

Construction and working characteristics

The new FRL units AIRPLUS series represents the evolution of the well known and consolidated 1700 series.

The main features are increased performances, reliability, easy and fast assembly and the introduction of the latest technical features.

With the exception of the air intake module and the pressure switch module all elements are available in two configurations; with technopolimer connections (IN and OUT), (T series), or with metal threaded inserts, (N series). Bowls made of transparent polycarbonate (PC) are fitted with a bowl protection guard which is assembled on the body via a quick coupling mechanism provided with a safety button. The filter, available with three filtration grades (5µm, 20µm and 50µm) is fitted as standard with a drain mechanism which can be operated manually or semiautomatically. On request is available the auto-drain mechanism. The regulator is based on the rolling diaphragm technology with low hysteresis and the system is balanced. The unit can be fitted with integrated flush mounting pressure gauge (0 to 12 bar range). 4 pressure ranges are available going from 0 to 12 bar and the regulating knob can be blocked in position simply by pressing it down. A dedicated version is available for battery mounting, up to a maximum of 6 units. The lubricator is based on the Venturi principle and the oil quantity is regulated via the adjusting screw positioned don the transparent polycarbonate (PC) regulating dome which also ensure clear visibility of the oil flow and regulation. The oil suction pipe is fitted as standard with a sintered filter which ensures that any contaminant that should be present in the oil will reach the down stream circuit. Shoot off valve is available in two versions, one manually operated and one solenoid operated. In both cases the unit is fitted with a threaded connection for depressurising the downstream circuit. On the manually operated version, in the lock position, it is possible to fit up to three locks in order to prevent the accidental pressurization of the pneumatic circuit avoiding accidents or damages. The solenoid operated version is available with a 15mm or with a 22mm solenoid valve. The soft start valve ensure a progressive pressurization of the down stream circuit avoiding sudden pressure surges which could be dangerous for the devices fitted on the down stream circuit. The filling time can be easily adjusted via a built in flow regulator. The full flow rate is allowed only once the down stream pressure has reached 50% of the value of the inlet pressure. The pressure switch module which can be set between 2 and 10 bar and the air intake module complete the range.

The elements are joint together via dedicated quick coupling technopolimer flanges which allows for the units to be panel mounted moreover ensure the possibility to replace any component without disassembling the FRL group from its position.

90° mounting brackets and standard gauges are also available.

Instruction for installation and operation

The FRL unit must be installed as close as possible to the application. The air flow direction must follow the directions indicated on the single units in correspondence of the threaded connections. (IN and OUT)

Units provided with bowl must be mounted vertically with the bawl facing down. Single units or groups can be panel mounted via the Y type flanges, regulators and filter-regulators can be mounted via the 90° zinc plated steel bracket. In order to mount the 90° bracket it is necessary to remove the regulating knob and then the locking ring before positioning the bracket. All units must be operated according to the specified pressure and temperature ranges; fittings must be mounted without exciding the maximum torque allowed. Ensure that the units cover plates are in position before pressure is applied. The cover plates are needed to lock in position the top part of the unit.

The condense level in filer and filter-regulators bowls must never exceed the maximum level indicated on the bowls. With manual or semi automatic drain the condense can be discharged via a 6/4mm tube directly connected to the drain tap. On the pressure regulator the pressure value must always set wile pressure is rising and ideally the unit pressure range should be chosen based on the pressure value to be regulated. Lubricators must be filled with class FD22 and HG32 oils. Ensure, both on the inlet and on the outlet, that the flow rate is above the minimum flow rate required to operate the unit. Below this value the units does not operate. The oil quantity can be regulated via the regulating screw on the transparent polycarbonate dome through which it is also clearly visible the oil flow. A drop every 300-600 litres should be allowed.

The oil can be re-filled while the pneumatic circuit is pressurized thanks to the exhaust valve which is built in the refill plug and allows for the bowl to be depressurized and the oil refill directly form in the bowl or from the plug. The manual shot off valve needs, to be operated, a push and turn action (clockwise) in order to close it and discharge the down stream circuit it is necessary to turn anti clock wise the knob. The soft start valve is used to slowly and progressively pressurize the down stream circuit, the time needed to do so can be set by means of the built in flow regulator. The soft start valve on its own does not allow for the down stream circuit to be discharged, in order to do so it is necessary to combine it with a shot off valve (to be mounted upstream).

Maintenance



For any maintenance which requires the removal of the top plugs/ supports from the body it is necessary to preventively remove the sides cover plates. If the top plugs\supports are removed with the sides plates still in their position the unit could be permanently damaged.

Bowls, plugs and supports are assembled with a bayonet type mechanism. In order to remove them rotate anti clockwise until the mechanical stop is reached and than remove from the body (for the bowls firstly press down the green safety button). Bowls and transparent parts can be cleaned with water and neutral soap. Do not use solvents or alcohol.

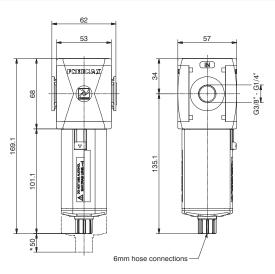
Filtering elements (from filter sand filter regulators) made of HDPE can be regenerated by washing and blowing them. In order to remove them it is necessary to remove the bowl unscrew the filter element and replace it with a new one or clean it. The oil can be re-filled while the pneumatic circuit is pressurized thanks to the exhaust valve which is built in the refill plug and allows for the bowl to be depressurized. In order to be able to unmount the bowl it is necessary unscrew the refill plug positioned near the oil dome, once this operation has been carried out it is possible to remove the bowl to re fill it or to refill from the refill plug. Refilling directly the bowl is suggested.

Should the pressure regulator not perform properly or should present a constant leackage from the relieving replaced the diaphragm by unloading completely the regulating spring before removing the regulation support. Any other maintenance operation, in consideration of the complexity of the assembly, and the need of a through test according to the Pneumax spa specification, should be carried out by the manufacturer.

Fittings maximum recommended torque applicable

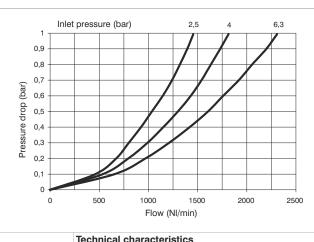
THREAD	Technopolymer version (T)	Metal version (N)
G1/8"	4 Nm	15 Nm
G1/4"	9 Nm	20 Nm
G3/8"	16 Nm	25 Nm
G1/2"	22 Nm	30 Nm





*Bowl removal maximum height

Example: T172BFB: size 2, Filter with Technopolymer threads, G3/8" connections, 20 μ m filter pore size



Operational characteristics

Double filtering action: air flow centrifugation and filter element Filtering element made of HDPE (high density polyethylene) available in three different filtration grades (5 μ m, 20 μ m and

- $50\mu\text{m}$) can be regenerated by washing it or replaced. Transparent bowl made off polycarbonate with bowl protection guard.
- Bowl assembly via bayonet type quick coupling mechanism with safety button.
- Semi-automatic drain mounted as standard; automatic drain upon request.

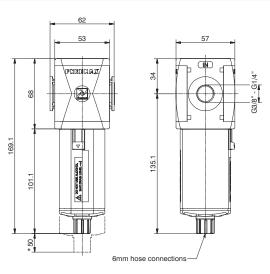
Note

In order to ensure adequate flow on the auto drain version it is recommended to use minimum a 6mm fitting.

rechnical characteristics			
Connections	G 1/4" - G 3/8"		Ordering code
Max. inlet pressure	13 bar		
Minimum working pressure	0,5 bar		Ø 172 © F ©©
with automatic drain	,		VERSION
Maximum working pressure		V	N = Metal inserts
with automatic drain	10 bar		T = Technopolymer thread
		-	CONNECTIONS
Working temperature	-5°C +50°C	0	A = G1/4"(only for "N" version)
Weight with Technopolymer threads	gr. 220	•	B = G3/8"
Weight with threaded inserts	gr. 230		C = G3/8" NPT(only for "N" version)
<u> </u>		-	FILTER PORE SIZE
Filter pore size	5 μm - 20 μm - 50 μm	8	$A = 5 \mu m$
Bowl capacity	34 cm ³		$B = 20 \mu m$
Assembly positions	Vertical		$C = 50 \mu m$
, ,	vertical	-	OPTIONS
Max. fitting torque	G3/8" = 16 Nm	0	= Standard *
(with Technopolymer threads)	G5/6 - 10 NIII		S = Automatic drain
Max. fitting torque	G1/4" = 20 Nm		
(with threaded inserts)	G3/8" = 25 Nm		

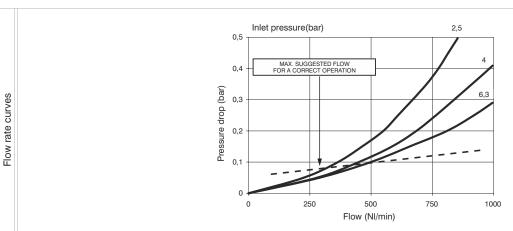
Coalescing filter (D)



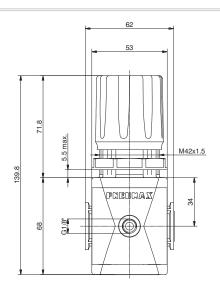


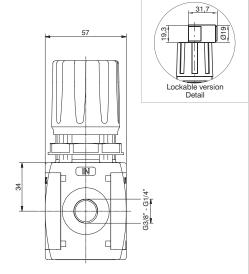
*Bowl removal maximum height

Example: T172BDA: Coalescing filter size 2, with Technopolymer threads, G3/8" connections, filter efficency 99,97%

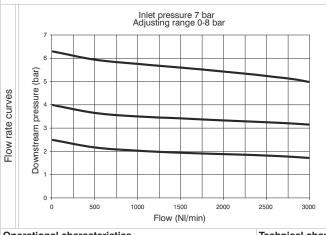


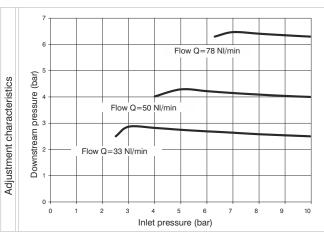
Operational characteristics	Technical characteristics			
- Coelesing filter element with filtration grade of $0.01 \mu m$	Connections	G 1/4" - G 3/8"		Ordering code
- Transparent bowl made off polycarbonate with	Max. inlet pressure	13 bar		
bowl protection guard.	Minimum working pressure	0,5 bar		Ø 172 ⊚ D ⊜ ⊚
- Bowl assembly via bayonet type quick coupling	with automatic drain	0,0 bai		VERSION
mechanism with safety button.	Maximum working pressure	40 5	V	N = Metal inserts
- Semi-automatic drain mounted as standard;	with automatic drain	10 bar		T = Technopolymer thread CONNECTIONS
automatic drain upon request.	Working temperature	-5°C +50°C		A = G1/4"(only for "N" version)
Note	Weight with Technopolymer threads	gr. 225	•	B = G3/8"
In order to ensure a better grade of filtration it is recommended	Weight with threaded inserts	gr. 235		C = G3/8" NPT(only for "N" version)
to use a 5 μ m filter before the coalescing filter. In order to ensure	Filter efficiency		(3	FILTER EFFICIENCY A = 99,97%
adequate flow on the auto drain version it is recommended to	with 0,01 μm particle	99,97%		OPTIONS
use minimum a 6mm fitting.	Bowl capacity	34 cm³	•	= Standard * S = Automatic drain
	Assembly positions	Vertical		S = Automatic drain
	Max. fitting torque	00/0II 40 N		
	(with Technopolymer threads)	G3/8" = 16 Nm		
	Max. fitting torque	G1/4" = 20 Nm		
	(with threaded inserts)	G3/8" = 25 Nm		





Example: T172BRC: size 2, Regulator with Technopolymer threads, G3/8" connections, 0 to 8 bar adjusting range

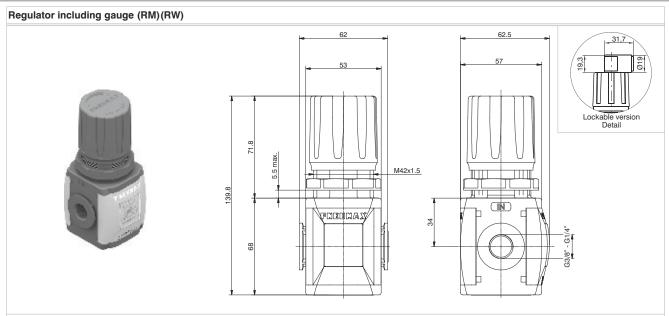




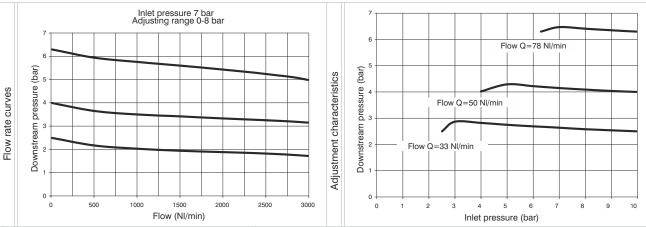
Operational characteristics	Technical characteristics			
Diaphragm pressure regulator with relieving.	Connections	G 1/4" - G 3/8"		Ordering code
Low hysteresis rolling diaphragm.	Max. inlet pressure	13 bar		
Balanced system.	Working temperature	-5°C +50°C		Ø 172 © R ©©
Available in four pressure ranges up to 12 bar.	Pressure gauge connections	G 1/8"		VERSION
Operating knob can be locked in position by pressing it	Weight with Technopolymer threads	gr. 300	V	N = Metal inserts
down once the desired P2 (regulated pressure)	Weight with threaded inserts	gr. 310		T = Technopolymer thread CONNECTIONS
pressure value is achieved.	D	0-2 bar / 0-4 bar		A = G1/4"(only for "N" version)
Fitted with panel mounting locking ring.	Pressure range	0-8 bar / 0-12 bar	0	B = G3/8"
Note	Assembly positions	Indifferent		C = G3/8" NPT(only for "N" versi
The pressure must be always regulating while increasing. For	Max. fitting torque	G1/8" = 4 Nm		ADJUSTING RANGE A = 0-2 bar
more precise regulation and higher sensibility, the use of a	(with Technopolymer threads)	G3/8" = 16 Nm	G	B = 0-4 bar
egulator with a pressure range as close as possible to the	(mar recomme per y men amende)	33/3 13100		C = 0-8 bar
egulated pressure is recommended.				D = 0-12 bar
egulated pressure is recommended.				= Standard *
				F = Controlled refiel +
	Max. fitting torque	G1/4" = 20 Nm	0	improved relieving
	(with threaded inserts)	G3/8" = 25 Nm		L = no relieving
				R = Improved relieving
				OPTIONS
			0	= Standard *
				K = Lockable version

* no additional letter required

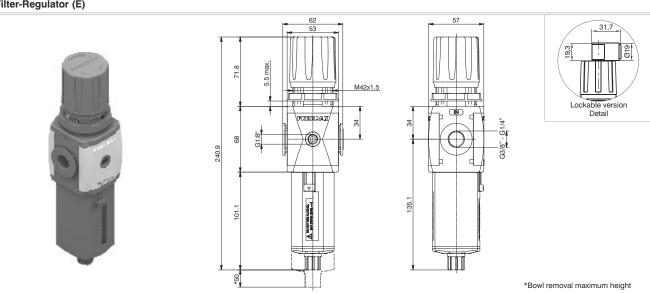
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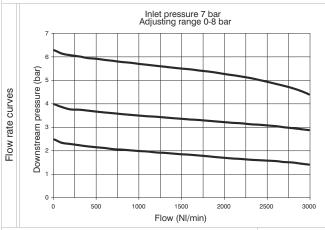
Example: T172BRMC: size 2, Regulator including gauge with Technopolymer threads, G3/8" connections, 0 to 8 bar adjusting range

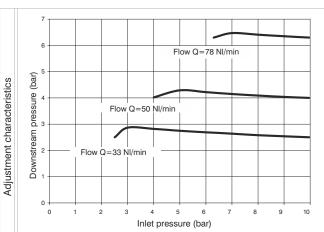


Operational characteristics	Technical characteristics			
- Diaphragm pressure regulator with relieving.	Connections	G 1/4" - G 3/8"		Ordering code
- Low hysteresis rolling diaphragm.	Max. inlet pressure	13 bar		
- Balanced system.	Working temperature	-5°C +50°C		Ø 172 @ R D©D©
- Available in four pressure ranges up to 12 bar.	Weight with Technopolymer threads	gr. 300		VERSION
- Operating knob can be locked in position by pressing it	Weight with threaded inserts	gr. 310	V	N = Metal inserts
down once the desired P2 (regulated pressure)	Pressure range	0-2 bar / 0-4 bar	_	T = Technopolymer thread CONNECTIONS
pressure value is achieved.	Pressure range	0-8 bar / 0-12 bar	0	A = G1/4"(only for "N" version)
- Fitted with panel mounting locking ring.	Assembly positions	Indifferent	•	B = G3/8"
- Integrated manometer 0-12 bar as standard	Max. fitting torque		_	C = G3/8" NPT(only for "N" version)
(for 0-8 and 0-12 bar range) and 0-4 bar (for 0-2 and 0-4 range)	0 1	G3/8" = 16 Nm	0	FLOW DIRECTION M = from left to right
Note	(With real ineperyment in educe)		-	W = from right to left
				ADJUSTING RANGE
The pressure must be always regulating while increasing. For				A = 0-2 bar
a more precise regulation and higher sensibility, the use of a			G	B = 0-4 bar
regulator with a pressure range as close as possible to the				C = 0-8 bar
regulated pressure is recommended.				D = 0-12 bar
regulated pressure is recommended.	Max. fitting torque	G1/4" = 20 Nm		TYPE
	(with threaded inserts)	G3/8" = 25 Nm		= Standard *
	(with theaded insens)	G3/6 = 25 NIII	0	F = Controlled refiel +
			improved relieving	
			L = no relieving	
				R = Improved relieving
				OPTIONS
			0	= Standard *
				K = Lockable version



Example: T172BEBC: size 2, Filter-regulator with Technopolymer threads, G3/8" connections, 20 μ m filtering pore size, 0 to 8 bar adjusting range





Operational characteristics

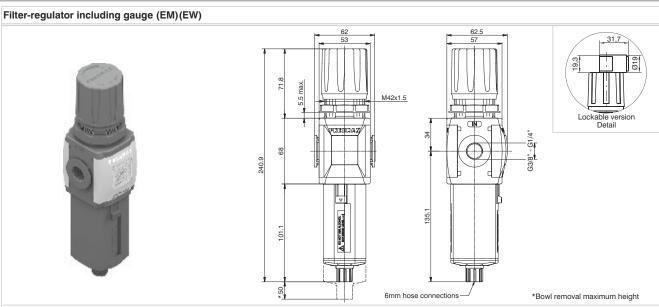
- Filter diaphragm pressure regulator with relieving.
- Low hysteresis rolling diaphragm.
- Balanced system.
- Double filtering action: air flow centrifugation and filter element.
- Filtering element made of HDPE (high density polyethylene) available in three different filtration grades (5 μ m, 20 μ m and $50\mu\text{m}$) can be regenerated by washing it or replaced.
- Transparent bowl made off polycarbonate with bowl protection guard.
- Bowl assembly via bayonet type quick coupling mechanism with safety button.
- Semi-automatic drain mounted as standard; automatic drain upon request.
- Available in four pressure ranges up to 12 bar.
- Operating knob can be locked in position by pressing it down once the desired P2 (regulated pressure) pressure
- Fitted with panel mounting locking ring.

Note

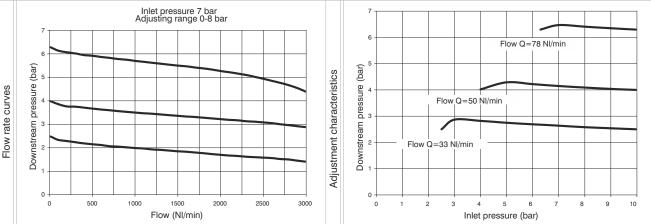
The pressure must be always regulating while increasing. For a more precise regulation and higher sensibility, the use of a regulator with a pressure range as close as possible to the regulated pressure is recommended. In order to ensure adequate flow on the auto drain version it is recommended to use minimum a 6mm fitting.

Technical	characteristics	

lechnical characteristics		
Connections	G 1/4" - G 3/8"	Ordering code
Max. inlet pressure	13 bar	
Minimum working pressure	0,5 bar	0 172 0 E 000
with automatic drain	·	VERSION
Maximum working pressure	40 5	N = Metal inserts
with automatic drain	10 bar	T = Technopolymer thread
Working temperature	-5°C +50°C	CONNECTIONS $A = G1/4"(only for "N" version)$
Pressure gauge connections	G 1/8"	B = G3/8"
Weight with Technopolymer threads	gr. 390	C = G3/8" NPT(only for "N" version)
Weight with threaded inserts	gr. 400	FILTER PORE SIZE
weight with threaded inserts		$A = 5 \mu m$ $B = 20 \mu m$
Pressure range	0-2 bar / 0-4 bar	· · · · · · · · · · · · · · · · · · ·
	0-8 bar / 0-12 bar	
Filter pore size	5 μm - 20 μm - 50 μm	A = 0-2 bar
Bowl capacity	34 cm ³	6 B = 0-4 bar
Assembly positions	Vertical	C = 0-8 bar
, , , , , , , , , , , , , , , , , , ,	G1/8" = 4 Nm	
0 1	- /-	
(with Technopolymer threads)	G3/8" = 16 Nm	0.000.000
		OPTIONS
		Standard *
		K = Lockable version
Max fitting torque	G1/4" = 20 Nm	* no additional
9 1		letter required
(with threaded inserts)	G3/8" = 25 NM	
Bowl capacity	0-8 bar / 0-12 bar 5 μm - 20 μm - 50 μm 34 cm³	C = 50 \(\mu\) m ADJUSTING RANGE A = 0.2 bar B = 0.4 bar C = 0.8 bar D = 0.12 bar TYPE = Standard * S = Automatic drain OPTIONS Standard * K = Lockable version



Example: T172BEMBC : size 2, Filter-Regulator including gauge with Technopolymer threads, G3/8" connections, with 20 μ m filtering pore size, 0 to 8 bar adjusting range



Operational characteristics

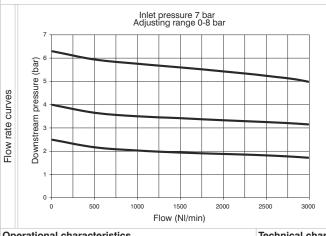
- Filter diaphragm pressure regulator with relieving.
- Low hysteresis rolling diaphragm.
- Balanced system.
- Double filtering action: air flow centrifugation and filter element.
- Filtering element made of HDPE (high density polyethylene) available in three different filtration grades (5μm, 20μm and 50μm) can be regenerated by washing it or replaced.
- Transparent bowl made of polycarbonate with bowl protection guard.
- Bowl assembly via bayonet type quick coupling mechanism with safety button.
- Semi-automatic drain mounted as standard; automatic drain upon request.
- Available in four pressure ranges up to 12 bar.
- Operating knob can be locked in position by pressing it down once the desired P2 (regulated pressure) pressure value is achieved.
- Fitted with panel mounting locking ring.
- 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)

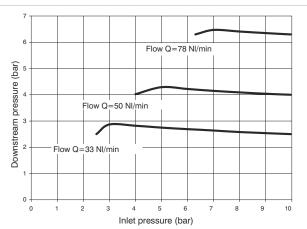
Note

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. In order to ensure adequate flow on the auto drain version it is recommended to use minimum a 6mm fitting.

Technical characteristics				
Connections	G 1/4" - G 3/8"		Ordering code	
Max. inlet pressure	13 bar		Ordoning codo	
Minimum working pressure			Ø 172 © E 0©©	
with automatic drain	0,5 bar		VERSION	
			N = Metal inserts	
Maximum working pressure	10 bar		T = Technopolymer thread	
with automatic drain			CONNECTIONS	
Working temperature	-5°C +50°C	0	A = G1/4"(only for "N" version)	
Weight with Technopolymer threads	gr. 400	-	B = G3/8"	
Weight with threaded inserts	gr. 410	-	C = G3/8" NPT(only for "N" version)	
Weight with theaded hiserts			FLOW DIRECTION	
Pressure range	0-2 bar / 0-4 bar		M = from left to right	
3	0-8 bar / 0-12 bar		W = from right to left	
Filter pore size	5 μm - 20 μm - 50 μm		FILTER PORE SIZE	
Bowl capacity	34 cm ³		$A = 5 \mu m$ $B = 20 \mu m$	
' '		-	C = 50 μm	
Assembly positions	Vertical		ADJUSTING RANGE	
Max. fitting torque	00/01 40 No.		A = 0-2 bar	
(with Technopolymer threads)	G3/8" = 16 Nm		B = 0-4 bar	
		- 1	C = 0-8 bar	
			D = 0-12 bar	
			TYPE	
		0	= Standard *	
			S = Automatic drain	
			OPTIONS	
Max. fitting torque	G1/4" = 20 Nm	0	= Standard *	
(with threaded inserts)	G3/8" = 25 Nm		K = Lockable version	
(with timeaued inserts)	G0/0 – 23 NIII		* no additional letter required	

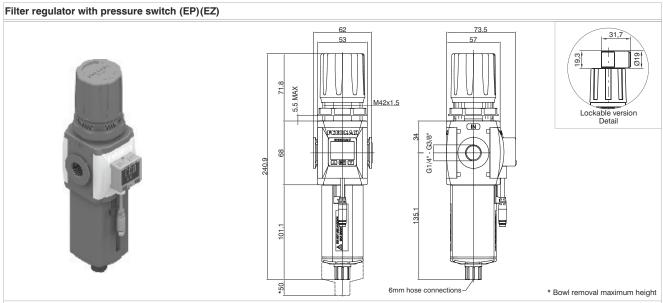
Example: T172BRPCA: size 2, Regulator with Technopolymer threads, G3/8" connections, 0 to 8 bar adjusting range, with pressure switch with M8 connector PNP



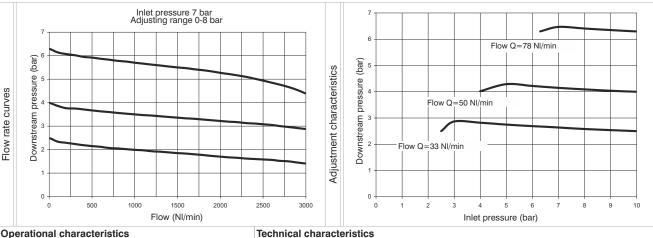


Flow (NI/min)			Inlet pressure (ba	ar)
Operational characteristics	Technical charac	teristics		
- Diaphragm pressure regulator with relieving.	Connections		G 1/4" - G 3/8"	Ordering code
- Low hysteresis rolling diaphragm.	Max. inlet pressure		13 bar	0
- Balanced system.	Working temperature	;	0°C +50°C	Ø 172 © R D©D©
- Available in four pressure ranges up to 12 bar.	Weight with Technop	olymer threads	gr. 300	VERSION
- Operating knob can be locked in position by pressing it	Weight with threaded	linserts	gr. 310	N = Metal inserts
down once the desired P2 (regulated pressure)	_		0-2 bar / 0-4 bar	T = Technopolymer thread
pressure value is achieved.	Pressure range		0-8 bar / 0-12 bar	CONNECTIONS A = G1/4"(only for "N" version)
- Fitted with panel mounting locking ring.	Assembly positions		Indifferent	B = G3/8"
			mumerent	C = G3/8" NPT(only for "N" version)
- Pressure switch as standard	Max. fitting torque		G3/8" = 16 Nm	FLOW DIRECTION
Note	(with Technopolymer	threads)		P = from left to right
The pressure must be always regulating while increasing. For				Z = from right to left
a more precise regulation and higher sensibility, the use of a			ADJUSTING RANGE	
regulator with a pressure range as close as possible to the			A = 0-2 bar B = 0-4 bar	
				C = 0-8 bar
regulated pressure is recommended.				D = 0-12 bar
				TYPE
				= Standard *
	Max. fitting torque			F = Controlled refiel +
			G1/4" = 20 Nm	improved relieving
	(with threaded insert		G3/8" = 25 Nm	L = no relieving
				R = Improved relieving
				OPTIONS
				Standard *
				K = Lockable version PRESSURE SWITCH OPTION
				A = Cable 150 mm+M8 PNP
				B = Cable 150 mm + M8 NPN
				C = Cable 2 mt. PNP
				D = Cable 2 mt. NPN
				* no additional letter required

Adjustment characteristics



Example: T172BEPBCA: size 2, Filter-regulator with Technopolymer threads, G3/8" connections, 20 µm filtering pore size, 0 to 8 bar adjusting range, with pressure switch with M8 connector PNP



Connections

Мах.

(with

Operational characteristics

- Filter diaphragm pressure regulator with relieving.
- Low hysteresis rolling diaphragm.
- Double filtering action: air flow centrifugation and filter element.
- Filtering element made of HDPE (high density polyethylene) available in three different filtration grades (5 μ m, 20 μ m and $50\mu\text{m}$) can be regenerated by washing it or replaced.
- Transparent bowl made off polycarbonate with bowl protection guard.
- Bowl assembly via bayonet type quick coupling mechanism with safety button.
- Semi-automatic drain mounted as standard; automatic drain upon request
- Available in four pressure ranges up to 12 bar.
- Operating knob can be locked in position by pressing it down once the desired P2 (regulated pressure) pressure value is achieved.
- Fitted with panel mounting locking ring.
- Pressure switch as standard

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. In order to ensure adequate flow on the auto drain version it is recommended to use minimum a 6mm fitting.

a.e	40.1	
Max. inlet pressure	13 bar	
Minimum working pressure	0,5 bar	1
with automatic drain	0,5 Dai	
Maximum working pressure	10 bar	V
with automatic drain	TO Dai	
Working temperature	0°C +50°C	
Weight with Technopolymer threads	gr. 400	
Weight with threaded inserts	gr. 410	
Proceuro rango	0-2 bar / 0-4 bar	0
Pressure range	0-8 bar / 0-12 bar	
Filter pore size	5 μm - 20 μm - 50 μm	
Bowl capacity	34 cm ³	8
Assembly positions	Vertical	
Max. fitting torque	00/01 40 N	
(with Technopolymer threads)	G3/8" = 16 Nm	©

G 1/4" - G 3/8"

fitting torque	G1/4" = 20 Nm
threaded inserts)	G3/8" = 25 Nm

Ordering code **Ø172@EDSGG@**

VERSION N = Metal inserts T = Technopolymer threadCONNECTION A = G1/4"(only for "N" version)

- B = G3/8"C = G3/8" NPT(only for "N" version) FLOW DIRECTION P = from left to right
- Z = from right to left FILTER PORE SIZE $A = 5 \mu m$ $B = 20 \,\mu m$ $C = 50 \,\mu m$
- ADJUSTING RANGE A = 0-2 bar**(G)** B = 0.4 bar
- C = 0.8 barD = 0-12 baiTYPE
- = Standard * S = Automatic drain OPTIONS = Standard *
- K = Lockable versionPRESSURE SWITCH OPTION A = Cable 150 mm+M8 PNP
- B = Cable 150 mm+M8 NPN C = Cable 2 mt. PNP D = Cable 2 mt. NPN
 - * no additional letter required



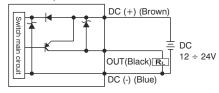


CHARACTERISTICS

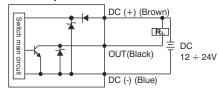
- 3 color digital LCD display, easy readout
- 4 units of measurement for pressure indication
- PNP and NPN output N.O. and N.C. output contact
- Not available individually, but only with a Regulator or a Filter-regulator

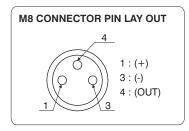
OUTPUT CIRCUIT WIRING DIAGRAMS

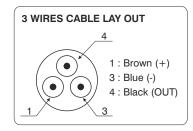
PNP output



NPN output







Cable ordering code

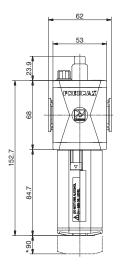
MCH1 cable 3 wires I=2,5m with M8 connector MCH₂ cable 3 wires I=5m with M8 connector **МСН3** cable 3 wires I=10m with M8 connector

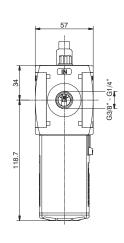
Connector



	TECHNICAL CHARACTERISTICS
Adjusting range	0 ÷ 10 bar / 0 ÷ 1MPa
Max. inlet pressure	15 bar / 1,5 MPa
Fluid	Filtered and dehumidified air
Display unit of measurement	MPa - kgf/cm² - bar - psi
Supply voltage	12 ÷ 24 VDC
Current consumption	≤40mA (without load)
Digital output type	NPN - PNP
Type of contact	Normally Open - Normally Closed
Max. load current	125 mA
Digital output activation mode	single threshold with fixed hysteresis - window with fixed hysteresis - window without hysteresis
Digital output activation time	0.05s - 0.25s - 0.5s - 1s - 2s - 3s (selections for chattering-proof function)
Display characteristics	Double 3 1/2 digit display Digital output status indication Three-pushbuttons touchpad
Indicator accuracy	≤±2% F.S. ± 1 digit
Protection grade	IP 40
Temperature	0 ÷ 50 °C
Cable section	3 x 0,129mm², Ø4 mm, PVC

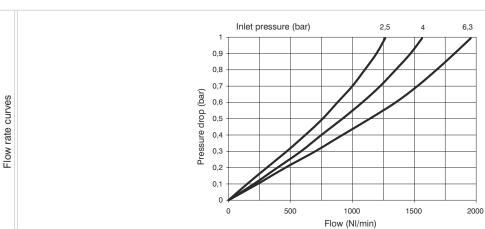






*Bowl removal maximum height

Example: T172BL: size 2, Lubricator with Technopolymer threads, G3/8" connections



Operational characteristics

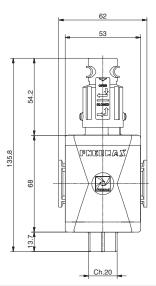
- Oil mist lubrication with variable orifice size in function of the flow rate
- Oil quantity regulation mechanism and oil quantity visualization dome made of polycarbonate.
- Transparent bowl made off polycarbonate with bowl protection guard.
- Bowl assembly via bayonet type quick coupling mechanism with safety button.
- Oil filling plug
- Oil can be refilled with pressurized circuit.
- Available with electric min-level sensor N.O. or N.C. with connection for connector.
- For electrical connection use connectors type C1-C2-C3 (see sensors chapter in the catalogue).

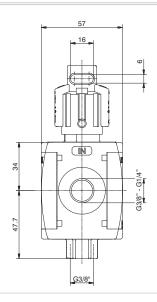
Note
Install as close as possible to the point o fuse
Do not use alcohol, deterging oils or solvents

Technical characteristics				
Connections	G 1/4" - G 3/8"		Ordering code	
Max. inlet pressure	13 bar			
Working temperature	-5°C +50°C		Ø 172 @ L ⊚	
Weight with Technopolymer threads	gr. 210		VERSION	
Weight with threaded inserts	gr. 220	V	N = Metal inserts	
Indicative oil drip rate	1 drop every 300/600 NI	0	T = Technopolymer thread CONNECTIONS A = G1/4"(only for "N" version)	
Oil type	FD22 - HG32	•	B = G3/8"	
Bowl capacity	70 cm ³		C = G3/8" NPT(only for "N" version) OPTIONS	
Assembly positions	Vertical		A = Min. Oil level indicator	
Max. fitting torque (with Technopolymer threads)	G3/8" = 16 Nm	•	Normally open C = Min. Oil level indicator Normally closed	
Max. fitting torque	G1/4" = 20 Nm			
(with threaded inserts)	G3/8" = 25 Nm			
Min. operational flow at 6,3 bar	70 NI/min.			

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.

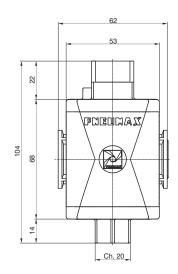
Technical characteristics

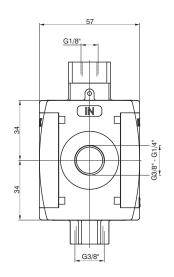
Connections	G 1/4" - G 3/8"	Ordering code		
Max. inlet pressure	13 bar			
Discharge connection	G3/8"	Ø 172 @ VL		
Working temperature	-5°C ÷ +50°C	VERSION		
Weight with Technopolymer threads	gr. 180	N = Metal inserts		
Weight with threaded inserts	gr. 190	T = Technopolymer thread CONNECTIONS		
Assembly positions	Indifferent	A = G1/4"(only for "N" version)		
Handle opening and closing angle	90°	B = G3/8"		
Max. fitting torque (with Technopolymer threads)	G3/8" = 16 Nm	C = G3/8" NPT(only for "N" version)		
Max. fitting torque	G1/4" = 20 Nm			
(with threaded inserts)	G3/8" = 25 Nm			
Nominal flow rate	0000 NII/aa ia			
at 6 bar with Δp=1	2200 NI/min.			
Exhaust nominal flow rate				
at 6 bar with Δp=1	1500 NI/min.			

3

Pneumatic shut-off valve (VP)







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

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	PC.	ıaı	OIII	ai c	IIG	uc	LCI	131	US

- Pneumatic operated 3 ways poppet valve.

- When the pneumatic signal is removed the valves exhaust the pneumatic circuit

Technical characteristics

Exhaust nominal flow rate

at 6 bar with Δp=1

Connections	G 1/4" - G 3/8"		
Discharge connection	G3/8"		
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	G3/8" = 16 Nm		
(with Technopolymer threads)	G5/6 - 10 MIII		
Max. fitting torque	G1/4" = 20 Nm		
(with threaded inserts)	G3/8" = 25 Nm		
Nominal flow rate	2200 NI/min.		
at 6 bar with Δp=1	2200 Mi/IIIIII.		

1500 NI/min.

Ordering code

172@VP

- VERSION

 N = Metal inserts

 T = Technopolymer thread

 CONNECTIONS

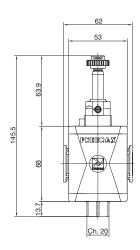
 A = G1/4"(only for "N" version)

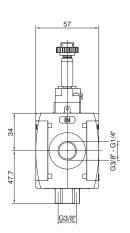
 B = G3/8"
- $B = G3/8^{\text{II}}$ $C = G3/8^{\text{II}} \text{ NPT(only for "N" version)}$

3

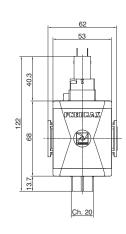
Electric shut-off valve (VE)

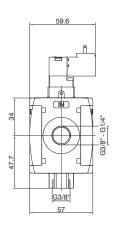








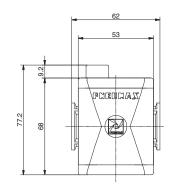


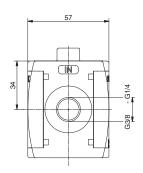


perational characteristics	Technical characteristics		
Solenoid operated 3 ways poppet valve.	Supply and operating connections	G 1/4" - G 3/8"	Ordering code
he model fitted with 15 mm pilots uses pilots series	Discharge connections	G 3/8"	
J33_0A and N33_0E (1 Watt)	Working temperature	-5°C +50°C	Ø 172 ⊚ VE Ø
	Weight with Technopolymer threads	200 g	VERSION
	Weight with threaded inserts	210 g	■ Metal inserts
	Assembly positions	Indifferent	T = Technopolymer thread
	Min. Pressure working	2,5 bar	CONNECTIONS
		· · · · · · · · · · · · · · · · · · ·	A = G1/4"(only for "N" version) $B = G3/8"$
	Max. Pressure working	10 bar	C = G3/8" NPT(only for "N" vers
	Max. fitting torque	G3/8"= 16 Nm	15 mm COIL VOLTAGE
	(with Technopolymer threads)		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 Hz) A7 = 110 V AC (50-60 Hz)
	Nominal flow rate		A8 = 220 V AC (50-60 Hz)
	at 6 bar with Δp=1	2200 NI/min.	A9 = 24 V DC (1 Watt)
	at o bai with Ap— i		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	1500 NI/min.	B8 = 220 V AC (50-60 Hz
	at 6 bar with Δp=1	1500 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 H
			C8 = 230 V AC (50-60 Hz

Progressive start-up valve (AP)







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

Technical characteristics 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.

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 (with Technopolymer threads)	G3/8" = 16 Nm
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 at 6 bar with $\Delta p=1$	2200 NI/min.

	VERSION
V	N = Metal inserts
	T = Technopolymer thread
	CONNECTIONS

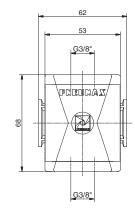
Ordering code

Ø172**@**AP

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

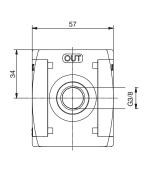
Air intake (PA)





Fully open built in flow

regulator flow rate



200 NI/min.

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

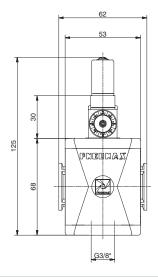
Operational characteristics	Technical characteristics	Technical characteristics				
- Available with two G3/8" threaded connections.	Connections	G 3/8"	Ordering code			
Attenction For this product are available only Technopolymer connections	Max. inlet pressure	13 bar				
	Working temperature	-5°C +50°C	T172BPA			
	Weight	gr. 95,5				
	Assembly positions	Indifferent				
	Max. fitting torque	G3/8" = 16 Nm				
	(with Technopolymer threads)	G5/6 = 10 NIII				

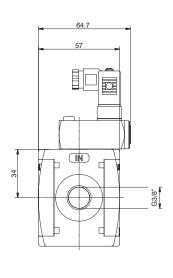
Ordering code

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.

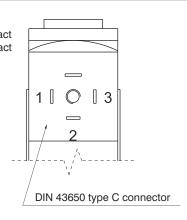
The electrical connection is made by mean of a 15 mm connector DIN 43650 type C. The microswitch contact could be normally closed or open (change overswitch).

Attenction

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 03
Adjusting range	2 -10 bar
Assembly positions	Indifferent
Max. fitting torque	CO/OII 10 Nove
(with Technopolymer threads)	G3/8" = 16 Nm
Microswitch maximum tension	250 VAC

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

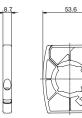


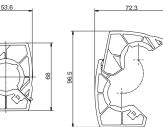


Ordering code

T172X







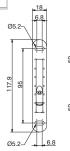
Weight 21 gr.
Example: T172X: Size 2 coupling flange
- Enables the quick connection of two functions.

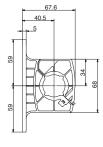
Flange Y

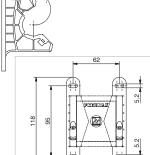
Ordering code

T172Y









6.8

Weight 33 gr.

Example: T172Y: Size 2 coupling flange with mounting holes

- Used to couple together two elements and
to panel mount them.

- Used to panel mount one single element.

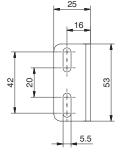
Single unit panel mounting dimensions

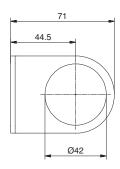
Fixing bracket

Ordering code

T17250







Weight 71 gr.
- Allows for regulators and filter regulators to be panel mounted.

Pressure gauge

Ordering code

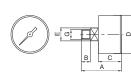
17070**V**.**⑤**

	VERSION
V	A = Dial Ø40
	B = Dial Ø50
	SCALE
	A = Scale 0-4 bar





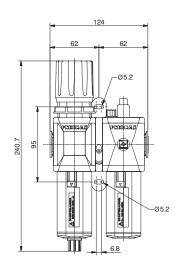


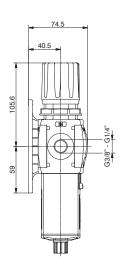


	DIMENSIONS								
	CODE	Α	В	С	D	E	G	Weight gr.	
	17070A	44	10	26	41	14	1/8"	60	
ı	17070B	45	10	27	40	14	1/0"	90	

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

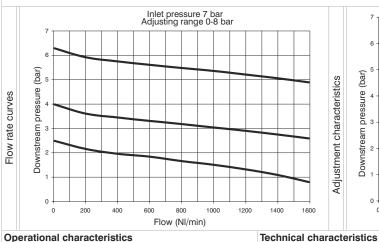


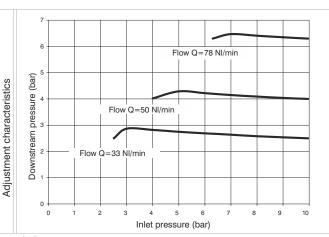




Example: GT172BHG: size 2, combined group comprising Filter-regulator and Lubricator, Technopolymer threads, G3/8" connections, 0 to 8 bar adjusting range and 20 µm filter pore size

Connections





G 1/4" - G 3/8"

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.

Max. inlet pressure	13 bar
Working temperature	-5°C +50°C
Weight with Technopolymer threads	gr. 643
Weight with threaded inserts	gr. 663
Pressure range	0-2 bar / 0-4 bar
Fressure range	0-8 bar / 0-12 bar
Filter pore size	5 μm - 20 μm - 50 μm
Bowl capacity	34 cm³
Indicative oil drip rate	1 drop every
indicative oil drip rate	300/600 NI
Oil type	FD22 - HG32
Bowl capacity	70 cm ³
Assembly positions	Vertical
Max. fitting torque	

Pressure range	0-2 bar / 0-4 bar	
Tressure range	0-8 bar / 0-12 bar	
Filter pore size	5 μm - 20 μm - 50 μm	
Bowl capacity	34 cm ³	
Indicative oil drip rate	1 drop every	
indicative oil drip rate	300/600 NI	
Oil type	FD22 - HG32	
Bowl capacity	70 cm ³	
Assembly positions	Vertical	
Max. fitting torque	CO/01 10 Nov	
(with Technopolymer threads)	G3/8" = 16 Nm	
Max. fitting torque G1/4" = 20 Nr		
(with threaded inserts)	G3/8" = 25 Nm	

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

Ordering code G**Ø**172**@@©**

V	N = Metal inserts
	T = Technopolymer thread
	CONNECTIONS
0	A = G1/4"(only for "N" version)
G	D 00/0#

VERSION

D = G3/6			
	$C = G3/8" \ NPT (only for "N" version)$		
	TYPE		
•	H =Built in gauge		
	I = G1/8" gauge connection		

FILTER PORE SIZE ADJUSTING RANGE $C = 5 \,\mu \text{m} / 0-8 \,\text{bar}$ $D = 5 \mu m / 0-12 bar$

α = 20 μπ / 0-0 bai
$H = 20 \mu m / 0-12 bar$
$N = 50 \mu m / 0-8 bar$
$P = 50 \mu \text{m} / 0 - 12 \text{bar}$
OPTIONS
= Standard *

		= Standard *			
		A = Min.oil level indicator NO			
		C = Min.oil level indicator NC			
	S = Automatic drain				
		SA = Automatic drain +			

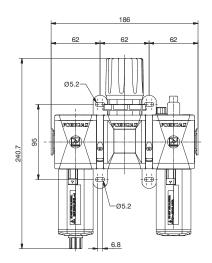
OA - Automatic drain
Min.oil level indicator NC
SC = Automatic drain +
Min.oil level indicator NC
FLOW DIRECTION

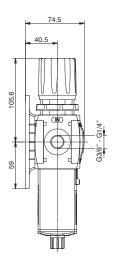
Ð	= Standard (from left to right)			
	W = from right to left			

^{*} no additional letter required

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

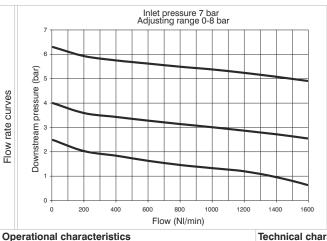


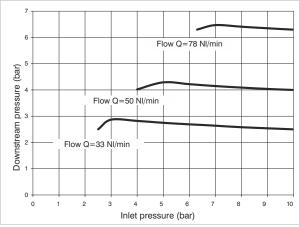




Example: GT172BKG: size 2 combined group comprising Filter, Regulator and Lubricator Technopolymer threads, G3/8" connections, 0 to 8 bar adjusting range and 20 µm filter pore size

Adjustment 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"		Ordering code	
Max. inlet pressure	13 bar			
Working temperature	-5°C +50°C		G Ø 172 00 90	
Weight with Technopolymer threads	gr. 796		VERSION	
Weight with threaded inserts	gr. 826	V	N = Metal inserts	
Pressure range	0-2 bar / 0-4 bar 0-8 bar / 0-12 bar		T = Technopolymer the CONNECTIONS A = G1/4"(only for "N" version of the control	
Filter pore size	5 μm - 20 μm - 50 μm	•	B = G3/8"	
Bowl capacity	34 cm ³	_	C = G3/8" NPT(only for "	
Indicative oil drip rate	1 drop every 300/600 NI	0	TYPE K = Built in gauge T = G1/8" gauge con	
Oil type	FD22 - HG32		FILTER PORE SIZE	
Bowl capacity	70 cm ³		ADJUSTING RANGE $C = 5 \mu m / 0-8 bar$	
Assembly positions	Vertical	8	$D = 5 \mu m / 0-12 bar$	
Max. fitting torque (with Technopolymer threads)	G3/8" = 16 Nm		$G = 20 \mu m / 0.8 \text{ bar}$ $H = 20 \mu m / 0.12 \text{ bar}$ $N = 50 \mu m / 0.8 \text{ bar}$	
Max. fitting torque	G1/4" = 20 Nm		$P = 50 \mu m / 0 - 12 bar$	
(with threaded inserts)	G3/8" = 25 Nm		OPTIONS	
Min. operational flow at 6,3 bar	70 Nl/min.	•	= Standard * A = Min.oil level indic C = Min.oil level indic S = Automatic drain SA = Automatic drain Min.oil level indic SC = Automatic drain Min.oil level indic	
			wiii i.oli level ii luic	

	VERSION
V	N = Metal inserts
	T = Technopolymer thread
	CONNECTIONS
0	A = G1/4"(only for "N" version)
G	B = G3/8"
	C = G3/8" NPT(only for "N" version)
	TYPE
•	K = Built in gauge
	T = G1/8" gauge connection
	FILTER PORE SIZE
	ADJUSTING RANGE
	$C = 5 \mu m / 0-8 bar$
8	$D = 5 \mu m / 0-12 bar$
0	$G = 20 \mu m / 0.8 bar$
	$H = 20 \mu m / 0-12 bar$
	$N = 50 \mu m / 0.8 bar$
	P = 50 μm / 0-12 bar

OPTIONS = Standard * A = Min.oil level indicator NO C = Min.oil level indicator NC

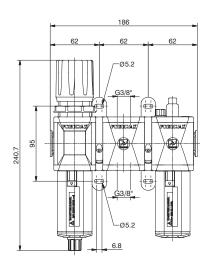
SA = Automatic drain -Min.oil level indicator NO SC = Automatic drain + Min.oil level indicator NC

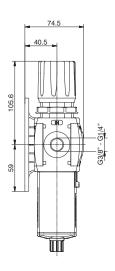
FLOW DIRECTION = Standard (from left to right)
W = from right to left

GØ172@@@@

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



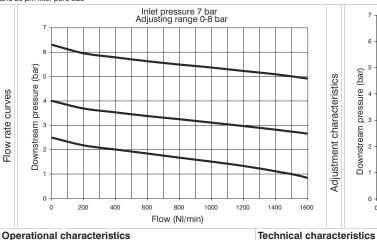


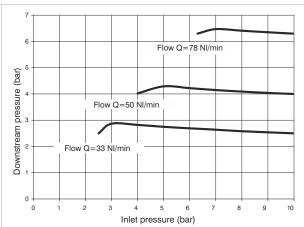


Example: GT172BNG: size 2 combined group comprising Filter-regulator, Air intake and Lubricator Technopolymer threads, G3/8" connections, 0 to 8 bar adjusting range and 20 μ m filter pore size

Connections

Adjustment characteristics





G 1/4" - G 3/8"

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.

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		
Tressure range	0-8 bar / 0-12 bar		
Filter pore size	5 μm - 20 μm - 50 μm		
Bowl capacity	34 cm ³		
Indicative oil drip rate	1 drop every		
indicative oil drip rate	300/600 NI		
Oil type	FD22 - HG32		
Bowl capacity	70 cm ³		
Assembly positions	Vertical		
Max. fitting torque	CO/01 1 C Nove		
(with Technopolymer threads)	G3/8" = 16 Nm		

Pressure range	0-2 bar / 0-4 bar	
	0-8 bar / 0-12 bar	e
Filter pore size	5 μm - 20 μm - 50 μm	
Bowl capacity	34 cm ³	
Indicative oil drip rate	1 drop every	G
maleative on any rate	300/600 NI	
Oil type	FD22 - HG32	
Bowl capacity	70 cm ³	
Assembly positions	Vertical	8
Max. fitting torque	G3/8" = 16 Nm	
(with Technopolymer threads)	G3/0 = 10 NIII	
Max. fitting torque	G1/4" = 20 Nm	
(with threaded inserts)	G3/8" = 25 Nm	
		•
Min. operational flow at 6,3 bar	70 NI/min.	

GØ172@@@@ VERSION N = Metal inserts T = Technopolymer thread CONNECTIONS A = G1/4"(only for "N" version) B = G3/8" C = G3/8" NPT(only for "N" version) TYPE N = Built in gauge P = G1/8" gauge connection FILTER PORE SIZE

Ordering code

	ADJUSTING RANGE
	$C = 5 \mu m / 0-8 bar$
9	$D = 5 \mu m / 0-12 bar$
9	$G = 20 \mu m / 0.8 bar$
	$H = 20 \mu\text{m} / 0-12 \text{bar}$
	$N = 50 \mu m / 0-8 bar$
	$P = 50 \mu m / 0 - 12 bar$
	OPTIONS
	= Standard *
	A = Min.oil level indicator N

		= Standard *
		A = Min.oil level indicator NO
		C = Min.oil level indicator NC
	•	S = Automatic drain
		SA = Automatic drain +
		Min.oil level indicator NC
		SC = Automatic drain +
		Min.oil level indicator NC

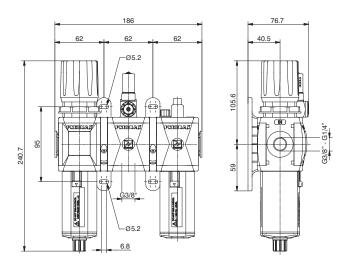
FLOW DIRECTION = Standard (from left to right) W = from right to left

^{*} no additional letter required

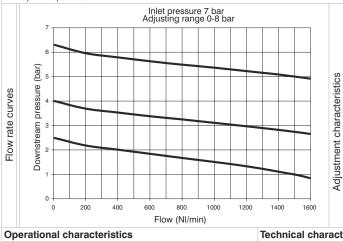


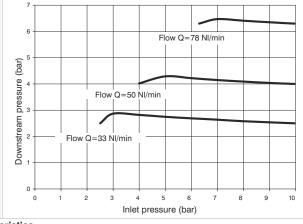
Service unit assembled (EM+PP+L) (E+PP+L) (EW+PP+L)





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 μ m filter pore size





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

* no additional letter required

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.

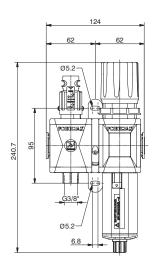
Technical characteristics		
Connections	G 1/4" - G 3/8"	
Max. inlet pressure	13 bar	
Working temperature	-5°C +50°C	
Weight with Technopolymer threads	gr. 855	
Weight with threaded inserts	gr. 875	V
Pressure range	0-2 bar / 0-4 bar	
Troodare range	0-8 bar / 0-12 bar	@
Filter pore size	5 μm - 20 μm - 50 μm	
Bowl capacity	34 cm ³	
Indicative oil drip rate	1 drop every	C
maioanvo on any rato	300/600 NI	
Oil type	FD22 - HG32	
Bowl capacity	70 cm ³	
Assembly positions	Vertical	8
Max. fitting torque	G3/8" = 16 Nm	
(with Technopolymer threads)	G5/6 — 10 MIII	
Max. fitting torque	G1/4" = 20 Nm	
(with threaded inserts)	G3/8" = 25 Nm	
Min. operational flow at 6,3 bar	70 NI/min.	•

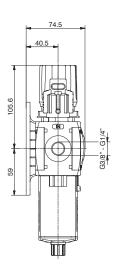
	Ordering code		
	G Ø 172 00 90		
		VERSION	
	V	N = Metal inserts	
_		T = Technopolymer thread	
		CONNECTIONS	
	0	A = G1/4"(only for "N" version)	
	•	B = G3/8"	
		C = G3/8" NPT(only for "N" version)	
		TYPE	
	0	R = Built in gauge	
		C = G1/8" gauge connection	
		FILTER PORE SIZE	
		ADJUSTING RANGE	
		$C = 5 \mu \text{m} / 0-8 \text{bar}$	
	8	$D = 5 \mu m / 0-12 bar$	
	•	$G = 20 \mu \text{m} / 0-8 \text{bar}$	
		$H = 20 \mu m / 0-12 bar$	
		$N = 50 \mu \text{m} / 0-8 \text{bar}$	
		$P = 50 \mu m / 0-12 bar$	
		OPTIONS	
		= Standard *	
		A = Min.oil level indicator NO	
		C = Min.oil level indicator NC	
	0	S = Automatic drain	
		SA = Automatic drain +	
		Min.oil level indicator NC	
		SC = Automatic drain +	
		Min.oil level indicator NC	
		FLOW DIRECTION	

= Standard (from left to right) W = from right to left

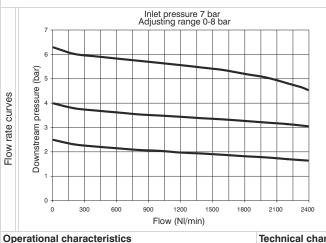
Service unit assembled (VL+EM) (VL+E) (VL+EW)

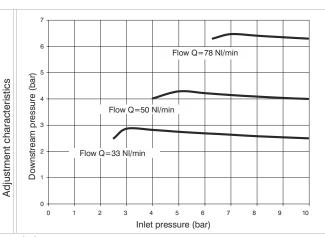






Example: GT172BVGG: size 2 combined group comprising Shut-off valve, Filter-regulator Technopolymer threads, G3/8" connections 0 to 8 bar adjusting range and 20 µm filter pore size





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)

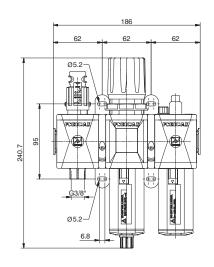
Note

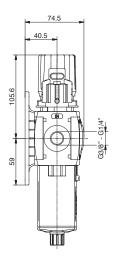
The pressure must be always regulating while increasing. For a more precise regulation and higher sensibility, the use of a regulator with a pressure range as close as possible to the regulated pressure is recommended.

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

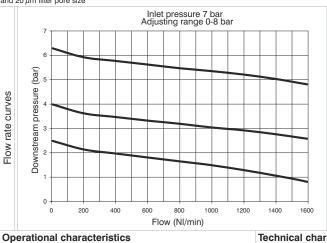
Service unit assembled (VL+EM+L) (VL+E+L) (VL+EW+L)

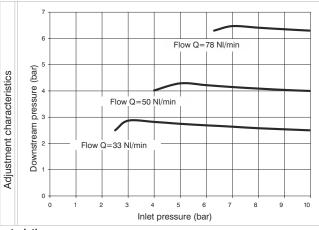






Example: GT172BVHG: size 2 combined group comprising Shut-off valve, Filter-regulator and Lubricator Technopolymer threads, G3/8" connections 0 to 8 bar adjusting range and 20 μm filter pore size





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.

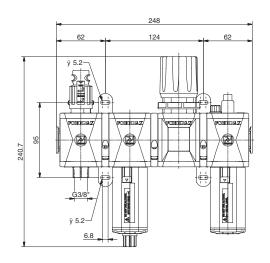
Technical characteristics		
Connections	G 1/4" - G 3/8"	
Max. inlet pressure	13 bar	
Working temperature	-5°C +50°C	
Weight with Technopolymer threads	gr. 856	
Weight with threaded inserts	gr. 886	V
Pressure range	0-2 bar / 0-4 bar	
	0-8 bar / 0-12 bar	0
Filter pore size	5 μm - 20 μm - 50 μm	
Bowl capacity	34 cm³	
Indicative oil drip rate	1 drop every	G
indicative oil drip rate	300/600 NI	
Oil type	FD22 - HG32	
Bowl capacity	70 cm ³	
Assembly positions	Vertical	8
Max. fitting torque	CO/01 10 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.	•

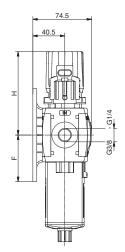
_	Ordering code			
	G Ø 172 00 00			
		VERSION		
	V	N = Metal inserts		
		T = Technopolymer thread		
		CONNECTIONS		
	0	A = G1/4"(only for "N" version)		
	•	B = G3/8"		
		C = G3/8" NPT(only for "N" version)		
		TYPE		
	0	VH = Built in gauge		
		VJ = G1/8" gauge connection		
		FILTER PORE SIZE		
		ADJUSTING RANGE		
		$C = 5 \mu m / 0-8 bar$		
	8	$D = 5 \mu m / 0-12 bar$		
	•	$G = 20 \mu m / 0-8 bar$		
		$H = 20 \mu m / 0-12 bar$		
		$N = 50 \mu m / 0-8 bar$		
		$P = 50 \mu m / 0-12 bar$		
		OPTIONS		
		= Standard *		
		A = Min.oil level indicator NO		
		C = Min.oil level indicator NC		
	0	S = Automatic drain		
		SA = Automatic drain +		
		Min.oil level indicator NC		
		SC = Automatic drain +		
		Min.oil level indicator NC		
		FLOW DIRECTION		

= Standard (from left to right)
W = from right to left

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

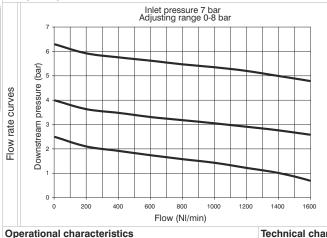


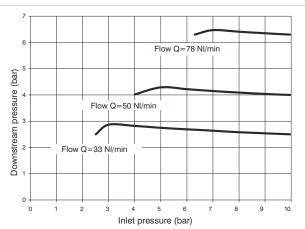




Example: GT172BVKG: size 2 combined group comprising Shut-off valve, Filter, Regulator and Lubricator Technopolymer threads, G3/8" connections 0 to 8 bar adjusting range and 20 μ m filter pore size

Adjustment 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"	Ī
Max. inlet pressure	13 bar	H
Working temperature	-5°C +50°C	
Weight with Technopolymer threads	gr. 997	
Weight with threaded inserts	gr. 1037	(
Pressure range	0-2 bar / 0-4 bar	H
1 ressure range	0-8 bar / 0-12 bar	l,
Filter pore size	5 μm - 20 μm - 50 μm	'
Bowl capacity	34 cm ³	H
Indicative oil drip rate	1 drop every	(
indicative oil drip rate	300/600 NI	L
Oil type	FD22 - HG32	
Bowl capacity	70 cm ³	
Assembly positions	Vertical	
Max. fitting torque	G3/8" = 16 Nm	
(with Technopolymer threads)	G3/6 - 10 NIII	
Max. fitting torque	G1/4" = 20 Nm	L
(with threaded inserts)	G3/8" = 25 Nm	
Min. operational flow at 6,3 bar	70 NI/min.	•

		G ♥ 172 @⊕◎●
		VERSION
	V	N = Metal inserts
		T = Technopolymer thread
		CONNECTIONS
	0	A = G1/4"(only for "N" version)
	•	B = G3/8"
		C = G3/8" NPT(only for "N" version)
	_	TYPE
	0	VK = Built in gauge
		VT = G1/8" gauge connection
		FILTER PORE SIZE
		ADJUSTING RANGE
		$C = 5 \mu \text{m} / 0-8 \text{bar}$
	8	$D = 5 \mu \text{m} / 0 - 12 \text{bar}$
		$G = 20 \mu m / 0-8 bar$
		$H = 20 \mu m / 0-12 bar$
		$N = 50 \mu m / 0.8 bar$
		$P = 50 \mu m / 0-12 bar$
		OPTIONS
		= Standard *
		A = Min.oil level indicator NO
		C = Min.oil level indicator NC
	0	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)

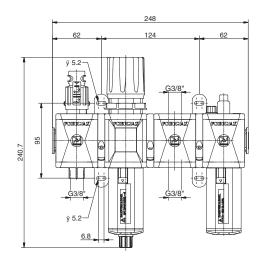
W = from right to left

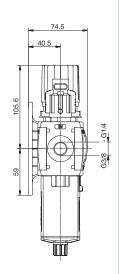
Ordering code



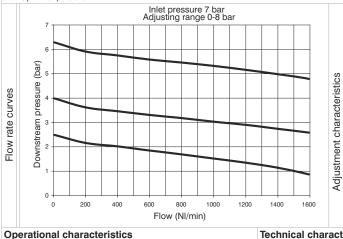
Service unit assembled (VL+EM+PA+L) (VL+E+PA+L) (VL+EW+PA+L)

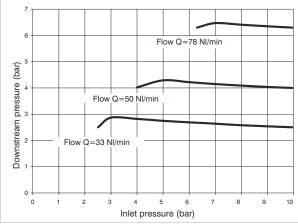






Example: GT172BVNG: size 2 combined group comprising Shut-off valve, Filter-regulator, Air intake and Lubricator Technopolymer threads, G3/8" connections 0 to 8 baradjusting range and 20 μ m filter pore size





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.

	or p. 000 a. 0 (20	a.,
Technical characteristics		
Connections	G 1/4" - G 3/8"	Ordering cod
Max. inlet pressure	13 bar	3 ***
Working temperature	-5°C +50°C	G Ø 172 @G
Weight with Technopolymer threads	gr. 972,5	VERSION
Weight with threaded inserts	gr. 1002,5	■ N = Metal inserts
Ü	0-2 bar / 0-4 bar	T = Technopolymer
Pressure range	0-8 bar / 0-12 bar	CONNECTIONS
		$A = \frac{G1}{4''(\text{only for "N" ve})}$ $B = \frac{G3}{8''}$
Filter pore size	5 μm - 20 μm - 50 μm	C = G3/8" NPT _{(only fo}
Bowl capacity	34 cm ³	TYPE
	1 drop every	VN = Built in gauge
Indicative oil drip rate	300/600 NI	VP = G1/8" gauge
		FILTER PORE SIZE
Oil type	FD22 - HG32	ADJUSTING RANGI
Bowl capacity	70 cm ³	$C = 5 \mu \text{m} / 0-8 \text{bar}$
Assembly positions	Vertical	$D = 5 \mu m / 0-12 bar$
Max. fitting torque		$G = 20 \mu\text{m} / 0.8 \text{bar}$
	G3/8" = 16 Nm	$H = 20 \mu\text{m} / 0-12 \text{ ba}$
(with Technopolymer threads)		$N = 50 \mu \text{m} / 0-8 \text{bar}$
Max. fitting torque	G1/4" = 20 Nm	$P = 50 \mu\text{m} / 0-12 \text{ba}$
(with threaded inserts)	G3/8" = 25 Nm	OPTIONS
(= Standard *
		A = Min.oil level ind
		C = Min.oil level inc
		S = Automatic drain
		SA = Automatic dra
Min. operational flow at 6,3 bar	70 NI/min.	Min.oil level inc
wiiri. Operational flow at 6,3 bar	1 110W at 0,0 bai // NI//[][[].	SC = Automatic dra Min.oil level ind
		ELOW/ DIDECTION

	Ordering code						
G Ø 172 @@ 9@							
	VERSION						

N = Metal inserts T = Technopolymer thread CONNECTIONS A = G1/4"(only for "N" version)

B = G3/8" C = G3/8" NPT(only for "N" version) TYPE VN = Built in gauge VP = G1/8" gauge connection

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

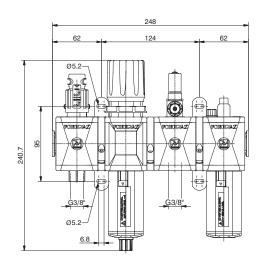
C = Min.oil level indicator NC S = Automatic drain

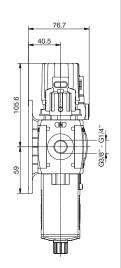
Min.oil level indicator NO SC = Automatic drain + Min.oil level indicator NC FLOW DIRECTION

= Standard (from left to right) W = from right to left

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

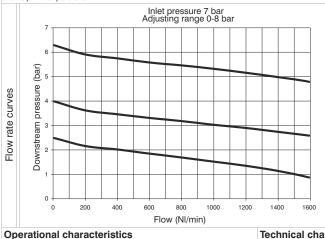


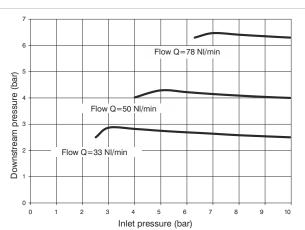




Example: GT172BVRG: size 2 combined group comprising Shut-off valve, Filter-regulator, Pressure switch and Lubricator Technopolymer threads, G3/8" connections adjusting range 0 to 8 bar and 20 µm filter pore size

Adjustment characteristics



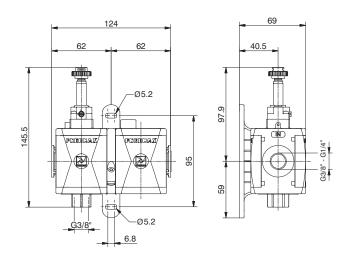


Combined group comprising manual shut-off valve, Filter -						
regulator with built in manometer, Pressure switch and						
Lubricator, assembled with two (Y) type coupling kits for panel						
mounting and one (X) type coupling kit.						
Integrated manometer 0-12 bar as standard						
(for 0-8 and 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						
war wildten with a management was an along an area in a state						

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.

Bowl capacity 1 drop every 300/600 NI TYPE VR = Built in gauge VC = G1/8" gauge connecti FLTER PORE SIZE ADJUSTING RANGE C = 5 μm / 0-8 bar D = 5 μm / 0-12 bar N = 50 μm / 0-12 bar	iniet pressure (bar)					
Max. inlet pressure Working temperature -5°C +50°C Weight with Technopolymer threads Weight with threaded inserts 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 Bowl capacity Indicative oil drip rate 0il type FD22 - HG32 Bowl capacity Assembly positions Max. fitting torque (with Technopolymer threads) Max. fitting torque (with Technopolymer threads) Max. fitting torque (with threaded inserts) Min. operational flow at 6,3 bar Min. operational flow at 6,3 bar Pressure range 0-2 bar / 0-4 bar 0-8 bar / 0-12 bar 1 drop every 300/600 NI TYPE VR = Built in gauge VC = G1/8" gauge connecti FILTER PORE SIZE ADJUSTING RANGE C = 5 μm / 0-8 bar H = 20 μm / 0-8 bar H = 20 μm / 0-8 bar D = 5 μm / 0-12 bar G = 20 μm / 0-8 bar H = 20 μm / 0-12 bar G = 20 μm /	Technical characteristics					
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Weight with Technopolymer threads Weight with threaded inserts Pressure range Pressure range Filter pore size Bowl capacity Indicative oil drip rate Oil type Bowl capacity Assembly positions Max. fitting torque (with Technopolymer threads) Max. fitting torque (with threaded inserts) Max. fitting torque (with threaded inserts) Max. fitting torque (with threaded inserts) Min. operational flow at 6,3 bar Werson O-2 bar / 0-4 bar 0-2 bar / 0-12 bar 0-8 bar / 0-12 bar 0-8 bar / 0-12 bar 0-9 μm - 50 μm 8 = G3/8" C = G3/8" NPT(only for ''N' version') B = G3/8" C = G3/8" NPT(only for ''N' version') B = G3/8" C = G3/8" NPT(only for ''N' version') B = G3/8" C = G3/8" NPT(only for ''N' version') B = G3/8" C = G3/8" NPT(only for ''N' version') B = G3/8" C = G3/8" NPT(only for ''N' version') B = G3/8" C = G3/8" NPT(only for ''N' version') C = Min. oil aguage VC = G1/8" gauge connecti FILTER PORE SIZE ADJUSTING RANGE C = 5 μm / 0-8 bar D = 5 μm / 0-12 bar N = 50 μm / 0-8 bar N = 50 μm / 0-12 bar N	Max. inlet pressure	13 bar				
Weight with threaded inserts Pressure range O-2 bar / 0-4 bar O-8 bar / 0-12 bar Filter pore size Bowl capacity Indicative oil drip rate Oil type Bowl capacity Assembly positions Max. fitting torque (with Technopolymer threads) Max. fitting torque (with threaded inserts) Max. fitting torque (with threaded inserts) Min. operational flow at 6,3 bar N = Mettal inserts T = Technopolymer thread CONNECTIONS T = Technopolymer thread CONNECTIONS B = G3/8" C = G3/8" NPT(only for 'N' version') B = G3/8" C = G1/8" part only for 'N' version') Type C = G1/8" part only for 'N' ver	Working temperature	-5°C +50°C		G Ø 172 ØØ 900		
Pressure range Pressure range O-2 bar / 0-4 bar O-8 bar / 0-12 bar Filter pore size Bowl capacity Indicative oil drip rate Oil type Bowl capacity Assembly positions Max. fitting torque (with Technopolymer threads) Max. fitting torque (with threaded inserts) Ga/8" = 25 Nm T = Technopolymer thread CONNECTIONS A = G1/4"(enly for "N" version) B = G3/8" C = G3/8" NPT(only for "N" version) TYPE VR = Built in gauge VC = G1/8" gauge connecti FILTER PORE SIZE ADJUSTING RANGE C = 5 μm / 0-8 bar C = 5 μm / 0-8 bar D = 5 μm / 0-12 bar M = 20 μm / 0-8 bar N = 50 μm / 0-8 bar N = 50 μm / 0-12 bar N = 50 μm / 0	Weight with Technopolymer threads	gr. 1056		VERSION		
Pressure range 0-2 bar / 0-4 bar 0-8 bar / 0-12 bar Filter pore size 5 μm - 20 μm - 50 μm 1 drop every 300/600 NI Filter pore size 1 drop every 300/600 NI Oil type FD22 - HG32 Bowl capacity FD22 - HG32 Bowl capacity FD22 - HG32 Assembly positions Max. fitting torque (with Technopolymer threads) Max. fitting torque (with Technopolymer threads) Max. fitting torque (with threaded inserts) G3/8" = 16 Nm G3/8" = 25 Nm G3/8" = 25 Nm CONNECTIONS A = G1/4"(conly for 'N' version) B = G3/8" C = G3/8" NPT (only for 'N' version) TYPE VR = Built in gauge VC = G1/8" gauge connecti FILTER PORE SIZE ADJUSTING RANGE C = 5 μm / 0-12 bar G = 20 μm / 0-8 bar H = 20 μm / 0-12 bar N = 50 μm / 0-8 bar N = 50 μm / 0-12 bar	Weight with threaded inserts	gr. 1086	V			
Filter pore size 5 μm - 20 μm - 50 μm C = G3/8" NPT(only for ™ version) B = G3/8" C = G3/8" NPT(only for ™ version) B = G3/8" C = G3/8" NPT(only for ™ version) B = G3/8" C = G3/8" NPT(only for ™ version) B = G3/8" C = G3/8" NPT(only for ™ version) C = G3/8" NPT(only for ™ version C = G3/8" NPT(only for N v	D	0-2 bar / 0-4 bar		· · · · · · · · · · · · · · · · · · ·		
Filter pore size Bowl capacity Indicative oil drip rate Oil type Bowl capacity Type Solution FD22 - HG32 Bowl capacity Assembly positions Max. fitting torque (with Technopolymer threads) Max. fitting torque (with threaded inserts) Min. operational flow at 6,3 bar Filter pore size 34 cm³ 1 drop every 300/600 NI FD22 - HG32 FD22 - HG32 ADJUSTING RANGE C = 5 μm / 0-8 bar D = 5 μm / 0-12 bar G = 20 μm / 0-8 bar P = 50 μm / 0-8 bar P = 50 μm / 0-12 bar N = 50 μm / 0-12 bar OPTIONS Standard * A = Mtin.oil level indicator N SC = Automatic drain + Min.oil level indicator N FLOW DIRECTION Standard FLOW DIRECTION Standard Standard	Pressure range	0-8 har / 0-12 har				
Bowl capacity Indicative oil drip rate 1 drop every 300/600 NI Oil type Bowl capacity Assembly positions Max. fitting torque (with Technopolymer threads) Max. fitting torque (with threaded inserts) Gal/8" = 25 Nm TYPE VR = Built in gauge VC = G1/8" gauge connecti 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 / 0-12 b	Filter nore size	<u> </u>	•			
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Solution Solutio	вомі сарасіту		-			
300/600 NI Oil type FD22 - HG32 Bowl capacity Assembly positions Max. fitting torque (with Technopolymer threads) Max. fitting torque (with threaded inserts) G3/8" = 16 Nm (with threaded inserts) G3/8" = 25 Nm FLER PORE SIZE ADJUSTING RANGE C = 5 μm / 0-8 bar D = 5 μm / 0-12 bar G = 20 μm / 0-12 bar N = 50 μm	Indicative oil drip rate	1 drop every	•			
Oil type Bowl capacity Assembly positions Max. fitting torque (with Technopolymer threads) Max. fitting torque (with threaded inserts) G3/8" = 16 Nm (With threaded inserts) G3/8" = 25 Nm G3/8" = 25 Nm 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 / 0-10 bar N = Standard * A = Min.oil level indicator N G = Automatic drain + Min.oil level indicator N SC = Automatic drain + Min.oil level indicator N FLOW DIRECTION = Standard		300/600 NI				
Bowl capacity Assembly positions Max. fitting torque (with Technopolymer threads) Max. fitting torque (with threaded inserts) G3/8" = 16 Nm G3/8" = 25 Nm G=20 μm / 0-12 bar G=20 μm / 0-8 bar H=20 μm / 0-12 bar N=50 μm / 0-8 bar H=20 μm / 0-12 bar N=50 μm / 0-8 bar P=50 μm / 0-12 bar N=50 μ	Oil type	FD22 - HG32				
Assembly positions Max. fitting torque (with Technopolymer threads) Max. fitting torque (with Technopolymer threads) Max. fitting torque (with threaded inserts) G3/8" = 16 Nm G3/8" = 20 Nm G3/8" = 25 Nm G=20 μm / 0-12 bar N = 50 μm /	**	70 cm ³				
Max. fitting torque (with Technopolymer threads) Max. fitting torque (with Technopolymer threads) Max. fitting torque (G1/4" = 20 Nm (S3/8" = 25 Nm) G= $20 \mu m / 0.8 \text{ bar}$ $P = 50 \mu m / 0.12 \text{ bar}$ $P = 50 \mu m / 0.12 \text{ bar}$ $P = 50 \mu m / 0.12 \text{ bar}$ OPTIONS $P = 10 \mu m / 0.12 \mu $			-			
Max. fitting torque G3/8" = 16 Nm H = $20 \mu \text{m} / 0.12 \text{bar}$ N = $50 \mu \text{m} / 0.9 \text{bar}$ P = $50 \mu \text{m} / 0.12 \text{bar}$ OPTIONS Standard * A = Min.oil level indicator N C = Min.oil level indicator N C = Min.oil level indicator N SC = Automatic drain + Min.oil level indicator N SC = Automatic drain + Min.oil level indicator N SC = Automatic drain + Min.oil level indicator N SC = Standard	7 1	vertical	8			
Max. fitting torque (with threaded inserts) So μm / 0-8 bar P = 50 μm / 0-12 bar OPTIONS	Max. fitting torque	ax. fitting torque		-		
Max. fitting torque (with threaded inserts) G3/8" = 25 Nm P = 50 μm / 0-12 bar OPTIONS = Standard * A = Min.oil level indicator N C = Min.oil level indicator N S = Automatic drain + Min.oil level indicator N SC = Automatic drain + Min.oil level indicator N SC = Automatic drain + Min.oil level indicator N FLOW DIRECTION = Standard	(with Technopolymer threads)	G3/6 = 10 MII				
(with threaded inserts) G3/8" = 25 Nm OPTIONS = Standard * A = Min.oil level indicator N C = Min.oil level indicator N S = Automatic drain + Min.oil level indicator N SC = Automatic drain + Min.oil level indicator N SC = Automatic drain + Min.oil level indicator N FLOW DIRECTION = Standard	Max. fitting torque	G1/4" = 20 Nm				
Standard * A = Min.oil level indicator N C = Min.oil level indicator N S = Automatic drain + Min.oil level indicator N SC = Automatic drain + Min.oil level indicator N SC = Automatic drain + Min.oil level indicator N FLOW DIRECTION ■ Standard	3 1	· ·		OPTIONS		
C = Min.oil level indicator N S = Automatic drain + Min.oil perational flow at 6,3 bar 70 NI/min. C = Min.oil level indicator N S = Automatic drain + Min.oil level indicator N SC = Automatic drain + Min.oil level indicator N FLOW DIRECTION = Standard	(with threaded inserts)	G3/6 = 25 NIII		= Standard *		
Min. operational flow at 6,3 bar 70 NI/min. S = Automatic drain + Min.oil level indicator N SC = Automatic drain + Min.oil level indicator N FLOW DIRECTION Standard				A = Min.oil level indicator NO		
Min. operational flow at 6,3 bar 70 NI/min. SC = Automatic drain + Min.oil level indicator N FLOW DIRECTION SC = Standard				C = Min.oil level indicator NC		
Min. operational flow at 6,3 bar 70 NI/min. Min.oil level indicator N SC = Automatic drain + Min.oil level indicator N FLOW DIRECTION = Standard			•	S = Automatic drain		
Min. operational flow at 6,3 bar 70 NI/min. SC = Automatic drain + Min.oil level indicator N FLOW DIRECTION = Standard						
Min.oil level indicator N FLOW DIRECTION Standard				Min.oil level indicator NO		
FLOW DIRECTION Standard	Min. operational flow at 6,3 bar	70 NI/min.				
= Standard				Min.oil level indicator NC		
(b)				FLOW DIRECTION		
(from left to right)				= Standard		
			9	(from left to right)		
W = from right to left				W = from right to left		





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			
for panel mounting.	Min. inlet pressure	2.5 bar		GØ 172 @ S Ø	
	Working temperature	-5°C +50°C	O A E C C C C A A A A	VERSION	
	Weight with Technopolymer threads	gr. 373		N = Metal inserts	
	Weight with threaded inserts	gr. 393		T = Technopolymer thread	
				CONNECTIONS	
	Assembly positions	Indifferent		A = G1/4"(only for "N" version)	
	Max. fitting torque	G3/8" = 16 Nm		B = G3/8" C = G3/8" NPT(only for "N" vers	
	(with Technopolymer threads)	G6/6 = 16 14111		15 mm COIL VOLTAGE	
	Max. fitting torque	G1/4" = 20 Nm		A4 = 12 V DC	
	(with threaded inserts)	G3/8" = 25 Nm		A5 = 24 V DC	
	(With threaded inserts)	G5/6 = 25 NIII		A6 = 24 V AC (50-60 Hz)	
	Flow at 6 bar with $\Delta p = 1$ 1800 NI/min.		A7 = 110 V AC (50-60 Hz)		
				A8 = 220 V AC (50-60 Hz)	
				A9 = 24 V DC (1 Watt)	
			a	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)	