

General

The operational safety and durability of a pneumatic circuit depends on the quality of the compressed air. The compressed air and the moisture increase the rate of wear of the surfaces and seals, reducing the efficiency and the life of the pneumatic components. Furthermore the pressure fluctuation due to a discontinuous demand of air, adversely effect the correct operation of the circuit. To eliminate these disadvantages it is essential to install the service units: filter, pressure regulator and lubricator.

Construction and working characteristics

The great advantage of these Air Service Unit's components is their Modular Design which allows their assembly without the use of additional devices.

Two different version have been designed for this size: one made with zinc alloy body and the other with reinforced technopolymer body and threaded brass connections.

The bowls are made of transparent technopolymer and are also available with shock resistant technopolymer protection on request, always allowing the moisture and oil level control from any angle.

The filter can be equipped with manual or semiautomatic water drain valve; furthermore it's possible to install the automatic draining device inside the bowl.

The pressure regulator handle is lockable in the desired position by simply pressing it downwards.

The lubricator oil flow is adjustable with proper handle and it is visibly checked through the sight dome.

The shut-off valve can be equipped with pad-lock to prevent accidents or damages due to unauthorized operation.

The progressive start-up valve, pneumatically or electropneumatically controlled, allows air supply to the circuit progressively and with adjustable time.

The accessories like the wall fixing brackets, pressure gauges with different scales and diameters and the air intake blocks are completing the range. They are assembled between the elements to get filtered or filtered non-lubricated air in the system.

Instruction for installation and operation

Pay attention to install a group or a single component with air flow direction according to the arrows and to the following sequence: filter, pressure regulator, lubricator and with bowls downwards. The group can be fixed to the wall by removing the covers, which can be installed again after fixing for covering the screws.

Do not exceed the recommended torque while assembling the connectors.

Do not exceed the recommended air pressure and temperature limits.

The moisture should not exceed the level marked on the bowl and it can be drawn off and carried by a flexible tube of Ø 6/4 directly connected to the discharge valve handle. The pressure should be set from minimum to maximum, rotating the adjusting handle clockwise. As lubricant, we suggest to use oil class FD22 or HG32. Verify that the lubricator is not fed with a flow lower than the minimum operational.

To set the oil flow rotate the proper adjusting handle in order to get one drop of oil every 300-600 liters of air.

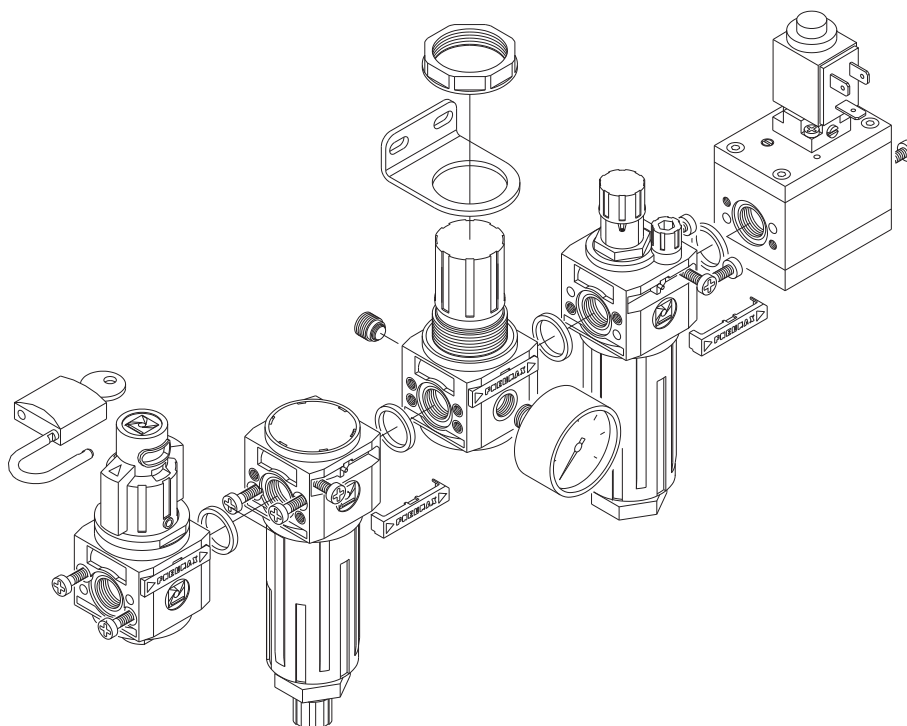
The oil flow will be kept automatically and proportionally to the air flow.

The oil can be refilled by mean of proper plug or directly into the bowl after having de-pressurized the system. Do not exceed the maximum level indicated on the bowl. For opening the shut-off valve push and rotate clockwise the operating handle. For closing it and consequently discharging the down stream line, rotate the handle counter-clockwise.

Maintenance

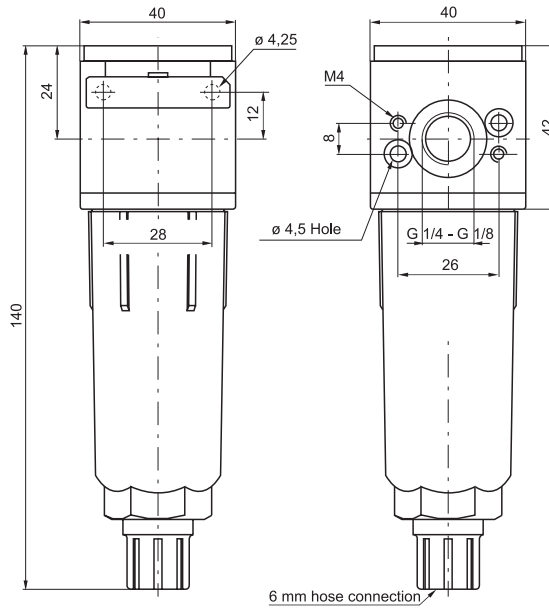
Clean the bowls with water and detergent. Do not use alcohol. The filter element made with HPDE is reusable by blowing and cleaning it with proper detergent. For replacing or cleaning it, remove the bowl and unscrew the baffle spins. Replace the pressure regulator diaphragm whenever the operation is not correct or there is a continuous air leaking through the relieving (over pressure discharge); reinstall the adjusting mechanism support, locking it with about 8 Nm torque. In case it is necessary to replace the lubricator transparent dome, tight it at 5 Nm torque maximum.

Assembling





Filter

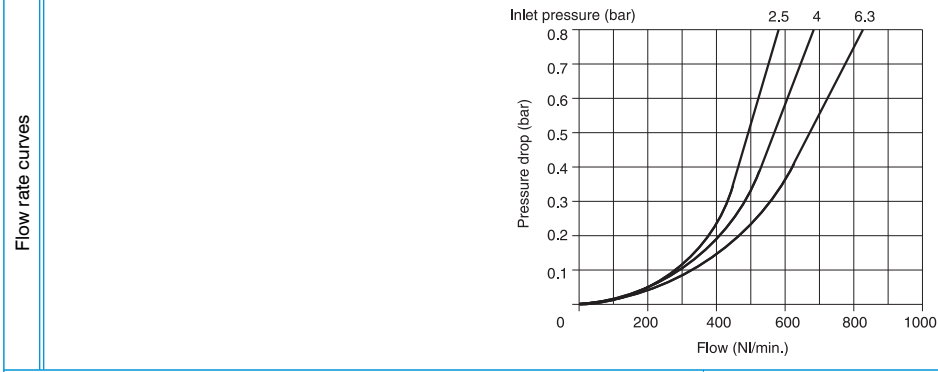


Ordering code

17V01C.S.T

VERSION	
V	0 = Zinc alloy body 1 = Technopolymer body
CONNECTIONS	
C	A = G 1/8" B = G 1/4"
Filter pore size	
S	A = 5μ B = 20μ C = 50μ
TYPE	
P	Bowl protection
T	Automatic drain
PS	Bowl protection and Automatic drain

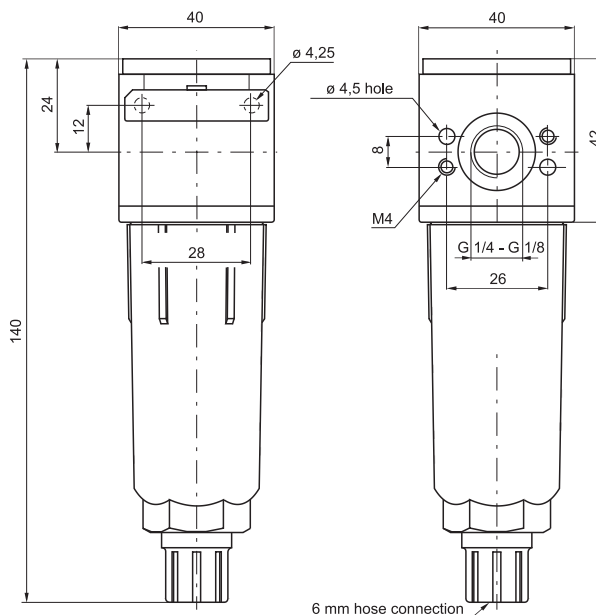
Example: 17101A.B.P
Filter size 1 with G 1/8" connections, filter pore size 20μ and bowl protection with technopolymer body.



Operational characteristic	Technical characteristic	
- Double filtering action: by air centrifuging and by replaceable and reusable HDPE porous filter element.	Connections	G 1/8" - G 1/4"
- Zinc alloy body or reinforced technopolymer body with threaded aluminium insert connections.	Max working pressure (bar)	13 bar - 1,3 MPa
- Wall mounting possibility with M4 screws protected by covers.	Minimum working pressure with automatic drain (bar)	0,5
- Transparent technopolymer bowl screwed to the body.	Maximum working pressure with automatic drain (bar)	10
- Shock resistant bowl technopolymer protection.	Temperature °C	50°C
- Manual and semi-automatic water drain valve; in the semi-automatic version the drainage happens when there is no pressure or by pushing the valve up-wards.	Weight with technopolymer body	gr. 103
- Possibility to see the water level on 360° also with bowl protection assembled.	Weight with zinc alloy body	gr. 218
- Automatic water drainage bowl available on request.	Filter pore size	5μ - 20μ - 50μ
	Bowl capacity	20 cm³
	Assembly position	Vertical
	Wall fixing screw	M4
	Max. fittings torque on zinc alloy body	30 Nm
	Max. fittings torque on technopolymer body	15 Nm



Coalescing filter



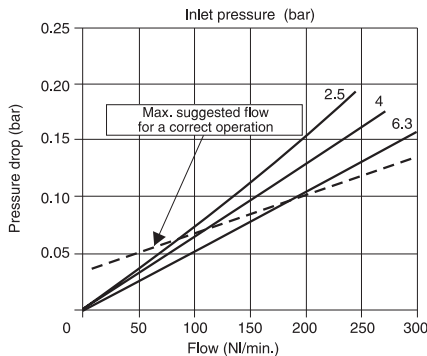
Ordering code

17V08C.E.T

V	VERSION
0	Zinc alloy body
1	Technopolymer body
C	CONNECTIONS
A	G 1/8"
B	G 1/4"
E	FILTER EFFICIENCY
E	99,97%
T	TYPE
P	Bowl protection
S	Automatic drain
PS	Bowl protection and Automatic drain

Example: 17108A.E.P
Filter size 1 with G 1/8" connections. Filter efficiency 99,97% and bowl protection with technopolymer body.

Flow rate curves



Operational characteristic

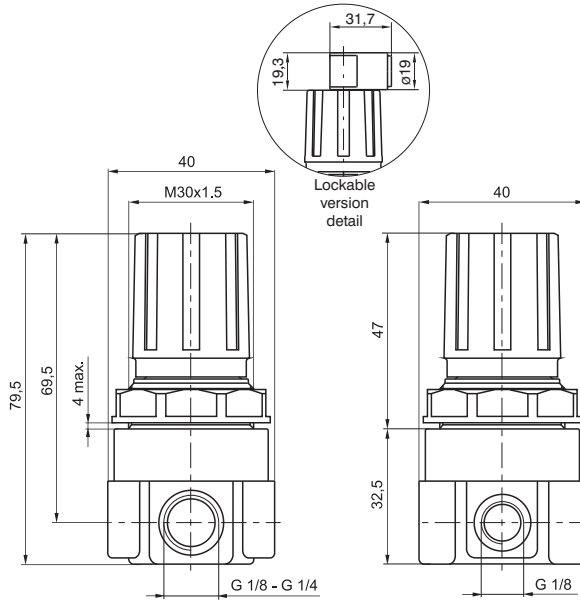
- Coalescing filter element remove 0,01 μ particle equivalent to 99,97%.
- Zinc alloy body or reinforced technopolymer body with threaded aluminium insert connections.
- Wall mounting possibility with M4 screws protected by covers.
- Transparent technopolymer bowl screwed to the body.
- Shock resistant bowl technopolymer protection.
- Manual and semi-automatic water drain valve; in the semi-automatic version the drainage happens when there is no pressure or by pushing the valve up-wards.
- Possibility to see the water level on 360° also with bowl protection assembled.
- Automatic water drainage bowl available on request.

Technical characteristic

Connections	G 1/8" - G 1/4"
Max working pressure (bar)	13 bar - 1,3 MPa
Minimum working pressure with automatic drain (bar)	0,5
Maximum working pressure with automatic drain (bar)	10
Temperature °C	50°C
Weight with technopolymer body	gr. 110
Weight with zinc alloy body	gr. 225
Filter efficiency with 0,01 μ particle	99,97%
Bowl capacity	20 cm ³
Assembly position	Vertical
Wall fixing screw	M4
Max. fittings torque on zinc alloy body	30 Nm
Max. fittings torque on technopolymer body	15 Nm



Panel mounting pressure regulator

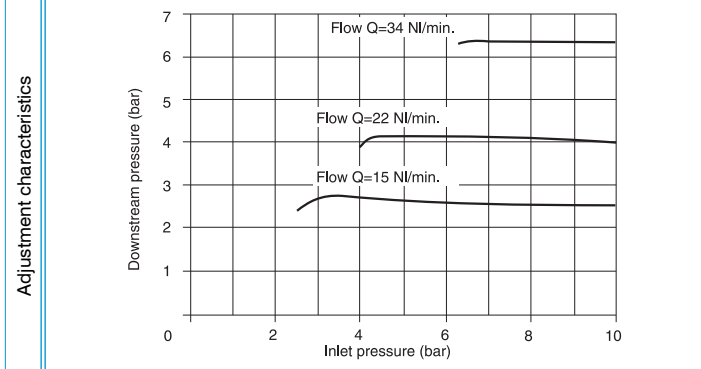
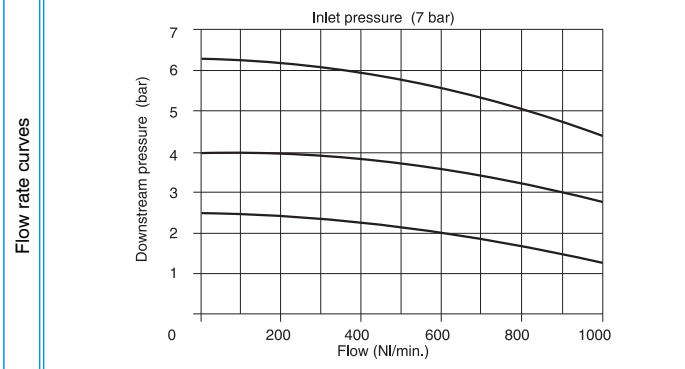


Ordering code

17109C.C.T.O

CONNECTIONS	
C	A = G 1/8"
	B = G 1/4"
ADJUSTING RANGE	
	A = 0 - 2 bar
C	B = 0 - 4 bar
	C = 0 - 8 bar
	D = 0 - 12 bar
TYPE	
	L = no Relieving
	SM = improved relieving
T	SR = Quick exhaust (Unbalanced poppet)
	SRM = Quick exhaust with improved relieving
	SMF = Improved relieving with controlled refiel
OPTION	
C	Standard (without options)
	K = Version with padlock

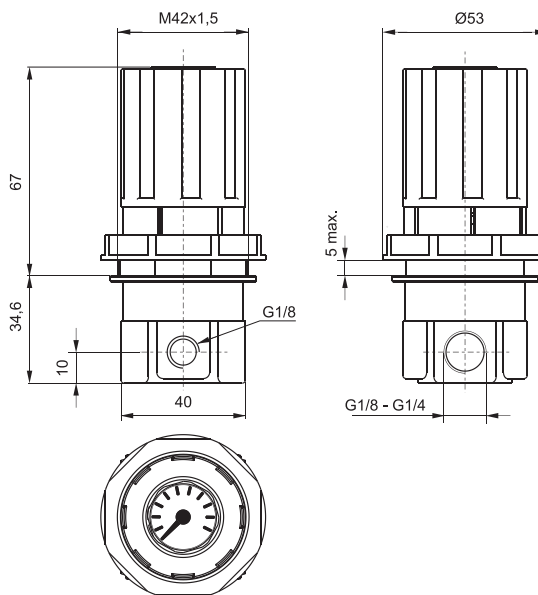
Example: 17109A.C
Panel mounting pressure regulator size 1 with G 1/8" connections, 0 - 8 bar adjusting range with relieving.



Operational characteristic	Technical characteristic	
- Diaphragm pressure regulator with relieving.	Connections	G 1/8" - G 1/4"
- Balanced poppet.	Max working pressure (bar)	13 bar - 1,3 MPa
- Technopolymer body with aluminum reinforced threaded connections.	Temperature °C	50°C
- Handle lockable in the desired position by simply pressing it downwards.	Pressure gauge connections	G 1/8"
- Two pressure gauge connections with plug complete of seal.	Weight	gr. 110
- Panel mounting bracket.	Pressure range (bar)	0 - 2 / 0 - 4 / 0 - 8 / 0 - 12
	Assembly position	Any
	Max. fittings torque	15 NmMax. fittings torque on technopolymer body

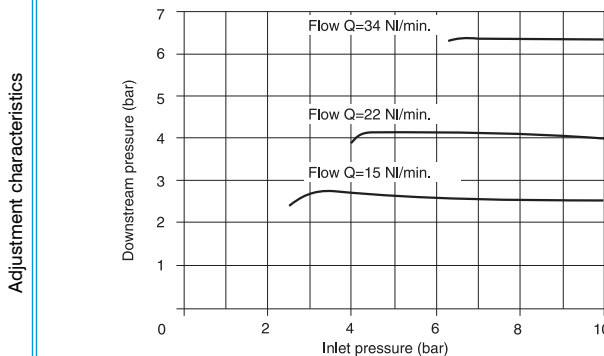
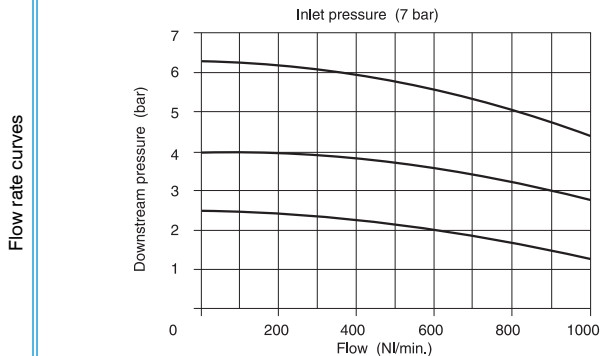


Panel mounting pressure regulator including manometer



Ordering code	
17129 C C	
CONNECTIONS	
C	A = G 1/8"
	B = G 1/4"
ADJUSTING RANGE	
C	A = 0 - 2 bar
	B = 0 - 4 bar
	C = 0 - 8 bar
	D = 0 - 12 bar

Example: 17129A.C
Panel mounting pressure regulator size 1 with G 1/8" connections, 0 - 8 bar.



Operational characteristic

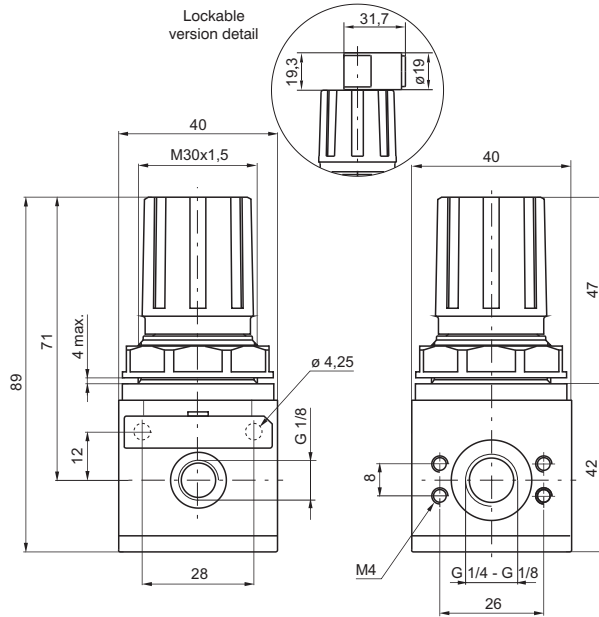
- Diaphragm pressure regulator with relieving.
- Balanced poppet.
- Technopolymer body with aluminum reinforced threaded connections.
- Handle lockable in the desired position by simply pressing it downwards.
- Including manometer in the handle upper surface.
- Panel mounting bracket.

Technical characteristic

Connections	G 1/8" - G 1/4"
Max working pressure (bar)	13 bar - 1,3 MPa
Temperature °C	50°C
Pressure gauge connections	G 1/8"
Weight	gr. 250
Pressure range (bar)	0 - 2 / 0 - 4 / 0 - 8 / 0 - 12
Assembly position	Any
Max. fittings torque	15 Nm



Modular pressure regulator



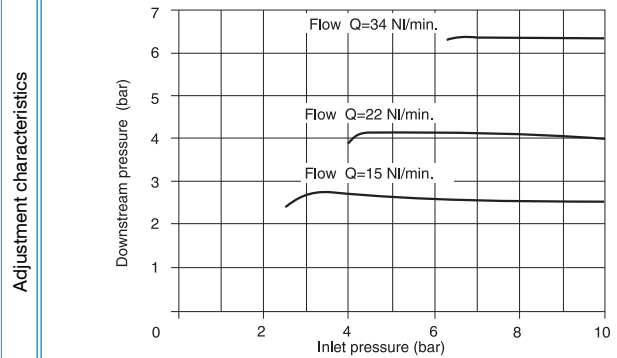
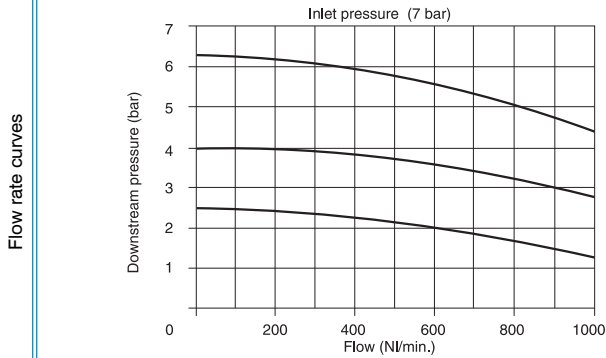
Ordering code

17V02C.G.T.O

VERSION	
V	0 = Zinc alloy body 1 = Technopolymer body
CONNECTIONS	
C	A = G 1/8" B = G 1/4"
ADJUSTING RANGE	
G	A = 0 - 2 bar B = 0 - 4 bar C = 0 - 8 bar D = 0 - 12 bar
TYPE	
T	L = no Relieving SM = improved relieving
OPTION	
O	Standard (without options) K = Version with padlock

Example: 17102A.C

Pressure regulator size 1 with G 1/8" connections and 0 - 8 bar adjusting range with relieving with technopolymer body.



Operational characteristic

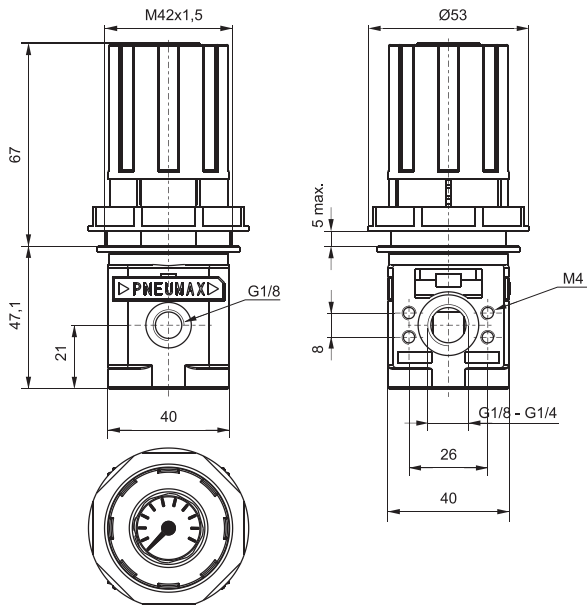
- Diaphragm pressure regulator with relieving.
- Balanced poppet.
- Zinc alloy body or reinforced technopolymer body with threaded aluminium insert connections.
- Wall mounting possibility with M4 screws protected by covers.
- Handle lockable in the desired position by simply pressing it downwards.
- Two pressure gauge connections with plug complete of seal.
- Panel mounting bracket.

Technical characteristic

Connections	G 1/8" - G 1/4"
Max working pressure (bar)	13 bar - 1,3 MPa
Temperature °C	50°C
Pressure gauge connections	G 1/8"
Weight with technopolymer body	gr. 135
Weight with zinc alloy body	gr. 250
Pressure range (bar)	0 - 2 / 0 - 4 / 0 - 8 / 0 - 12
Assembly position	Any
Wall fixing screw	M4
Max. fittings torque on zinc alloy body	25 Nm
Max. fittings torque on technopolymer body	15 Nm



Modular pressure regulator including manometer

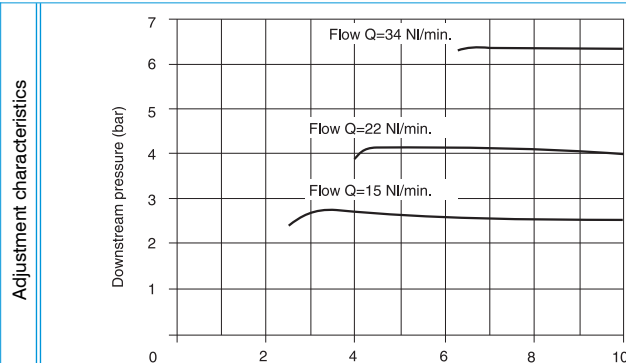
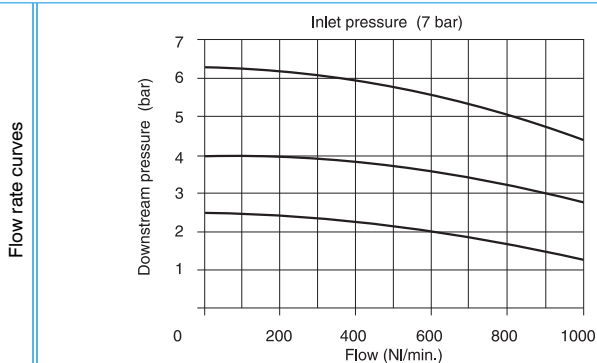


Ordering code

17V22C.G

VERSION	
0	Zinc alloy body
1	Technopolymer body
CONNECTIONS	
A	G 1/8"
B	G 1/4"
ADJUSTING RANGE	
A	0 - 2 bar
B	0 - 4 bar
C	0 - 8 bar
D	0 - 12 bar

Example: 17022A.C
Pressure regulator size 1 with G 1/8" connections and 0 - 8 bar adjusting range with relieving with Zinc alloy body.



Operational characteristic

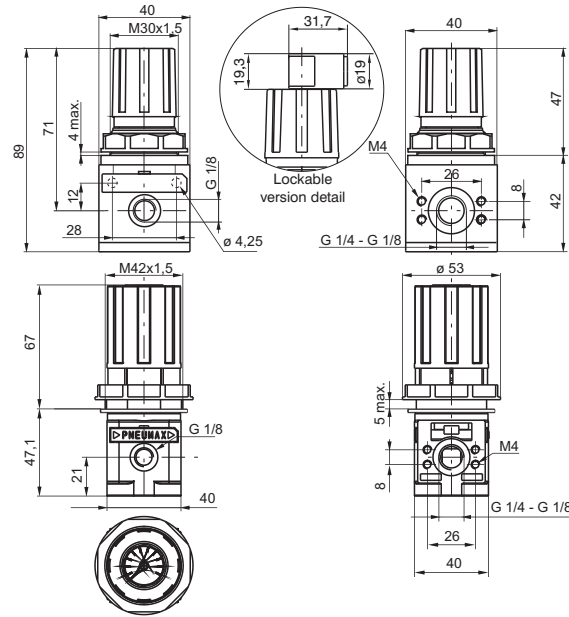
- Diaphragm pressure regulator with relieving.
- Pressure gauge included on the top of adjusting knob.
- Balanced poppet.
- Zinc alloy body or reinforced technopolymer body with threaded aluminium insert connections.
- Wall mounting possibility with M4 screws protected by covers.
- Lockable handle by simply pressing it downwards in the desired position.
- Panel mounting bracket.

Technical characteristic

Connections	G 1/8" - G 1/4"
Max working pressure (bar)	13 bar - 1,3 MPa
Temperature °C	50°C
Pressure gauge connections	G 1/8"
Weight with technopolymer body	gr. 250
Weight with zinc alloy body	gr. 380
Pressure range (bar)	0 - 2 / 0 - 4 / 0 - 8 / 0 - 12
Assembly position	Any
Wall fixing screw	M4
Max. fittings torque on zinc alloy body	25 Nm
Max. fittings torque on technopolymer body	15 Nm



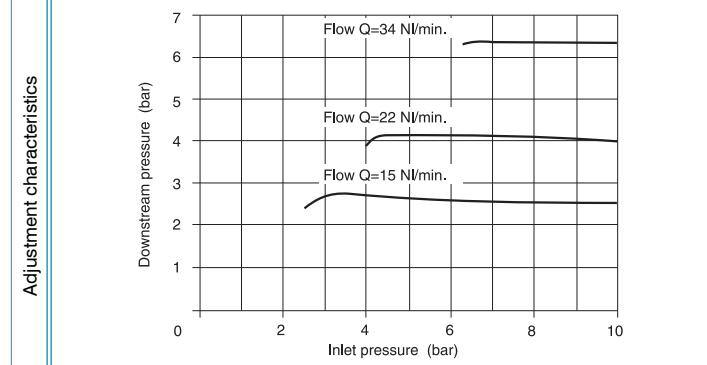
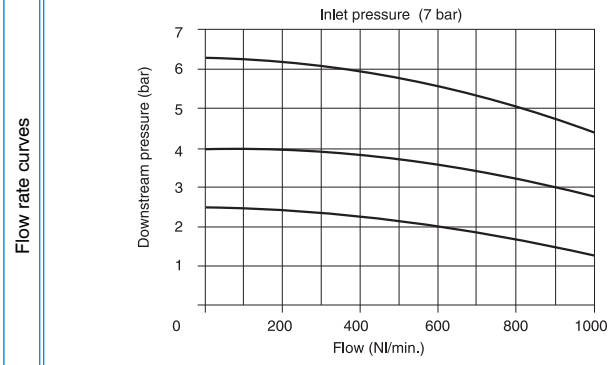
Manifold pressure regulators



Ordering code
170T2C.G.Ø

- TYPE
 B = Standard regulator
 T = Manifold press. reg. c/w manometer c/w manometer
- CONNECTIONS
 A = G 1/8"
 B = G 1/4"
- ADJUSTING RANGE
 A = 0 - 2 bar
 B = 0 - 4 bar
 C = 0 - 8 bar
 D = 0 - 12 bar
- OPTION
 Standard regulator TYPE "B" (without options)
 K = Version with padlock (available only for Standard version TYPE "B")

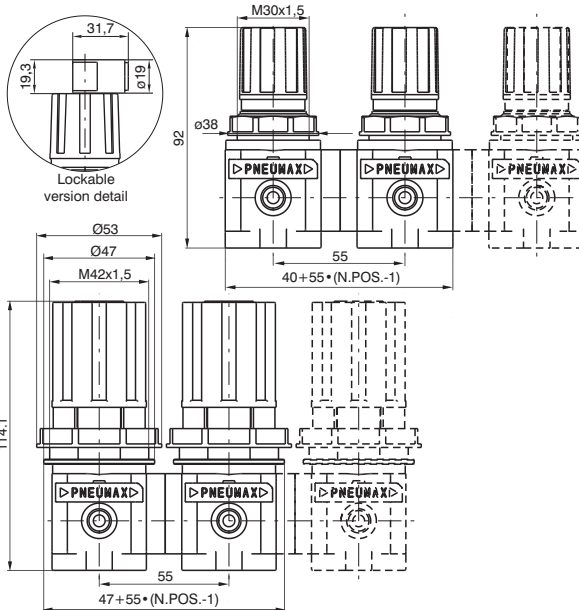
Example: 170B2A.C
Standard manifold pressure regulator with connections G1/8" and adjusting range 0-8 bar.



Operational characteristic	Technical characteristic
- Pneumax modular regulators have a common inlet for the whole manifold joined by a bayonet system.	Connections: G 1/8" - G 1/4"
- Alternatively to standard version it is also possible to use regulators with manometer included.	Max working pressure (bar): 13 bar - 1,3 MPa
- This solution allows space savings on machine and avoids further pneumatic connections among regulators and manometers.	Temperature °C: 50°C
	Pressure gauge connections: G 1/8"
	Weight with technopolymer body: gr. 235
	Weight with zinc alloy body: gr. 380
	Pressure range (bar): 0 - 2 / 0 - 4 / 0 - 8 / 0 - 12
	Assembly position: Any
	Wall fixing screw: M4
	Max. fittings torque: 25 Nm



Manifold pressure regulators

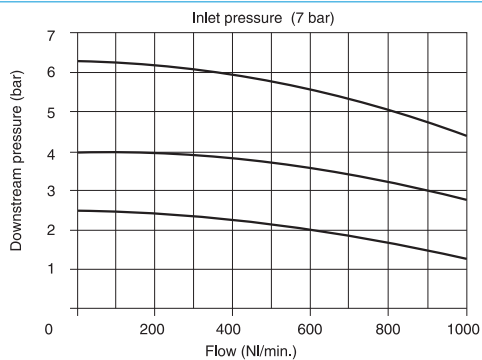


Ordering code	
17B12C.N.G.0	
TYPE	
T	B = Standard regulator
	M = vers. manometer included
CONNECTIONS	
C	A = G 1/8"
	B = G 1/4"
POSITIONS N.	
N	2 = 2 regulators
	3 = 3 regulators
	4 = 4 regulators
	5 = 5 regulators
	6 = 6 regulators
ADJUSTING RANGE	
G	A = 0 - 2 bar
	B = 0 - 4 bar
	C = 0 - 8 bar
	D = 0 - 12 bar
OPTION	
0	Standard regulator TYPE "B" (without options)
	K = Version with padlock (available only for Standard version TYPE "B")

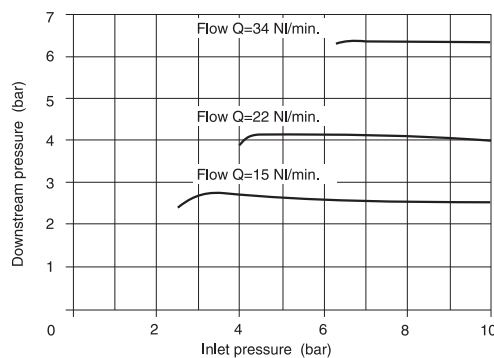
Note: a special kit between pressure regulators is necessary for manifold mounting. Therefore regulators and kits must be ordered in same quantity less one kit. Code 170M6, see accessories page.

3

Flow rate curves



Adjustment characteristics



Operational characteristic

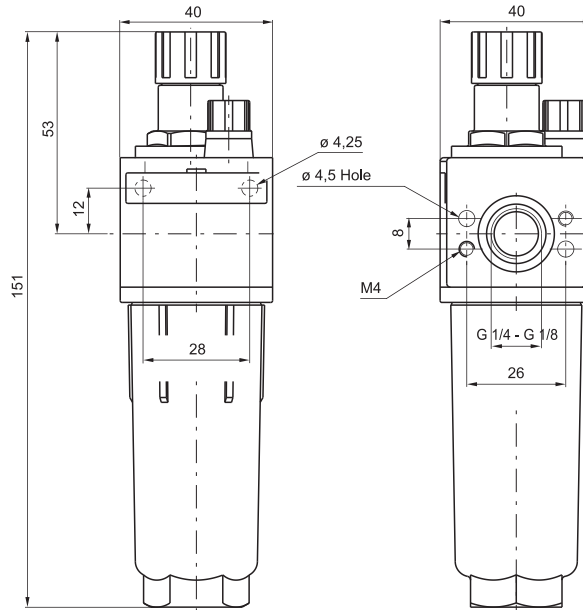
- Pneumax modular regulators have a common inlet for the whole manifold joined by a bayonet system.
- Alternatively to standard version it is also possible to use regulators with manometer included.
- This solution allows space savings on machine and avoids further pneumatic connections among regulators and manometers.

Technical characteristic

Connections	G 1/8" - G 1/4"
Max working pressure (bar)	13 bar - 1,3 MPa
Temperature °C	50°C
Pressure gauge connections	G 1/8"
Weight	gr. 235
Weight	gr. 380
Pressure range (bar)	0 - 2 / 0 - 4 / 0 - 8 / 0 - 12
Assembly position	Any
Wall fixing screw	M4
Max. fittings torque	25 Nm



Lubricator



Ordering code

17V03C.T

VERSION

- V 0 = Zinc alloy body
- 1 = Technopolymer body

CONNECTIONS

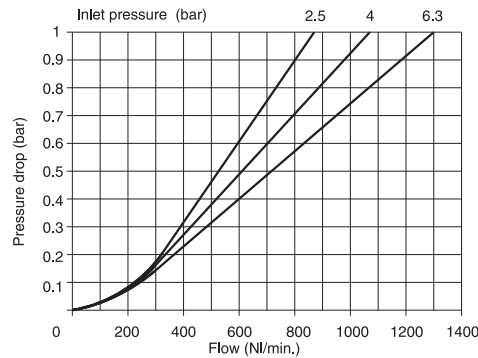
- C A = G 1/8"
- B = G 1/4"

TYPE

- P = Bowl protection

Example: 17103A.P
Lubricator size 1 with G 1/8" connections and bowl protection with technopolymer body.

Flow rate curves



Operational characteristic

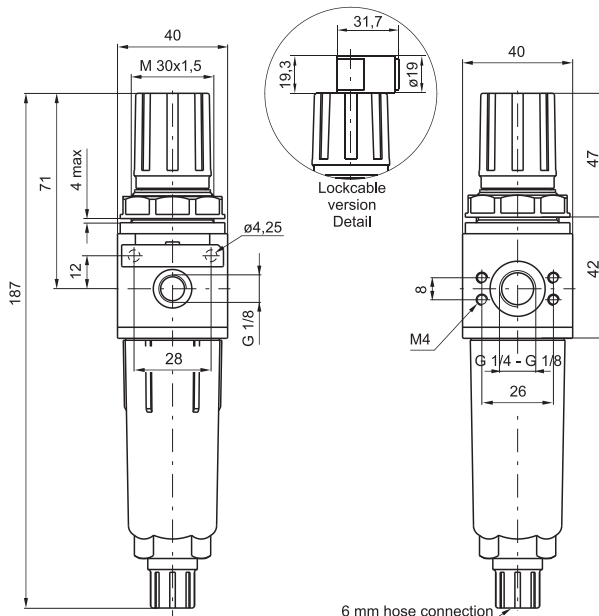
- Fog type lubrication with variable section orifice according to the flow.
- Zinc alloy body or reinforced technopolymer body with threaded aluminum insert connections.
- Wall mounting possibility with M4 screws protected by covers.
- Transparent technopolymer bowl screwed to the body.
- Technopolymer shock resistant bowl protection.
- Possibility to see the min. and max. oil level on 360° also with bowl protection assembled.
- Transparent technopolymer sight dome with adjusting handle.
- Oil filling plug.

Technical characteristic

Connections	G 1/8" - G 1/4"
Max working pressure (bar)	13 bar - 1,3 MPa
Temperature °C	50°C
Weight with technopolymer body	gr. 108
Weight with zinc alloy body	gr. 258
Indicative oil drip rate	1 drop every 300/600 NI
Oil type	FD22 - HG32
Bowl capacity	36 cm ³
Assembly position	Vertical
Wall fixing screw	M4
Max. fittings torque on zinc alloy body	30 Nm
Max. fittings torque on technopolymer body	15 Nm
Min. operational flow at 6,3 bar	10 NI/min.

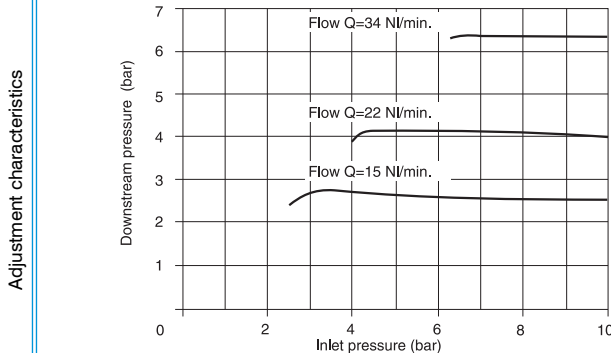
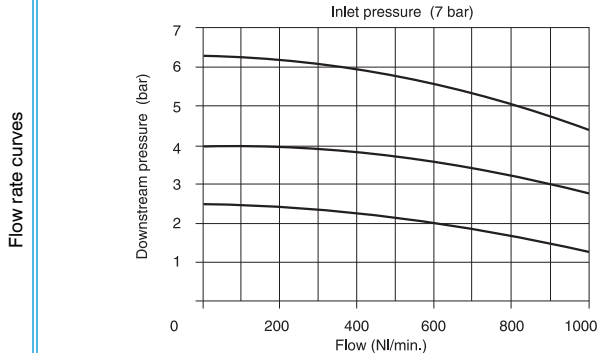


Filter - pressure regulator



Ordering code	
17V04C.S.G.T.O	
VERSION	
V	0 = Zinc alloy body
	1 = Technopolymer body
CONNECTIONS	
C	A = G 1/8"
	B = G 1/4"
FILTER PORE SIZE	
S	A = 5μ
	B = 20μ
	C = 50μ
ADJUSTING RANGE	
G	A = 0 - 2 bar
	B = 0 - 4 bar
	C = 0 - 8 bar
	D = 0 - 12 bar
TYPE	
P	= Bowl protection
T	= Automatic drain
	PS = Bowl protection and Automatic drain
OPTION	
O	Standard (without options)
	K = Version with padlock

Example: 17104A.B.C.P
Filter - pressure regulator size 1 with G 1/8" connections, filter pore 20μ adjusting range 0 - 8 bar and bowl protection with technopolymer body.



Operational characteristic

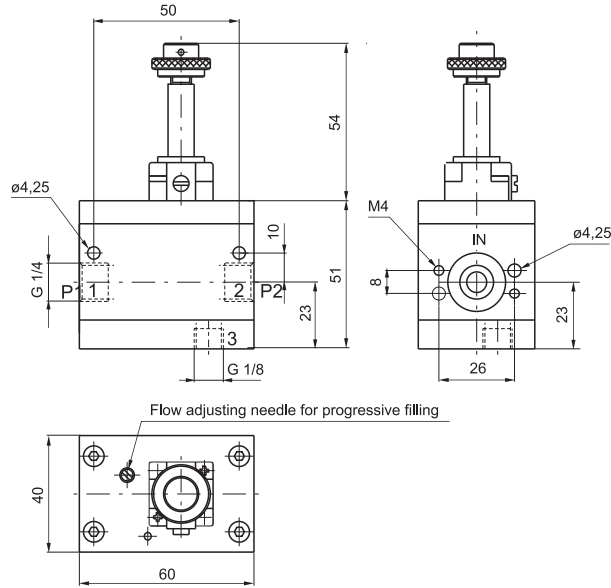
- Filter - diaphragm pressure regulator with relieving.
- Balanced poppet.
- Double filtering action: by air centrifuging and by replaceable and reusable HDPE porous filter element.
- Zinc alloy body or reinforced technopolymer body with threaded aluminium insert connections.
- Wall mounting possibility with M4 screws protected by covers.
- Handle lockable in the desired position by simply pressing it downwards.
- Transparent technopolymer bowl screwed to the body.
- Technopolymer shock resistant bowl protection.
- Manual and semi-automatic water drain valve; in the semi-automatic version the drainage happens when there is no pressure or by pushing the valve up-wards.
- Possibility to see the water level on 360° also with bowl protection assembled.
- Two pressure gauge connections with plug complete of seal.
- Panel mounting bracket.
- Automatic water drainage bowl available on request.

Technical characteristic

Connections	G 1/8" - G 1/4"
Max working pressure (bar)	13 bar - 1,3 MPa
Minimum working pressure with automatic drain (bar)	0,5
Maximum working pressure with automatic drain (bar)	10
Temperature °C	50°C
Pressure gauge connections	G 1/8"
Weight with technopolymer body	gr. 180
Weight with zinc alloy body	gr. 295
Pressure range (bar)	0 - 2 / 0 - 4 / 0 - 8 / 0 - 12
Filter pore size	5μ - 20μ - 50μ
Bowl capacity	20 cm ³
Assembly position	Vertical
Wall fixing screw	M4
Max. fittings torque on zinc alloy body	30 Nm
Max. fittings torque on technopolymer body	15 Nm



Progressive start-up valve



Ordering code

171T

- TYPE
T 10.M2 = Electric control complete with M2 mechanic (see pag. 2.15)
 20 = with pneumatic control

Important note: the preventive or programmed maintenance of this product is not foreseen considering the elaborated assembling and the specific "PNEUMAX" testing; therefore, call the producer or its representative in case of necessity.

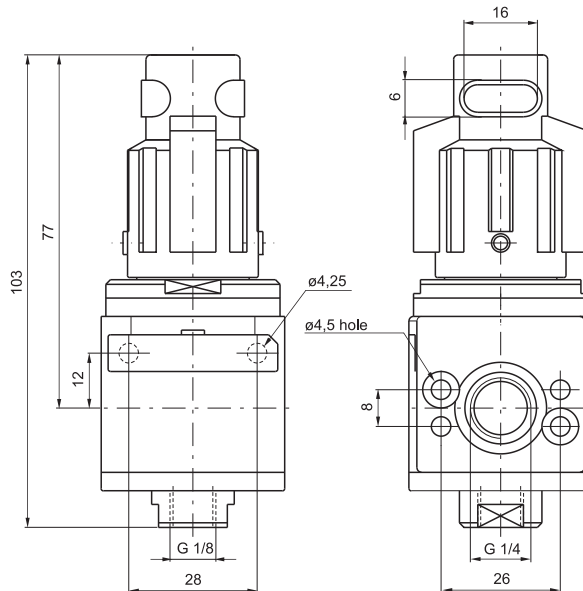
Operational characteristic

- 3 way valve with double poppet.
- Possibility to adjust the down stream circuit filling time by the enclosed adjustable metering screw.
- Quick down stream circuit discharge.
- Possibility for a pneumatic or electric piloting control.
- Body made with anodized 2011 aluminum alloy.
- Wall mounting possibility with M4 screws.

Technical characteristic

Connections	G 1/8" - G 1/4"
Max working pressure (bar)	10 bar - 1 MPa
Temperature °C	50°C
Weight	gr. 365
Assembly position	Any
Min. operating pressure	2,5 bar - 0,25 MPa
Nominal flow at 6 bar with Δp=1	1000 NI/min.
Flow with adjustable metering screw fully open	150 NI/min.
Wall fixing screw	M4

Shut-off valve



Ordering code

17V30.T

- VERSION
V 0 = Zinc alloy body
 1 = Technopolymer body
 TYPE
T A = Not lockable handle
 B = Lockable handle

Example: 17130.B : Shut-off valve size 1 complete with lockable handle with technopolymer body.
 Important note: the preventive or programmed maintenance of this product is not foreseen considering the elaborated assembling and the specific "PNEUMAX" testing; therefore, call the producer or its representative in case of necessity.

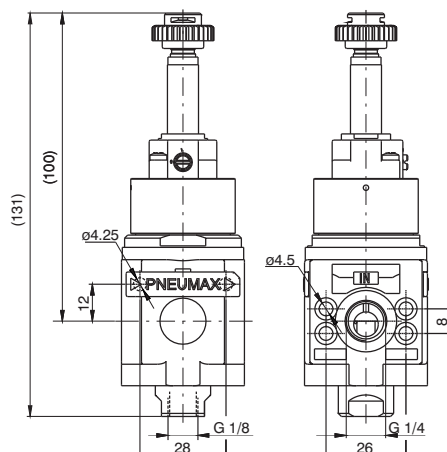
Operational characteristic

- 3 ways poppet valve.
- Zinc alloy body or reinforced technopolymer body with threaded aluminium insert connections.
- Double handle action for valve opening: pushing and rotating (clockwise).
- Simply rotate the valve handle counter clockwise for valve closing and down stream circuit discharging.
- Possibility to lock the valve in the discharging position by fitting in a padlock in the proper seat.
- Wall mounting possibility with M4 screws protected by covers.

Technical characteristic

Connections	G 1/8" - G 1/4"
Max working pressure (bar)	10 bar - 1,3 MPa
Temperature °C	50°C
Weight with technopolymer body	gr. 155
Weight with zinc alloy body	gr. 280
Assembly position	Any
Wall fixing screw	M4
Handle opening and closing angle	90°
Max. fittings torque on zinc alloy body	30 Nm
Max. fittings torque on technopolymer body	15 Nm

Electrically operated shut-off valve



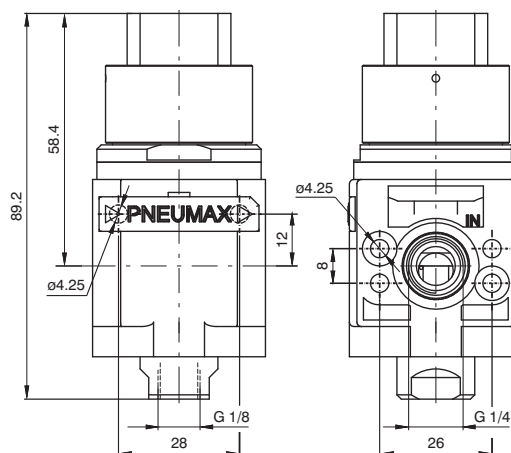
Ordering code	
17V30.T	
VERSION	
V	0 = Zinc alloy body
	1 = Technopolymer body
TYPE	
T	M2 = Electric with M2
	M2/9 = Electric with M2/9

Example: 17130.M2 : Shut-off valve size 1 with electric control complete with M2 mechanic.

Important note: the preventive or programmed maintenance of this product is not foreseen considering the elaborated assembling and the specific "PNEUMAX" testing; therefore, call the producer or its representative in case of necessity.

Operational characteristic	Technical characteristic	
<ul style="list-style-type: none"> - 3 ways poppet valve, electric control. - Zinc alloy body or reinforced technopolymer body with threaded aluminium insert connections. - Opening and closing of the valve via solenoid operator. - The correct flow direction is indicated by the arrows stamped on the valve body. - The supply pressure must be minimum 2 bars or higher for the solenoid operated version. - The piloting pressure must be minimum 2bar or higher for the pneumatic operated version.(inlet pressure can be lower than 2 bar). - It is possible to produce the external supplied solenoid version by mounting the 305.10.05 between the valve main body and the solenoid pilot valve. - The air supply can only be done via port 1. - Ensure that the downstream air consumption will not cause a pressure drop which could result in the pressure falling below the minimum operating values. If the pressure inside the valve falls below 2 bars , the valve might shut off. - Wall mounting possibility with M4 screws protected by covers. 	Inlet connections	G 1/4"
	Exhaust connections	G 1/8"
	Temperature °C	-5 °C - 50°C
	Weight with technopolymer body	gr. 215
	Weight with zinc alloy body	gr. 345
	Assembly position	Any
	Wall fixing screw	M4
	Max. fittings torque	15 Nm
	Min. working pressure	2 bar
	Max working pressure (bar)	13 bar
Flow rate at 6 bar with Δp=1	1000 NI/min	

Pneumatically operated shut-off valve



Ordering code	
17V30.PN	
VERSION	
V	0 = Zinc alloy body
	1 = Technopolymer body

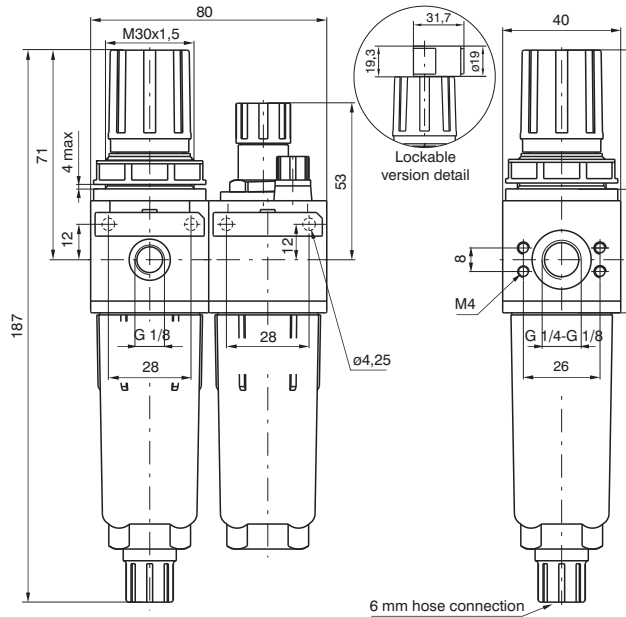
Example: 17130.PN : Shut-off valve size 1 with pneumatic pilot.

Important note: the preventive or programmed maintenance of this product is not foreseen considering the elaborated assembling and the specific "PNEUMAX" testing; therefore, call the producer or its representative in case of necessity.

Operational characteristic	Technical characteristic	
<ul style="list-style-type: none"> - 3 ways poppet valve, pneumatic pilot. - Zinc alloy body or reinforced technopolymer body with threaded aluminium insert connections. - Opening and closing of the valve via pneumatic operator - The correct flow direction is indicated by the arrows stamped on the valve body. - The supply pressure must be minimum 2 bars or higher for the solenoid operated version. - The piloting pressure must be minimum 2bar or higher for the pneumatic operated version.(inlet pressure can be lower than 2 bar). - It is possible to produce the external supplied solenoid version by mounting the 305.10.05 between the valve main body and the solenoid pilot valve. - The air supply can only be done via port 1. - Ensure that the downstream air consumption will not cause a pressure drop which could result in the pressure falling below the minimum operating values. If the pressure inside the valve falls below 2 bars , the valve might shut off. - Wall mounting possibility with M4 screws protected by covers. 	Piloting connections	G 1/8"
	Temperature °C	-5 - + 50
	Weight with technopolymer body	gr. 180
	Weight with zinc alloy body	gr. 310
	Assembly position	Any
	Wall fixing screw	M4
	Max. fittings torque	15 Nm
	Min. working pressure	0 bar
	Max working pressure (bar)	13 bar
	Piloting pressure	2 bar
Flow rate at 6 bar with Δp=1	1000 NI/min	



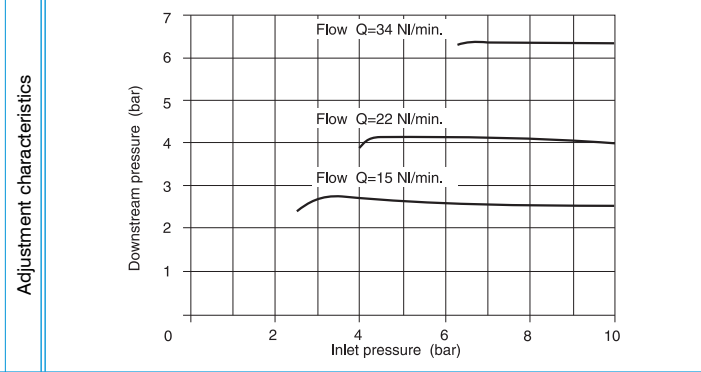
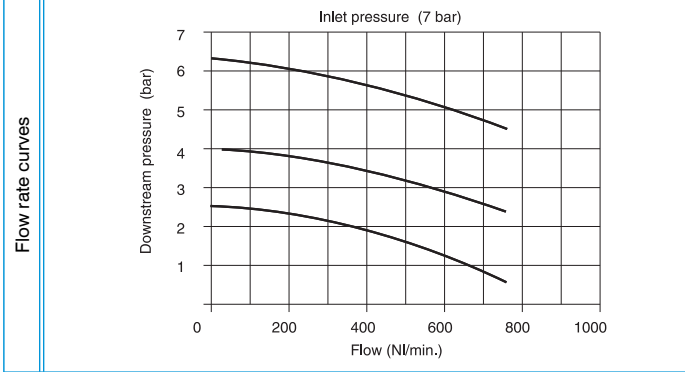
Filter pressure regulator + Lubricator



Ordering code	
17V06C.S.G.T.O	
VERSION	
V	0 = Zinc alloy body 1 = Technopolymer body
CONNECTIONS	
C	A = G 1/8" B = G 1/4"
FILTER PORE SIZE	
S	A = 5µ B = 20µ C = 50µ
ADJUSTING RANGE	
G	A = 0 - 2 bar B = 0 - 4 bar C = 0 - 8 bar D = 0 - 12 bar
TYPE	
P	Bowl protection
T	S = Automatic drain
PS	Bowl protection and Automatic drain
OPTION	
O	Standard regulator K = Version with padlock

Example: 17106A.B.C.P

Service unit combination complete with filter - pressure regulator and lubricator size 1 G 1/8" connections, filter pore size 20µ, adjusting range 0-8 bar and bowl protections with technopolymer body.

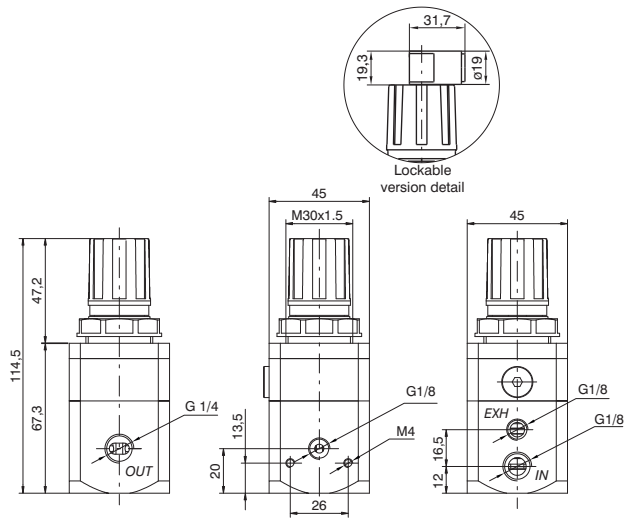


Operational characteristic	Technical characteristic	
- Filter - diaphragm pressure regulator with relieving.	Connections	G 1/8" - G 1/4"
- Balanced poppet.	Max working pressure (bar)	13 bar - 1,3 MPa
- Double filtering action: by air centrifuging and by replaceable and reusable HDPE porous filter element.	Temperature °C	50°C
- Zinc alloy body reinforced technopolymer body with threaded aluminum insert connections	Pressure gauge connections	G 1/8"
- Wall mounting possibility with M4 screws protected by covers.	Weight with technopolymer body	gr. 295
- Lockable handle by simply pressing it downwards in the desired position.	Weight with zinc alloy body	gr. 560
- Transparent technopolymer bowls screwed to the body.	Pressure range (bar)	0 - 2 / 0 - 4 / 0 - 8 / 0 - 12
- Shock resistant bowl technopolymer protections.	Filter pore size	5µ - 20µ - 50µ
- Manual and semi-automatic water drain valve; in the semi-automatic version the drainage happens when there is no pressure or by pushing the valve up-wards.	Bowl capacity	20 cm³
- Possibility to see the water level on 360° also with bowl protection assembled.	Indicative oil drip rate	1 drop every 300/600 NI
- Two pressure gauge connections with plug complete of seal.	Oil type	FD22 - HG32
- Panel mounting bracket.	Bowl capacity	36 cm³
- Automatic water drainage bowl available on request.	Assembly position	Vertical
- Fog type lubrication with variable section orifice according to the flow.	Wall fixing screw	M4
- Possibility to see the min. and max. oil level on 360° also with bowl protection assembled.	Max. fittings torque on zinc alloy body	30 Nm
- Transparent technopolymer sight dome with adjusting handle.	Max. fittings torque on technopolymer body	15 Nm
- Oil filling plug.	Min. operational flow at 6,3 bar	10 NI/min.





High sensitive air pressure regulator with high flow rate relieving



Ordering code

171S2B.⊙⊙

ADJUSTING RANGE

0002 = 0,1 - 2 bar

⊙ 0004 = 0,1 - 4 bar

0007 = 0,1 - 7 bar

0010 = 0,1 - 10 bar

OPTION

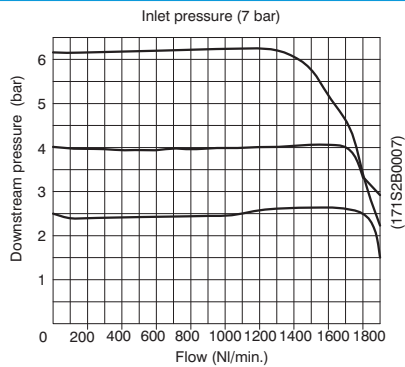
⊙ Standard regulator

K = Version with padlock

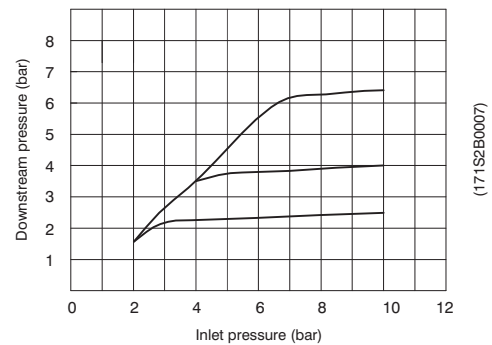
Example: 17112B.C

Pressure regulator with G 1/4" 0,1 - 7 bar

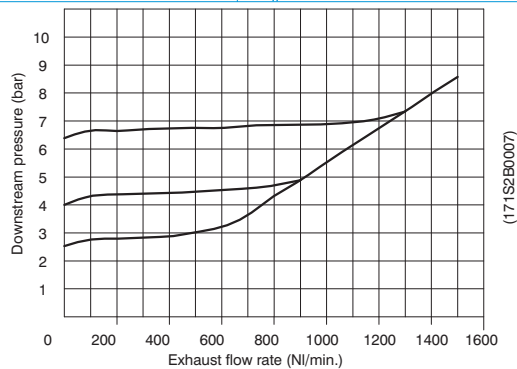
Flow rate curves



Adjustment characteristics



Exhaust flow rate curves



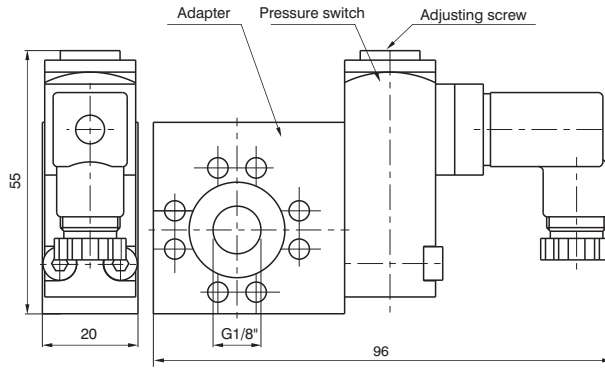
Operational characteristic

- Accurate capacity to maintain set pressure.
- Sensitivity combined with high relieving rates.
- High flow rate with extremely low pressure drop.
- Pressure adjusting lockable handle by simply pressing it downwards in the desired position.
- Body made with anodized zoll aluminium alloy
- Two pressure gauge connections with plug complete of seal.
- Ring nut for panel mounting.
- Once set, a constant bleed of air maintains the accuracy of the regulator.
- This controlled release is a characteristic, not a fault.

Technical characteristic

Connections	G 1/4"
Max working pressure (bar)	10 bar - 1 MPa
Temperature °C	50°C
Pressure gauge connections	G 1/8"
Weight	gr. 380
Pressure range (bar)	0,1 - 2 bar / 0,1 - 4 bar 0,1 - 7 bar
Assembly position	Any
Air flow (inlet pressure 10 bar)	5 Nl/min
Max. fittings torque	25 Nm
Fluid	20µm filtered air and preferably non lubricated
Diametro del foro montaggio pannello	30 mm

Pressure Switch complete with adapter



Ordering code

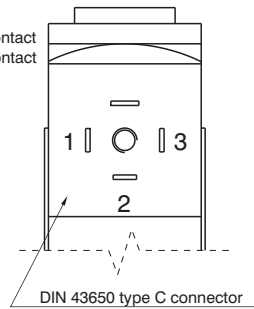
170

TYPE	14A = Pressure switch adapter
	14B = Pressure switch
	14C = Pressure switch complete with adapter

Example: 1714C
Pressure switch complete with adapter.

Connection

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



Operational characteristic

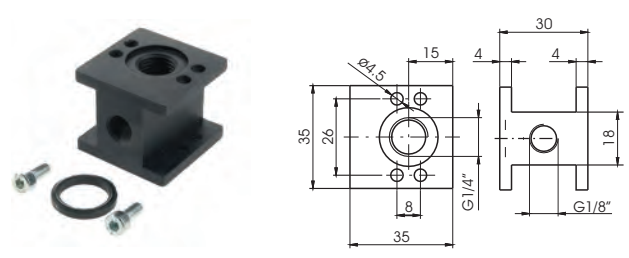
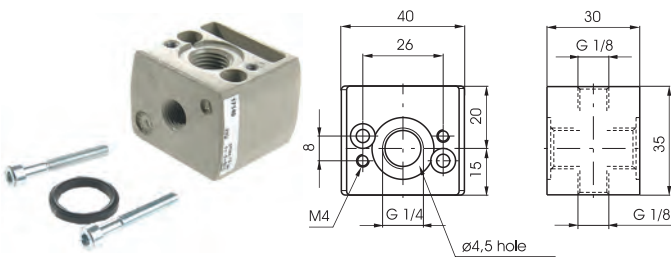
- The pressure switch complete with adapter has to be assembled between two elements of the FRL group. It cannot be utilized separately or at the end of the FRL group.
- The pressure switch can be set at desired pressure (Pressure range (bar) from 2 to 10 bar) by rotating the adjusting screw.
- The electrical connection is made by mean of a 15 mm connector DIN 43650 type C.
- The microswitch contact could be Normally Closed or open (change over switch).

Technical characteristic

Max working pressure (bar)	13 bar - 1,3 MPa
Temperature °C	50°C
Weight	gr. 160
Microswitch capacity	1A
Microswitch Maximum voltage	250 VAC
Grade of protection (with connector assembled)	IP 65
Adjusting range	2 - 10 bar
Assembly position	Any

Air Intake

Air Intake - "H" profile



Ordering code

17140

Weight gr. 75

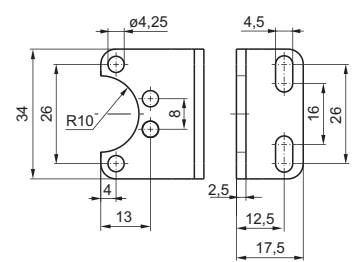
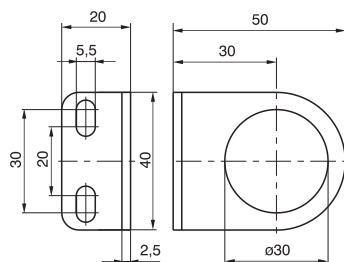
Ordering code

17140H

Weight gr. 50

Fixing bracket

Fixing bracket



Ordering code

17150

Weight gr. 32

Ordering code

170M5

Weight gr. 20



Assembling kit

Assembling kit for manifold regulators

Ordering code
1716V
VERSION
V 0 = Standard
5 = for progressive start-up valve



Weight gr. 15

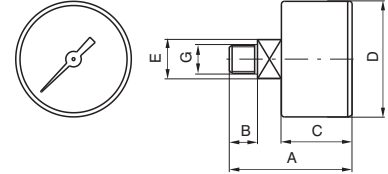
Ordering code
170M6



Weight gr. 20

Pressure gauge

Ordering code
17070V.S
VERSION
V A = Dial ø40
B = Dial ø50
SCALE
S A = Scale 0-4 bar
B = Scale 0-6 bar
C = Scale 0-12 bar

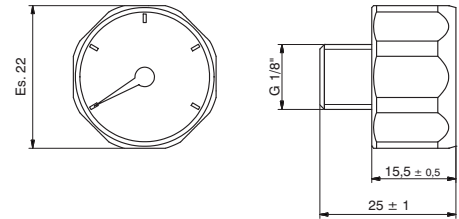


DIMENSIONS

CODE	A	B	C	D	E	G	Weight gr.
17070A	44	10	26	41	14	1/8"	60
17070B	45	10	27	49	14	1/8"	80

Manometer diameter D.23 mm

Ordering code
17070M.S
SCALE
S A = Scale 0-4 bar
B = Scale 0-6 bar
C = Scale 0-12 bar



Weight gr. 20

3