

Construction and working characteristics

The modular air service units groups of the size 4, as the other size, allow a wide selection of combinations.

The threaded connections are machined directly on the valve body made with light alloy, so that each components can be used individually.

The wall fixing is done directly with screws through the holes on the body they can be wall mounted.

The bowls are made of transparent technopolymer, always supplied with shock resistant technopolymer protection, 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.

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.

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.

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 away 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.

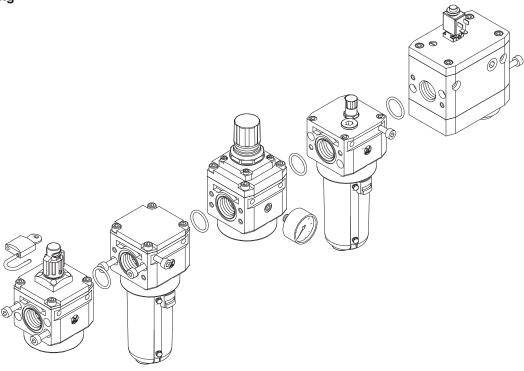
Maintenance

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.

In case it is necessary to replace the lubricator transparent dome, tight it at 5 Nm torque maximum.

Assembling







FILTER PORE SIZE $A = 5\mu$ $B = 20\mu$ 8 $C = 50\mu$

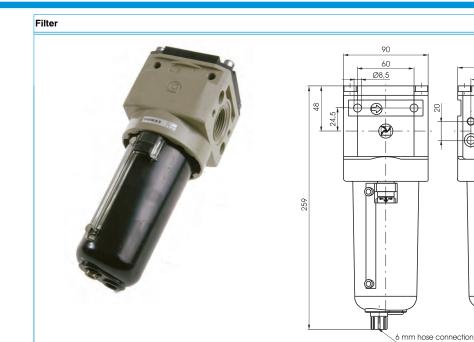
TYPE Ū S = Automatic drain

Ø8,5 /holle

\M8

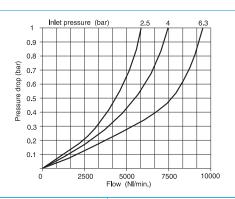
90

G 1"



Example: 17401B.B Filter with G 1" connections and filter pore size 20μ.

Flow rate curves



Operating	Characteristics

- Body made with light alloy.
 Wall mounting possibility with M8 screws protected by covers.
- Double filtering action: by air centrifuging and by replaceable and reusable HDPE porous filter element. Light alloy bowl c/w level indicator connected to the body with bayonet cap and safety button. Manual and semi-automatic water drain valve; in the semi-automatic version the drainage hap-
- pens when there is no pressure or by pushing the valve up-wards.

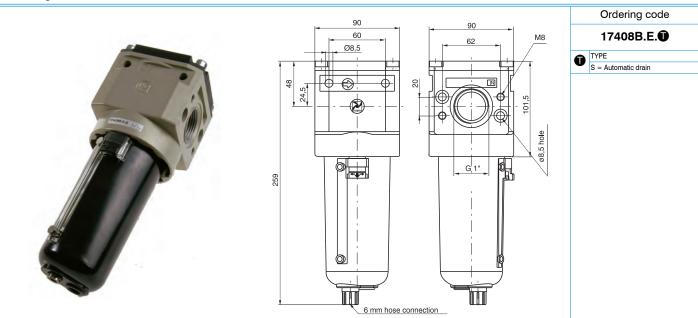
 Automatic water drainage bowl available on request.

Technical characteristics	
Connections	G 1"
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	gr. 1700
Filter pore size	5μ - 20μ - 50μ
Bowl capacity	178 cm ³
Assembly position	Vertical
Wall fixing screw	M8

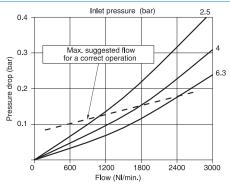
Flow rate curves







Example: 17408B.E Coalescing filter size 4 with G 1" connections and filter efficiency of 99,97%.



Operating Characteristics

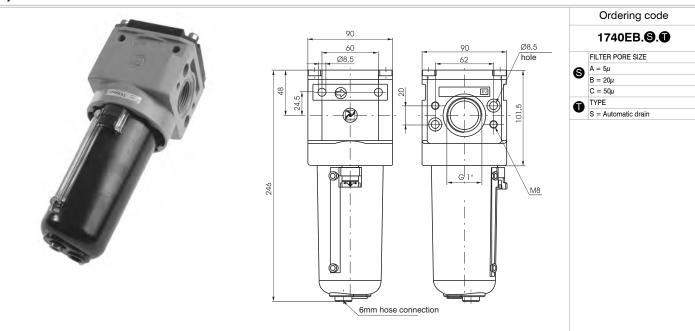
- Coalescing filter element remove 0,01 $\!\mu$ particles equivalent to 99,97%. Body made with light alloy.

- Wall mounting possibility with M8 screws protected by covers.
 Light alloy bowl c/w level indicator connected to the body with bayonet cap and safety butto.
 Manual and semi-automatic water drain valve; in the semi-automatic version the drainage hapens when there is no pressure or by pushing the valve up-wards.
 Automatic water drainage bowl available on request.

Technical characteristics	
Connections	G 1"
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	gr. 1700
Filter efficiency with $0,01\mu$ particle	99,97%
Bowl capacity	178 cm ³
Assembly position	Vertical
Wall fixing screw	M8
	Connections Max working pressure (bar) Minimum working pressure with automatic drain (bar) Maximum working pressure with automatic drain (bar) Temperature °C Weight Filter efficiency with 0,01 μ particle Bowl capacity Assembly position







Example: 1740EB.A.S Dynamic drein size 4 with G 1" connections, filter pore size 20μ and automatic drain.

Operational characteristic

- Body made with light alloy.

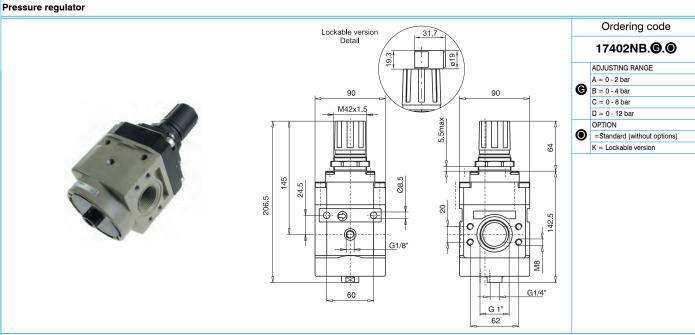
 Wall mounting possibility with M8 screws.

 Double filtering action: by air centrifuging and by replaceable and reusable HDPE porous filter element.

	Light alloy bowl c/w level indicator connected to the body with bayonet cap and safety button
-	Automatic water drain valve.

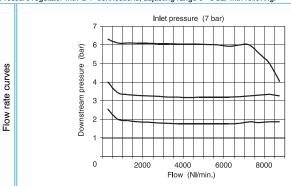
Technical characteristic	
Connections	G 1"
Max inlet pressure (bar)	13
Flow rate at 6 bar with Δp=1 (NI/min.)	2500
Bowl capacity (cm³)	160
Max. fittings torque (Nm)	40
Temperature °C	-5 to+50
Weight (g.)	1700
Filter efficiency at flow rate 1500 NI/min.	96%
Assembly position	Vertical
Wall fixing screw	M8

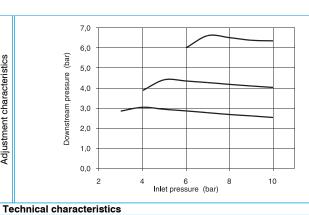




Adjustment characteristics

Example: 17402NB.C Pressure regulator with G 1" connections, adjusting range 0 - 8 bar with relieving.





Operating Characteristics

- Sensitivity combined with high relieving rates.
 High flow rate with extremely low pressure drop.

- Body made with light alloy. Two pressure gauge connections with plug complete of seal.
- Ring nut for panel mounting.

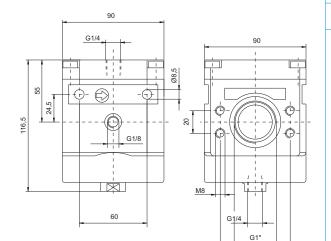
Connections	G 1"		
Max working pressure (bar)	13 bar - 1,3 MPa		
Temperature °C	50°C		
Pressure gauge connections	G 1/8"		
Weight	gr. 1900		
Pressure range (bar)	0-2/0-4/0-8/0-12		
Assembly position	Any		
Wall fixing screw	M8		

Flow rate curves

Piloting curves





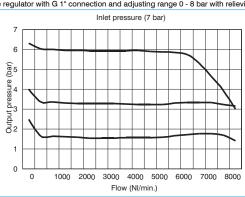


Ordering code

17402NB.P

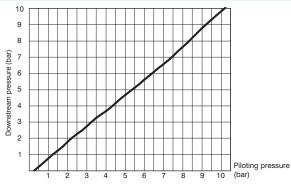


Example: 17402NB.C Piloted pressure regulator with G 1" connection and adjusting range 0 - 8 bar with relieving



7,0 6,0 Downstream pressure (bar) 5,0 4,0 3,0 2,0 1,0 0,0 2 6 8 10 Inlet pressure (bar)

62



Adjustment characteristics

Operating Characteristics

- Sensitivity combined with high relieving rates.
- High flow rate with extremely low pressure drop.

 Pressure adjusting lockable handle by simply pressing it donwards in the desired position.

- Body made with light alloy.

 Two pressure gauge connections with plug complete of seal.

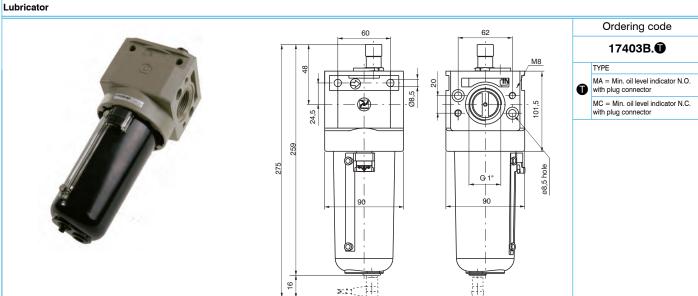
 Ring nut for panel mounting.

Technical characteristics	
Connections	G 1"
Max working pressure (bar)	13 bar - 1,3 MPa
Temperature °C	50°C
Pressure gauge connections	G 1/8"
Weight	gr. 1638
Pressure range (bar)	0 - 2 / 0 - 4 / 0 - 8 / 0 - 12
Assembly position	Any
Wall fixing screw	M8

Series 1700

Size 4



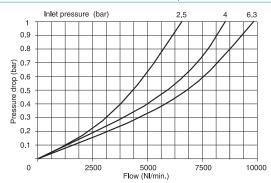


Example: 17403B

Flow rate curves

Lubricator size 4 with G 1" connections.

Note: on the MA version the contact is open when oil is present; on the MC version the contact is closed when oil is present



Operating Characteristics

- Fog type lubrication with variable section orifice according to the flow.

 Body made with light alloy.

 Wall mounting possibility with M8 screws protected by covers.

 Light alloy bowl c/w level indicator connected to the body with bayonet cap and safety button.

 Transparent technopolymer sight dome with adjusting handle.

 Oil filling plug.

- Electrical connector for low level indication. Use the C1, C2 or C3 lead for connection (see section 6 "Sensor").

Technical characteristics

Connections	G 1"		
Max working pressure (bar)	13 bar - 1,3 MPa		
Temperature °C	50°C		
Weight	gr. 1500		
Indicative oil drip rate	1 drop every 300/600 NI		
Oil type	FD22 - HG32		
Bowl capacity	300 cm ³		
Assembly position	Vertical		
Wall fixing screw	M8		
Min. operational flow at 6,3 bar	100 NI/min		

Ordering code

1740

10.M2 = Electric control complete

wih M2 mechanic (see page 2.13)

20 = with pneumatic control

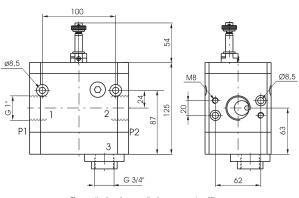
TYPE

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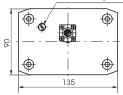


Progressive start-up valve





Flow adjusting for needle for progressive filling



Operating Characteristics

- 3 way valve with double poppet.

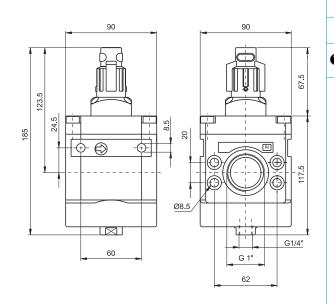
 Possibility to adjust the down stream circuit filling time by the enclosed adjustable metering screw.

 Quick down stream circuit discharge.
- Body made with anodized 2011 aluminum alloy.
 Wall mounting possibility with M8 screws.

Technical characteristics		
Connections	G 1"	
Max working pressure (bar)	10 bar - 1 MPa	
Temperature °C	50°C	
Weight	gr. 2300	
Assembly position	Any	
Wall fixing screw	M8	
Min. working pressure	2,5 bar - 0,25 MPa	
Nominal flow at 6 bar with Δp=1	8000 NI/min.	
Flow with adjustable metering screw fully open	3000 NI/min.	

Shut-off valve





Ordering code

17430.

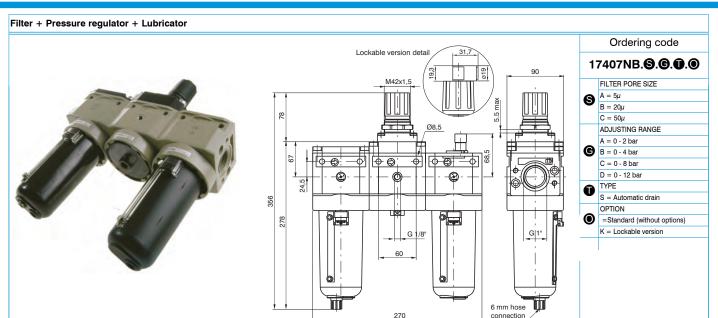
TYPE O A = Not lockable handle B = Lockable handle

Example: 17430.B

Shut-off valve size 4 complete with lockable handle.

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.

Operating Characteristics Technical characteristics Connections 3 ways poppet valve. Body made with light alloy. 10 bar - 1 MPa Max working pressure (bar) Wall mounting possibility with M8 screws protected by covers. Double action handle for valve opening: pushing and rotating (clockwise). Simple rotate the valve handle counter clockwise for valve closing and down stream circuit di-Temperature °C 50°C gr. 1600 Weight Scharging. Possibility to lock the valve in the discharging position by fitting in a padlock in the proper seat. Assembly position Any 8000 NI/min. Nominal flow at 6 bar with ∆p=1 Wall fixing screw M8 Handle opening and closing angle 90°



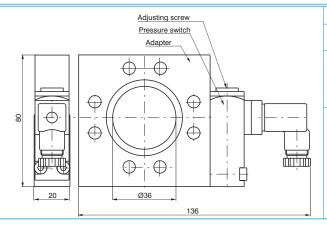
Operating Characteristics Technical characteristics Filter - diaphragm pressure regulator with relieving with balanced poppet. G 1" Double filtering action: by air centrifuging and by replaceable and reusable HDPE porous filter Max working pressure (bar) 13 bar - 1,3 MPa element. Temperature °C 50°C Body made with light alloy. Wall mounting possibility with M8 screws protected by covers. Pressure gauge connections G 1/8" Wall mounting possibility with M8 screws protected by covers. Pressure adjusting lockable handle by simply pressing it downwards in the desired position Light alloy bowl c/w level indicator connected to the body with bayonet cap and safety button. 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. Automatic water drainage bowl available on request. Two pressure gauge connections with plug complete of seal. Weight gr. 5300 Pressure range (bar) 0-2/0-4/0-8/0-12 Filter pore size 5μ - 20μ - 50μ Bowl capacity 178 cm³ Indicative oil drip rate 1 drop every 300/600 NI FD22 - HG32 Oil type Fog type lubrication with variable section orifice according to the flow. 300 cm³ Transparent technopolymer sight dome with adjusting handle. Bowl capacity Oil filling plug. Assembly position Vertical Wall fixing screw M8 Min. operational flow at 6,3 bar 100 NI/min

connection



Pressure Switch complete with adapter





Ordering code

170

44A = Pressure switch adapter 14B = Pressure switch

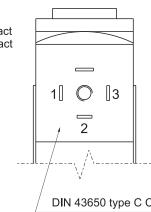
TYPE

44C = Pressure switch complete with adapter

Any

Example: 1744C Pressure switch complete with adapter

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



DIN 43650 type C Connector Tachnical characteristics

Assembly position

Operating Characteristics

- The pressure switch complete of 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).

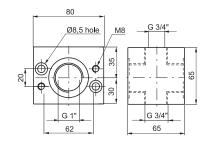
	rechnical characteristics	
	Max working pressure (bar)	13 bar - 1,3 MPa
	Temperature °C	50°C
	Weight	gr. 450
	Microswitch capacity	1A
	Microswitch Maximum voltage	250 VAC
	Grade of protection (with connector assembled)	IP 65
	Pressure range (bar)	2 - 10 bar

Air Intake

Ordering code

17440





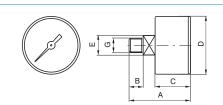
Pressure gauge

Ordering code

17070**♥**.**⑤**

_	VERSION
V	A = Dial ø40
	B = Dial ø50
	SCALE
8	A = Scale 0-4 bar
U	B = Scale 0-6 bar
	C = Scale 0-12 bar





DIMENSIONS							
CODE	Α	В	С	D	Е	G	Weight gr.
17070A	44	10	26	41	14	1/8"	60
17070B	45	10	27	49	14	1/8"	80



UAB "Domingos prekyba" www.dominga.lt/eshop email: info@dominga.lt

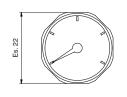
Manometer diameter D. 23

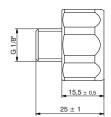
Ordering code

17070M.**©**

	SCALE
	A = Scale 0-4 bar
	B = Scale 0-6 bar
	C = Scale 0-12 bar







Assembling kit

Ordering code

1746**V**

VERSION

0 = Standard

5 = for progressive start-up valve

