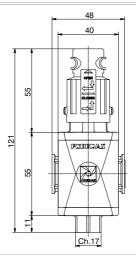


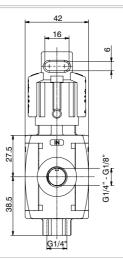
# Shut-off valve (VL)





at 6 bar with  $\Delta p = 1$ Exhaust nominal flow rate

at 6 bar with  $\Delta p = 1$ 



1400 NI/min.

550 NI/min.

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

# **Operational characteristics**

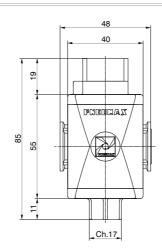
- Manual operated 3 ways poppet valve.
- Double handle action for valve opening: pushing and rotating (clockwise).
- The valve can be closed and the down stream circuit depressurized by rotating anticlockwise the knob.
- Knob lockable with three padlocks.

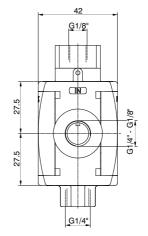
#### **Technical characteristics** G 1/8" - G 1/4" Connections Max. inlet pressure 13 bar G1/4" Discharge connection -5°C +50°C Working temperature Weight with Technopolymer threads gr. 100 Weight with threaded inserts gr. 110 Indifferent Assembly positions Handle opening and closing angle 90° Max. fitting torque G1/4" = 9 Nm (with Technopolymer threads) G1/8" = 15 Nm Max. fitting torque G1/4" = 20 Nm (with threaded inserts) Nominal flow rate

	Ordering code
	<b>Ø</b> 171 <b>@</b> VL
VE	ERSION
<b>Ø</b> N	= Metal inserts
Т	= Technopolymer thread
C	ONNECTIONS
(A	= G1/8"(only for "N" version)
В	= G1/4"
С	= 1/4 NPT(only for "N" version)

# Pneumatic shut-off valve (VP)







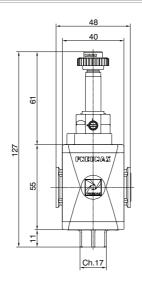
Example: T171BVP: size 1, Pneumatic shut-off valve with Technopolymer threads, G1/4" connections

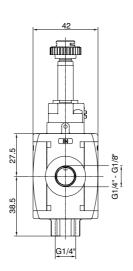
Operational characteristics	Technical characteristics		
Pneumatic operated 3 ways poppet valve.	Connections	G 1/8" - G 1/4"	Ordering code
When the pneumatic signal is removed the	Discharge connection	G1/4"	
valves exhaust the pneumatic circuit	Pilot port size	G1/8"	<b>Ø</b> 171 <b>@</b> VP
	Working temperature	-5°C +50°C	VERSION
	Weight with technopolymer threads	gr. 94	N = Metal inserts
	Weight with threaded inserts	gr. 99	T = Technopolymer thread CONNECTIONS
	Assembly positions	Indifferent	A = G1/8"(only for "N" version)
	Min. pressure working	3 bar	B = G1/4"
	Max. pressure working	10 bar	C = 1/4 NPT(only for "N" version)
	Max. fitting torque (with Technopolymer threads)	G1/4" = 9 Nm	
	Max. fitting torque	G1/8" = 15 Nm	
	(with threaded inserts)	G1/4" = 20 Nm	
	Nominal flow rate	1400 NI/min.	
	at 6 bar with Δp=1	1400 NI/IIIII.	
	Exhaust nominal flow rate	550 NI/min.	
	at 6 bar with Δp=1	OOU INI/IIIIT).	



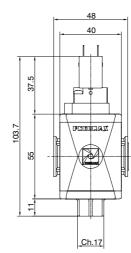
# Electric shut-off valve (VE)

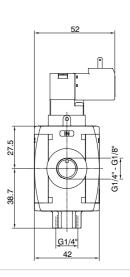












Example: T171BVEB2: size 1, Electric shut-off valve, with M2 pilot without coil, Technopolymer threads, G1/4" connections

# **Operational characteristics**

- Solenoid operated 3 ways poppet valve.
- The model fitted with 15 mm pilots uses pilots series N33\_0A and N33\_0E (1 Watt)

# **Technical characteristics**

Supply and operating connections	G 1/8" - G 1/4"	Ordering code
Discharge connections	G 1/4"	5
Working temperature	-5°C +50°C	<b>Ø</b> 171 <b>@</b> VE <b>Ø</b>
Weight with Technopolymer threads	130 g	VERSION
Weight with threaded inserts	140 g	■ N = Metal inserts
Assembly positions	Indifferent	T = Technopolymer thread
, ,		CONNECTIONS
Min. Pressure working	3 bar	A = G1/8"(only for "N" version)
Max. Pressure working	10 bar	B = G1/4"
Max. fitting torque		C = 1/4 NPT(only for "N" version)
	G1/4" = 9 Nm	15 mm COIL VOLTAGE
(with Technopolymer threads)		A4 = 12 V DC
Max. fitting torque	G1/8" = 15 Nm	A5 = 24 V DC
(with threaded inserts)	G1/4" = 20 Nm	A6 = 24 V AC (50-60 Hz)
Nominal flow rate	5.7,1 =5.1	A7 = 110 V AC (50-60 Hz)
	1400 NI/min.	A8 = 220 V AC (50-60 Hz)
at 6 bar with Δp=1		A9 = 24 V DC (1 Watt)
		22 mm COIL VOLTAGE B2 = Without coil
		M2 mechanic
		B4 = 12 V DC
		B5 = 24 V DC
		B6 = 24 V AC (50-60 Hz)
		B7 = 110 V AC (50-60 Hz)
Exhaust nominal flow rate	550 NI/min.	B8 = 220 V AC (50-60 Hz)
at 6 bar with $\Delta p = 1$	550 Ni/IIIII.	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)
		00 04 1/ D0 (0 11/-11)

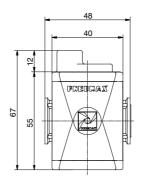
C9 = 24 V DC (2 Watt)

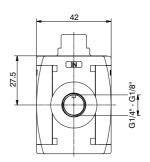
Series Airplus

Size 1

## Progressive start-up valve (AP)







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

#### **Operational characteristics Technical characteristics** G 1/8" - G 1/4" Down stream circuit filling time regulated via a built Connections Ordering code in flow regulator. Max. inlet pressure 13 bar **Ø**171**@**AP -5°C +50°C Full pressure is allowed once the down stream circuit Working temperature pressure reaches 50% of the inlet pressure. Weight with Technopolymer threads gr. 70 VERSION N = Metal inserts Weight with threaded inserts gr. 80 T = Technopolymer thread Max. fitting torque CONNECTIONS G1/4" = 9 Nm (with Technopolymer threads) A = G1/8"(only for "N" version) B = G1/4" Max. fitting torque G1/8" = 15 NmC = 1/4 NPT(only for "N" version) (with threaded inserts) G1/4" = 20 NmAssembly positions Indifferent Min. pressure working 2,5 bar

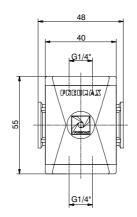
Nominal flow rate

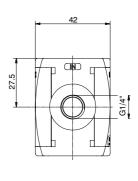
at 6 bar with  $\Delta p = 1$ Fully open built in flow

regulator flow rate

# Air intake (PA)







1400 NI/min.

75 NI/min.

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

Operational characteristics	Technical characteristics	Technical characteristics		
Available with two G1/4" threaded connections.	Connections	G 1/4"	Ordering code	
Attenction For this product are available only Technopolymer connections	Max. inlet pressure	13 bar		
	Working temperature	-5°C +50°C	T171BPA	
	Weight	gr. 52		
	Assembly positions	Indifferent		
	Max. fitting torque	G1/4" = 9 Nm		
	(with Technopolymer threads)	G1/4 = 9 NIII		

Ordering code

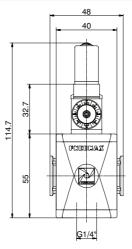
T171BPP

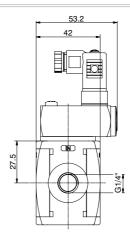
# Pressure switch (PP)

Size 1

Series Airplus







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).

#### Attenction

Connection

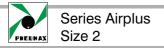
For this product are available only Technopolymer connections

# **Technical characteristics**

1 = neutral

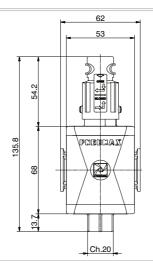
Connections	G 1/4"
Max. inlet pressure	13 bar
Working temperature	-5°C +50°C
Weight	gr. 138
Microswitch capacity	1A
Grade of protection	IP 65
(with connector assembled)	11 05
Adjusting range	2 -10 bar
Assembly positions	Indifferent
Max. fitting torque	G1/4" = 9 Nm
(with Technopolymer threads)	G1/4 = 9 NIII
Microswitch maximum tension	250 VAC

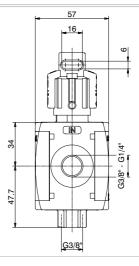
2 = N.C. contact 3 = N.O. contact DIN 43650 type C connector



# Shut-off valve (VL)







1500 NI/min.

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**

at 6 bar with  $\Delta p = 1$ 

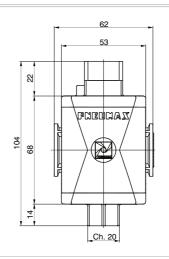
Connections	G 1/4" - G 3/8"
Max. inlet pressure	13 bar
Discharge connection	G3/8"
Working temperature	-5°C ÷ +50°C
Weight with Technopolymer threads	gr. 180
Weight with threaded inserts	gr. 190
Assembly positions	Indifferent
Handle opening and closing angle	90°
Max. fitting torque (with Technopolymer threads)	G3/8" = 16 Nm
Max. fitting torque	G1/4" = 20 Nm
(with threaded inserts)	G3/8" = 25 Nm
Nominal flow rate at 6 bar with Δp=1	2200 NI/min.
Exhaust nominal flow rate	1500 NII/min

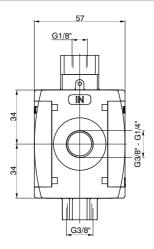
<b>Ø172@VL</b> VERSION		Ordering code
VERSION		<b>Ø</b> 172 <b>@</b> VL
		VERSION
▼ N = Metal inserts	V	N = Metal inserts
T = Technopolymer thread		T = Technopolymer thread
CONNECTIONS		CONNECTIONS
A = G1/4"(only for "N" version)	<u>_</u>	A = G1/4"(only for "N" version)
B = G3/8"	•	B = G3/8"
C = 3/8 NPT(only for "N" version)		C = 3/8 NPT(only for "N" version)



# Pneumatic shut-off valve (VP)







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

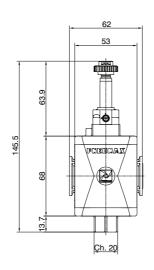
Operational characteristics	Technical characteristics		
Pneumatic operated 3 ways poppet valve.	Connections	G 1/4" - G 3/8"	Ordering code
When the pneumatic signal is removed the	Discharge connection	G3/8"	_
alves exhaust the pneumatic circuit	Pilot port size	G1/8"	<b>Ø</b> 172 <b>@</b> VP
	Working temperature	-5°C +50°C	VERSION
	Weight with technopolymer threads	gr. 173	N = Metal inserts
	Weight with threaded inserts	gr. 181	T = Technopolymer threa CONNECTIONS
	Assembly positions	Indifferent	A = G1/4"(only for "N" version)
	Min. pressure working	2,5 bar	B = G3/8"
	Max. pressure working	10 bar	C = 3/8 NPT(only for "N" version
	Max. fitting torque	G3/8" = 16 Nm	
	(with Technopolymer threads)		
	Max. fitting torque	G1/4" = 20 Nm	
	(with threaded inserts)	G3/8" = 25 Nm	
	Nominal flow rate	0000 NII/min	
	at 6 bar with Δp=1	2200 NI/min.	
	Exhaust nominal flow rate	1500 NII/min	
	at 6 har with An-1	1500 NI/min.	

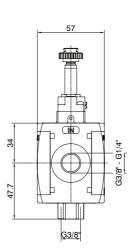
at 6 bar with  $\Delta p = 1$ 



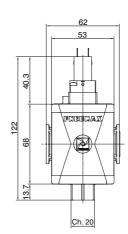
# Electric shut-off valve (VE)

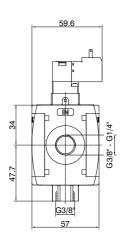












C9 = 24 V DC (2 Watt)

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

# Operational characteristics

- Solenoid operated 3 ways poppet valve.
- The model fitted with 15 mm pilots uses pilots series N33\_0A and N33\_0E (1 Watt)

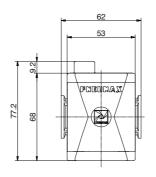
Technical characteristics			
Supply and operating connections	G 1/4" - G 3/8"	Ordering code	
Discharge connections	G 3/8"	<b>Ø</b> 172 <b>@</b> VE <b>Ø</b>	
Working temperature	-5°C +50°C		
Weight with Technopolymer threads	200 g	VERSION	
Weight with threaded inserts	210 g	■ N = Metal inserts	
Assembly positions	Indifferent	T = Technopolymer th	
Min. Pressure working	2.5 bar	CONNECTIONS  A = G1/4"(only for "N" version	
Max. Pressure working	10 bar	B = G3/8"	
	10 Dai	C = 3/8 NPT(only for "N" vei	
Max. fitting torque	G3/8"= 16 Nm	15 mm COIL VOLTAGE	
(with Technopolymer threads)	3.3,5	A4 = 12 V DC	
Max. fitting torque	G1/4" = 20 Nm	A5 = 24 V DC	
(with threaded inserts)	G3/8" = 25 Nm	A6 = 24 V AC (50-60 H	
,	G0/0 = 23 14III	A7 = 110 V AC (50-60 A8 = 220 V AC (50-60	
Nominal flow rate	w rate 2200 NI/min.		
at 6 bar with ∆p=1		A9 = 24 V DC (1 Watt)	
		22 mm COIL VOLTAGE	
		B2 = Without coil M2 mechanic	
		B4 = 12 V DC	
		B5 = 24  V DC	
		B6 = 24 V AC (50-60 H	
		B7 = 110 V AC (50-60	
Exhaust nominal flow rate	1500 NI/min.	B8 = 220 V AC (50-60	
at 6 bar with ∆p=1	1000 14,711111	B9 = 24 V DC (2 Watt)	
		30 mm COIL VOLTAGE	
		C5 = 24 V DC	
		C6 = 24 V AC (50-60 H	
		C7 = 110 V AC (50-60	
		C8 = 230 V AC (50-60	

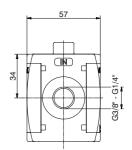
Series Airplus

Size 2

# Progressive start-up valve (AP)







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

# **Operational characteristics** - Down stream circuit filling time regulated via a built

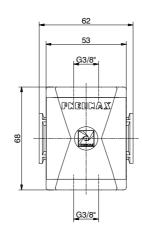
in flow regulator. Full pressure is allowed once the down stream circuit pressure reaches 50% of the inlet pressure.

lecillical characteristics	
Connections	G 1/4" - G 3/8"
Max. inlet pressure	13 bar
Working temperature	-5°C +50°C
Weight with Technopolymer threads	gr. 140
Weight with threaded inserts	gr. 150
Max. fitting torque	G3/8" = 16 Nm
(with Technopolymer threads)	G5/0 = 10 Mill
Max. fitting torque	G1/4" = 20 Nm
(with threaded inserts)	G3/8" = 25 Nm
Assembly positions	Indifferent
Min. pressure working	2,5 bar
Nominal flow rate	2200 NI/min.
at 6 bar with Δp=1	ZZOU INI/IIIIII.

	Ordering code
	<b>Ø</b> 172 <b>@</b> AP
•	VERSION N = Metal inserts
V	T = Technopolymer thread
	CONNECTIONS
<u> </u>	A = G1/4"(only for "N" version)
9	B = G3/8"
	C = 3/8 NPT(only for "N" version)

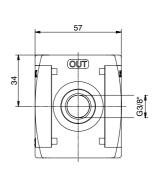
# Air intake (PA)





Fully open built in flow

regulator flow rate



200 NI/min.

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

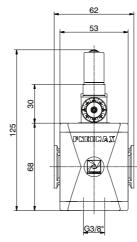
Operational characteristics	Technical characteristics	Technical characteristics		
Available with two G3/8" threaded connections.	Connections	G 3/8"	Ordering code	
Attenction For this product are available only Technopolymer connections	Max. inlet pressure	13 bar	T172BPA	
	Working temperature	-5°C +50°C		
	Weight	gr. 95,5		
	Assembly positions	Indifferent		
	Max. fitting torque	G3/8" = 16 Nm		
	(with Technopolymer threads)	G3/6 = 16 NIII		

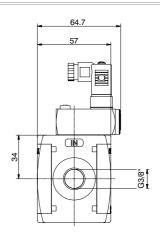
Ordering code

T172BPP

# 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).

## Attenction

Connection

For this product are available only Technopolymer connections

# **Technical characteristics**

Connections	G 3/8"	
Max. inlet pressure	13 bar	
Working temperature	-5°C +50°C	
Weight	gr. 179	
Microswitch capacity	1A	
Grade of protection	IP 65	
(with connector assembled)	11- 65	
Adjusting range	2 -10 bar	
Assembly positions	Indifferent	
Max. fitting torque	00/01 40 11	
(with Technopolymer threads)	G3/8" = 16 Nm	
Microswitch maximum tension	250 VAC	

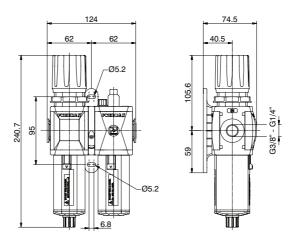
DIN 43650 type C connector

3

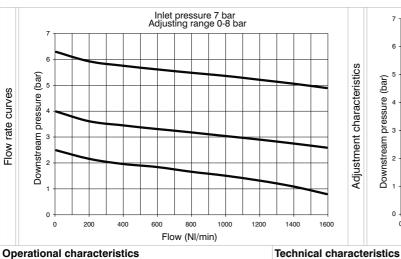


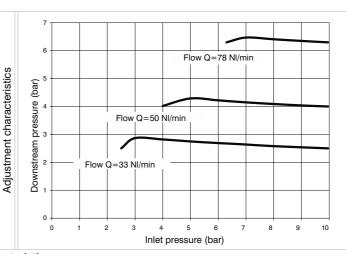
## Service unit assembled (EM+L) (E+L) (EW+L)





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





70 NI/min.

# **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.

G 1/4" - G 3/8"	
13 bar	
-5°C +50°C	
gr. 643	
gr. 663	V
0-2 bar / 0-4 bar	-
0-8 bar / 0-12 bar	•
5 μm - 20 μm - 50 μm	
34 cm <sup>3</sup>	$\vdash$
1 drop every	•
300/600 NI	
FD22 - HG32	
70 cm <sup>3</sup>	
Vertical	6
00/01 40 N	"
G3/8" = 16 NM	
G1/4" = 20 Nm	1_
G3/8" = 25 Nm	
	13 bar -5°C +50°C gr. 643 gr. 663 0-2 bar / 0-4 bar 0-8 bar / 0-12 bar 5 μm - 20 μm - 50 μm 34 cm³ 1 drop every 300/600 NI FD22 - HG32 70 cm³ Vertical G3/8" = 16 Nm

Min. operational flow at 6,3 bar

# Ordering code

# G**Ø**172**@G©**3**@0@** VERSION N = Metal inserts

T = Technopolymer thread

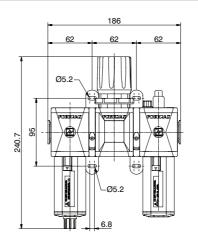
CONNECTIONS

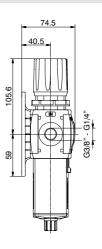
Θ	A = G1/4"(only for "N" version)
	B = G3/8"
	C = 3/8 NPT(only for "N" version)
	TYPE
Ū	H =Built in gauge
	J = G1/8" gauge connection
	FILTER PORE SIZE
	ADJUSTING RANGE
	$C = 5 \mu m / 0-8 bar$
	D = 5 µm / 0-12 har

- $D = 5 \mu m / 0-12 bar$  $G = 20 \,\mu \text{m} / 0-8 \,\text{bar}$  $H = 20 \,\mu m / 0-12 \,bar$  $N = 50 \, \mu \text{m} / 0.8 \, \text{bar}$  $P = 50 \,\mu m / 0.12 \,bar$
- 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

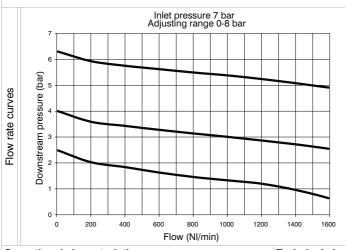
## Service unit assembled (F+RM+L) (F+R+L) (F+RW+L)

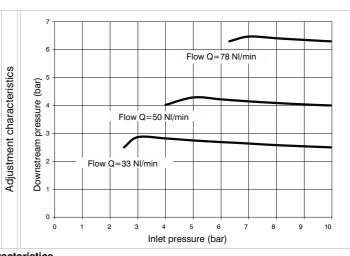






Example: GT172BKG: size 2 combined group comprising Filter, Regulator and Lubricator Technopolymer threads, G3/8" connections, 0 to 8 bar adjusting range and 20  $\mu$ m filter pore size





# 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

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	V		
Procedure range	0-2 bar / 0-4 bar	-		
Pressure range	0-8 bar / 0-12 bar	0		
Filter pore size	5 μm - 20 μm - 50 μm	•		
Bowl capacity	34 cm <sup>3</sup>	_		
Indicative oil drop rate	1 drop every	O		
indicative oil drop rate	300/600 NI			
Oil type	FD22 - HG32			
Bowl capacity	70 cm <sup>3</sup>			
Assembly positions	Vertical	8		
Max. fitting torque	00/01 40 N			
(with Technopolymer threads)	G3/8" = 16 Nm			
Max. fitting torque	G1/4" = 20 Nm			
(with threaded inserts)	G3/8" = 25 Nm			
Min. operational flow at 6.3 har	70 NI/min	•		
Min. operational flow at 6,3 bar	70 NI/min.	0		

Ordering code

# G**Ø**172**GG**S**002**

	VERSION
V	N = Metal inserts
	T = Technopolymer thread
	CONNECTIONS

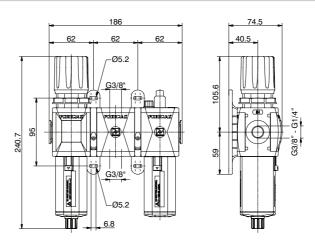
- A = G1/4"(only for "N" version)
  B = G3/8"
  C = 3/8 NPT(only for "N" version)

  TYPE
- K = Built in gauge
  T = G1/8" gauge connection
  FILTER PORE SIZE
  ADJUSTING RANGE
- $C = 5 \mu m / 0.8 \text{ bar}$   $D = 5 \mu m / 0.12 \text{ bar}$   $G = 20 \mu m / 0.8 \text{ bar}$   $H = 20 \mu m / 0.12 \text{ bar}$
- $N = 50 \,\mu m / 0.8 \text{ bar}$   $P = 50 \,\mu m / 0.12 \text{ bar}$ 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
- BOWL OPTIONS
  = Standard \*
  N = Nylon bowl
  - \* no additional letter required

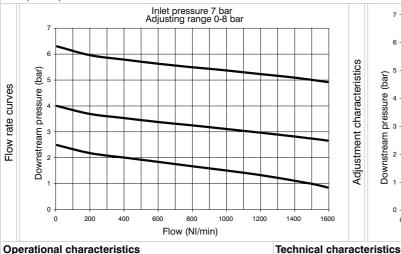


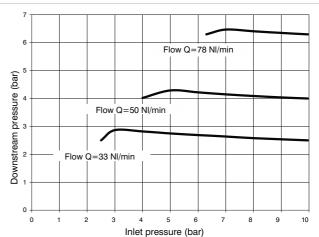
# Service unit assembled (EM+PA+L) (E+PA+L) (EW+PA+L)





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  $\mu$ m filter pore size





G 1/4" - G 3/8"

13 bar

-5°C +50°C

gr. 771,5

gr. 791,5

0-2 bar / 0-4 bar

70 NI/min.

# **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)

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.

Connections
Max. inlet pressure
Working temperature
Weight with Technopolymer threads

Weight with threaded inserts

Adjustment characteristics

Pressure range 0-8 bar / 0-12 bar 5 μm - 20 μm - 50 μm Filter pore size 34 cm<sup>3</sup> Bowl capacity 1 drop every Indicative oil drop rate 300/600 NI FD22 - HG32 Oil type 70 cm<sup>3</sup> Bowl capacity Assembly positions Vertical Max. fitting torque G3/8" = 16 Nm (with Technopolymer threads) G1/4" = 20 Nm Max. fitting torque G3/8" = 25 Nm (with threaded inserts)

Min. operational flow at 6,3 bar

## Ordering code

# GØ172@@S@@@

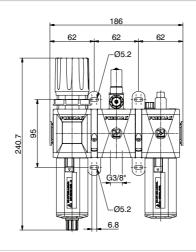
VERSION

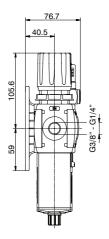
	V	N = Metal inserts		
		T = Technopolymer thread		
		CONNECTIONS		
	•	A = G1/4"(only for "N" version)		
	G	B = G3/8"		
		C = 3/8 NPT(only for "N" version)		
		TYPE		
	Ū	N = Built in gauge		
		P = G1/8" gauge connection		
		FILTER PORE SIZE		
		ADJUSTING RANGE		
		$C = 5 \mu m / 0-8 bar$		

- **S**  $D = 5 \mu \text{m} / 0.12 \text{ bar}$  $G = 20 \,\mu m / 0-8 \,bar$  $H = 20 \,\mu m / 0-12 \,bar$  $N = 50 \, \mu \text{m} / 0.8 \, \text{bar}$  $P = 50 \, \mu \text{m} / 0 - 12 \, \text{bar}$ 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

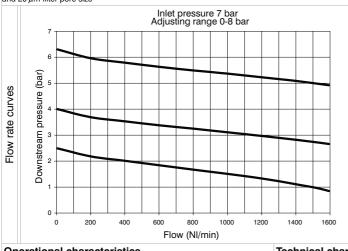
## Service unit assembled (EM+PP+L) (E+PP+L) (EW+PP+L)

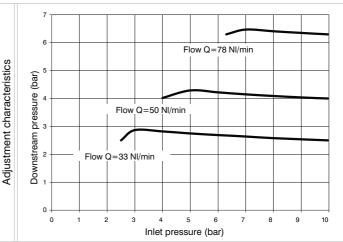






Example : GT172BRG : size 2 combined group comprising Filter-Regulator, Pressure switch and Lubricator Technopolymer threads, G3/8" connections 0 to 8 bar adjusting range and 20  $\mu$ m filter pore size





# 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	V	
Pressure range	0-2 bar / 0-4 bar		
rressure range	0-8 bar / 0-12 bar		
Filter pore size	5 μm - 20 μm - 50 μm	•	
Bowl capacity	34 cm <sup>3</sup>		
Indicative all drap rate	1 drop every	0	
Indicative oil drop rate	300/600 NI		
Oil type	FD22 - HG32		
Bowl capacity	70 cm <sup>3</sup>		
Assembly positions	Vertical	8	
Max. fitting torque	00/00 40 11		
(with Technopolymer threads)	G3/8" = 16 Nm		
Max. fitting torque	G1/4" = 20 Nm		
(with threaded inserts)	G3/8" = 25 Nm		
Min. operational flow at 6,3 bar	70 NI/min.	•	
wiii. Operational now at 0,3 bai	/ U INI/IIIIII.		
		0	

# Ordering code

# G**Ø**172**GG**S**002**

	VERSION
V	N = Metal inserts
	T = Technopolymer thread
	CONNECTIONS
	A = C1/4"

- 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 =  $5 \mu m / 0.8$  bar D =  $5 \mu m / 0.12$  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 NO
    C = Min.oil level indicator NC
    S = Automatic drain
    SA = 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

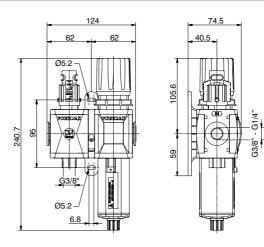
  = Standard \*

  N = Nylon bowl
  - \* no additional letter required

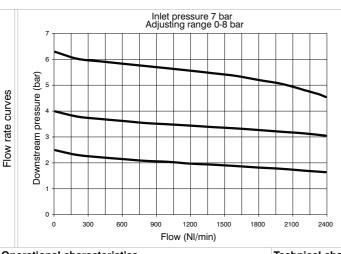


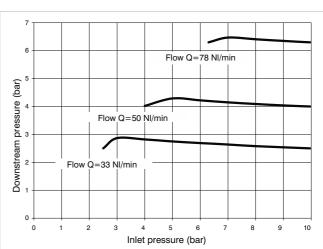
# Service unit assembled (VL+EM) (VL+E) (VL+EW)





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  $\mu$ m filter pore size





# **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**

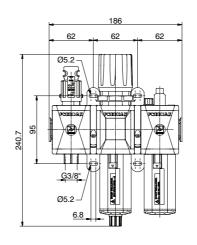
Adjustment characteristics

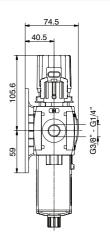
Connections	G 1/4" - G 3/8"	Ordering code		
Max. inlet pressure	13 bar			
Working temperature -5°C +50°C			G <b>Ø</b> 172 <b>@@</b> \$@ <b>@</b> Ø	
Weight with Technopolymer threads	gr. 613		VERSION	
Weight with threaded inserts	gr. 633	V	N = Metal inserts	
	0-2 bar / 0-4 bar	_	T = Technopolymer thread	
Pressure range	0-8 bar / 0-12 bar		CONNECTIONS  A = G1/4"(only for "N" version)	
Filter pore size	5 μm - 20 μm - 50 μm	•	B = G3/8"	
Bowl capacity	34 cm <sup>3</sup>	_	C = 3/8 NPT(only for "N" version)	
20 m supusity	1 drop every	•	TYPE VG = Built in gauge	
Indicative oil drop rate	300/600 NI	J	VU = G1/8" gauge connection	
Oil turns	FD22 - HG32	+	FILTER PORE SIZE	
Oil type		_	ADJUSTING RANGE	
Bowl capacity	70 cm <sup>3</sup>		$C = 5 \mu m / 0-8 bar$	
Assembly positions	Vertical	8	$D = 5 \mu m / 0-12 bar$	
Max. fitting torque			$G = 20 \mu\text{m} / 0-8 \text{bar}$	
(with Technopolymer threads)	G3/8"= 16 Nm		$H = 20 \mu\text{m} / 0.12 \text{bar}$	
, , ,	04/48 00 N	-	$N = 50 \mu\text{m} / 0.8 \text{ bar}$ $P = 50 \mu\text{m} / 0.12 \text{ bar}$	
Max. fitting torque	G1/4" = 20 Nm		OPTIONS	
(with threaded inserts)	G3/8" = 25 Nm	0	= Standard *	
			S = Automatic drain	
			FLOW DIRECTION	
			= Standard	
Min. operational flow at 6,3 bar	70 NI/min.	0	(from left to right)	
Will operational now at 0,0 bar	70 Millin.		W = from right to left	
			BOWL OPTIONS	
		<b>Ø</b>	= Standard *	
			N = Nylon bowl	

\* no additional letter required

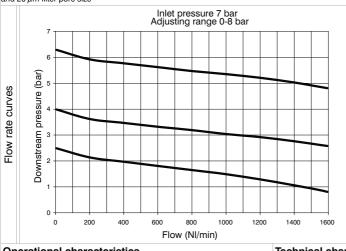
# Service unit assembled (VL+EM+L) (VL+E+L) (VL+EW+L)

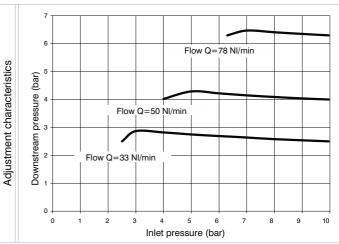






Example: GT172BVHG: size 2 combined group comprising Shut-off valve, Filter-regulator and Lubricator Technopolymer threads, G3/8" connections 0 to 8 bar adjusting range and  $20~\mu m$  filter pore size





# 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	V	
Pressure range	0-2 bar / 0-4 bar		
r ressure range	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	0	
indicative oil drop rate	300/600 NI		
Oil type	FD22 - HG32		
Bowl capacity	70 cm <sup>3</sup>		
Assembly positions	Vertical		
Max. fitting torque	00/01 40 N		
(with Technopolymer threads)	G3/8" = 16 Nm		
Max. fitting torque	G1/4" = 20 Nm		
(with threaded inserts)	G3/8" = 25 Nm		
Min. operational flow at 6,3 bar	70 NI/min.	•	
wiiii. Operational now at 0,3 bai	7 O INI/IIIIII.		
		0	

# Ordering code

#### G**Ø**172**@@©@**

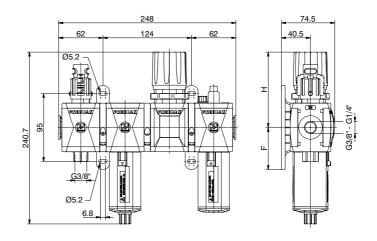
	VLHOION
V	N = Metal inserts
	T = Technopolymer thread
	CONNECTIONS
	. 04/48

- 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  $C = 5 \mu m / 0-8 bar$  $D = 5 \mu m / 0-12 bar$
- $G = 20 \,\mu m / 0-8 \,bar$  $H = 20 \, \mu m / 0 - 12 \, bar$  $N = 50 \, \mu \text{m} / 0.8 \, \text{bar}$  $P = 50 \,\mu m / 0-12 \,bar$
- 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



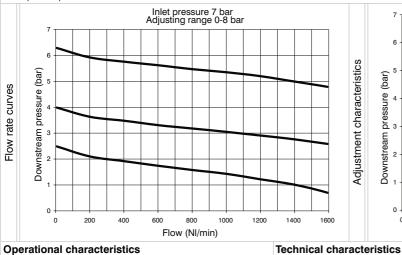
# Service unit assembled (VL+F+RM+L) (VL+F+R+L) (VL+F+RW+L)

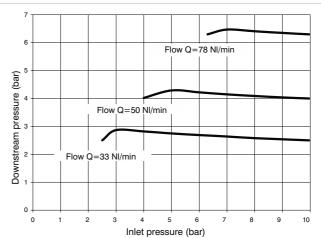




Example : GT172BVKG : size 2 combined group comprising Shut-off valve, Filter, Regulator and Lubricator Technopolymer threads, G3/8" connections 0 to 8 bar adjusting range and 20  $\mu$ m filter pore size

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.

Connections	G 1/4" - G 3/8"	
Max. inlet pressure	13 bar	
Working temperature	-5°C +50°C	
Weight with Technopolymer threads	gr. 997	
Weight with threaded inserts	gr. 1037	V
Pressure range	0-2 bar / 0-4 bar	
- Tressure range	0-8 bar / 0-12 bar	e
Filter pore size	5 μm - 20 μm - 50 μm	•
Bowl capacity	34 cm <sup>3</sup>	$\vdash$
Indicative oil drop rate	1 drop every	O
indicative oil drop rate	300/600 NI	
Oil type	FD22 - HG32	
Bowl capacity	70 cm <sup>3</sup>	
Assembly positions	Vertical	6
Max. fitting torque	00/01 40 N	] -
(with Technopolymer threads)	G3/8" = 16 Nm	
Max. fitting torque	G1/4" = 20 Nm	
(with threaded inserts)	G3/8" = 25 Nm	
		•

Min. operational flow at 6,3 bar	70 NI/mir

# Ordering code G**Ø**172**00**S**00**

	VERSION
V	N = Metal inserts
	T = Technopolymer thread
	CONNECTIONS
•	A = G1/4"(only for "N" version)
G	B = G3/8"
	C = 3/8 NPT(only for "N" version)
	C C/C (Citily for 14 Version)

	TYPE
Ū	VK = Built in gauge
	VT = G1/8" gauge connection
	FILTER PORE SIZE
	ADJUSTING RANGE
	$C = 5 \mu m / 0-8 bar$
	D F / 0 40 h

	$C = 5 \mu m / 0-8 bar$
8	$D = 5 \mu m / 0-12 bar$
•	$G = 20 \mu m / 0-8 bar$
	$H = 20 \mu m / 0-12 bar$
	$N = 50  \mu \text{m} / 0-8  \text{bar}$
	$P = 50 \mu m / 0 - 12 bar$
	OPTIONS
	= Standard *
	A = Min.oil level indicator NO
	0 14: "11 1: " 1 1:0"

	C = Min.oil level indicator NC
$\odot$	S = Automatic drain
	SA = Automatic drain +
	Min.oil level indicator NC
	SC = Automatic drain +
	Min.oil level indicator NC

		minion for or in alou
	Ð	FLOW DIRECTION
		= Standard
		(from left to right)
		W = from right to left

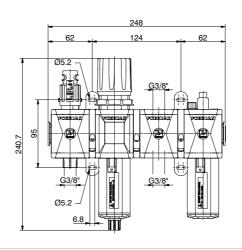
0	= Standard
•	(from left to right)
	W = from right to left
	BOWL OPTIONS
2	= Standard *

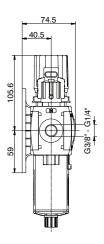
N = Nylon bowl

\* no additional letter required

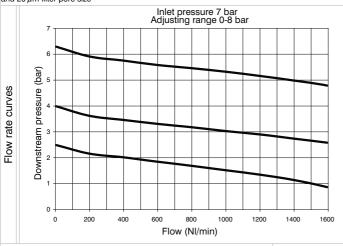
## Service unit assembled (VL+EM+PA+L) (VL+E+PA+L) (VL+EW+PA+L)

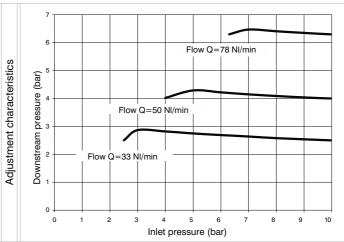






Example: GT172BVNG: size 2 combined group comprising Shut-off valve, Filter-regulator, Air intake and Lubricator Technopolymer threads, G3/8" connections 0 to 8 baradjusting range and 20  $\mu$ m filter pore size





# 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	V
Pressure range	0-2 bar / 0-4 bar	
Fressule range	0-8 bar / 0-12 bar	0
Filter pore size	5 μm - 20 μm - 50 μm	•
Bowl capacity	34 cm³	-
Indicative oil drop rate	1 drop every	Ū
indicative oil drop rate	300/600 NI	
Oil type	FD22 - HG32	
Bowl capacity	70 cm <sup>3</sup>	
Assembly positions	Vertical	8
Max. fitting torque	00/01 40 N	
(with Technopolymer threads)	G3/8" = 16 Nm	
Max. fitting torque	G1/4" = 20 Nm	
(with threaded inserts)	G3/8" = 25 Nm	
Min. operational flow at 6,3 bar	70 NI/min.	•
		0

\* no additional letter required

FLOW DIRECTION

= Standard
(from left to right)
W = from right to left
BOWL OPTIONS
= Standard \*
N = Nylon bowl

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

Ordering code

G**Ø**172**@@©@** 

T = Technopolymer thread

$$\begin{split} A &= G1/4\text{"(only for "N" version)} \\ B &= G3/8\text{"} \\ C &= 3/8 \ NPT \text{(only for "N" version)} \end{split}$$

VN = Built in gauge VP = G1/8" gauge connection

FILTER PORE SIZE ADJUSTING RANGE  $C = 5 \mu m / 0.8 \text{ bar}$   $D = 5 \mu m / 0.12 \text{ bar}$   $G = 20 \mu m / 0.8 \text{ bar}$   $H = 20 \mu m / 0.12 \text{ bar}$   $N = 50 \mu m / 0.8 \text{ bar}$   $P = 50 \mu m / 0.12 \text{ bar}$  OPTIONS = Standard \*

VERSION
N = Metal inserts

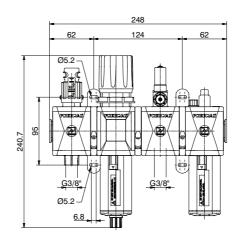
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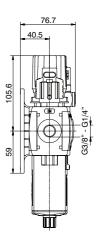
CONNECTIONS



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

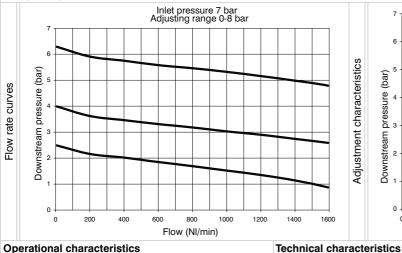


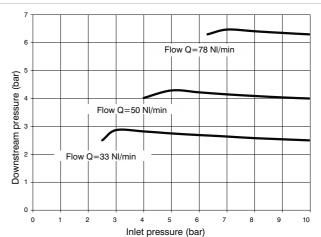




Example: GT172BVRG: size 2 combined group comprising Shut-off valve, Filter-regulator, Pressure switch and Lubricator Technopolymer threads, G3/8" connections adjusting range 0 to 8 bar and 20  $\mu$ m filter pore size

Adjustment characteristics





70 NI/min.

# **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.

recillical 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	V
Pressure range	0-2 bar / 0-4 bar	-
Tressure range	0-8 bar / 0-12 bar	e
Filter pore size	5 μm - 20 μm - 50 μm	_
Bowl capacity	34 cm <sup>3</sup>	-
Indicative oil drop rate	1 drop every	G
indicative oil drop rate	300/600 NI	
Oil type	FD22 - HG32	
Bowl capacity	70 cm <sup>3</sup>	
Assembly positions	Vertical	6
Max. fitting torque	00/01 40 N	1
(with Technopolymer threads)	G3/8" = 16 Nm	
Max. fitting torque	G1/4" = 20 Nm	
(with threaded inserts)	G3/8" = 25 Nm	
		•

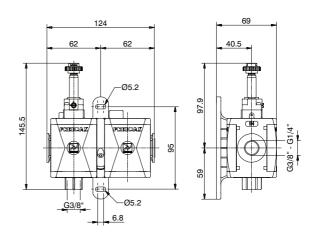
	Ordering code
	G <b>Ø</b> 172 <b>@@</b> \$@ <b>@</b>
	VERSION
Ø	N = Metal inserts
	T = Technopolymer thread
	CONNECTIONS
0	A = G1/4"(only for "N" version)
•	B = G3/8"
	C = 3/8 NPT(only for "N" version)
-	TYPE
Û	
	VC = G1/8" gauge connection
1	FILTER PORE SIZE
-	ADJUSTING RANGE
	$C = 5 \mu m / 0-8 bar$
8	$D = 5 \mu m / 0-12 bar$
1	$G = 20 \mu m / 0-8 bar$
	$H = 20 \mu m / 0-12 bar$
	$N = 50 \mu m / 0-8 bar$
	$P = 50 \mu m / 0-12 bar$
	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
0	= Standard
	(from left to right)
	W = from right to left
	BOWL OPTIONS
0	= Standard *
	N = Nylon bowl
	* no additional

letter required

Min. operational flow at 6,3 bar

# Service unit assembled (VE+AP)





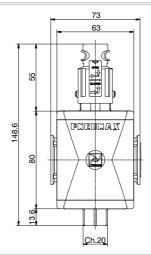
Example: GT172BSB2: size 2 combined group comprising Electric shut-off valve, Progressive start-up valve without coil with M2 pilot Technopolymer threads, G3/8" connections

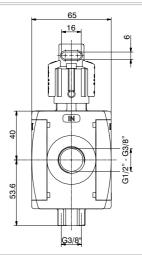
Operational characteristics	Technical characteristics			
Combined group comprising Electric shut - off valve and	Connections	G 1/4" - G 3/8"		Ordering code
Progressive start-up valve assembled with a (Y) type coupling kit	Max. inlet pressure	10 bar		
or panel mounting.	Min. inlet pressure	2.5 bar	<b>GØ</b> 172 <b>©</b> S <b>Ø</b>	
	Working temperature	-5°C +50°C		VERSION
	Weight with Technopolymer threads	gr. 373	V	N = Metal inserts
	Weight with threaded inserts	gr. 393		T = Technopolymer threa
	Assembly positions	Indifferent		CONNECTIONS  A = G1/4"(only for "N" version)
	Max. fitting torque		•	B = G3/8"
	(with Technopolymer threads)	G3/8" = 16 Nm		C = 3/8 NPT(only for "N" version
	, , ,	G1/4" = 20 Nm		15 mm COIL VOLTAGE
	Max. fitting torque			A4 = 12 V DC A5 = 24 V DC
	(with threaded inserts)	G3/8" = 25 Nm		A6 = 24 V AC (50-60 Hz)
	Flow at 6 bar with $\Delta p=1$	1800 NI/min.	A	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 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)



# Shut-off valve (VL)







1500 NI/min.

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

Exhaust nominal flow rate

at 6 bar with ∆p=1

Connections	G 3/8" - G 1/2"
Max. inlet pressure	13 bar
Discharge connection	G3/8"
Working temperature	-5°C +50°C
Weight with Technopolymer threads	gr. 230
Weight with threaded inserts	gr. 250
Assembly positions	Indifferent
Handle opening and closing angle	90°
Max. fitting torque	G1/2" = 22 Nm
(with Technopolymer threads)	G1/2 - 22 NIII
Max. fitting torque	G3/8" = 25 Nm
(with threaded inserts)	G1/2" = 30 Nm
Nominal flow rate	3600 NI/min.
at 6 bar with Δp=1	SOUU INI/ITIITI.

VERSION
N = Metal inserts
T = Technopolymer thread

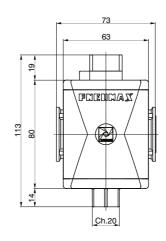
CONNECTIONS
A = G3/8"(only for ™ version)
B = G1/2"
C = 1/2 NPT(only for ™ version)

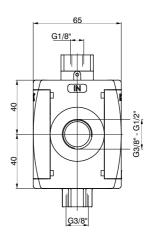
Ordering code



# Pneumatic shut-off valve (VP)







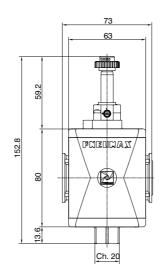
Example: T173BVP: size 3, Pneumatic shut-off valve with Technopolymer threads, G1/2" connections

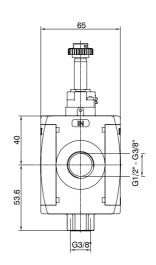
Operational characteristics	Technical characteristics		
- Pneumatic operated 3 ways poppet valve.	Connections	G 3/8" - G 1/2"	Ordering code
- When the pneumatic signal is removed the	Discharge connection	G3/8"	
valves exhaust the pneumatic circuit	Pilot port size	G1/8"	<b>Ø</b> 173 <b>@</b> VP
	Working temperature	-5°C +50°C	VERSION
	Weight with technopolymer threads	gr. 254	N = Metal inserts
	Weight with threaded inserts	gr. 270	T = Technopolymer thread CONNECTIONS
	Assembly positions	Indifferent	A = G3/8"(only for "N" version)
	Min. pressure working	2,5 bar	B = G1/2"
	Max. pressure working	10 bar	C = 1/2 NPT(only for "N" version)
	Max. fitting torque	G1/2" = 22 Nm	
	(with Technopolymer threads)	G1/2 = 22 Nm	
	Max. fitting torque	G3/8" = 25 Nm	
	(with threaded inserts)	G1/2" = 30 Nm	
	Nominal flow rate	0000 NII/	
	at 6 bar with Δp=1	3600 NI/min.	
	Exhaust nominal flow rate		
	at 6 bar with Δp=1	1500 NI/min.	



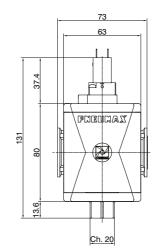
# Electric shut-off valve (VE)

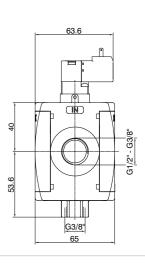












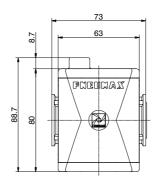
Example: T173BVEB2: size 3, Electric shut-off valve, with M2 Pilot without coil, Technopolymer threads, G1/2" connections

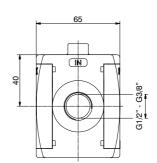
Operational characteristics	Technical characteristics		
Solenoid operated 3 ways poppet valve.	Supply and operating connections	G 3/8" - G 1/2"	Ordering code
The model fitted with 15 mm pilots uses pilots series	Discharge connections	G 3/8"	
N33_0A and N33_0E (1 Watt)	Working temperature	-5°C +50°C	<b>Ø</b> 173 <b>@</b> VE <b>Ø</b>
	Weight with Technopolymer threads	290 g	VERSION
	Weight with threaded inserts	310 g	■ N = Metal inserts
	Assembly positions	Indifferent	T = Technopolymer threa  CONNECTIONS
	Min. Pressure working	2,5 bar	A = C2/0",
	Max. Pressure working	10 bar	B = G1/2"
	Max. fitting torque		C = 1/2 NPT(only for "N" version
	(with Technopolymer threads)	G1/2" = 22 Nm	15 mm COIL VOLTAGE A4 = 12 V DC
	, ,	G3/8" = 30 Nm	A5 = 24 V DC
	Max. fitting torque	1	A6 = 24 V AC (50-60 Hz)
	(with threaded inserts)	G1/2" = 25 Nm	A7 = 110 V AC (50-60 Hz
	Nominal flow rate	3600 NI/min.	A8 = 220 V AC (50-60 Hz
	at 6 bar with $\Delta p=1$	0000 141/111111.	A9 = 24 V DC (1 Watt)
	Exhaust nominal flow rate at 6 bar with $\Delta p = 1$	1500 NI/min.	22 mm COIL VOLTAGE B2 = Without coil M2 mechanic 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)



## Progressive start-up valve (AP)







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

## **Operational characteristics**

# - Down stream circuit filling time regulated via a built in flow regulator.

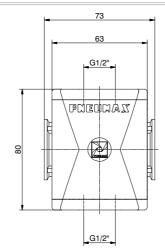
- Full pressure is allowed once the down stream circuit pressure reaches 50% of the inlet pressure.

#### **Technical characteristics** G 3/8" - G 1/2" Connections Max. inlet pressure 13 bar -5°C +50°C Working temperature Weight with Technopolymer threads gr. 220 Weight with threaded inserts gr. 240 Max. fitting torque G1/2" = 22 Nm(with Technopolymer threads) Max. fitting torque G3/8" = 25 Nm(with threaded inserts) G1/2" = 30 NmAssembly positions Indifferent Min. pressure working 2,5 bar Nominal flow rate 3600 NI/min. at 6 bar with $\Delta p = 1$

Ordering code		
	<b>Ø</b> 173 <b>@</b> AP	
	VERSION	
V	N = Metal inserts	
	T = Technopolymer thread	
	CONNECTIONS	
A = G3/8"(only for "N" version)		
•	B = G1/2"	
	C = 1/2 NPT(only for "N" version)	

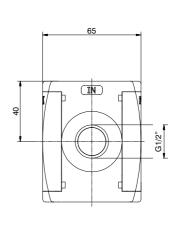
# Air intake (PA)





Fully open built in flow

regulator flow rate



200 NI/min.

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

# Operational characteristics - Available with two G1/2" threaded connections.

# Attenction

For this product are available only Technopolymer connections

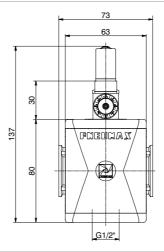
Technical characteristics		
Connections	G 1/2"	Ordering code
Max. inlet pressure	13 bar	
Working temperature	-5°C +50°C	T173BPA
Weight	gr. 151	
Assembly positions	Indifferent	
Max. fitting torque (with Technopolymer threads)	G1/2" = 22 Nm	

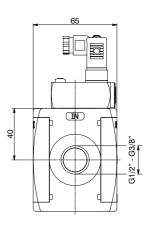
Ordering code

T173BPP

# Pressure switch (PP)







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

## **Operational characteristics**

- Built in adjustable pressure switch (2 to 10 bar) with electrical connection.
- G 1/2" 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).

#### Attenction

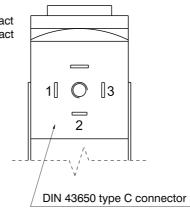
For this product are available only Technopolymer connections

# **Technical characteristics**

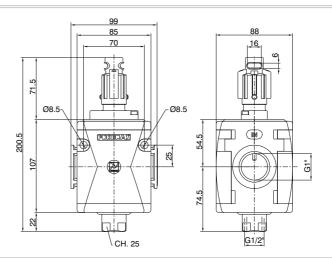
Connections	G 1/2"
Max. inlet pressure	13 bar
Working temperature	-5°C +50°C
Weight	gr. 235
Microswitch capacity	1A
Grade of protection	IP 65
(with connector assembled)	35
Adjusting range	2-10 bar
Assembly positions	Indifferent
Max. fitting torque	G1/2" = 22 Nm
(with Technopolymer threads)	G1/2 - 22 NIII
Microswitch maximum tension	250 VAC

1 = neutral2 = N.C. contact 3 = N.O. contact

Connection







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

ering code
174BVL

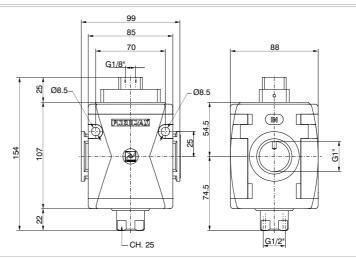
M8

Wall fixing screw



# Pneumatic shut-off valve (VP)





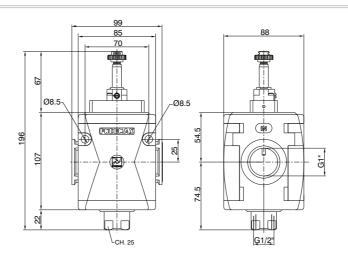
Example: N174BVP : size 4, Pneumatic shut-off valve with Technopolymer threads, G1" connections

Operational characteristics	Technical characteristics		
- Pneumatic operated 3 ways poppet valve.	Connections	G1"	Ordering code
- When the pneumatic signal is removed the	Discharge connection	G1/2"	
valves exhaust the pneumatic circuit	Pilot port size	G1/8"	N174BVP
	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	15000 dm³/min. (ANR)	
	with $\Delta p = 1$ (from 1 to 2)	15000 dili /ilili. (ANA)	
	Exhaust nominal flow rate at 6 bar	0000 de-3/rei- (AND)	
	with $\Delta p=1$ (from 2 to 3)	3600 dm³/min. (ANR)	
	Nominal flow rate with free exhaust	5000 de-3/reie (AND)	
	at 6 bar (from 2 to 3)	5000 dm³/min. (ANR)	
	Wall fixing screw	M8	

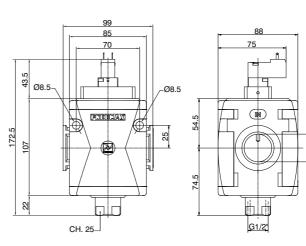


# Electric shut-off valve (VE)









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

Operational	characteristics
-------------	-----------------

- Solenoid operated 3 ways poppet valve.
- The model fitted with 15 mm pilots uses pilots series N33\_0A and N33\_0E (1 Watt)

# Technical characteristics

Supply and operating connections	G1"	
Discharge connections	G 1/2"	
Working temperature	-5°C +50°C	
Weight	1170 (gr)	Г
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 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	

	N174BVE
	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 = Wthout coil
	M2 mechanic
A	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

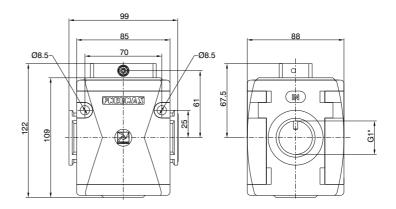
C5 = 24 V DC C6 = 24 V AC (50-60 Hz) C7 = 110 V AC (50-60 Hz) C8 = 230 V AC (50-60 Hz) C9 = 24 V DC (2 Watt)

Ordering code

# Series Airplus Size 4

# Progressive start-up valve (AP)





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

# Operational characteristics

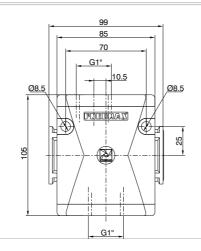
- Down stream circuit filling time regulated via a built in flow regulator.
- Full pressure is allowed once the down stream circuit pressure reaches 50% of the inlet pressure.

Technical characteristics	
Connections	G1"
Max. inlet pressure	13 bar
Working temperature	-5°C +50°C
Weight	1100 (gr)
Assembly positions	Indifferent
Min. pressure working	2,5 (bar)
Nominal flow rate	15000 dm³/min. (ANR)
at 6 bar with Δp=1	19000 dill /min. (ANA)
Fully open built in flow	1000 dm³/min. (ANR)
regulator flow rate	1000 dili/ilili. (ANN)

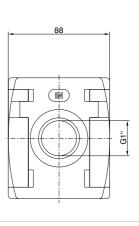
Ordering code				
N174BAP <b></b>				
Ð	FLOW DIRECTION			
	= from left to right			
	W = from right to left			

Air intake (PA)





Wall fixing screw



М8

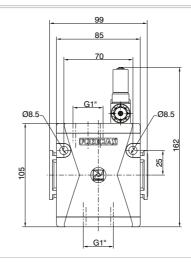
Example : N174BPA : size 4, Air intake, G1" connections

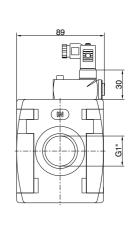
Operational characteristics	Technical characteristics		
- Available with two G1" threaded connections.	Connections	G1"	Ordering code
	Max. inlet pressure	13 bar	
	Working temperature	-5°C +50°C	N174BPA
	Weight	720 (gr)	
	Assembly positions	Indifferent	
	Wall fixing screw	M8	



# Pressure switch (PP)







G1"

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

## Operational characteristics

- Built in adjustable pressure switch (2 to 10 bar) with electrical connection.
- Available with two G1" threaded connections.
- 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).

# Connections Max. inlet pressure

**Technical characteristics** 

Max. inlet pressure	13 bar	
Working temperature	-5°C +50°C	
Weight	800 (gr)	
Microswitch capacity	1A	
Grade of protection	IP 65	
(with connector assembled)		
Adjusting range	2 -10 bar	
Assembly positions	Indifferent	
Microswitch maximum tension	250 VAC	
Wall fixing screw	M8	

Ordering code

N174BPP

FLOW DIRECTION

= from left to right

W = from right to left

3.205