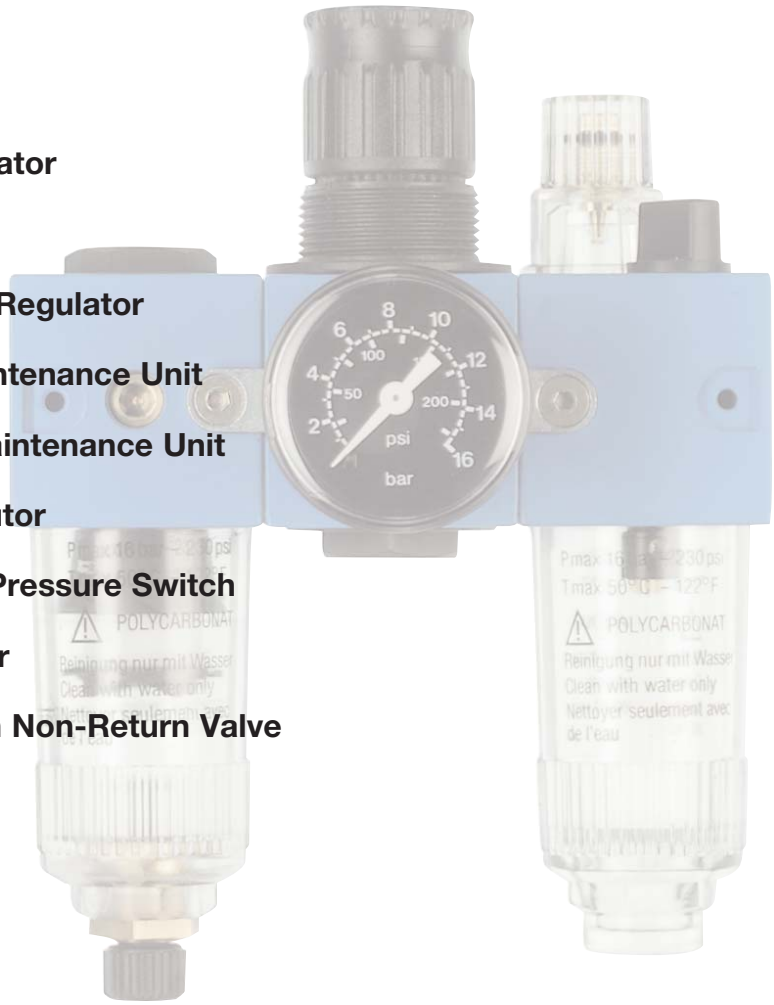
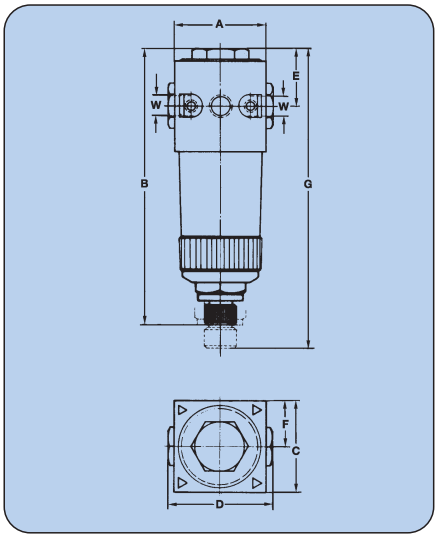
List of Contents
airvision modular



airvision L

Filter
airvision modular



Compressed air filter in modular design for cleansing the compressed air of humidity (by means of cycloning) and solid particles. Can be flanged on either side for additional airvision equipment. Port sizes G 1/8 and G 1/4.

Technical Data

Nominal rates of flow* **	1170 Nl/min
Max. operating pressure	16 bar
Operating temperature	0 °C up to +50 °C
Effective bowl volume	10 cm³
Mounting position	vertical
Direction of flow	arrow
Nominal width	DN 6
Nominal pressure (housing)	PN 25
Weight	230 g
Material	
Seals	NBR
Housing	zinc alloy
Filter element	polyethylene
Plastic bowl	polycarbonate

*** measured at p_1 = 6 bar and Δp = 1 bar

Filters with plastic bowl and manually-operated drain valve

Thread	G 1/8	G 1/4
Order No.	**445.21***	**445.22**

special option - how to order:

445.xx x

- **S** **bowl protection**
- **1** **G 1/8** thread
- **2** **G 1/4** thread
- **2** **manually-opereated drain valve**
- **3** **internal-automatic drain valve** (1 - 12 bar)
- **5** **semi-automatic drain valve** (0,5 - 25 bar)
- **6** **external-automatic drain valve A** (4 - 16 bar)
- **7** **external-automatic drain valve B** (1 - 12 bar)

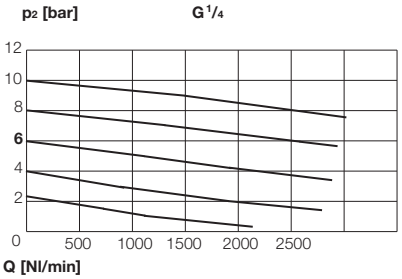
For example:
445.22 – but with **semi-automatic drain valve** and **bowl protection = 445.52 S**

Dimensions [mm]

Port	G 1/8*	G 1/4
A	40	
B**	120	
C	40	
D	46	40
E	25	
F	20	
G**	150	

** internal-automatic drain valve +40 mm
semi-automatic drain valve +10 mm
external-automatic drain valve A +90 mm
external-automatic drain valve B +75 mm

Rates of flow



Accessories

Bracket mounting	**444-5**
Bowl protection	
short	**445-44**
long (for bowls with internal automatic drain valve)	**419-10**

Main spare parts

Plastic bowl with seal and	
manually-operated drain valve	**443-12**
semi-automatic drain valve	**443-42**
external-automatic drain valve A (16 bar)	**443-43**
manually-operated drain valve B (12 bar)	**443-111**
Plastic bowl (long bowl) with seal and	
internal-automatic drain valve	**419-78**
Filter element	
40 µm filter mesh (mounted)	**443-32**
5 µm filter mesh (reduced flow rate)	**443-167**

Drain valves, see chapter 7

* Inlet and outlet reduced (reducing adapters with O-Rings enclosed)

Micro-Filter
airvision modular

Compressed air filters in modular design remove almost without residue the smallest remaining particles of water, oil or dirt to 99,999 % (for 0,01 µm).
Port sizes G 1/8 and G 1/4.

Technical Data

Nominal rates of flow**	570 Nl/min
Max. operating pressure	16 bar
Operating temperature	0 °C up to +50 °C
Effective bowl volume	10 cm³
Filter mesh	0,01 µm
Residual oil content	0,01 ppm
Mounting position	vertical
Direction of flow	arrow
Nominal width	DN 6
Nominal pressure (housing)	PN 25
Weight	230 g
Material	
Seals	NBR
Housing	zinc alloy
Filter element	borosilicate glass microfiber
Plastic bowl	polycarbonate

*** measured at p_1 = 6 bar and Δp = 0,5 bar

Micro-Filters with plastic bowl and manually-operated drain valve

Thread	G 1/8	G 1/4
Order No.	**453.21***	**453.22**

special option - how to order:

453.2x x

- **S** **bowl protection**
- **1** **G 1/8**, **2** **G 1/4** thread

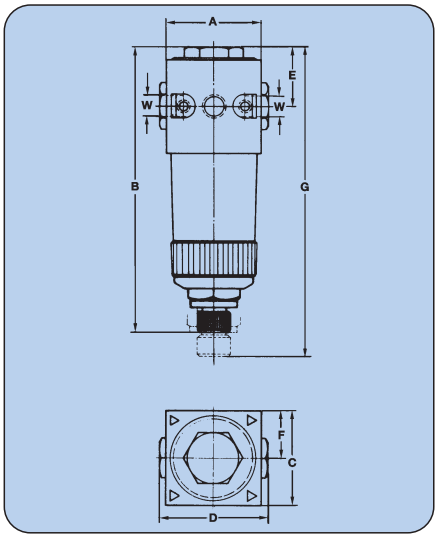
For example:
453.22 – but with **bowl protection = 453.22 S**

Accessories

Bracket mounting	**444-5**
Bowl protection long (for bowls with internal automatic drain valve)	**419-10**

Main spare parts

Plastic bowl with seal and manually-operated drain valve	**419-64**
Special filter cartridge with seal	**448-5**

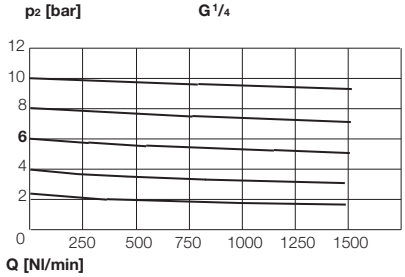


Dimensions [mm]

Port	G 1/8*	G 1/4
A	40	
B	155	
C	40	
D	46	40
E	25	
F	20	
G**	220	

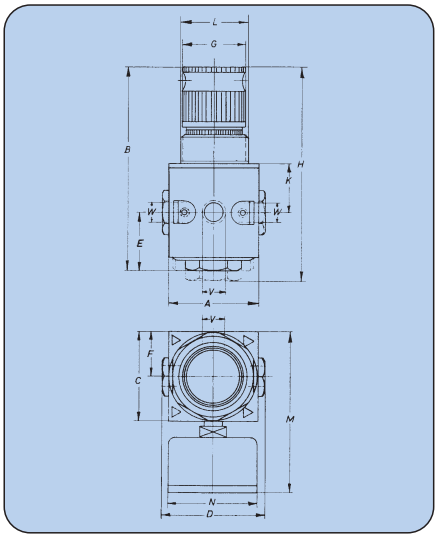
** Space required to change element

Rates of flow



* Inlet and outlet reduced (reducing adapters with O-Rings enclosed)

Pressure Regulator
airvision modular



Compressed air pressure regulators in modular design maintain constant working pressure regardless of pressure fluctuations in the system or of air consumption. Flanging is possible on both sides for adding other airvision equipment. Port sizes G 1/8 and G 1/4. Secondary air exhaust (relieving) and almost complete independence of primary pressure. Diaphragm regulator with working pressure ranges 0,5 to 6, 10 and 16 bar. Adjustment can be locked by pressing the handwheel. Gauge can be mounted on back or front.
Important: Use of filter always recommended.

Technical Data

Nominal rates of flow* **	670 Nl/min
Max. inlet pressure (p_1)	25 bar (PN 25)
Outlet pressure range (p_2)	0,5 - 10 bar - optionally: 6 and 16 bar
Operating temperature	+50 °C
Mounting position	any
Direction of flow	arrow
Nominal width	DN 6
Depend. upon supply pressure	< 4 %
Reversing control hysteresis	~ 1 bar
Weight	300 g
Material	
Diaphragm / Seals	NBR
Housing	zinc alloy

*** measured at p_1 = 8 bar, p_2 = 6 bar and Δp = 1 bar

Pressure Regulators 0,5 - 10 bar

Thread	G 1/8	G 1/4
Order No.	**444.213***	**444.223**

special option - how to order:

444.xxx

2	**0,5 - 6 bar**	operating pressure range
3	**0,5 - 10 bar**	
4	**0,5 - 16 bar**	
1	**G 1/8**	thread
2	**G 1/4**	
2	**with pressure gauge**	
4	**without pressure gauge**	

For example:
444.223 – but with operating pressure range **0,5 - 16 bar = 444.224**

Accessories

Bracket mounting (for housing)	**444-5**
Bracket mounting (for top)	
- Kit (bracket and nut)	**443-36**
- Panel mounting (nut)	**381-32**

Main spare parts

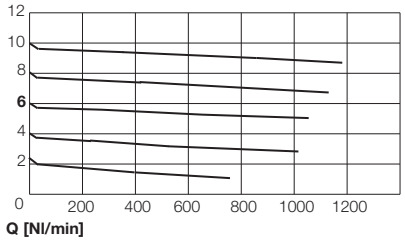
Pressure gauge Ø 40 (G 1/8)	
0 - 6/10 bar	**670**
0 - 10/16 bar	**680**
0 - 16/25 bar	**690**
Valve complete with stem	**443-142**
Diaphragm complete with gliding ring	**480-92**

Dimensions [mm]

Port	G 1/8*	G 1/4
A	40	
B	90	
C	40	
D	46	40
E	25	
F	20	
H	105	
K	22	
L	M30x1,5	
M	75	

Rates of flow $p_1 = p_2 + 2$ bar

p_2 [bar] G 1/4



* Inlet and outlet reduced (reducing adapters with O-Rings enclosed)

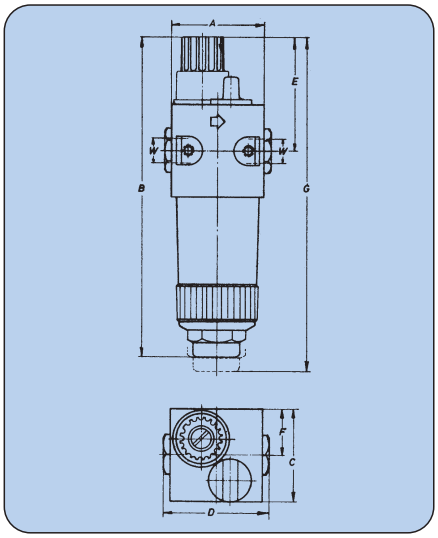
Fog-Lubricator
airvision modular

Compressed air lubricator in modular design add a fine oil fog to the compressed air, providing a constant and reliable lubrication of pneumatically regulated compressed air tools, valves and cylinders etc... Flanging is possible on both sides for adding other airvision equipment. Port sizes G 1/8 and G 1/4. Oil can be refilled under pressure. Needle valve for oil adjustment with high drop constancy over long periods of time.

Technical Data

Nominal rates of flow**	1670 Nl/min
Min. flow rate***	30 Nl/min
Max. operating pressure	16 bar
Operating temperature	0 °C up to +50 °C
Effective bowl volume	25 cm³
Mounting position	vertical
Direction of flow	arrow
Nominal width	DN6
Nominal pressure (housing)	PN25
Weight	270 g
Material	
Seals	NBR
Housing	zinc alloy
Plastic bowl	polycarbonate

** measured at p_1 = 6 bar and Δp = 1 bar
*** Oil delivery 10 droplets/min at 6 bar



Recommended oil see chapter 8

Oil containers made of plastic (polycarbonate) are attacked by oil additives, anti-frost or synthetic oils. We therefore recommend normal lubricating oils of approx. 22 to 32 cSt at 40 °C (in the case of striking tools up to 68 cSt). Metal containers should be used for other oils, especially for low-temperature oils. Also recommended is a metal lubricator adjusting cap.

Lubricators with plastic bowl

Thread	G 1/8	G 1/4
Order No.	**446.01***	**446.02**

special option - how to order:

446.0x x

- **S** **bowl protection**
- **1** **G 1/8**
- **2** **G 1/4**

thread

For example:
446.02 – but with **bowl protection = 446.02 S**

Accessories

Bracket mounting	**444-5**
Lubricator adjusting cap metal	**423-65**
Bowl protection	**445-44**

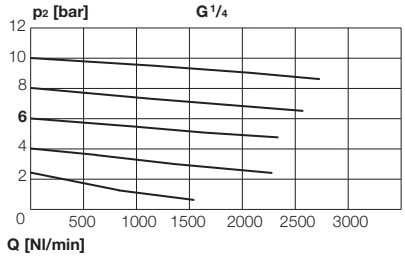
Main spare parts

Plastic bowl with seal	**446-6**
Lubricator adjusting cap plastic	**423-179**

Dimensions [mm]

Port	G 1/8*	G 1/4
A	40	
B	155	
C	40	
D	46	40
E	25	
F	20	
G**	220	

Rates of flow



* Inlet and outlet reduced (reducing adapters with O-Rings enclosed)

Filter Pressure Regulator
airvision modular

Filters for compressed air and pressure regulators combined in one piece of equipment in modular design to save space. The cleansed compressed air is kept at constant pressure regardless of pressure fluctuations in the system or of air consumption. Secondary air exhaust (relieving) and almost complete independence of primary pressure. Diaphragm regulator with working pressure ranges 0,5 to 6, 10 or 16 bar. Adjustment can be locked by pressing the handwheel. Gauge can be mounted on back or front side. Additional airvision equipment can be flanged to either side. Port sizes G 1/8 and G 1/4.

Technical Data

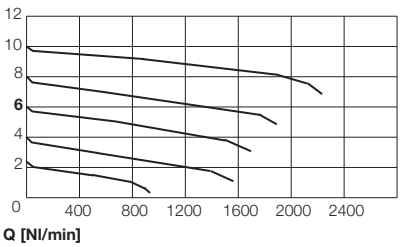
Nominal rates of flow**	833 Nl/min
Max. inlet pressure (p_1)	25 bar
Outlet pressure range (p_2)	0,5 - 10 bar - optionally: 6 and 16 bar
Operating temperature	0 °C up to +50 °C
Effective bowl volume	10 cm³
Mounting position	vertical
Direction of flow	arrow
Nominal width	DN 6
Depend. upon supply pressure	< 4 %
Reversing control hysteresis	~ 1 bar
Weight	350 g
Material	
Diaphragm / Seals	NBR
Housing	zinc alloy
Filter element	polyethylene
Plastic bowl	polycarbonate

*** measured at p_1 = 8 bar, p_2 = 6 bar and Δp = 1 bar

Rates of flow

$p_1 = p_2 + 2$ bar

p_2 [bar] G 1/4



Filter Pressure Regulators 0,5 - 10 bar

Thread	G 1/8	G 1/4
Order No.	**443.213***	**443.223**

special option - how to order:

443.xxx x

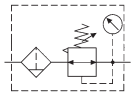
- **S** **bowl protection**
- **2** **0,5 - 6 bar**
- **3** **0,5 - 10 bar** operating pressure range
- **4** **0,5 - 16 bar**
- **1** **G 1/8**
- **2** **G 1/4** thread
- **2** **manually-opereated drain valve**
- **3** **internal-automatic drain valve** (1 - 12 bar)
- **5** **semi-automatic drain valve** (0,5 - 25 bar)
- **6** **external-automatic drain valve A** (4 - 16 bar)
- **7** **external-automatic drain valve B** (1 - 12 bar)

For example:

443.223 – but with **semi-automatic drain valve** and **bowl protection = 443.523 S**

* Inlet and outlet reduced (reducing adapters with O-Rings enclosed)

Filter Pressure Regulator
airvision modular

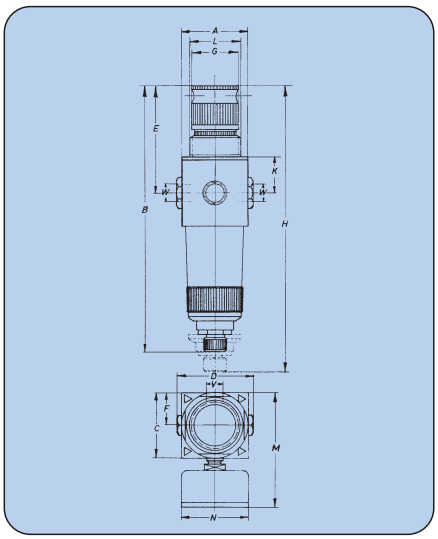


Accessories

Bracket mounting (for housing)	**444-5**
Bracket mounting (for top)	
- Kit (bracket and nut)	**443-36**
- Panel mounting (nut)	**381-32**
Bowl protection	
short	**445-44**
long (for bowls with internal automatic drain valve)	**419-10**

Main spare parts

Plastic bowl with seal and	
manually-operated drain valve	**443-12**
semi-automatic drain valve	**443-42**
external-automatic drain valve A (16 bar)	**443-43**
manually-operated drain valve B (12 bar)	**443-111**
Plastic bowl (long bowl) with seal and	
internal-automatic drain valve	**419-78**
Filter element	
40 µm filter mesh (mounted)	**443-32**
5 µm filter mesh (reduced flow rate)	**443-167**
Pressure gauge Ø 40 (G 1/8)	
0 - 6/10 bar	**670**
0 - 10/16 bar	**680**
0 - 16/25 bar	**690**
Valve complete with stem	**443-142**
Diaphragm complete with gliding ring	**480-92**



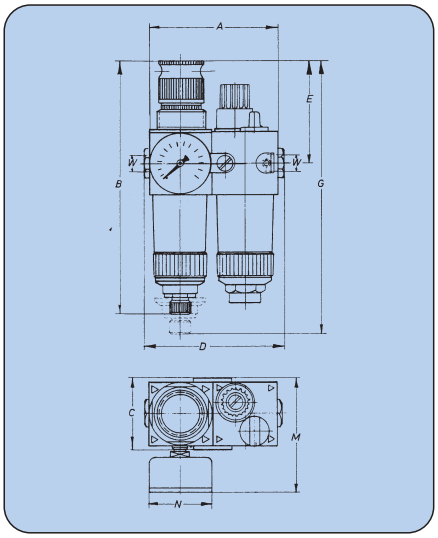
Dimensions [mm]

Port	G 1/8*	G 1/4
A	40	
B**	170	
C	40	
D	46	40
E	65	
F	20	
H**	190	
K	22	
L	M30x1,5	
M	78	

** internal-automatic drain valve +40 mm
semi-automatic drain valve +10 mm
external-automatic drain valve A +90 mm
external-automatic drain valve B +75 mm

Drain valves, see chapter 7

Two-Piece Maintenance Unit
airvision modular



A maintenance unit in block assembly consisting of an airvision filter pressure reducer and fog lubricator. Flanging is possible on either side for additional equipment. Other variations are possible by combination with additional equipment. Port sizes G 1/8 and G 1/4.

Technical Data

Nominal rates of flow* **	570 Nl/min
Min. flow rate** **	30 Nl/min
Max. inlet pressure (p_1)	16 bar
Outlet pressure range (p_2)	0,5 - 10 bar
Operating temperature	0 °C up to +50 °C
Effective bowl volume	
filter bowl	10 cm³
lubricator bowl	25 cm³
Mounting position	vertical
Direction of flow	arrow
Nominal width	DN 6
Depend. upon supply pressure	< 4 %
Reversing control hysteresis	~ 1 bar
Weight	650 g
Material	
Seals	NBR
Housing	zinc alloy
Filter element	polyethylene
Plastic bowl	polycarbonate

*** measured at p_1 = 8 bar, p_2 = 6 bar and Δp = 1 bar

*** Oil delivery 10 droplets/min at 6 bar / Recommended oil see chapter 8

Two-Piece Maintenance Units 0,5 - 10 bar

Thread	G 1/8	G 1/4
Order No.	**449.21***	**449.22**

special option - how to order:

449.xx x

- **S** **bowl protection**
- **1** **G 1/8** thread
- **2** **G 1/4** thread
- **2** **manually-opereated drain valve**
- **3** **internal-automatic drain valve** (1 - 12 bar)
- **5** **semi-automatic drain valve** (0,5 - 25 bar)
- **6** **external-automatic drain valve A** (4 - 16 bar)
- **7** **external-automatic drain valve B** (1 - 12 bar)

For example:
449.22 – but with **semi-automatic drain valve** and **bowl protection = 449.52 S**

Accessories

Flange connecion kit with seal	**447-1**
Bracket mounting (for housing)	**444-5**
Bracket mounting (for top) - Kit (bracket and nut)	**443-36**

Filter pressure regulator, see pages 6 - 7
Lubricators, see page 5
Drain valves, see chapter 7

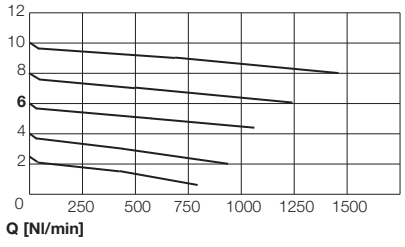
Dimensions [mm]

Port	G 1/8*	G 1/4
A	80	
B**	160	
C	44	
D	86	80
E	65	
G**	190	
M	78	

** semi-automatic drain valve +10 mm
external-automatic drain valve B +75 mm
external-automatic drain valve A +90 mm

Rates of flow $p_1 = p_2 + 2$ bar

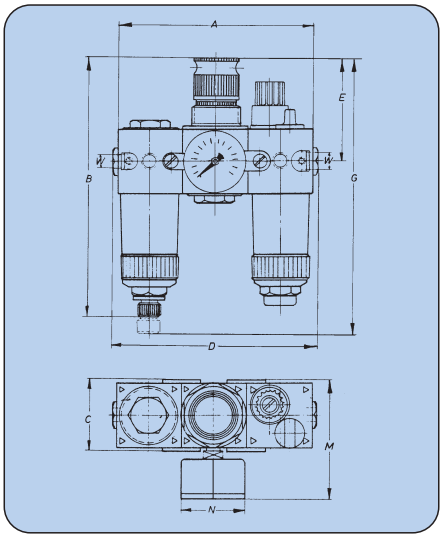
p_2 [bar] G 1/4



* Inlet and outlet reduced (reducing adapters with O-Rings enclosed)

Three-Piece Maintenance Unit
airvision modular

A maintenance unit in block assembly consisting of an airvision filter pressure reducer and fog lubricator. Flanging is possible on either side for additional equipment. Other variations are possible by combination with additional equipment. Port sizes G 1/8 and G 1/4.



Technical Data

Nominal rates of flow* **	570 Nl/min
Min. flow rate** **	30 Nl/min
Max. inlet pressure (p_1)	16 bar
Outlet pressure range (p_2)	0,5 - 10 bar
Operating temperature	0 °C up to +50 °C
Effective bowl volume	
filter bowl	10 cm³
lubricator bowl	25 cm³
Mounting position	vertical
Direction of flow	arrow
Nominal width	DN 6
Depend. upon supply pressure	< 4 %
Reversing control hysteresis	~ 1 bar
Weight	800 g
Material	
Seals	NBR
Housing	zinc alloy
Filter element	polyethylene
Plastic bowl	polycarbonate

*** measured at p_1 = 8 bar, p_2 = 6 bar and Δp = 1 bar

*** Oil delivery 10 droplets/min at 6 bar / Recommended oil see chapter 8

Three-Piece Maintenance Units 0,5 - 10 bar

Thread	G 1/8	G 1/4
Order No.	**450.21***	**450.22**

special option - how to order:

450.xx x

- **S** **bowl protection**
- **1** **G 1/8** thread
- **2** **G 1/4** thread
- **2** **manually-opereated drain valve**
- **3** **internal-automatic drain valve** (1 - 12 bar)
- **5** **semi-automatic drain valve** (0,5 - 25 bar)
- **6** **external-automatic drain valve A** (4 - 16 bar)
- **7** **external-automatic drain valve B** (1 - 12 bar)

For example:
450.22 – but with **semi-automatic drain valve** and **bowl protection = 450.52 S**

Accessories

Flange connecion kit with seal	**447-1**
Bracket mounting (for housing)	**444-5**
Bracket mounting (for top) - Kit (bracket and nut)	**443-36**

Filter, see page 2
Pressure regulator, see page 4
Lubricators, see page 5
Drain valves, see chapter 7

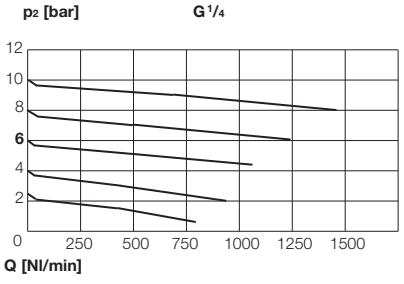
Dimensions [mm]

Port	G 1/8*	G 1/4
A	120	
B**	160	
C	44	
D	126	120
E	65	
G**	190	
M	78	

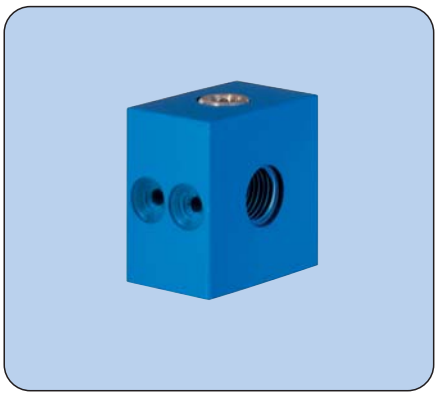
** - semi-automatic drain valve +10 mm
- external-automatic drain valve B +75 mm
- external-automatic drain valve A +90 mm

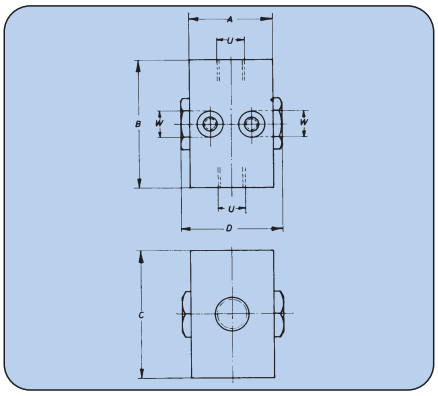
Rates of flow

$p_1 = p_2 + 2$ bar



Narrow Distributor
airvision modular





Distributors in modular design are suitable for flanging at any position onto airvision maintenance units. Port sizes G 1/8 and G 1/4. They have two outlets (above and below), which are plugged upon delivery.

Technical Data

Max. operating pressure	25 bar
Operating temperature	-10 °C up to +80 °C
Mounting position	any
Direction of flow	any
Nominal width	DN 6
Weight	130 g
Material	
Housing	aluminum

Narrow Distributors

Thread	**G 1/8**	**G 1/4**
Order No.	**447.01***	**447.02**

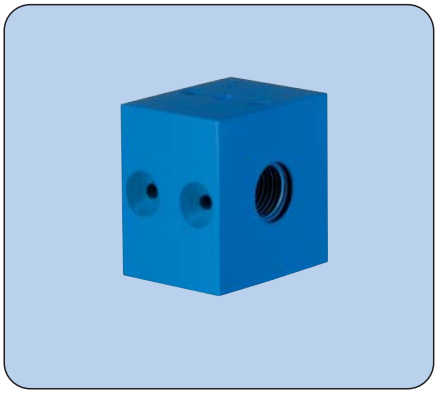
Accessories

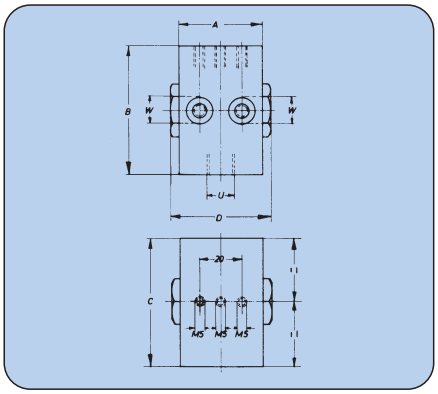
Flange connecion kit with seal	**447-1**

Dimensions

Port W	Dimensions [mm] A	B	C	D	U
G 1/8*	26	40	40	32	G 1/4
G 1/4				26	

Distributor for Pressure Switch
airvision modular





Distributors for pressure switches in modular design are suitable for flanging at any position onto airvision maintenance units. Port sizes G 1/8 and G 1/4. They have one outlet (below), which is plugged upon delivery, and a connection possibility for pressure switches made by IMI Norgren or Bosch (see below).

Technical Data

Max. operating pressure	25 bar
Operating temperature	-10 °C up to +80 °C
Mounting position	any
Direction of flow	any
Nominal width	DN 6
Weight	135 g
Material	
Housing	aluminum

DistributorsFor Pressure Switches

Thread	**G 1/8**	**G 1/4**
Order No.	**447.11***	**447.12**

Accessories

Flange connecion kit with seal	**447-1**
Recommended pressure switch - Bosch Rexroth	
0,2 - 3 bar	**No. 0821 100 011**
0,5 - 8 bar	**No. 0821 100 012**
1,0 - 16 bar	**No. 0821 100 013**
Recommended pressure switch - IMI Norgren	
0,2 - 3 bar	**No. 0881 200**
0,5 - 8 bar	**No. 0881 300**
1,0 - 16 bar	**No. 0881 400**

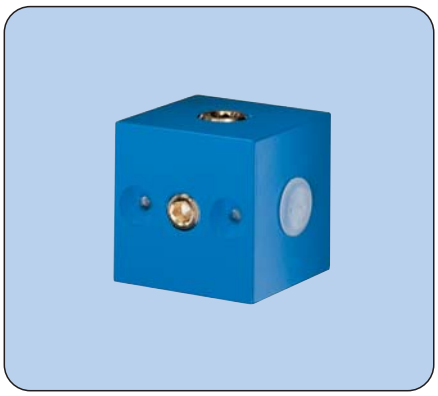
Dimensions

Port W	Dimensions [mm] A	B	C	D	U
G 1/8*	30	40	40	36	G 1/4
G 1/4				30	

* Inlet and outlet reduced (reducing adapters with O-Rings enclosed)

Wide Distributor
airvision modular

Distributors in modular design are suitable for flanging at any position onto airvision maintenance units. Port sizes G 1/8 and G 1/4. They have four outlets, which are plugged upon delivery.



Technical Data

Max. operating pressure	25 bar
Operating temperature	-10 °C up to +80 °C
Mounting position	any
Direction of flow	any
Nominal width	DN 6
Weight	185 g
Material	
Housing	aluminum

Wide Distributors

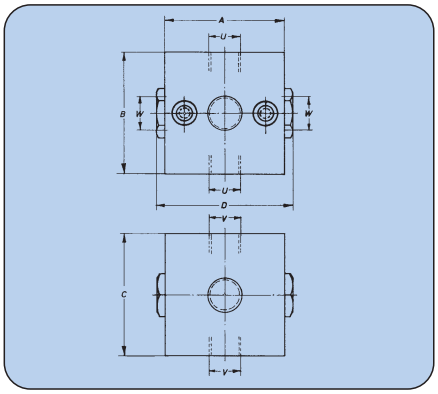
Thread	**G 1/8**	**G 1/4**
Order No.	**447.21***	**447.22**

Accessories

Flange connecion kit with seal	**447-1**

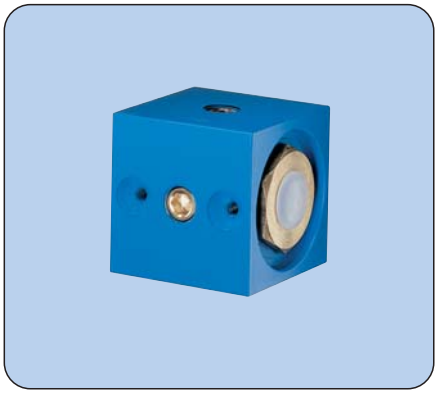
Dimensions

Port W	Dimensions [mm] A	B	C	D	U	V
G 1/8* G 1/4	40	40	40	46 40	G 1/4	G 1/8



Distributor with Non-Return Valve
airvision modular

Distributors with a non-return valve in modular design are mounted before the airvision fog lubricator. Removal of unlubricated air is possible through four outlets which are plugged upon delivery. Port sizes G 1/8 and G 1/4.



Technical Data

Max. operating pressure	25 bar
Operating temperature	-10 °C up to +80 °C
Mounting position	any
Direction of flow	arrow
Nominal width	DN 6
Weight	205 g
Material	
Housing	aluminum

Distributors With Non-Return Valves

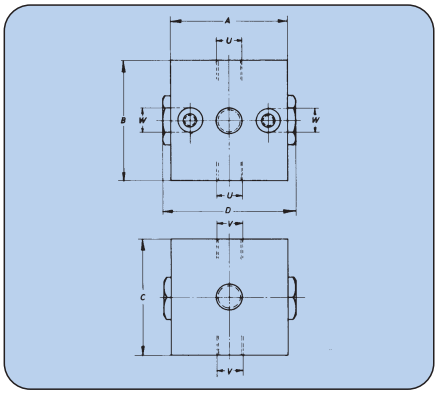
Thread	**G 1/8**	**G 1/4**
Order No.	**447.31***	**447.32**

Accessories

Flange connecion kit with seal	**447-1**

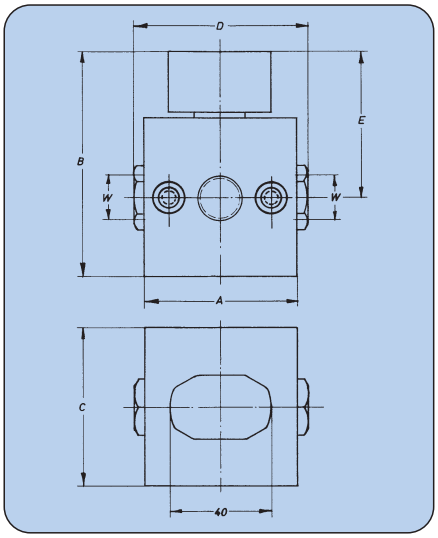
Dimensions

Port W	Dimensions [mm] A	B	C	D	U	V
G 1/8* G 1/4	40	40	40	46 40	G 1/4	G 1/8



* Inlet and outlet reduced (reducing adapters with O-Rings enclosed)

Ball Valve
airvision modular



Ball valves (3/2-way valves) in modular design with relieving for flanging onto airvision maintenance units are especially suitable as a main shut-off valve at inlet. Operation by means of a toggle that turns 90 degrees to switch positions that correspond to the functions: crosswise = closed, relieving open; parallel = open. Toggle available in lockable model. Relieving with sintered muffler. Port sizes G 1/8 and G 1/4.

Technical Data

Max. operating pressure	25 bar
Operating temperature	-10 °C up to +80 °C
Mounting position	vertical
Direction of flow	arrow
Nominal size	
inside diameter	DN 6
exhaust	DN 2
Weight	250 g
Material	
Seals	NBR
Housing	aluminum

Ball Valves

Thread	**G 1/8**	**G 1/4**
Order No.	**447.41***	**447.42**

special option - how to order:

447.4x x

- **A** **key-lockable toggle**
- **1** **G 1/8** thread
- **2** **G 1/4** thread

For example:

447.42 – but with **key-lockable toggle = 447.42 A**

Accessories

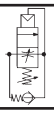
Flange connecion kit with seal	**447-1**

Dimensions

Port W	Dimensions [mm] A	B	C	D	E
G 1/8*	40	66	40	46	46
G 1/4				40	

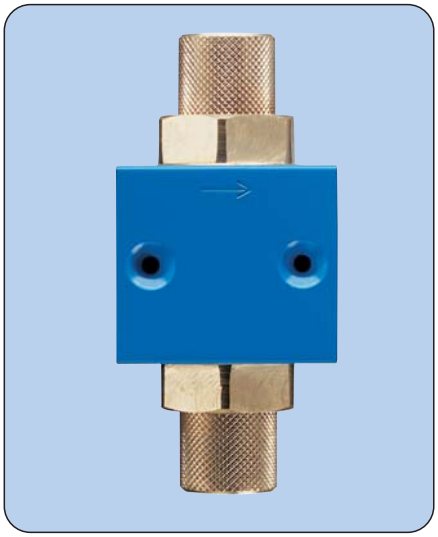
* Inlet and outlet reduced (reducing adapters with O-Rings enclosed)

Starting Valve
airvision modular



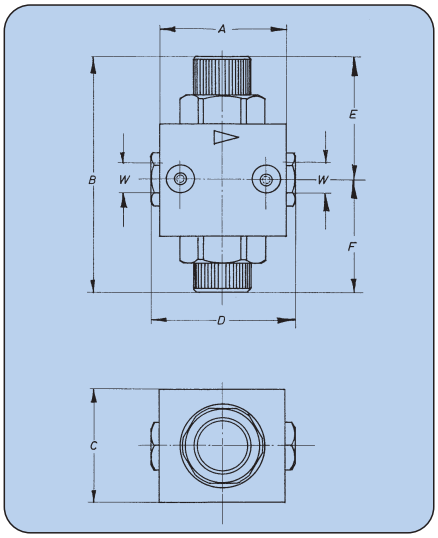
Starting valves or filling valves in modular design serve to raise the pressure gradually in pneumatic systems when they are being started, for example after emergency shut-off. When switched on, throttles release at first only a small orifice. Only when the pressure has reached about 50% of operating pressure is the full orifice opened. In the opposite direction (relieving) the full orifice is opened by means of a non-return valve. In combination with airvision equipment such as the 3/2-way valve or solenoid valve a complete on-and-off unit can be assembled. Port sizes G 1/8 and G 1/4.

Only suitable for closed systems!



Technical Data

Max. operating pressure	25 bar
Operating temperature	-10 °C up to +80 °C
Mounting position	any
Direction of flow	arrow
Nominal width	DN6
Switch over point adjustable	2 to 6 bar
Throttle adjustable	0 to DN3
Weight	350 g
Material	
Seals	NBR
Housing	aluminum



Starting Valves

Thread	**G 1/8**	**G 1/4**
Order No.	**447.51***	**447.52**

Accessories

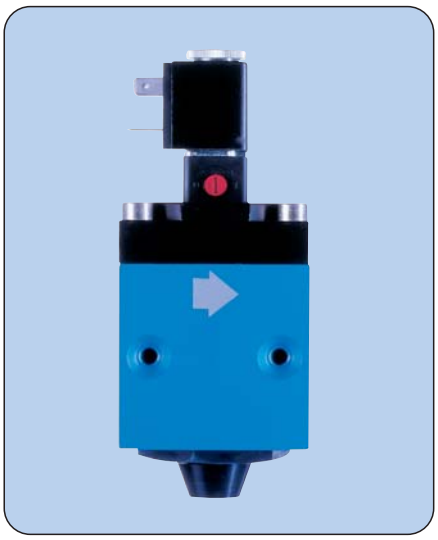
Flange connecion kit with seal	**447-1**

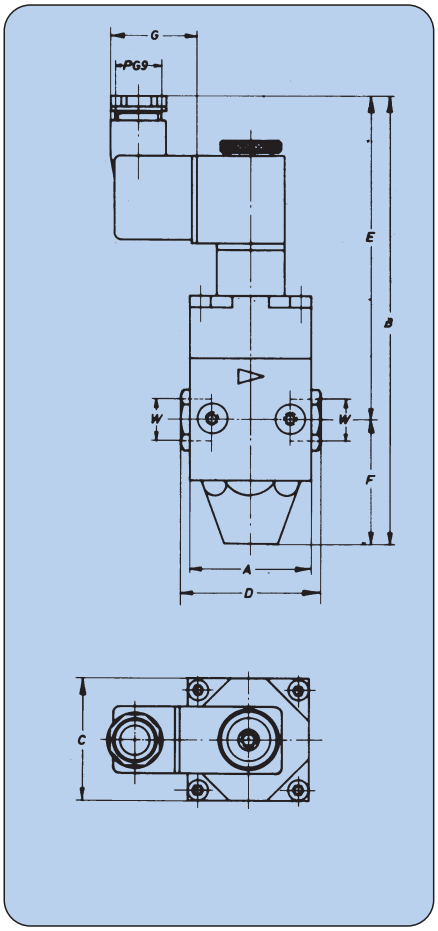
Dimensions

Port W	Dimensions [mm] A	B	C	D	E	F
G 1/8*	44	90	40	50	44	46
G 1/4				44		

* Inlet and outlet reduced (reducing adapters with O-Rings enclosed)

Solenoid Valve
airvision modular





Solenoid valves (3/2-way valves) in modular design can be used as an alternative to the manually operated ball valve for various voltages as shut-off valves in compressed air systems. The electric connection is made by means of a couplet socket with Pg9. Protective system IP65 according to DIN40050. The valve is closed when currentless.
Port sizes G 1/8 and G 1/4.

Technical Data

Nominal rates of flow**	1200Nl/min
Max. operating pressure	10bar
Min. operating pressure	3bar
Operating temperature	0°C up to +80°C
Mounting position	any
Direction of flow	arrow
Solenoid	
Voltage available (Tolerance ±10%)	24V~
	220V~
	110V~
	24V=
rel. swith-on time	100%
Type of protection and DIN40050	IP65
Weight	400g
Material	
Seals	NBR
Housing	aluminum

** measured at p_1=8bar, p_2=6bar and Δp=1bar

Solenoid Valves 220V, 50Hz (with exhaust)

Thread	G 1/8	G 1/4
Order No.	**447.612***	**447.622**

special option - how to order:

444.6xx

1	**24V, 50Hz**
2	**220V, 50Hz**
3	**110V, 50Hz**
4	**24V=**

1	**G 1/8** thread
2	**G 1/4**

For example:
447.622 – but with **24V, 50Hz = 447.621**

Accessories

Flange connecion kit with seal	**447-1**

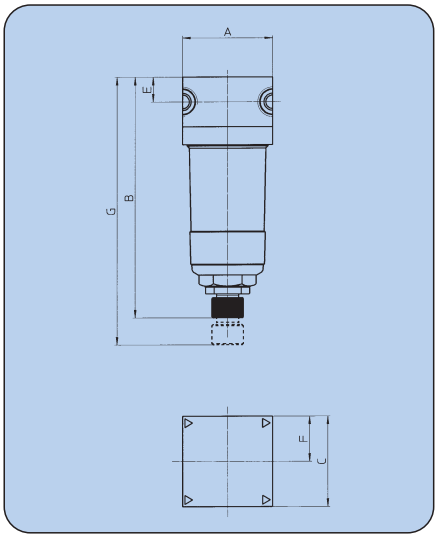
Dimensions

Port W	Dimensions [mm] A	B	C	D	E	F	G
G 1/8* G 1/4	40	145	40	46 40	105	40	25

* Inlet and outlet reduced (reducing adapters with O-Rings enclosed)

List of Contents
airvision compact L

Filter
airvision compact L



Compressed air filter in modular design. Flanging for more devices is possible. Containers made of plastic (polycarbonate) with a manual drain valve for condensate. Two-stage separation (cyclone) and filter insert made of plastic (polyethylene) with a pore size of 40µm.

Technical Data

Nominal rates of flow**	800Nl/min
Max. operating pressure	16bar
Operating temperature	0°C up to +50°C
Effective bowl volume	12cm³
Mounting position	vertical
Direction of flow	arrow
Pore diameter of filter element	40µm
Nominal width	DN6
Weight	200g
Material	
Seals	NBR
Housing	zinc alloy
Filter element	polyethylene
Plastic bowl	polycarbonate

** measured at p_1 = 6bar and Δp = 1bar

Filters with plastic bowl and manually-operated drain valve

Thread	G 1/8	G 1/4
Order No.	**460.21***	**460.22**

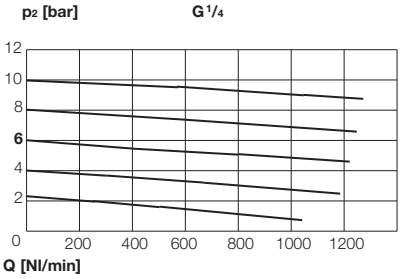
Main spare parts

Plastic bowl with seal and manually-operated drain valve	**443-12**
Filter element	
40µm filter mesh (mounted)	**443-32**
5µm filter mesh (reduced flow rate)	**443-167**

Dimensions [mm]

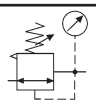
Port	G 1/8*	G 1/4
A	46	
B	106	
C	40	
E	11	
F	20	
G**	150	

Rates of flow

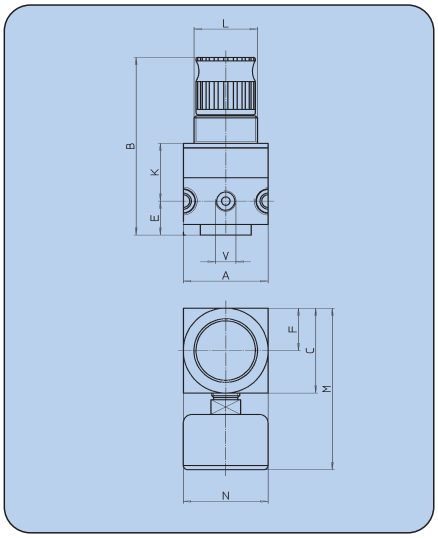


* Inlet and outlet reduced (reducing adapters with O-Rings enclosed)

Pressure Regulator
airvision compact L



Compressed air pressure regulators in modular design maintain constant working pressure regardless of pressure fluctuations in the system or of air consumption. Flanging is possible. Port sizes G 1/8 and G 1/4. Secondary air exhaust (relieving) and almost complete independence of primary pressure. Diaphragm regulator with working pressure ranges 10 bar. Gauge can be mounted on back or front.
Important: Use of filter always recommended.



Technical Data

Nominal rates of flow**	600 Nl/min
Max. inlet pressure (p_1)	16 bar
Outlet pressure range (p_2)	0,5 - 10 bar
Operating temperature	+50 °C
Mounting position	any
Direction of flow	arrow
Nominal width	DN 6
Depend. upon supply pressure	< 10 %
Reversing control hysteresis	~ 0,6 bar
Weight	230 g
Material	
Diaphragm / Seals	NBR
Housing	zinc alloy

** measured at p_1 = 8 bar, p_2 = 6 bar and Δp = 1 bar

Pressure Regulators 0,5 - 10 bar

Thread	G 1/8	G 1/4
Order No.	**461.213***	**461.223**

Accessories

Bracket mounting (for top)	
- Kit (bracket and nut)	**443-36**
- Panel mounting (nut)	**381-32**

Main spare parts

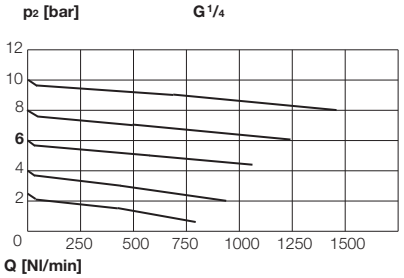
Pressure gauge Ø 40 (G 1/8) 0 - 10/16 bar	**680**
Valve complete with stem	**443-142**
Diaphragm complete with gliding ring	**480-92**

Dimensions [mm]

Port	G 1/8*	G 1/4
A	46	40
B	90	
C	40	
E	25	
F	20	
K	23	
L	M30x1,5	
M	75	
N	Ø40	

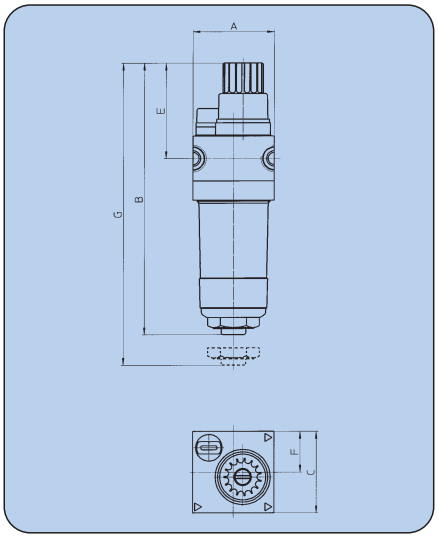
Rates of flow

$p_1 = p_2 + 2$ bar



* Inlet and outlet reduced (reducing adapters with O-Rings enclosed)

Lubricator
airvision compact L



Compressed air lubricator in modular design add a fine oil fog to the compressed air, providing a constant and reliable lubrication of pneumatically regulated compressed air tools, valves and cylinders etc.. Flanging is possible on both sides for adding other airvision `L´ equipment. Port sizes G 1/8 and G 1/4. Oil can be refilled under pressure. Needle valve for oil adjustment with high drop constancy over long periods of time.

Technical Data

Nominal rates of flow**	800 Nl/min
Min. flow rate***	30 Nl/min
Max. operating pressure	16 bar
Operating temperature	0 °C up to +50 °C
Effective bowl volume	25 cm³
Mounting position	vertical
Direction of flow	arrow
Nominal width	DN 6
Weight	230 g
Material	
Seals	NBR
Housing	zinc alloy
Plastic bowl	polycarbonate

** measured at p_1 = 6 bar and Δp = 1 bar

*** Oil delivery 10 droplets/min at 6 bar

Recommended oil see chapter 8

Oil containers made of plastic (polycarbonate) are attacked by oil additives, anti-frost or synthetic oils. We therefore recommend normal lubricating oils of approx. 22 to 32 cSt at 40 °C (in the case of striking tools up to 68 cSt). Metal containers should be used for other oils, especially for low-temperature oils. Also recommended is a metal lubricator adjusting cap.

Lubricators with plastic bowl

Thread	G 1/8	G 1/4
Order No.	**462.01***	**462.02**

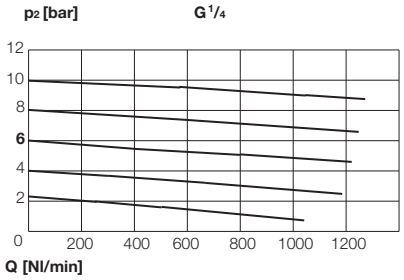
Main spare parts

Plastic bowl with seal	**446-6**
Lubricator adjusting cap plastic	**423-179**

Dimensions [mm]

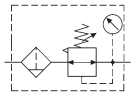
Port	G 1/8*	G 1/4
A	46	40
B	138	
C	40	
E	50	
F	20	
G	170	

Rates of flow



* Inlet and outlet reduced (reducing adapters with O-Rings enclosed)

Filter Pressure Regulator
airvision compact L



Filters for compressed air and pressure regulators combined in one piece of equipment in modular design to save space. The cleansed compressed air is kept at constant pressure regardless of pressure fluctuations in the system or of air consumption. Secondary air exhaust (relieving) and almost complete independence of primary pressure. Diaphragm regulator with working pressure ranges 0,5 and 10 bar. Adjustment can be locked by pressing the handwheel. Gauge can be mounted on back or front side. Additional airvision `L´ equipment can be flanged to either side. Port sizes G 1/8 to G 1/4.

Technical Data

Nominal rates of flow**	750 Nl/min
Max. inlet pressure (p_1)	16 bar
Outlet pressure range (p_2)	0,5 - 10 bar
Operating temperature	0 °C up to +50 °C
Effective bowl volume	12 cm³
Pore diameter of filter	40 µm
Mounting position	vertical
Direction of flow	arrow
Nominal width	DN6
Depend. upon supply pressure	< 10 %
Reversing control hysteresis	~ 0,6 bar
Weight	350 g
Material	
Diaphragm / Seals	NBR
Housing	zinc alloy
Filter element	polyethylene
Plastic bowl	polycarbonate

*** measured at p_1 = 8 bar, p_2 = 6 bar and Δp = 1 bar

Pressure Regulators 0,5 - 10 bar

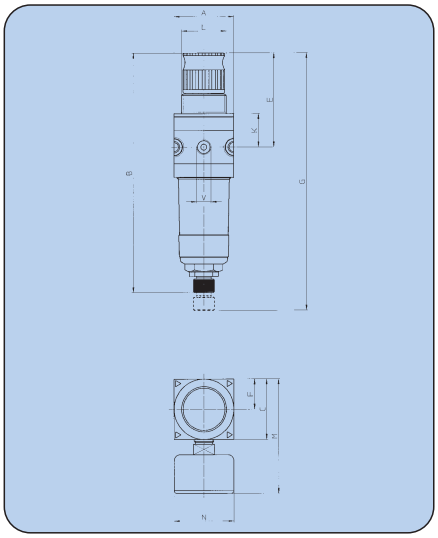
Thread	G 1/8	G 1/4
Order No.	**463.213***	**463.223**

Accessories

Bracket mounting (for top)	
- Kit (bracket and nut)	**443-36**
- Panel mounting (nut)	**381-32**

Main spare parts

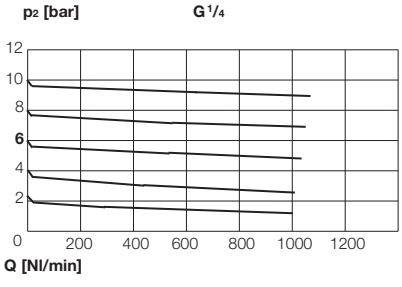
Plastiv bowl with seal and manually-operated drain valve	**443-12**
Filter element	
40 µm filter mesh (mounted)	**443-32**
5 µm filter mesh (reduced flow rate)	**443-167**
Pressure gauge Ø40 (G 1/8) 0 - 10/16 bar	**680**
Valve complete with stem	**443-142**
Diaphragm complete with gliding ring	**480-92**



Dimensions [mm]

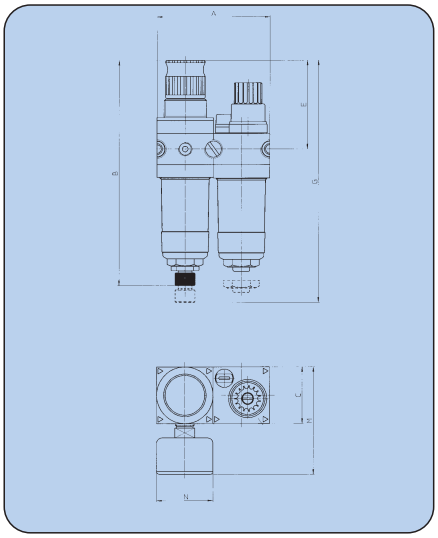
Port	G 1/8*	G 1/4
A	46	40
B	162	
C	40	
E	65	
F	20	
G	190	
K	23	
L	M30x1,5	
M	75	
N	Ø40	

Rates of flow $p_1 = p_2 + 2$ bar



* Inlet and outlet reduced (reducing adapters with O-Rings enclosed)

Two-Piece Maintenance Unit
airvision compact L



A maintenance unit in block assembly consisting of an airvision filter pressure reducer and a fog lubricator. Port sizes G 1/8 and G 1/4.

Technical Data

Nominal rates of flow**	470 Nl/min
Min. flow rate***	30 Nl/min
Max. inlet pressure (p_1)	16 bar
Outlet pressure range (p_2)	0,5 - 10 bar
Operating temperature	0 °C up to +50 °C
Effective bowl volume	
filter bowl	10 cm³
lubricator bowl	25 cm³
Pore diameter of filter	40 µm
Mounting position	vertical
Direction of flow	arrow
Nominal width	DN 6
Depend. upon supply pressure	< 10 %
Reversing control hysteresis	~ 0,6 bar
Weight	600 g
Material	
Seals / Diaphragm	NBR
Housing	zinc alloy
Filter element	polyethylene
Plastic bowl	polycarbonate

** measured at p_1 = 8 bar, p_2 = 6 bar and Δp = 1 bar

*** Oil delivery 10 droplets/min at 6 bar

Recommended oil see chapter 8

Oil containers made of plastic (polycarbonate) are attacked by oil additives, anti-frost or synthetic oils. We therefore recommend normal lubricating oils of approx. 22 to 32 cSt at 40 °C (in the case of striking tools up to 68 cSt).

Two-Piece Maintenance Units 0,5 - 10 bar

Thread	G 1/8	G 1/4
Order No.	**464.21***	**464.22**

Accessories

Flange connecion kit with seal	**464-1**
Bracket mounting (for top) - Kit (bracket and nut)	**443-36**

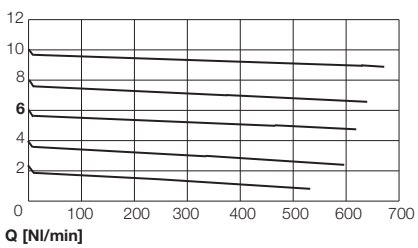
Dimensions [mm]

Port	G 1/8*	G 1/4
A	86	
B	162	
C	40	
E	65	
G	190	
M	75	
N	Ø 40	

Rates of flow

$p_1 = p_2 + 2$ bar

p_2 [bar] G 1/4

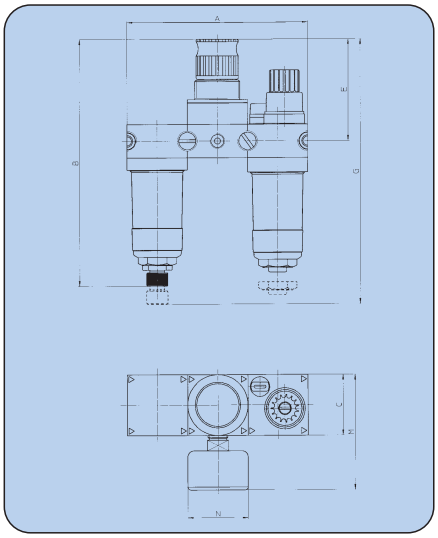


Filter pressure regulator, see page 19
Lubricators, see page 18

* Inlet and outlet reduced (reducing adapters with O-Rings enclosed)

Three-Piece Maintenance Unit
airvision compact L

A maintenance unit in block assembly consisting of an airvision filter, pressure regulator and a fog-lubricator. Flanging is possible on either side for additional equipment. Port sizes G 1/8 and G 1/4.



Technical Data

Nominal rates of flow**	470 Nl/min
Min. flow rate***	30 Nl/min
Max. inlet pressure (p_1)	16 bar
Outlet pressure range (p_2)	0,5 - 10 bar
Operating temperature	0 °C up to +50 °C
Effective bowl volume	
filter bowl	10 cm³
lubricator bowl	25 cm³
Pore diameter of filter	40 µm
Mounting position	vertical
Direction of flow	arrow
Nominal width	DN 6
Depend. upon supply pressure	< 5 %
Reversing control hysteresis	~ 1 bar
Weight	700 g
Material	
Seals / Diaphragm	NBR
Housing	zinc alloy
Filter element	polyethylene
Plastic bowl	polycarbonate

** measured at p_1 = 8 bar, p_2 = 6 bar and Δp = 1 bar
*** Oil delivery 10 droplets/min at 6 bar

Recommended oil see chapter 8

Oil containers made of plastic (polycarbonate) are attacked by oil additives, anti-frost or synthetic oils. We therefore recommend normal lubricating oils of approx. 22 to 32 cSt at 40 °C (in the case of striking tools up to 68 cSt).

Three-Piece Maintenance Units 0,5 - 10 bar

Thread	G 1/8	G 1/4
Order No.	**465.21***	**465.22**

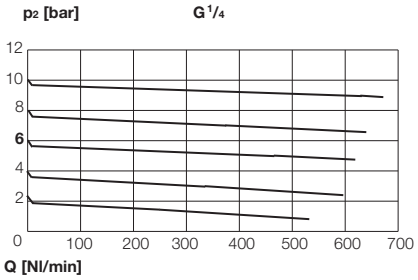
Accessories

Flange connecion kit with seal	**464-1**
Bracket mounting (for top) - Kit (bracket and nut)	**443-36**

Dimensions [mm]

Port	G 1/8*	G 1/4
A	126	120
B	162	
C	40	
E	65	
G	190	
M	75	
N	Ø40	

Rates of flow $p_1 = p_2 + 2$ bar



Filter, see page 16
Pressure regulator, see page 17
Lubricators, see page 18

* Inlet and outlet reduced (reducing adapters with O-Rings enclosed)

notes