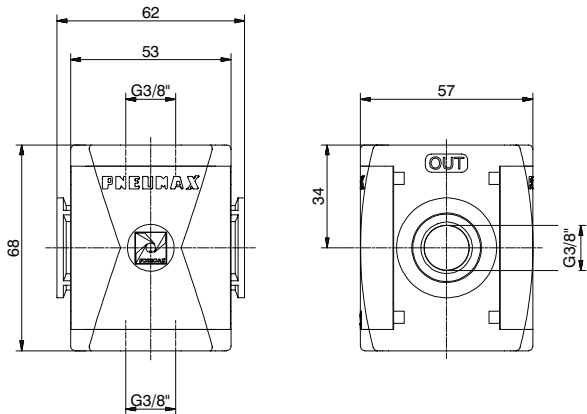
Progressive start-up valve (AP)



Example : T172BAP : size 2, Progressive start-up valve with Technopolymer threads, G3/8" connections

Operational characteristics	Technical characteristics		
<ul style="list-style-type: none"><li>- Down stream circuit filling time regulated via a built in flow regulator.</li><li>- Full pressure is allowed once the down stream circuit pressure reaches 50% of the inlet pressure.</li></ul>	Connections	G 1/4" - G 3/8"	Ordering code
	Max. inlet pressure	13 bar	<b>V172CAP</b>
	Working temperature	-5°C +50°C	VERSION
	Weight with Technopolymer threads	gr. 140	✓ N = Metal inserts
	Weight with threaded inserts	gr. 150	T = Technopolymer thread
	Max. fitting torque	G3/8" = 16 Nm	CONNECTIONS
	(with Technopolymer threads)		✓ A = G1/4" (only for "N" version)
	Max. fitting torque	G1/4" = 20 Nm	B = G3/8"
	(with threaded inserts)	G3/8" = 25 Nm	C = 3/8 NPT (only for "N" version)
	Assembly positions	Indifferent	
	Min. pressure working	2,5 bar	
	Nominal flow rate	2200 NI/min.	
	Fully open built in flow regulator flow rate	200 NI/min.	

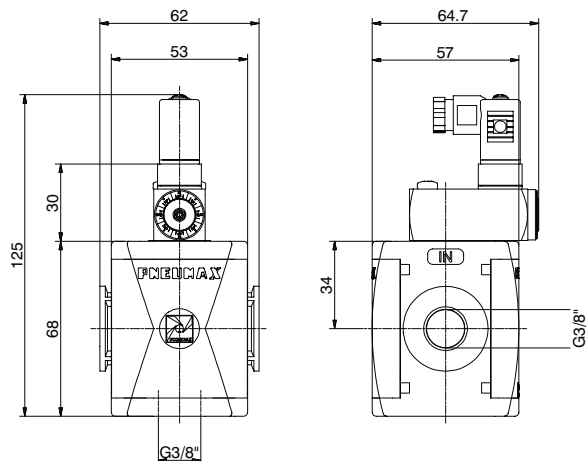
Air intake (PA)



Example : T172BPA : size 2, Air intake with Technopolymer threads, G3/8" connections

Operational characteristics	Technical characteristics		
<div>- Available with two G3/8" threaded connections.</div> <div><b>Attention</b> For this product are available only Technopolymer connections</div>	Connections	G 3/8"	Ordering code
	Max. inlet pressure	13 bar	
	Working temperature	-5°C +50°C	<b>T172BPA</b>
	Weight	gr. 95,5	
	Assembly positions	Indifferent	
	Max. fitting torque	G3/8" = 16 Nm	
	(with Technopolymer threads)		

### Pressure switch (PP)



Example: T172BPP : Size 2, Pressure switch with Technopolymer threads, G3/8" connections

#### Operational characteristics

- Built in adjustable pressure switch (2 to 10 bar) with electrical connection.
- G 3/8" threaded connection on the bottom face.
- The electrical connection is made by mean of a 15 mm connector DIN 43650 type C. The microswitch contact could be normally closed or open (change overswitch).

#### Attention

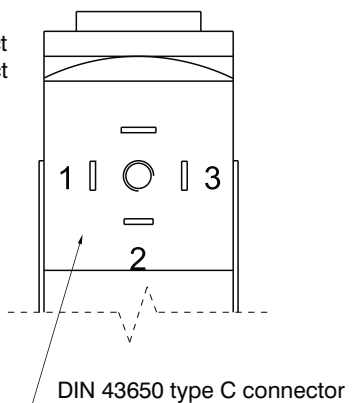
For this product are available only Technopolymer connections

#### Technical characteristics

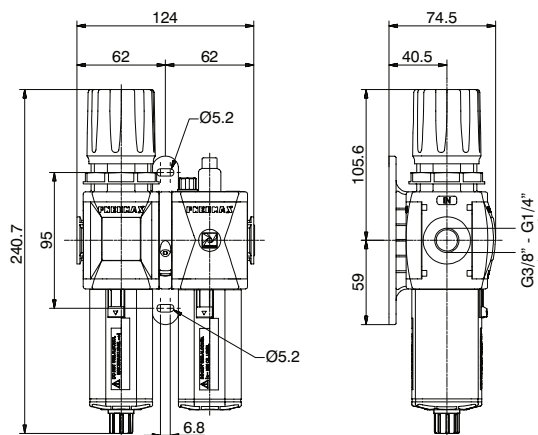
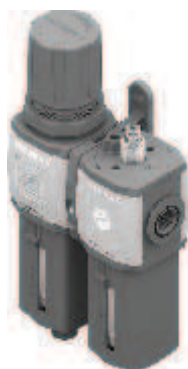
Connections	G 3/8"	Ordering code
Max. inlet pressure	13 bar	<b>T172BPP</b>
Working temperature	-5°C +50°C	
Weight	gr. 179	
Microswitch capacity	1A	
Grade of protection (with connector assembled)	IP 65	
Adjusting range	2 -10 bar	
Assembly positions	Indifferent	
Max. fitting torque (with Technopolymer threads)	G3/8" = 16 Nm	
Microswitch maximum tension	250 VAC	

Connection

- 1 = neutral
- 2 = N.C. contact
- 3 = N.O. contact

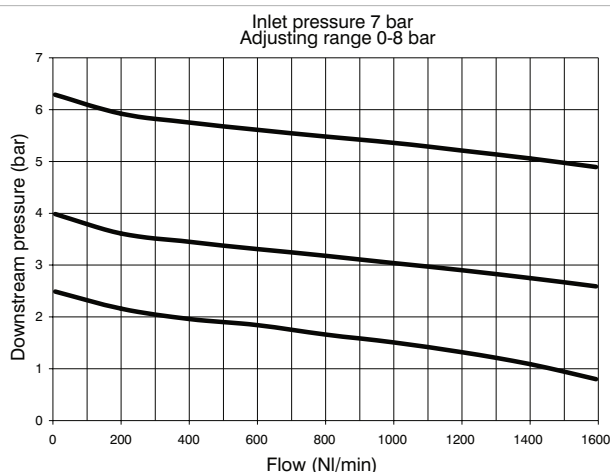


Service unit assembled (EM+L) (E+L) (EW+L)

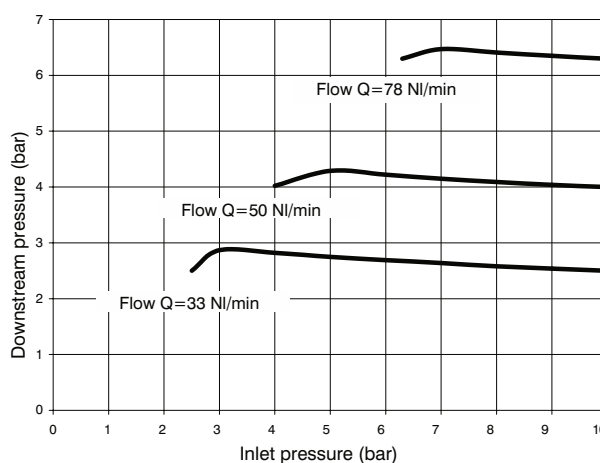


Example : GT172BHG : size 2, combined group comprising Filter-regulator and Lubricator, Technopolymer threads, G3/8" connections, 0 to 8 bar adjusting range and 20  $\mu$ m filter pore size

Flow rate curves



Adjustment characteristics



Operational characteristics

Combined group comprising Filter-regulator with built in manometer and Lubricator assembled with a (Y) type coupling kit for panel mounting.  
Integrated manometer 0-12 bar as standard (for 0-8 and 0-12 bar range) and 0-4 bar (for 0-2 and 0-4 range)

Note

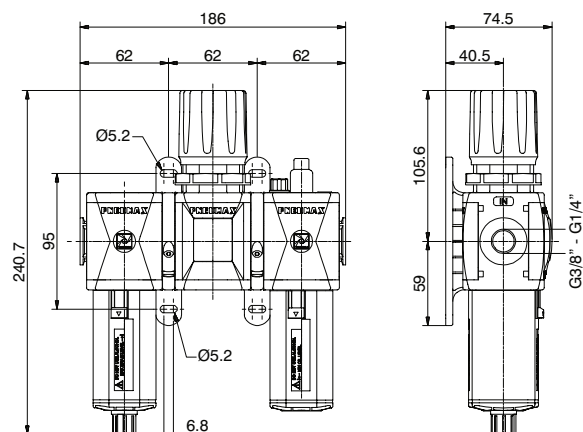
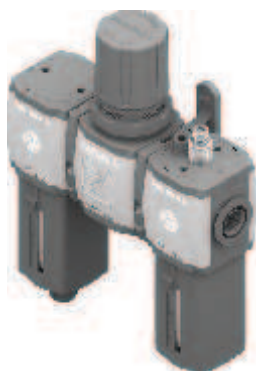
The pressure must be always regulating while increasing. For a more precise regulation and higher sensibility, the use of a regulator with a pressure range as close as possible to the regulated pressure is recommended.

Technical characteristics

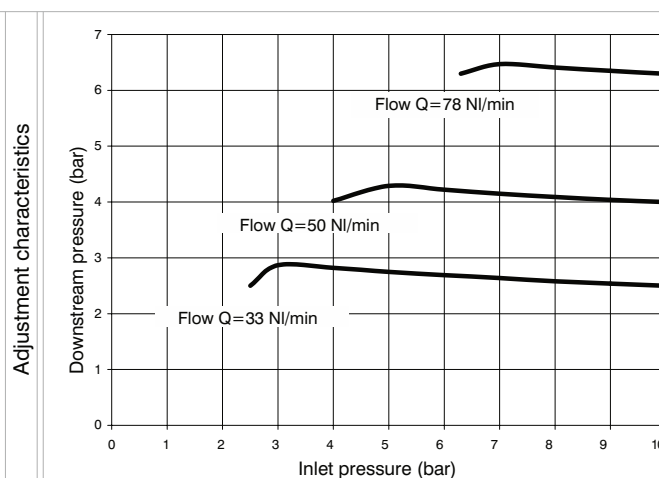
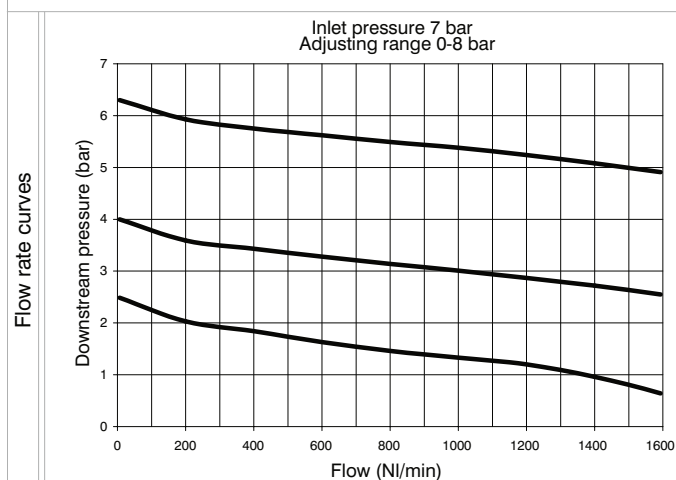
Connections	G 1/4" - G 3/8"	Ordering code <b>GV172CITSODZ</b>
Max. inlet pressure	13 bar	
Working temperature	-5°C +50°C	VERSION
Weight with Technopolymer threads	gr. 643	<b>V</b> N = Metal inserts
Weight with threaded inserts	gr. 663	T = Technopolymer thread
Pressure range	0-2 bar / 0-4 bar 0-8 bar / 0-12 bar	CONNECTIONS
Filter pore size	5 $\mu$ m - 20 $\mu$ m - 50 $\mu$ m	<b>C</b> A = G1/4" (only for "N" version) B = G3/8" C = 3/8 NPT (only for "N" version)
Bowl capacity	34 cm <sup>3</sup>	TYPE
Indicative oil drop rate	1 drop every 300/600 NI	<b>T</b> H = Built in gauge J = G1/8" gauge connection
Oil type	FD22 - HG32	FILTER PORE SIZE
Bowl capacity	70 cm <sup>3</sup>	ADJUSTING RANGE
Assembly positions	Vertical	<b>S</b> C = 5 $\mu$ m / 0-8 bar D = 5 $\mu$ m / 0-12 bar G = 20 $\mu$ m / 0-8 bar H = 20 $\mu$ m / 0-12 bar N = 50 $\mu$ m / 0-8 bar P = 50 $\mu$ m / 0-12 bar
Max. fitting torque (with Technopolymer threads)	G3/8" = 16 Nm	OPTIONS
Max. fitting torque (with threaded inserts)	G1/4" = 20 Nm G3/8" = 25 Nm	= Standard *
Min. operational flow at 6,3 bar	70 NI/min.	<b>O</b> A = Min.oil level indicator NO C = Min.oil level indicator NC S = Automatic drain SA = Automatic drain + Min.oil level indicator NO SC = Automatic drain + Min.oil level indicator NC
		FLOW DIRECTION
		<b>D</b> = Standard (from left to right) W = from right to left
		BOWL OPTIONS
		<b>Z</b> = Standard * N = Nylon bowl

\* no additional letter required

## Service unit assembled (F+RM+L) (F+R+L) (F+RW+L)



Example : GT172BKG : size 2 combined group comprising Filter, Regulator and Lubricator Technopolymer threads, G3/8" connections, 0 to 8 bar adjusting range and 20 µm filter pore size



## Operational characteristics

Combined group comprising Filter, Regulator with built in manometer and Lubricator assembled with two (Y) type coupling kits for panel mounting.  
Integrated manometer 0-12 bar as standard  
(for 0-8 and 0-12 bar range) and 0-4 bar (for 0-2 and 0-4 range)

## 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.

## Technical characteristics

Connections	G 1/4" - G 3/8"
Max. inlet pressure	13 bar
Working temperature	-5°C +50°C
Weight with Technopolymer threads	gr. 796
Weight with threaded inserts	gr. 826
Pressure range	0-2 bar / 0-4 bar 0-8 bar / 0-12 bar
Filter pore size	5 µm - 20 µm - 50 µm
Bowl capacity	34 cm <sup>3</sup>
Indicative oil drop rate	1 drop every 300/600 NI
Oil type	FD22 - HG32
Bowl capacity	70 cm <sup>3</sup>
Assembly positions	Vertical
Max. fitting torque (with Technopolymer threads)	G3/8" = 16 Nm
Max. fitting torque (with threaded inserts)	G1/4" = 20 Nm G3/8" = 25 Nm

Min. operational flow at 6,3 bar

70 NI/min.

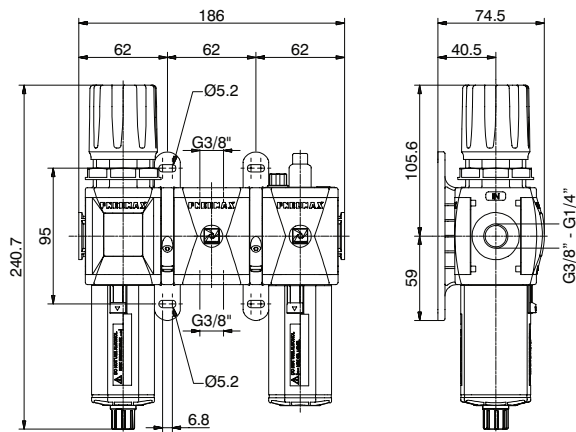
## Ordering code

**GV1720TSD02**

VERSION	
N = Metal inserts	
T = Technopolymer thread	
CONNECTIONS	
A = G1/4" (only for "N" version)	
B = G3/8"	
C = 3/8 NPT (only for "N" version)	
TYPE	
K = Built in gauge	
T = G1/8" gauge connection	
FILTER PORE SIZE	
ADJUSTING RANGE	
C = 5 µm / 0-8 bar	
D = 5 µm / 0-12 bar	
G = 20 µm / 0-8 bar	
H = 20 µm / 0-12 bar	
N = 50 µm / 0-8 bar	
P = 50 µm / 0-12 bar	
OPTIONS	
= Standard *	
A = Min.oil level indicator NO	
C = Min.oil level indicator NC	
S = Automatic drain	
SA = Automatic drain + Min.oil level indicator NO	
SC = Automatic drain + Min.oil level indicator NC	
FLOW DIRECTION	
= Standard (from left to right)	
W = from right to left	
BOWL OPTIONS	
= Standard *	
N = Nylon bowl	

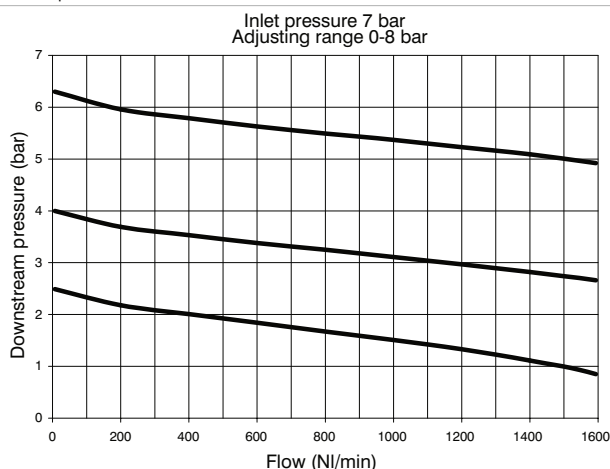
\* no additional  
letter required

Service unit assembled (EM+PA+L) (E+PA+L) (EW+PA+L)

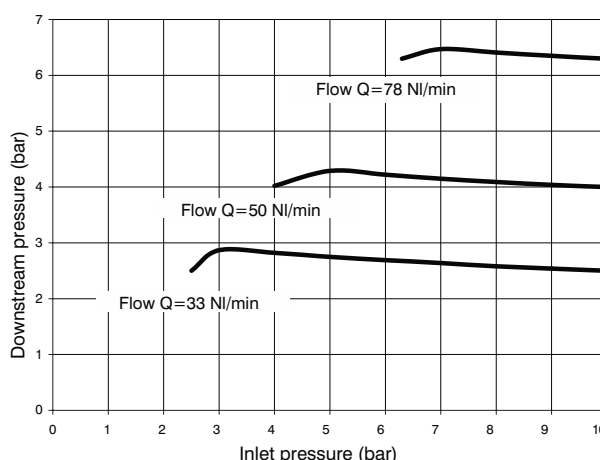


Example : GT172BNG : size 2 combined group comprising Filter-regulator, Air intake and Lubricator Technopolymer threads, G3/8" connections, 0 to 8 bar adjusting range and 20 µm filter pore size

Flow rate curves



Adjustment characteristics



Operational characteristics

Combined group comprising Filter-regulator with built in manometer, Air intake and Lubricator assembled with two (Y) type coupling kits for panel mounting. Integrated manometer 0-12 bar as standard (for 0-8 and 0-12 bar range) and 0-4 bar (for 0-2 and 0-4 range)

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.

Technical characteristics

Connections	G 1/4" - G 3/8"
Max. inlet pressure	13 bar
Working temperature	-5°C +50°C
Weight with Technopolymer threads	gr. 771,5
Weight with threaded inserts	gr. 791,5
Pressure range	0-2 bar / 0-4 bar 0-8 bar / 0-12 bar
Filter pore size	5 µm - 20 µm - 50 µm
Bowl capacity	34 cm <sup>3</sup>
Indicative oil drop rate	1 drop every 300/600 NI
Oil type	FD22 - HG32
Bowl capacity	70 cm <sup>3</sup>
Assembly positions	Vertical
Max. fitting torque (with Technopolymer threads)	G3/8" = 16 Nm
Max. fitting torque (with threaded inserts)	G1/4" = 20 Nm G3/8" = 25 Nm

Min. operational flow at 6,3 bar

70 NI/min.

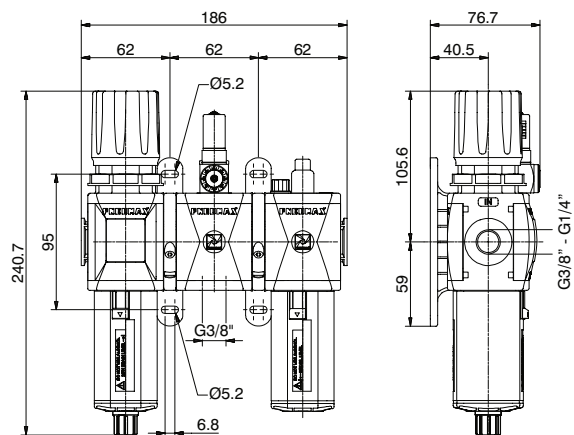
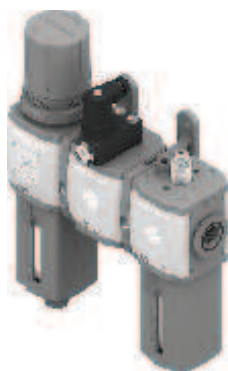
Ordering code

**GV172CTSD02**

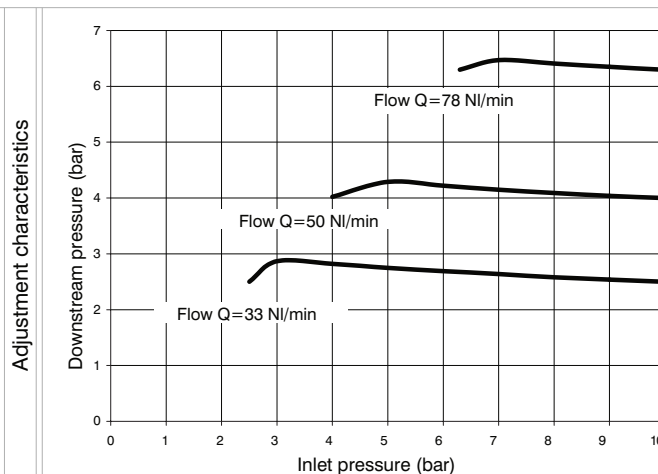
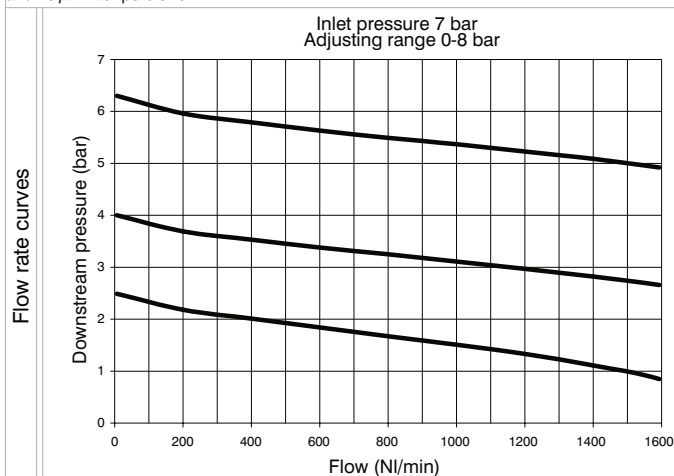
VERSION	
N = Metal inserts	
T = Technopolymer thread	
CONNECTIONS	
A = G1/4" (only for "N" version)	
B = G3/8"	
C = 3/8 NPT (only for "N" version)	
TYPE	
N = Built in gauge	
P = G1/8" gauge connection	
FILTER PORE SIZE	
ADJUSTING RANGE	
C = 5 µm / 0-8 bar	
D = 5 µm / 0-12 bar	
G = 20 µm / 0-8 bar	
H = 20 µm / 0-12 bar	
N = 50 µm / 0-8 bar	
P = 50 µm / 0-12 bar	
OPTIONS	
= Standard *	
A = Min.oil level indicator NO	
C = Min.oil level indicator NC	
S = Automatic drain	
SA = Automatic drain + Min.oil level indicator NO	
SC = Automatic drain + Min.oil level indicator NC	
FLOW DIRECTION	
= Standard	
(from left to right)	
W = from right to left	
BOWL OPTIONS	
= Standard *	
N = Nylon bowl	

\* no additional letter required

## Service unit assembled (EM+PP+L) (E+PP+L) (EW+PP+L)



Example : GT172BRG : size 2 combined group comprising Filter-Regulator, Pressure switch and Lubricator Technopolymer threads, G3/8" connections 0 to 8 bar adjusting range and 20 µm filter pore size



## Operational characteristics

Combined group comprising Filter-regulator with built in manometer, Pressure switch and Lubricator assembled with two (Y) type coupling kits for panel mountings. Integrated manometer 0-12 bar as standard (for 0-8 and 0-12 bar range) and 0-4 bar (for 0-2 and 0-4 range)

## 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.

## Technical characteristics

Connections	G 1/4" - G 3/8"
Max. inlet pressure	13 bar
Working temperature	-5°C +50°C
Weight with Technopolymer threads	gr. 855
Weight with threaded inserts	gr. 875
Pressure range	0-2 bar / 0-4 bar 0-8 bar / 0-12 bar
Filter pore size	5 µm - 20 µm - 50 µm
Bowl capacity	34 cm³
Indicative oil drop rate	1 drop every 300/600 NI
Oil type	FD22 - HG32
Bowl capacity	70 cm³
Assembly positions	Vertical
Max. fitting torque (with Technopolymer threads)	G3/8" = 16 Nm
Max. fitting torque (with threaded inserts)	G1/4" = 20 Nm G3/8" = 25 Nm

Min. operational flow at 6,3 bar

70 NI/min.

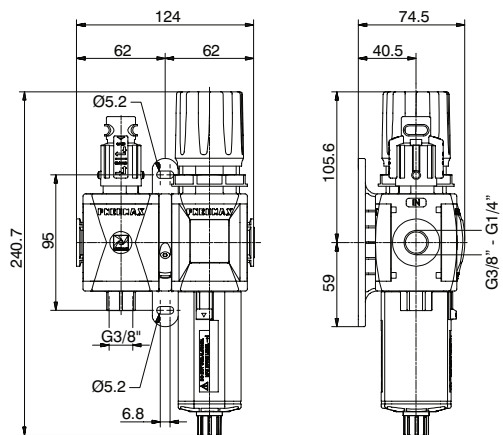
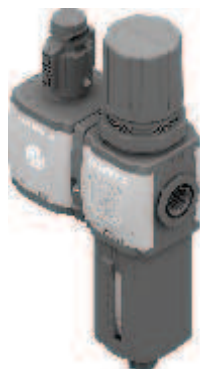
## Ordering code

**GV1720TSD02**

VERSION	
N = Metal inserts	
T = Technopolymer thread	
CONNECTIONS	
A = G1/4" (only for "N" version)	
B = G3/8"	
C = 3/8 NPT (only for "N" version)	
TYPE	
R = Built in gauge	
C = G1/8" gauge connection	
FILTER PORE SIZE	
ADJUSTING RANGE	
C = 5 µm / 0-8 bar	
D = 5 µm / 0-12 bar	
G = 20 µm / 0-8 bar	
H = 20 µm / 0-12 bar	
N = 50 µm / 0-8 bar	
P = 50 µm / 0-12 bar	
OPTIONS	
= Standard *	
A = Min.oil level indicator NO	
C = Min.oil level indicator NC	
S = Automatic drain	
SA = Automatic drain + Min.oil level indicator NO	
SC = Automatic drain + Min.oil level indicator NC	
FLOW DIRECTION	
= Standard (from left to right)	
W = from right to left	
BOWL OPTIONS	
= Standard *	
N = Nylon bowl	

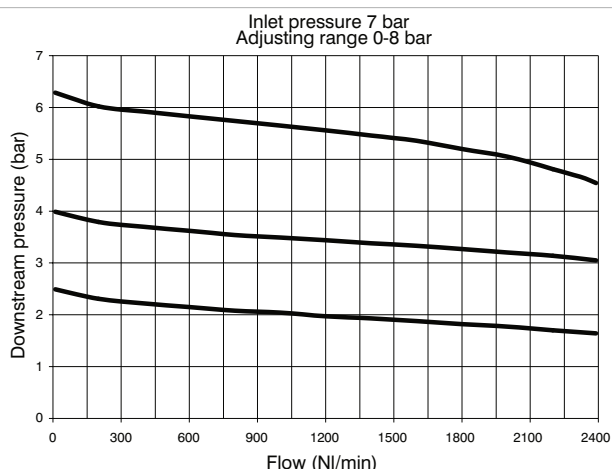
\* no additional  
letter required

Service unit assembled (VL+EM) (VL+E) (VL+EW)

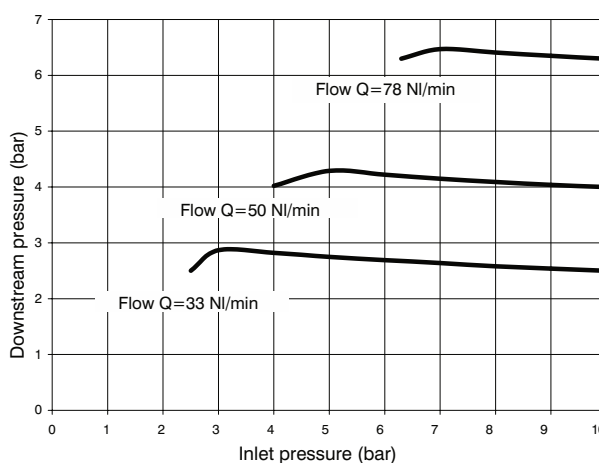


Example : GT172BVGG : size 2 combined group comprising Shut-off valve, Filter-regulator Technopolymer threads, G3/8" connections 0 to 8 bar adjusting range and 20 µm filter pore size

Flow rate curves



Adjustment characteristics



Operational characteristics

Combined group comprising manual shut-off valve, Filter - regulator with built in manometer, assembled with one (Y) type coupling kit for panel mountings. Integrated manometer 0-12 bar as standard (for 0-8 and 0-12 bar range) and 0-4 bar (for 0-2 and 0-4 range)

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.

Technical characteristics

Connections	G 1/4" - G 3/8"
Max. inlet pressure	13 bar
Working temperature	-5°C +50°C
Weight with Technopolymer threads	gr. 613
Weight with threaded inserts	gr. 633
Pressure range	0-2 bar / 0-4 bar 0-8 bar / 0-12 bar
Filter pore size	5 µm - 20 µm - 50 µm
Bowl capacity	34 cm <sup>3</sup>
Indicative oil drop rate	1 drop every 300/600 NI
Oil type	FD22 - HG32
Bowl capacity	70 cm <sup>3</sup>
Assembly positions	Vertical
Max. fitting torque (with Technopolymer threads)	G3/8" = 16 Nm
Max. fitting torque (with threaded inserts)	G1/4" = 20 Nm G3/8" = 25 Nm
Min. operational flow at 6,3 bar	70 NI/min.

Ordering code

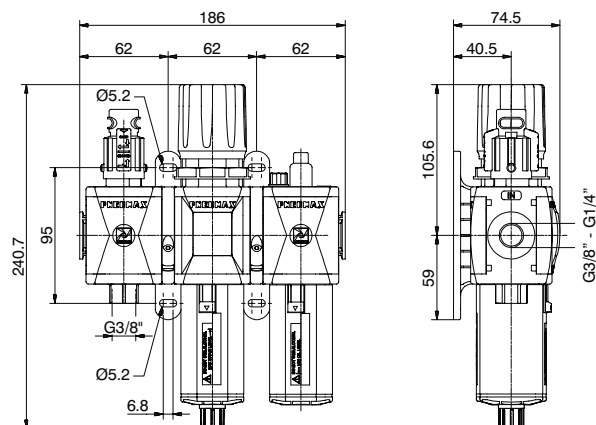
**GV172CTSD02**

VERSION	
N = Metal inserts	
T = Technopolymer thread	
CONNECTIONS	
A = G1/4" (only for "N" version)	
B = G3/8"	
C = 3/8 NPT (only for "N" version)	
TYPE	
VG = Built in gauge	
VU = G1/8" gauge connection	
FILTER PORE SIZE	
ADJUSTING RANGE	
C = 5 µm / 0-8 bar	
D = 5 µm / 0-12 bar	
G = 20 µm / 0-8 bar	
H = 20 µm / 0-12 bar	
N = 50 µm / 0-8 bar	
P = 50 µm / 0-12 bar	
OPTIONS	
= Standard *	
S = Automatic drain	
FLOW DIRECTION	
= Standard	
(from left to right)	
W = from right to left	
BOWL OPTIONS	
= Standard *	
N = Nylon bowl	

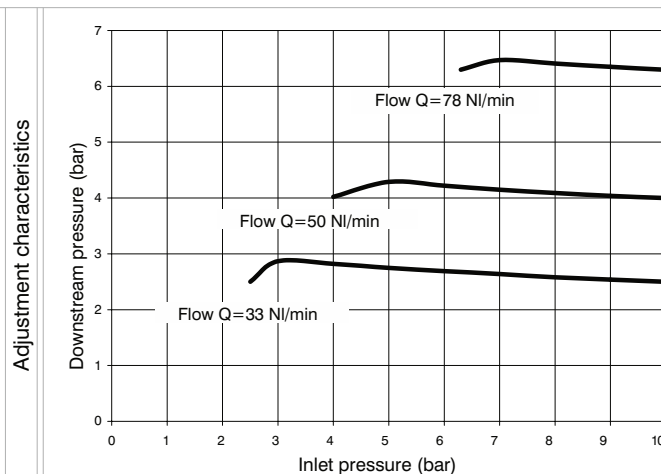
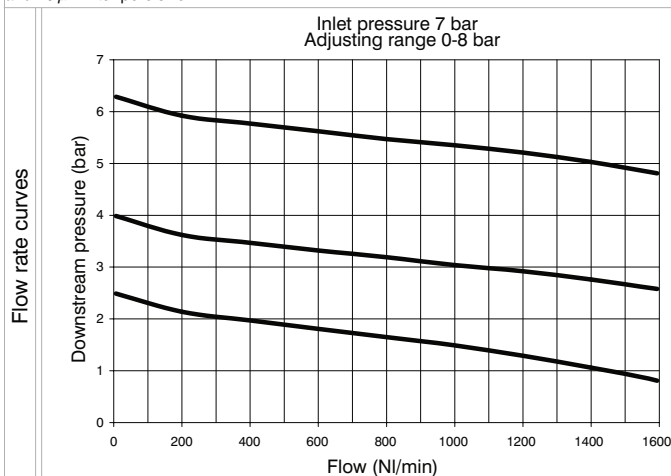
\* no additional letter required



## Service unit assembled (VL+EM+L) (VL+E+L) (VL+EW+L)



Example : GT172BVHG : size 2 combined group comprising Shut-off valve, Filter-regulator and Lubricator Technopolymer threads, G3/8" connections 0 to 8 bar adjusting range and 20 µm filter pore size



## Operational characteristics

Combined group comprising manual shut-off valve, Filter-regulator with built in manometer and Lubricator assembled with two(Y) type coupling kits for panel mountings.  
Integrated manometer 0-12 bar as standard  
(for 0-8 and 0-12 bar range) and 0-4 bar (for 0-2 and 0-4 range)

## 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.

## Technical characteristics

Connections	G 1/4" - G 3/8"
Max. inlet pressure	13 bar
Working temperature	-5°C +50°C
Weight with Technopolymer threads	gr. 856
Weight with threaded inserts	gr. 886
Pressure range	0-2 bar / 0-4 bar 0-8 bar / 0-12 bar
Filter pore size	5 µm - 20 µm - 50 µm
Bowl capacity	34 cm³
Indicative oil drop rate	1 drop every 300/600 NI
Oil type	FD22 - HG32
Bowl capacity	70 cm³
Assembly positions	Vertical
Max. fitting torque (with Technopolymer threads)	G3/8" = 16 Nm
Max. fitting torque (with threaded inserts)	G1/4" = 20 Nm G3/8" = 25 Nm

Min. operational flow at 6,3 bar

70 NI/min.

## Ordering code

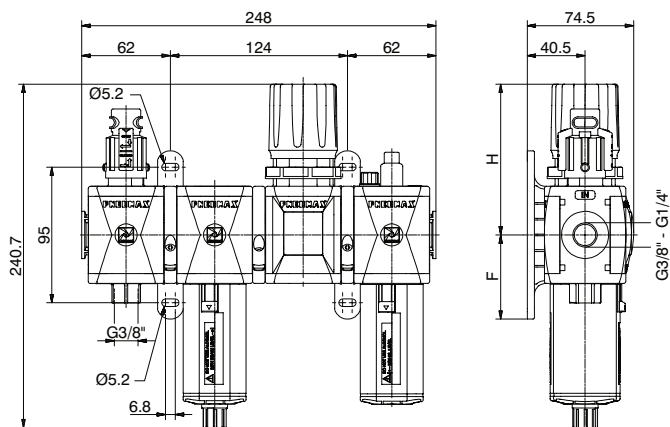
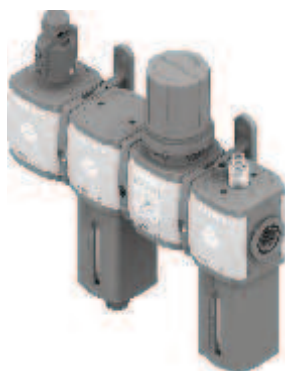
**GV172CTSD02**

VERSION	
V N = Metal inserts	
T = Technopolymer thread	
CONNECTIONS	
A = G1/4" (only for "N" version)	
B = G3/8"	
C = 3/8 NPT (only for "N" version)	
TYPE	
VH = Built in gauge	
VJ = G1/8" gauge connection	
FILTER PORE SIZE	
ADJUSTING RANGE	
C = 5 µm / 0-8 bar	
D = 5 µm / 0-12 bar	
G = 20 µm / 0-8 bar	
H = 20 µm / 0-12 bar	
N = 50 µm / 0-8 bar	
P = 50 µm / 0-12 bar	
OPTIONS	
= Standard *	
A = Min.oil level indicator NO	
C = Min.oil level indicator NC	
S = Automatic drain	
SA = Automatic drain + Min.oil level indicator NO	
SC = Automatic drain + Min.oil level indicator NC	
FLOW DIRECTION	
= Standard (from left to right)	
W = from right to left	
BOWL OPTIONS	
= Standard *	
N = Nylon bowl	

\* no additional  
letter required

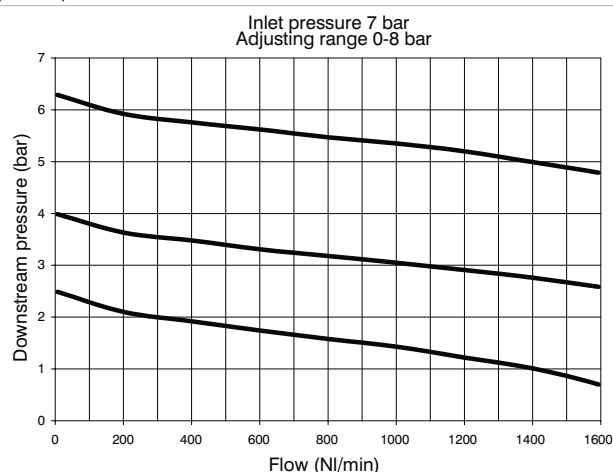


Service unit assembled (VL+F+RM+L) (VL+F+R+L) (VL+F+RW+L)

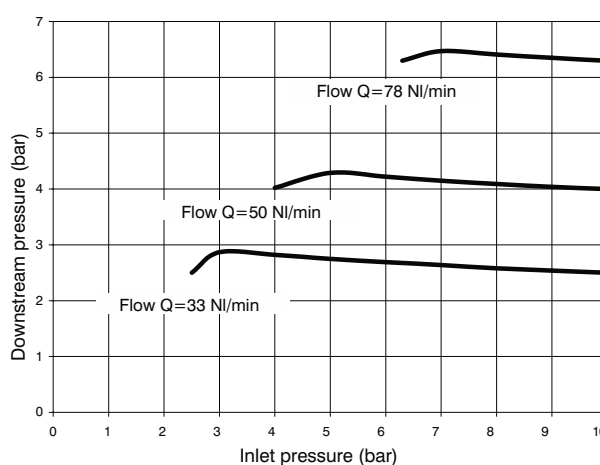


Example : GT172BVKG : size 2 combined group comprising Shut-off valve, Filter, Regulator and Lubricator Technopolymer threads, G3/8" connections 0 to 8 bar adjusting range and 20 µm filter pore size

Flow rate curves



Adjustment characteristics



Operational characteristics

Combined group comprising manual shut - off valve, Filter, Regulator with built in manometer and Lubricator , assembled with two (Y) type coupling kits for panel mounting and one (X) type coupling kit.

Integrated manometer 0-12 bar as standard (for 0-8 and 0-12 bar range) and 0-4 bar (for 0-2 and 0-4 range)

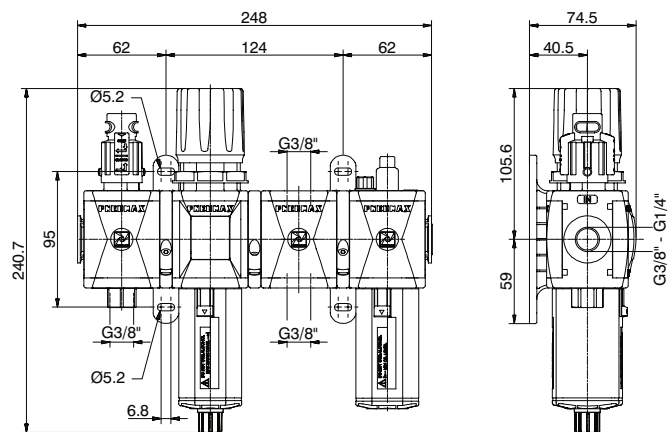
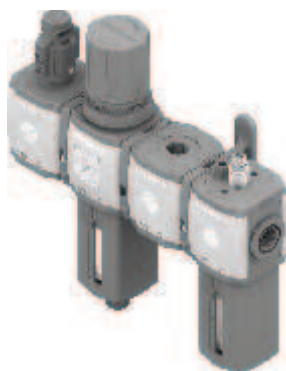
Note

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.

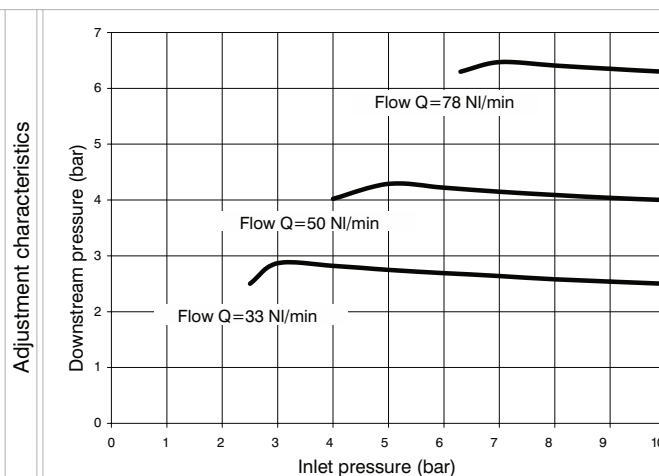
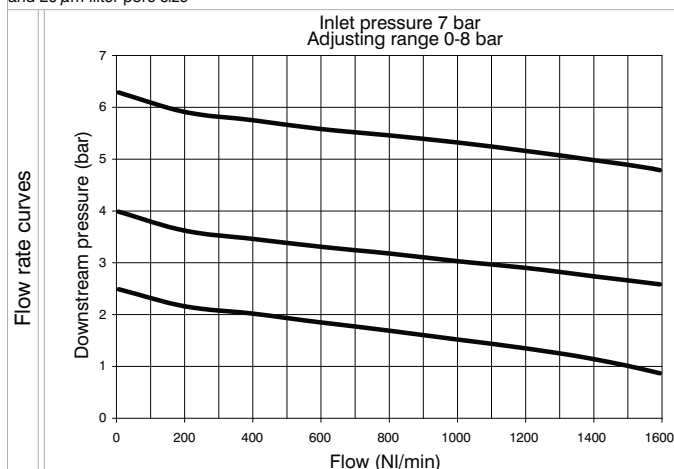
Technical characteristics

Connections	G 1/4" - G 3/8"	Ordering code <b>GV172C1S0DZ</b>
Max. inlet pressure	13 bar	
Working temperature	-5°C +50°C	VERSION
Weight with Technopolymer threads	gr. 997	✓ N = Metal inserts
Weight with threaded inserts	gr. 1037	T = Technopolymer thread
Pressure range	0-2 bar / 0-4 bar 0-8 bar / 0-12 bar	CONNECTIONS
Filter pore size	5 µm - 20 µm - 50 µm	A = G1/4" (only for "N" version)
Bowl capacity	34 cm <sup>3</sup>	B = G3/8"
Indicative oil drop rate	1 drop every 300/600 NI	C = 3/8 NPT (only for "N" version)
Oil type	FD22 - HG32	TYPE
Bowl capacity	70 cm <sup>3</sup>	① VK = Built in gauge VT = G1/8" gauge connection
Assembly positions	Vertical	FILTER PORE SIZE
Max. fitting torque (with Technopolymer threads)	G3/8" = 16 Nm	ADJUSTING RANGE
Max. fitting torque (with threaded inserts)	G1/4" = 20 Nm G3/8" = 25 Nm	C = 5 µm / 0-8 bar
		D = 5 µm / 0-12 bar
		G = 20 µm / 0-8 bar
		H = 20 µm / 0-12 bar
		N = 50 µm / 0-8 bar
		P = 50 µm / 0-12 bar
		OPTIONS
		= Standard *
		A = Min.oil level indicator NO
		C = Min.oil level indicator NC
		② S = Automatic drain
		SA = Automatic drain + Min.oil level indicator NO
		SC = Automatic drain + Min.oil level indicator NC
		FLOW DIRECTION
		= Standard (from left to right)
		W = from right to left
		BOWL OPTIONS
		Z = Standard *
		N = Nylon bowl
Min. operational flow at 6,3 bar	70 NI/min.	* no additional letter required

## Service unit assembled (VL+EM+PA+L) (VL+E+PA+L) (VL+EW+PA+L)



Example : GT172BVNG : size 2 combined group comprising Shut-off valve, Filter-regulator, Air intake and Lubricator Technopolymer threads, G3/8" connections 0 to 8 bar adjusting range and 20 µm filter pore size



## Operational characteristics

Combined group comprising manual shut-off valve, Filter-regulator with built in manometer, Air intake and Lubricator, assembled with two (Y) type coupling kits for panel mounting and one (X) type coupling kit.

Integrated manometer 0-12 bar as standard (for 0-8 and 0-12 bar range) and 0-4 bar (for 0-2 and 0-4 range)

## 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.

## Technical characteristics

Connections	G 1/4" - G 3/8"
Max. inlet pressure	13 bar
Working temperature	-5°C +50°C
Weight with Technopolymer threads	gr. 972,5
Weight with threaded inserts	gr. 1002,5
Pressure range	0-2 bar / 0-4 bar 0-8 bar / 0-12 bar
Filter pore size	5 µm - 20 µm - 50 µm
Bowl capacity	34 cm³
Indicative oil drop rate	1 drop every 300/600 NI
Oil type	FD22 - HG32
Bowl capacity	70 cm³
Assembly positions	Vertical
Max. fitting torque (with Technopolymer threads)	G3/8" = 16 Nm
Max. fitting torque (with threaded inserts)	G1/4" = 20 Nm G3/8" = 25 Nm

Min. operational flow at 6,3 bar

70 NI/min.

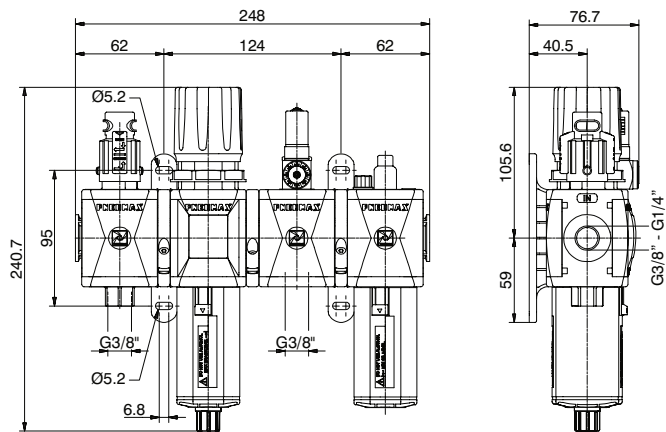
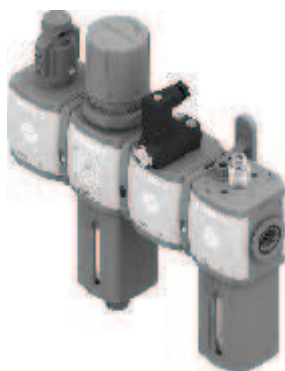
## Ordering code

**GV172CTSD02**

VERSION	
N = Metal inserts	
T = Technopolymer thread	
CONNECTIONS	
A = G1/4" (only for "N" version)	
B = G3/8"	
C = 3/8 NPT (only for "N" version)	
TYPE	
VN = Built in gauge	
VP = G1/8" gauge connection	
FILTER PORE SIZE	
ADJUSTING RANGE	
C = 5 µm / 0-8 bar	
D = 5 µm / 0-12 bar	
G = 20 µm / 0-8 bar	
H = 20 µm / 0-12 bar	
N = 50 µm / 0-8 bar	
P = 50 µm / 0-12 bar	
OPTIONS	
= Standard *	
A = Min.oil level indicator NO	
C = Min.oil level indicator NC	
S = Automatic drain	
SA = Automatic drain + Min.oil level indicator NO	
SC = Automatic drain + Min.oil level indicator NC	
FLOW DIRECTION	
= Standard (from left to right)	
W = from right to left	
BOWL OPTIONS	
= Standard *	
N = Nylon bowl	

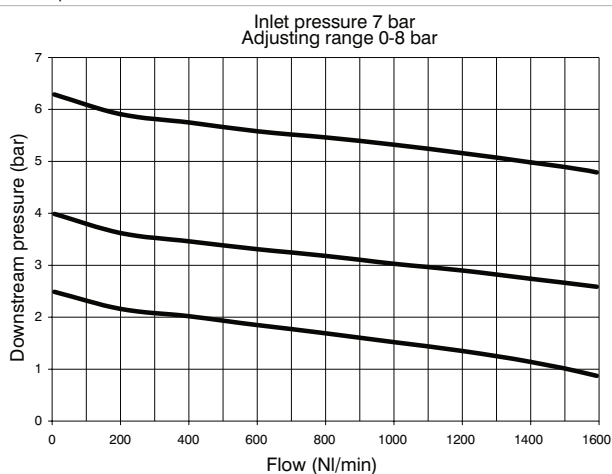
\* no additional  
letter required

Service unit assembled (VL+EM+PP+L) (VL+E+PP+L) (VL+EW+PP+L)

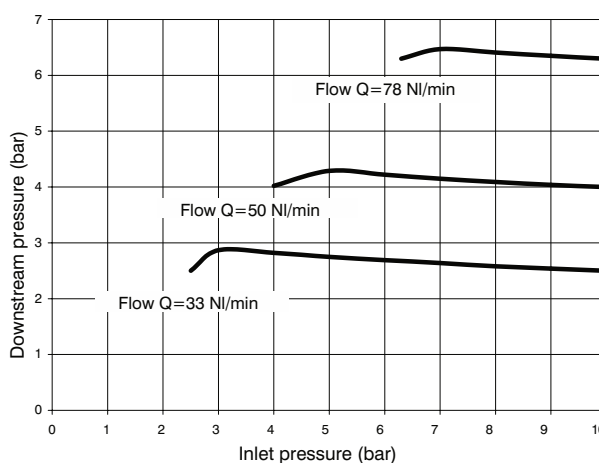


Example : GT172BVRG : size 2 combined group comprising Shut-off valve, Filter-regulator, Pressure switch and Lubricator Technopolymer threads, G3/8" connections adjusting range 0 to 8 bar and 20 µm filter pore size

Flow rate curves



Adjustment characteristics



Operational characteristics

Combined group comprising manual shut-off valve, Filter - regulator with built in manometer, Pressure switch and Lubricator, assembled with two (Y) type coupling kits for panel mounting and one (X) type coupling kit.  
Integrated manometer 0-12 bar as standard (for 0-8 and 0-12 bar range) and 0-4 bar (for 0-2 and 0-4 range)

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.

Technical characteristics

Connections	G 1/4" - G 3/8"
Max. inlet pressure	13 bar
Working temperature	-5°C +50°C
Weight with Technopolymer threads	gr. 1056
Weight with threaded inserts	gr. 1086
Pressure range	0-2 bar / 0-4 bar 0-8 bar / 0-12 bar
Filter pore size	5 µm - 20 µm - 50 µm
Bowl capacity	34 cm <sup>3</sup>
Indicative oil drop rate	1 drop every 300/600 NI
Oil type	FD22 - HG32
Bowl capacity	70 cm <sup>3</sup>
Assembly positions	Vertical
Max. fitting torque (with Technopolymer threads)	G3/8" = 16 Nm
Max. fitting torque (with threaded inserts)	G1/4" = 20 Nm G3/8" = 25 Nm

Min. operational flow at 6,3 bar

70 NI/min.

Ordering code

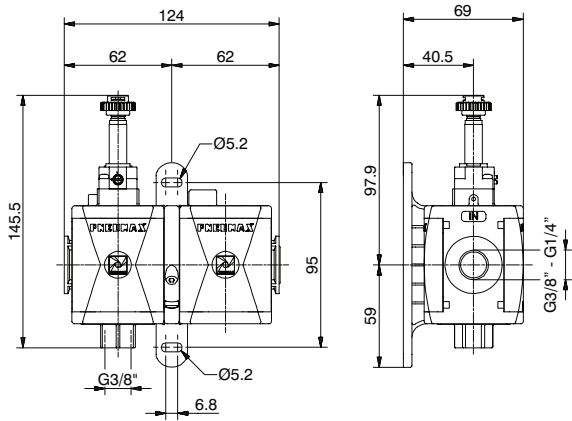
**GV172C1S0DZ**

	VERSION
V	N = Metal inserts T = Technopolymer thread
	CONNECTIONS
C	A = G1/4" (only for "N" version) B = G3/8" C = 3/8 NPT (only for "N" version)
	TYPE
T	VR = Built in gauge VC = G1/8" gauge connection
	FILTER PORE SIZE
	ADJUSTING RANGE
S	C = 5 µm / 0-8 bar D = 5 µm / 0-12 bar G = 20 µm / 0-8 bar H = 20 µm / 0-12 bar N = 50 µm / 0-8 bar P = 50 µm / 0-12 bar
	OPTIONS
	= Standard *
	A = Min.oil level indicator NO C = Min.oil level indicator NC
O	S = Automatic drain SA = Automatic drain + Min.oil level indicator NO SC = Automatic drain + Min.oil level indicator NC
	FLOW DIRECTION
D	= Standard (from left to right) W = from right to left
	BOWL OPTIONS
Z	= Standard * N = Nylon bowl

\* no additional letter required



Service unit assembled (VE+AP)

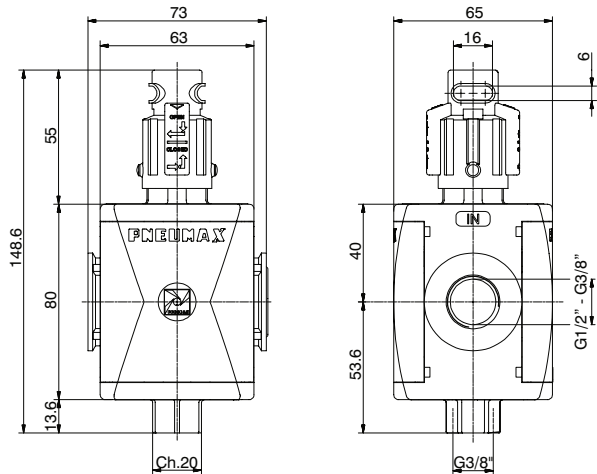


Example : GT172BSB2 : size 2 combined group comprising Electric shut-off valve, Progressive start-up valve without coil with M2 pilot Technopolymer threads, G3/8" connections

Operational characteristics	Technical characteristics		
Combined group comprising Electric shut - off valve and Progressive start-up valve assembled with a (Y) type coupling kit for panel mounting.	Connections	G 1/4" - G 3/8"	Ordering code
	Max. inlet pressure	10 bar	<div>GV172CSA</div> <div>VERSION</div> <div>V N = Metal inserts</div> <div>T = Technopolymer thread</div> <div>CONNECTIONS</div> <div>A = G1/4" (only for "N" version)</div> <div>B = G3/8"</div> <div>C = 3/8 NPT (only for "N" version)</div> <div>15 mm COIL VOLTAGE</div> <div>A4 = 12 V DC</div> <div>A5 = 24 V DC</div> <div>A6 = 24 V AC (50-60 Hz)</div> <div>A7 = 110 V AC (50-60 Hz)</div> <div>A8 = 220 V AC (50-60 Hz)</div> <div>A9 = 24 V DC (1 Watt)</div> <div>22 mm COIL VOLTAGE</div> <div>B2 = Without coil</div> <div>M2 mechanic</div> <div>A B4 = 12 V DC</div> <div>B5 = 24 V DC</div> <div>B6 = 24 V AC (50-60 Hz)</div> <div>B7 = 110 V AC (50-60 Hz)</div> <div>B8 = 220 V AC (50-60 Hz)</div> <div>B9 = 24 V DC (2 Watt)</div> <div>30 mm COIL VOLTAGE</div> <div>C5 = 24 V DC</div> <div>C6 = 24 V AC (50-60 Hz)</div> <div>C7 = 110 V AC (50-60 Hz)</div> <div>C8 = 230 V AC (50-60 Hz)</div> <div>C9 = 24 V DC (2 Watt)</div>
	Min. inlet pressure	2.5 bar	
	Working temperature	-5°C +50°C	
	Weight with Technopolymer threads	gr. 373	
	Weight with threaded inserts	gr. 393	
	Assembly positions	Indifferent	
	Max. fitting torque (with Technopolymer threads)	G3/8" = 16 Nm	
	Max. fitting torque (with threaded inserts)	G1/4" = 20 Nm G3/8" = 25 Nm	
	Flow at 6 bar with Δp=1	1800 NI/min.	



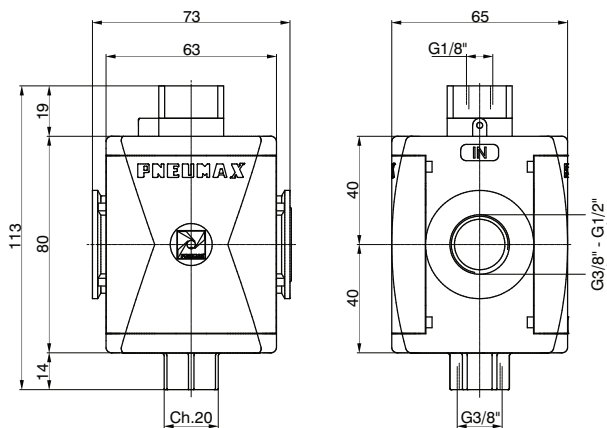
Shut-off valve (VL)



Example: T173BVL : size 3, Shut-off valve with Technopolymer threads, G1/2" connections

Operational characteristics	Technical characteristics		
<ul style="list-style-type: none"><li>- Manual operated 3 ways poppet valve.</li><li>- Double handle action for valve opening: pushing and rotating (clockwise).</li><li>- The valve can be closed and the down stream circuit depressurized by rotating anticlockwise the knob.</li><li>- Knob lockable with three padlocks.</li></ul>	Connections	G 3/8" - G 1/2"	Ordering code
	Max. inlet pressure	13 bar	V173C <b>VL</b>
	Discharge connection	G3/8"	
	Working temperature	-5°C +50°C	V
	Weight with Technopolymer threads	gr. 230	
	Weight with threaded inserts	gr. 250	C
	Assembly positions	Indifferent	
	Handle opening and closing angle	90°	CONNECTIONS A = G3/8" (only for "N" version) B = G1/2" C = 1/2 NPT (only for "N" version)
	Max. fitting torque (with Technopolymer threads)	G1/2" = 22 Nm	
	Max. fitting torque (with threaded inserts)	G3/8" = 25 Nm G1/2" = 30 Nm	
	Nominal flow rate at 6 bar with Δp=1	3600 NI/min.	
	Exhaust nominal flow rate at 6 bar with Δp=1	1500 NI/min.	

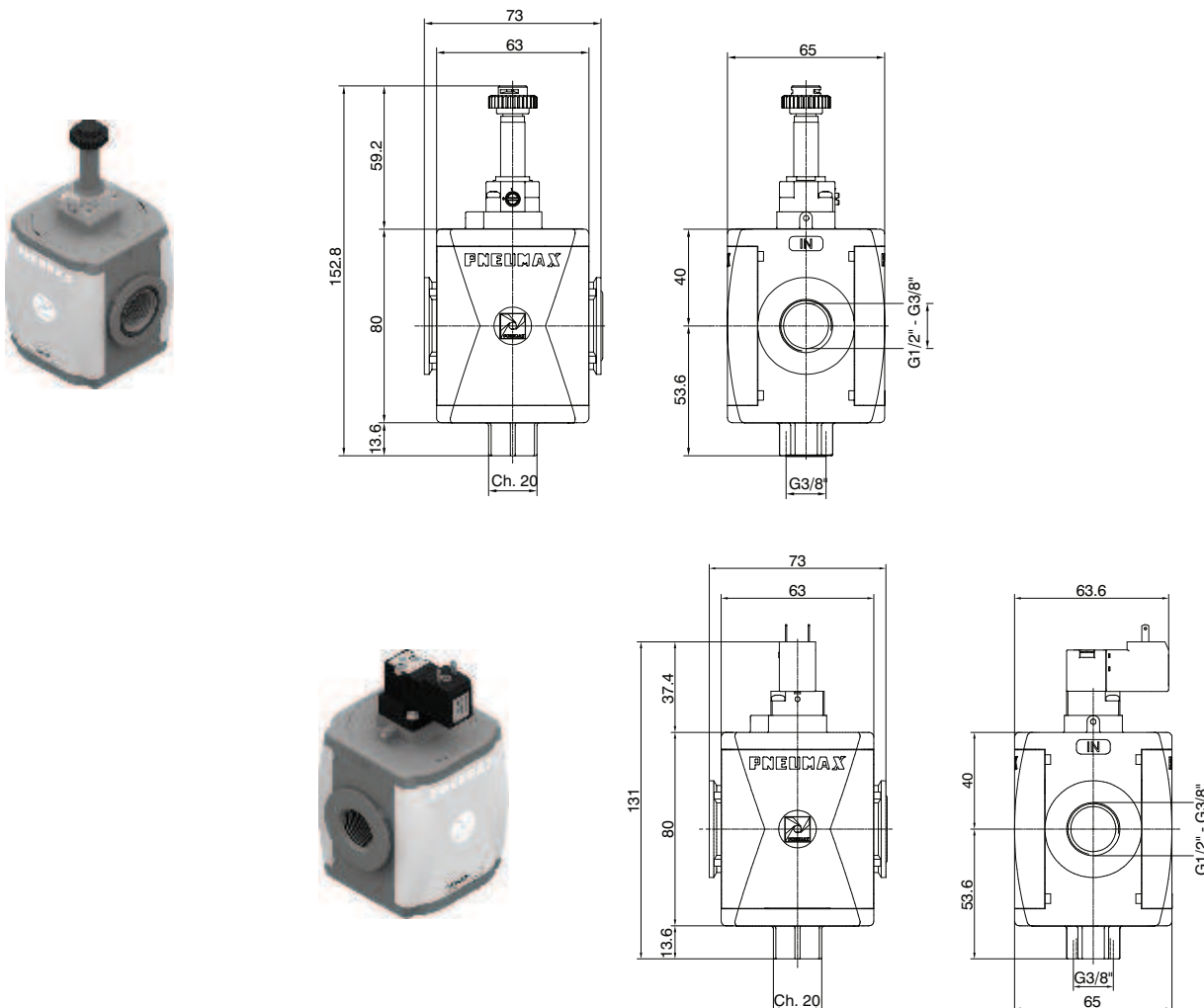
# Pneumatic shut-off valve (VP)



Example: T173BVP : size 3, Pneumatic shut-off valve with Technopolymer threads, G1/2" connections

Operational characteristics	Technical characteristics		
<div>- Pneumatic operated 3 ways poppet valve.</div> <div>- When the pneumatic signal is removed the valves exhaust the pneumatic circuit</div>	Connections	G 3/8" - G 1/2"	Ordering code
	Discharge connection	G3/8"	
	Pilot port size	G1/8"	
	Working temperature	-5°C +50°C	<div>V</div> <div>VERSION</div> <div>N = Metal inserts</div> <div>T = Technopolymer thread</div> <div>CONNECTIONS</div> <div>A = G3/8"(only for "N" version)</div> <div>B = G1/2"</div> <div>C = 1/2 NPT(only for "N" version)</div>
	Weight with technopolymer threads	gr. 254	
	Weight with threaded inserts	gr. 270	
	Assembly positions	Indifferent	
	Min. pressure working	2,5 bar	
	Max. pressure working	10 bar	<div>C</div>
	Max. fitting torque (with Technopolymer threads)	G1/2" = 22 Nm	
	Max. fitting torque (with threaded inserts)	G3/8" = 25 Nm G1/2" = 30 Nm	
	Nominal flow rate at 6 bar with Δp=1	3600 NI/min.	
	Exhaust nominal flow rate at 6 bar with Δp=1	1500 NI/min.	

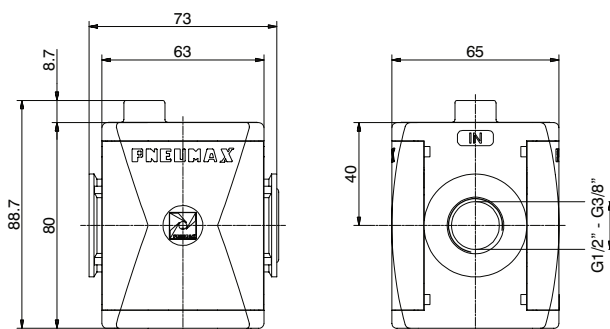
## Electric shut-off valve (VE)



Example : T173BVEB2 : size 3, Electric shut-off valve, with M2 Pilot without coil, Technopolymer threads, G1/2" connections

Operational characteristics	Technical characteristics		Ordering code
<ul style="list-style-type: none"> <li>- Solenoid operated 3 ways poppet valve.</li> <li>- The model fitted with 15 mm pilots uses pilots series N33_0A and N33_0E (1 Watt)</li> </ul>	Supply and operating connections	G 3/8" - G 1/2"	<b>V173CVEA</b> <b>VERSION</b> <b>N</b> = Metal inserts <b>T</b> = Technopolymer thread <b>CONNECTIONS</b> <b>A</b> = G3/8" (only for "N" version) <b>B</b> = G1/2" <b>C</b> = 1/2 NPT (only for "N" version) <b>15 mm COIL VOLTAGE</b> <b>A4</b> = 12 V DC <b>A5</b> = 24 V DC <b>A6</b> = 24 V AC (50-60 Hz) <b>A7</b> = 110 V AC (50-60 Hz) <b>A8</b> = 220 V AC (50-60 Hz) <b>A9</b> = 24 V DC (1 Watt) <b>22 mm COIL VOLTAGE</b> <b>B2</b> = Without coil <b>M2 mechanic</b> <b>30 mm COIL VOLTAGE</b> <b>C5</b> = 24 V DC <b>C6</b> = 24 V AC (50-60 Hz) <b>C7</b> = 110 V AC (50-60 Hz) <b>C8</b> = 230 V AC (50-60 Hz) <b>C9</b> = 24 V DC (2 Watt)
	Discharge connections	G 3/8"	
	Working temperature	-5°C +50°C	
	Weight with Technopolymer threads	290 g	
	Weight with threaded inserts	310 g	
	Assembly positions	Indifferent	
	Min. Pressure working	2,5 bar	
	Max. Pressure working	10 bar	
	Max. fitting torque (with Technopolymer threads)	G1/2" = 22 Nm	
	Max. fitting torque (with threaded inserts)	G3/8" = 30 Nm G1/2" = 25 Nm	
	Nominal flow rate at 6 bar with $\Delta p=1$	3600 NI/min.	
	Exhaust nominal flow rate at 6 bar with $\Delta p=1$	1500 NI/min.	

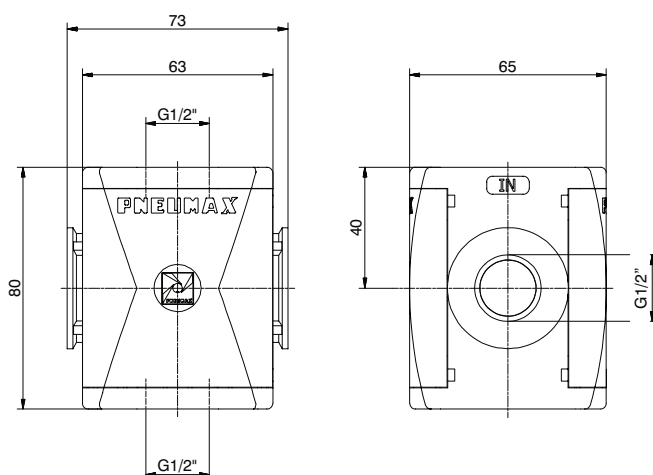
### Progressive start-up valve (AP)



Example : T173BAP : size 3, Progressive start-up valve with Technopolymer threads, G1/2" connections

Operational characteristics	Technical characteristics		
<ul style="list-style-type: none"> <li>Down stream circuit filling time regulated via a built in flow regulator.</li> <li>Full pressure is allowed once the down stream circuit pressure reaches 50% of the inlet pressure.</li> </ul>	Connections	G 3/8" - G 1/2"	Ordering code
	Max. inlet pressure	13 bar	
	Working temperature	-5°C +50°C	<b>V173CAP</b> VERSION N = Metal inserts T = Technopolymer thread
	Weight with Technopolymer threads	gr. 220	
	Weight with threaded inserts	gr. 240	CONNECTIONS A = G3/8" (only for "N" version) B = G1/2" C = 1/2 NPT (only for "N" version)
	Max. fitting torque (with Technopolymer threads)	G1/2" = 22 Nm	
	Max. fitting torque (with threaded inserts)	G3/8" = 25 Nm G1/2" = 30 Nm	
	Assembly positions	Indifferent	
	Min. pressure working	2,5 bar	
	Nominal flow rate at 6 bar with $\Delta p=1$	3600 NI/min.	
	Fully open built in flow regulator flow rate	200 NI/min.	

### Air intake (PA)

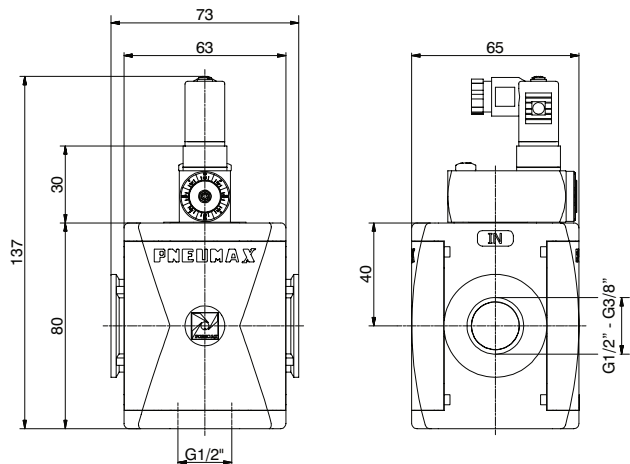


Example : T173BPA : size 3, Air intake with Technopolymer threads, G1/2" connections

Operational characteristics	Technical characteristics		
<ul style="list-style-type: none"> <li>Available with two G1/2" threaded connections.</li> </ul> <b>Attention</b> For this product are available only Technopolymer connections	Connections	G 1/2"	Ordering code
	Max. inlet pressure	13 bar	
	Working temperature	-5°C +50°C	<b>T173BPA</b>
	Weight	gr. 151	
	Assembly positions	Indifferent	
	Max. fitting torque (with Technopolymer threads)	G1/2" = 22 Nm	



Pressure switch (PP)

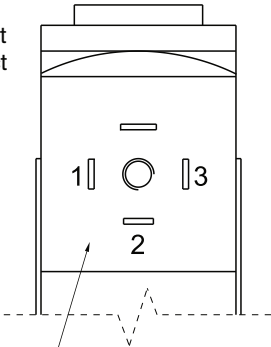


Example: T173BPP : Size 3, Pressure switch with Technopolymer threads, G1/2" connections

Operational characteristics	Technical characteristics		
<ul style="list-style-type: none"><li>- Built in adjustable pressure switch (2 to 10 bar) with electrical connection.</li><li>- G 1/2" threaded connection on the bottom face.</li><li>- The electrical connection is made by mean of a 15 mm connector DIN 43650 type C. The microswitch contact could be normally closed or open (change overswitch).</li></ul> <p><b>Attention</b> For this product are available only Technopolymer connections</p>	Connections	G 1/2"	Ordering code
	Max. inlet pressure	13 bar	<b>T173BPP</b>
	Working temperature	-5°C +50°C	
	Weight	gr. 235	
	Microswitch capacity	1A	
	Grade of protection (with connector assembled)	IP 65	
	Adjusting range	2-10 bar	
	Assembly positions	Indifferent	
	Max. fitting torque (with Technopolymer threads)	G1/2" = 22 Nm	
	Microswitch maximum tension	250 VAC	

Connection

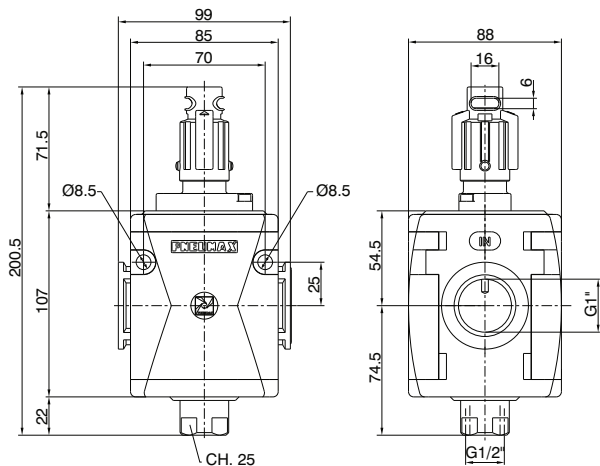
1 = neutral  
2 = N.C. contact  
3 = N.O. contact



DIN 43650 type C connector



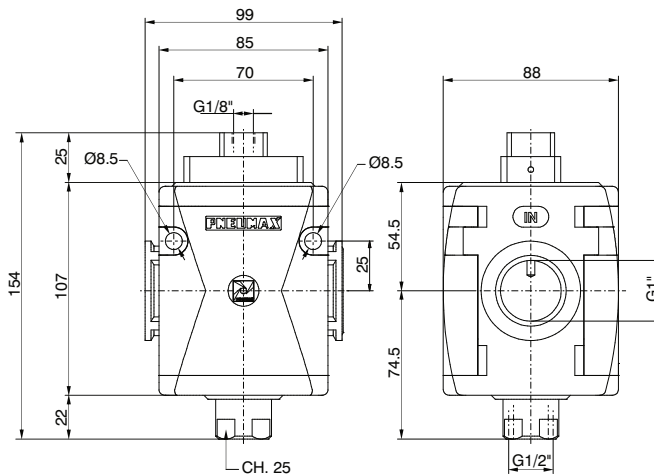
Shut-off valve (VL)



Example: N174BVL : size 4, Shut-off valve, G1" connections

Operational characteristics	Technical characteristics		
<ul style="list-style-type: none"><li>- Manual operated 3 ways poppet valve.</li><li>- Double handle action for valve opening: pushing and rotating (clockwise).</li><li>- The valve can be closed and the down stream circuit depressurized by rotating anticlockwise the knob.</li><li>- Knob lockable with three padlocks.</li></ul>	Connections	G1"	Ordering code
	Max. inlet pressure	10 bar	N174BVL
	Working temperature	-5°C +50°C	
	Weight	1100 (gr)	
	Assembly positions	Indifferent	
	Handle opening and closing angle	90°	
	Nominal flow rate at 6 bar with Δp=1 (from 1 to 2)	15000 dm³/min. (ANR)	
	Exhaust nominal flow rate at 6 bar with Δp=1 (from 2 to 3)	3600 dm³/min. (ANR)	
	Nominal flow rate with free exhaust at 6 bar (from 2 to 3)	5000 dm³/min. (ANR)	
	Wall fixing screw	M8	

### Pneumatic shut-off valve (VP)



Example: N174BVP : size 4, Pneumatic shut-off valve with Technopolymer threads, G1" connections

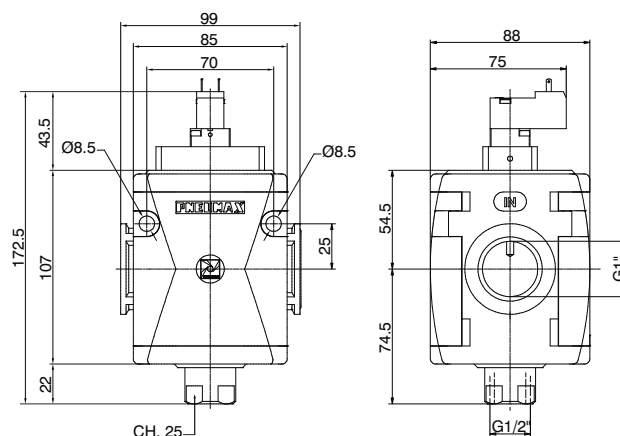
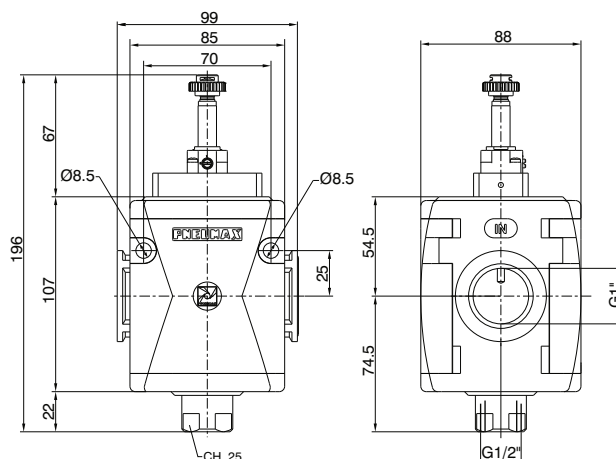
#### Operational characteristics

- Pneumatic operated 3 ways poppet valve.
- When the pneumatic signal is removed the valves exhaust the pneumatic circuit

#### Technical characteristics

Connections	G1"	Ordering code
Discharge connection	G1/2"	<b>N174BVP</b>
Pilot port size	G1/8"	
Working temperature	-5°C +50°C	
Weight	gr. 1.133	
Assembly positions	Indifferent	
Min. pressure working	2,5 bar	
Max. pressure working	10 bar	
Nominal flow rate at 6 bar with $\Delta p=1$ (from 1 to 2)	15000 dm <sup>3</sup> /min. (ANR)	
Exhaust nominal flow rate at 6 bar with $\Delta p=1$ (from 2 to 3)	3600 dm <sup>3</sup> /min. (ANR)	
Nominal flow rate with free exhaust at 6 bar (from 2 to 3)	5000 dm <sup>3</sup> /min. (ANR)	
Wall fixing screw	M8	

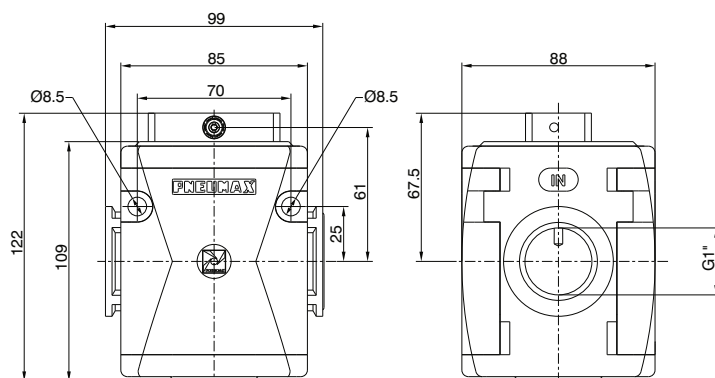
## Electric shut-off valve (VE)



Example : N174BVEB2 : size 4, Electric shut-off valve, with M2 Pilot without coil, G1" connections

Operational characteristics	Technical characteristics		
<ul style="list-style-type: none"> <li>- Solenoid operated 3 ways poppet valve.</li> <li>- The model fitted with 15 mm pilots uses pilots series N33_0A and N33_0E (1 Watt)</li> </ul>	Supply and operating connections	G1"	Ordering code
	Discharge connections	G 1/2"	
	Working temperature	-5°C +50°C	<b>N174BVE<sup>A</sup></b> 15 mm COIL VOLTAGE A4 = 12 V DC A5 = 24 V DC A6 = 24 V AC (50-60 Hz) A7 = 110 V AC (50-60 Hz) A8 = 220 V AC (50-60 Hz) A9 = 24 V DC (1 Watt) 22 mm COIL VOLTAGE B2 = Without coil M2 mechanic <sup>A</sup> B4 = 12 V DC B5 = 24 V DC B6 = 24 V AC (50-60 Hz) B7 = 110 V AC (50-60 Hz) B8 = 220 V AC (50-60 Hz) B9 = 24 V DC (2 Watt) 30 mm COIL VOLTAGE C5 = 24 V DC C6 = 24 V AC (50-60 Hz) C7 = 110 V AC (50-60 Hz) C8 = 230 V AC (50-60 Hz) C9 = 24 V DC (2 Watt)
	Weight	1170 (gr)	
	Assembly positions	Indifferent	
	Min. Pressure working	2,5 bar	
	Max. Pressure working	10 bar	
	Nominal flow rate at 6 bar with $\Delta p=1$ (from 1 to 2)	15000 dm <sup>3</sup> /min. (ANR)	
	Exhaust nominal flow rate at 6 bar with $\Delta p=1$ (from 2 to 3)	3600 dm <sup>3</sup> /min. (ANR)	
	Nominal flow rate with free exhaust at 6 bar (from 2 to 3)	5000 dm <sup>3</sup> /min. (ANR)	
	Wall fixing screw	M8	

### Progressive start-up valve (AP)



Example : N174BAP : size 4, Progressive start-up valve, G1" connections

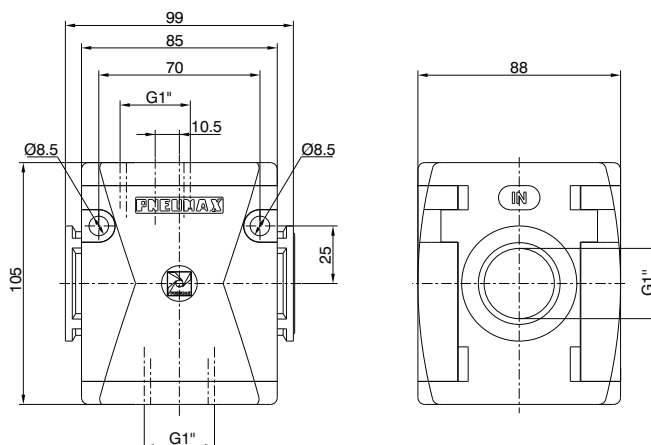
#### Operational characteristics

- Down stream circuit filling time regulated via a built in flow regulator.
- Full pressure is allowed once the down stream circuit pressure reaches 50% of the inlet pressure.

#### Technical characteristics

Connections	G1"	Ordering code
Max. inlet pressure	13 bar	<b>N174BAP<sup>①</sup></b>
Working temperature	-5°C +50°C	
Weight	1100 (gr)	<b>①</b> FLOW DIRECTION = from left to right W = from right to left
Assembly positions	Indifferent	
Min. pressure working	2,5 (bar)	
Nominal flow rate at 6 bar with $\Delta p=1$	15000 dm <sup>3</sup> /min. (ANR)	
Fully open built in flow regulator flow rate	1000 dm <sup>3</sup> /min. (ANR)	
Wall fixing screw	M8	

### Air intake (PA)



Example : N174BPA : size 4, Air intake, G1" connections

#### Operational characteristics

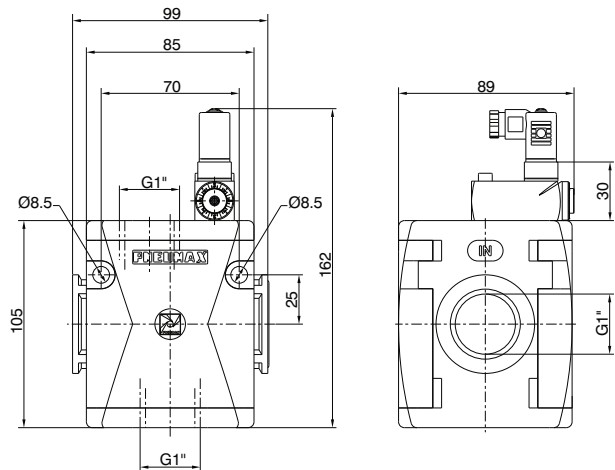
- Available with two G1" threaded connections.

#### Technical characteristics

Connections	G1"	Ordering code
Max. inlet pressure	13 bar	<b>N174BPA</b>
Working temperature	-5°C +50°C	
Weight	720 (gr)	
Assembly positions	Indifferent	
Wall fixing screw	M8	



Pressure switch (PP)



Example: N174BPP : Size 4, Pressure switch, G1" connections

Operational characteristics	Technical characteristics		
<ul style="list-style-type: none"><li>- Built in adjustable pressure switch (2 to 10 bar) with electrical connection.</li><li>- Available with two G1" threaded connections.</li><li>- The electrical connection is made by mean of a 15 mm connector DIN 43650 type C. The microswitch contact could be normally closed or open (change overswitch).</li></ul>	Connections	G1"	Ordering code
	Max. inlet pressure	13 bar	
	Working temperature	-5°C +50°C	<div><div>N174BPP</div><div>FLOW DIRECTION</div><div>= from left to right</div><div>W = from right to left</div></div>
	Weight	800 (gr)	
	Microswitch capacity	1A	
	Grade of protection (with connector assembled)	IP 65	
	Adjusting range	2 -10 bar	
	Assembly positions	Indifferent	
	Microswitch maximum tension	250 VAC	
	Wall fixing screw	M8	

Connection

1 = neutral  
2 = N.C. contact  
3 = N.O. contact

DIN 43650 type C connector