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## variobloc



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# Facts – Data – Advantages

The differences lie in the details. When you evaluate offers, you should consider the features listed here are the calculations. Whether ease of handling, performance, or longevity - these ewo-qualities bring you benefits.



## Materials used:

Housing, fastening elements	zinc diecasting (Z410)
Cap, head (regulator)	PA6-GF30
Handwheel	POM
Cover	ABS
Seals, diaphragm	NBR
Filter insert	PE sintered
Impact cartridge, cutting wheel	POM
Bowl	polycarbonate
Interlock	POM
Pressure spring	steel galvanized
Against pressure spring	stainless steel
Cone, diaphragm plate	brass
Oiler dome	spez. PA
Oil regulation	PU
Metal bowl, bezel	zinc diecasting (Z410)
Sighting tube (at metal bowl)	spez. PA
Bowl protection	aluminum

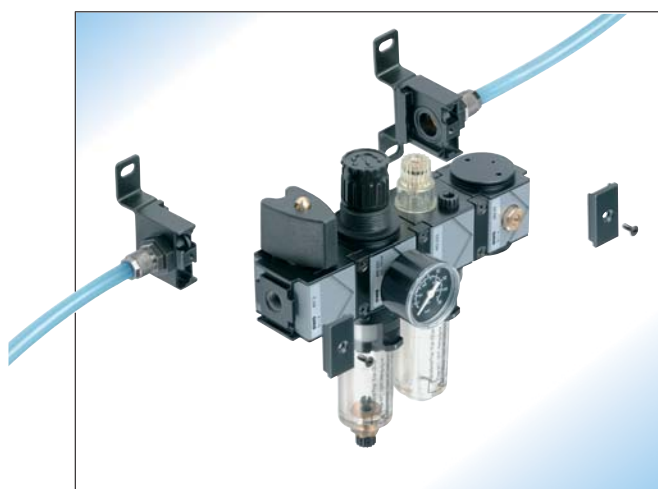
- Safety acc. EN 983
- Modern industrial design
- Robust metal housing  
(Zinc die casting with 2-fold surface protection)
- Thread connection acc. DIN with sealing surface  
(NPT as Option)
- Bayonet fixing for the plastic and metal bowl
- Retrofit metal bowl protection for the plastic bowl
- Option semi and fully automatic drain valves
- Two combinable connection possibilities (comfort - compact)
- Comfort connection with adhesive o-rings
- Integrated T-Bracket as connection module
- Direct wall mounting
- High stiffness / stability of the connection
- Optimal regulation characteristics through roll diaphragms
- Lubricator with enhanced flow rate and nebulisation

**Module fixation**

with bracket angle (for regulator) or direct wall mounting (2 screws) for all devices

**Thread connecting plate**

with adhesive sealing rings ( also available with bracket ) for assembly friendly installation in pipe - or hose systems

**Comfort blocking**

faster change of components or complete sets with **connection module** (sealing rings adhesive)  
Result: shorter assembling time (only size I).

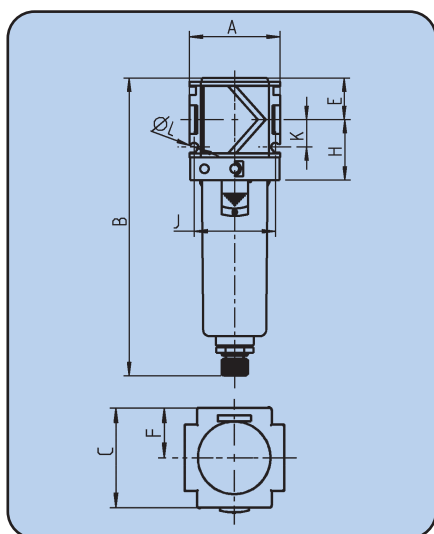
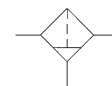
**Compact connection**

with optional integrated T-Bracket

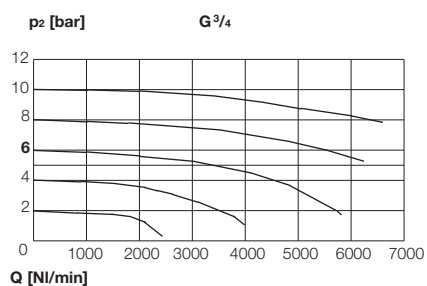
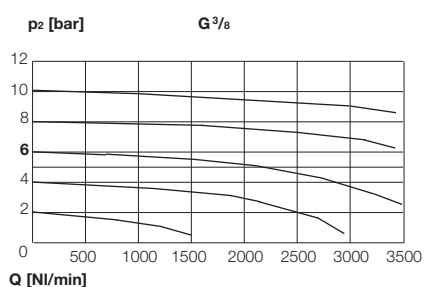


# Filter Type 482

## variobloc G<sup>1/4</sup> – G1



### Rates of flow



Compressed air filters serve to remove impurities (condensation water, pipe scaling, rust particles) from the air in the working place. The cleansing is done in two stages by means of cycloning (condensation) and PE-Filter-elements (solid contamination). Three opportunities of drain valves are available: manually-operated-, semi-automatic- or fully-automatic (internal- or external) drain valves.

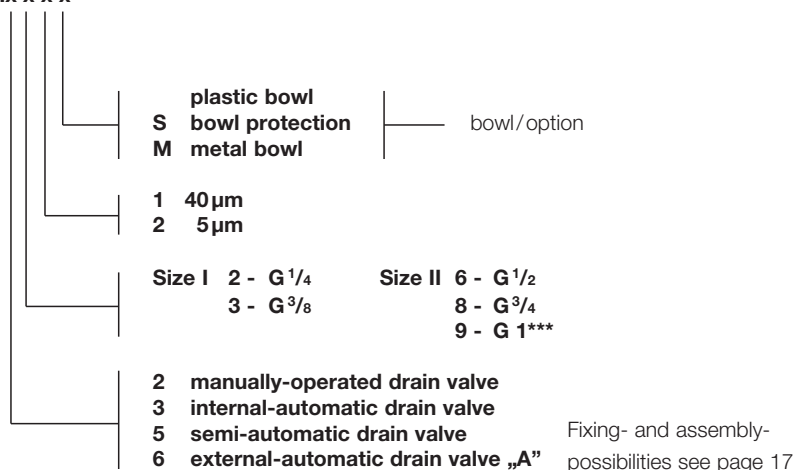
### Technical Data

	I		II	
Thread	G <sup>1/4</sup>	G <sup>3/8</sup>	G <sup>1/2</sup>	G <sup>3/4</sup> G1***
Nominal rates of flow*	1800NI/min	2000NI/min	3200NI/min	3500NI/min
Wideness of pores (filter)	40µm (optionally: 5µm)			
Pre-Pressure (p <sub>1</sub> ) max.**	16bar/20bar with metal bowl			
Max. operating temperature	50°C/80°C with metal bowl			
Volume of condensate	25cm <sup>3</sup>		85cm <sup>3</sup>	
Drain valve	manually (opt.: semi-automatic, fully-automatic)			
Material				
Housing	zinc alloy			
Bowl	polycarbonate			
Weight	310g		840g (G1 = 1300g)	

\* measured at 6 bar pre-pressure (p<sub>1</sub>) and Δp = 1 bar  
 \*\* with internal automatic drain valve between 1 and 12bar  
 \*\*\* mounting plates with G1 see page 18  
 External-automatic drain valve see page 19

### special option - how to order:

482.x x x x



### Accessories and main spare parts

	I	II
Filter element 40µm	480-7	480-219
Filter element 5µm	480-45	480-220
Plastic bowl with manually-operated drain valve	480-18	480-210
Metal bowl with manually-operated drain valve	480-28	480-213
Plastic bowl with protection cap	480-90	-
Bowl protection	480-25	480-216

### Dimensions [mm]

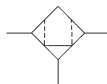
Thread	A	B	C	E	F	H	J	K	øL
G <sup>1/4</sup> and G <sup>3/8</sup>	48	158	48	22	24	32	43	14,5	4,4
G <sup>1/2</sup> and G <sup>3/4</sup>	70	202	70	26	35	44	62	18	5,4
G1***	125	202	70	26	35	44	62	18	5,4

### Upon request:

Cover:	“private label”
Thread:	NPT

# Micro-Filter Type 491

## variobloc G<sup>1/4</sup> – G1



Microborosilicate air filters are suitable for use in all situations in which the required purity of the compressed air is especially high. As the second stage after the standard filter they remove almost without residue the smallest remaining particles of water, oil or dirt to 99,999% (for 0,01µm).

### Technical Data

	I		Size		II	
<b>Thread</b>	G <sup>1/4</sup>	G <sup>3/8</sup>	G <sup>1/2</sup>	G <sup>3/4</sup>	G1***	
<b>Nominal rates of flow*</b>	370NI/min	420NI/min	1000NI/min	1100NI/min		
<b>Particle separation**</b>		99,999%, related to 0,01 µm				
<b>Residual oil content</b>		0,01 mg/m <sup>3</sup>				
<b>Air quality ISO 8573.1</b>		Class 1 dirt, Class 1 oil				
<b>Pre-Pressure (p<sub>1</sub>) max.</b>		16bar/20bar with metal bowl				
<b>Max. operating temperature</b>		50°C/80°C with metal bowl				
<b>Volume of condensate</b>		10cm <sup>3</sup>		30cm <sup>3</sup>		
<b>Drain valve</b>		manually (opt.: semi-automatic, fully-automatic)				
<b>Material</b>						
Housing						zinc alloy
Bowl						polycarbonate
<b>Weight</b>		310g		870g (G1 = 1330g)		

\* measured at 7 bar pre-pressure (p<sub>1</sub>) and Δp = 0,1 bar

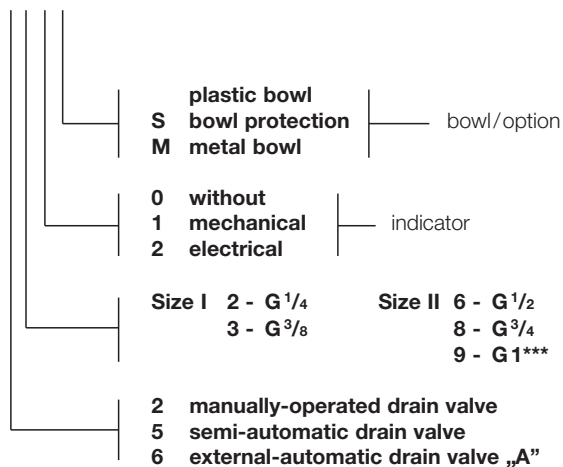
\*\* Prefiltration necessary at 5µm

\*\*\* mounting plates with G1 see page 18

External-automatic drain valve see page 19

### special option - how to order:

491.x x x x



### Accessories and main spare parts

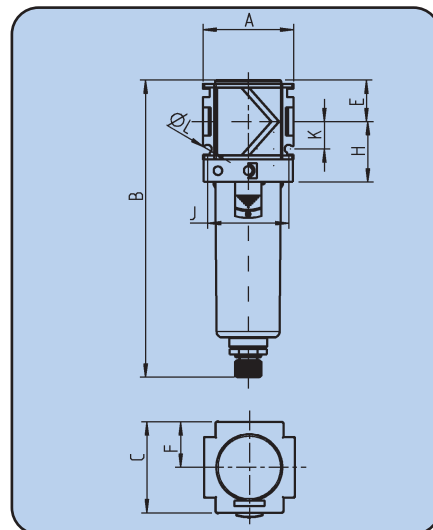
	I	II
<b>Filter element with seal</b>	491-4	491-103
<b>Plastic bowl with manually-operated drain valve</b>	491-13	491-108
<b>Metal bowl with manually-operated drain valve</b>	480-28	480-213
<b>Bowl protection</b>	480-25	480-216

### Dimensions [mm]

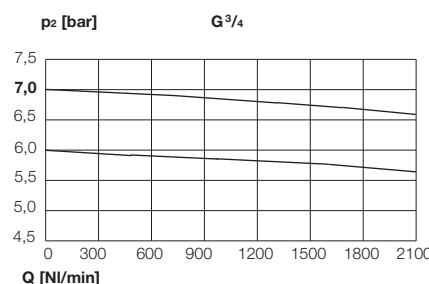
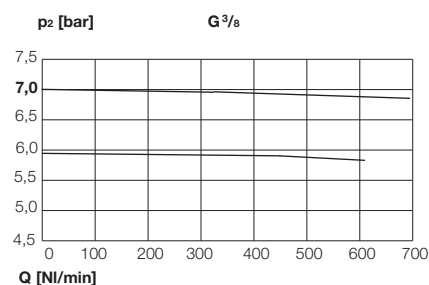
Thread	A	B	C	E	F	H	J	K	øL
G <sup>1/4</sup> and G <sup>3/8</sup>	48	158	48	22	24	32	43	14,5	4,4
G <sup>1/2</sup> and G <sup>3/4</sup>	70	202	70	26	35	44	62	18	5,4
G1***	125	202	70	26	35	44	62	18	5,4

### Upon request:

Cover:	“private label”
Thread:	NPT



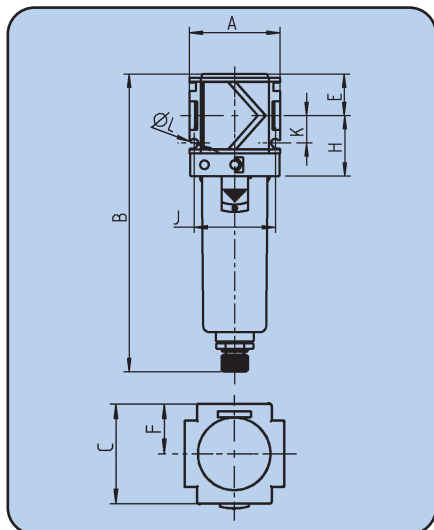
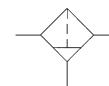
### Rates of flow



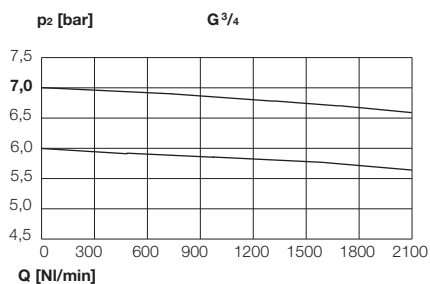
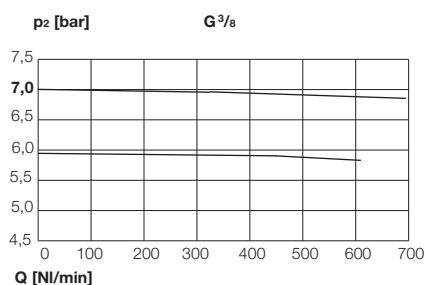


# Activated-Charcoal-Filter Type 493

## variobloc G<sup>1/4</sup> – G1



### Rates of flow



Active-charcoal filters serve to remove oil vapours and other organic pollutants from pressurised air. The active-charcoal fibre (the adsorption capacity of which is sufficient for approx. 1,000 hours of operation) is positioned between two stainless-steel nettings. The air at the inflow opening should be dry and free of particles; this is why the prior attachment of a micro-filter is categorically recommended. Caution! Some hazardous substances are either not at all or only slightly adsorbent, therefore non-removable with active charcoal! Such substances are i.e., carbon dioxide, carbon monoxide, ammonia.

### Technical Data

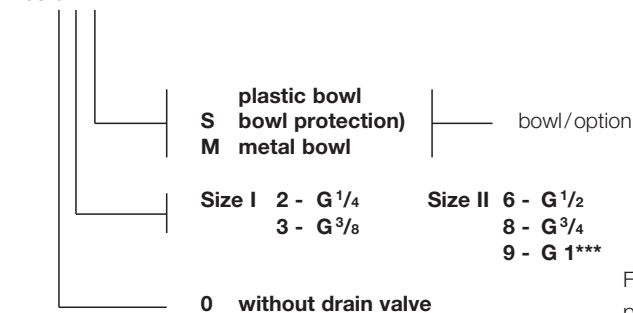
	I		II	
Thread	G <sup>1/4</sup>	G <sup>3/8</sup>	G <sup>1/2</sup>	G <sup>3/4</sup> G1**
Nominal rates of flow*	800NI/min	1000NI/min	1200NI/min	1300NI/min
Residual oil content	0,003mg/m <sup>3</sup>			
Air quality ISO 8573.1	Class 1 dirt, Class 1 oil			
Pre-Pressure (p <sub>1</sub> ) max.	16 bar / 20 bar with metal bowl			
Max. operating temperature	50 °C / 80 °C with metal bowl			
Material	zinc alloy			
Housing	polycarbonate			
Bowl				
Weight	320g		900g (G1 = 1400g**)	

\* measured at 7 bar pre-pressure (p<sub>1</sub>) and Δp = 0,2 bar

\*\* mounting plates with G1 see page 17

### special option - how to order:

493.0 x x



Fixing- and assembly-possibilities see page 17

### Accessories and main spare parts

	I	II
Filter element with seal	493-2	493-102
Plastic bowl	483-7	483-110
Metal bowl	483-10	483-113
Bowl protection	480-25	480-216

### Dimensions [mm]

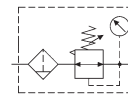
Thread	A	B	C	E	F	H	J	K	øL
G <sup>1/4</sup> and G <sup>3/8</sup>	48	142	48	22	24	32	43	14,5	4,4
G <sup>1/2</sup> and G <sup>3/4</sup>	70	193	70	26	35	44	62	18	5,4
G1***	125	193	70	26	35	44	62	18	5,4

### Upon request:

Cover:	"private label"
Thread:	NPT

# Filter Pressure Regulator Type 480

## variobloc G<sup>1/4</sup> – G1



**ewo**

4

Filter pressure regulators unique in space-saving model the functions of a filter and a regulator in one piece of equipment. (see single definitions).

### Technical Data

	I	Size	II
<b>Thread</b>	G <sup>1/4</sup>	G <sup>3/8</sup>	G <sup>1/2</sup> G <sup>3/4</sup> G1***
<b>Nominal rates of flow*</b>	2000NI/min	3000NI/min	5500NI/min 6500NI/min
<b>Wideness of pores (filter)</b>		40µm (optionally: 5µm)	
<b>Pre-Pressure (p<sub>1</sub>) max.**</b>		16bar/20bar with metal bowl	
<b>Secondary pressure (p<sub>2</sub>) max.</b>		10bar (optionally: 6, 16bar)	
<b>Max. operating temperature</b>		50°C/80°C with metal bowl	
<b>Volume of condensate</b>	25 cm <sup>3</sup>		85 cm <sup>3</sup>
<b>Drain valve</b>		manually (opt.: semi-automatic, fully-automatic)	
<b>Material</b>			
Housing		zinc alloy	
Seals		NBR	
Plastic bowl		polycarbonate	
<b>Weight (without gauge)</b>	460g		1150g (G1=1610g)

\* measured at 10bar pre-pressure (p<sub>1</sub>), 6bar secondary pressure (p<sub>2</sub>) and Δp = 1 bar after ISO6953.

\*\* with internal-automatic drain valve between 1,0 and 12bar

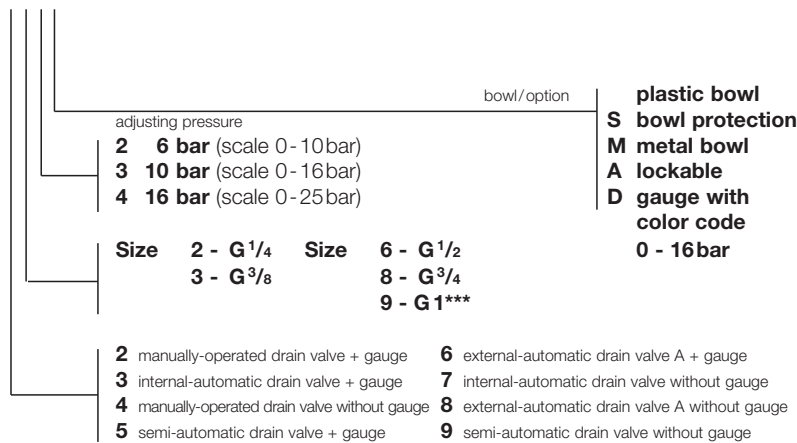
\*\*\* mounting plates with G 1 see page 17

External-automatic drain valve see page 18

Fixing- and assembly-possibilities see page 17

### special option - how to order:

480.xxxx



### Accessories and main spare parts

	I	II
<b>Gauge scale</b>		
0 - 10bar	723	55
0 - 16bar	734	85
0 - 25bar	745	96
<b>Filter insert</b>		
40µm	480-7	480-219
5µm (reduced flow)	480-45	480-220
<b>Plastic bowl with manually-operated drain valve</b>	480-18	480-210
<b>Plastic bowl with bowl protection</b>	480-90	-
<b>Metal bowl with manually-operated drain valve</b>	480-28	480-213
<b>Bowl protection</b>	480-25	480-216
<b>Wear parts</b>		
<b>Diaphragm complete with gliding ring</b>	480-92	480-263
<b>Seal cone complete</b>	480-48	480-218

### Advice:

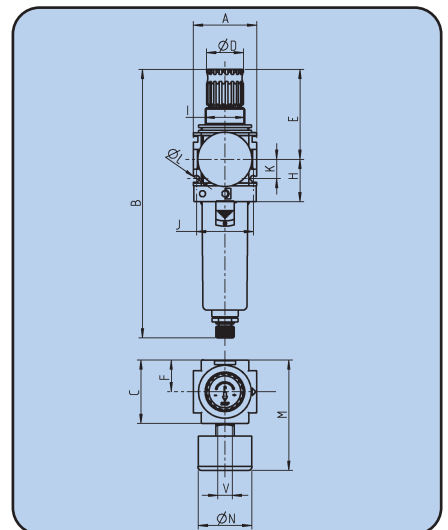
Pressure gauge (self-tightened) added loosely

### Upon request:

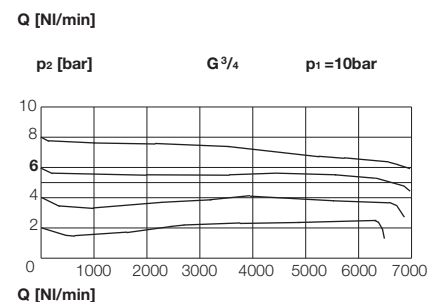
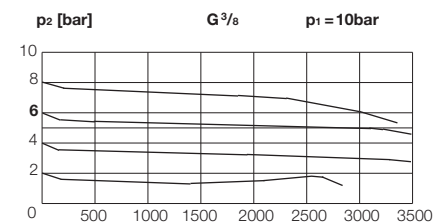
Cover: "private label"  
Thread: NPT

### Dimensions [mm]

Thread	A	B	C	øD	E	F	H	I	J	K	øL	M	øN	V
G <sup>1/4</sup> and G <sup>3/8</sup>	48	203	48	28	68	24	32	M30x1,5	43	14,5	4,4	84	40	G <sup>1/4</sup>
G <sup>1/2</sup> and G <sup>3/4</sup>	70	273	70	39	98	35	44	M42x1,5	62	18	5,4	106	50	G <sup>1/4</sup>
G1***	125	273	70	39	98	35	44	M42x1,5	62	18	5,4	106	50	G <sup>1/4</sup>



### Rates of flow







# Battery Regulator Type 490

variobloc G<sup>1/4</sup> – G<sup>3/8</sup>



4

These kind of regulators are equipped with a continuous pressure supply. The pressure inlet can be selected on left or right side, so that it can be used for a so called "battery mounting".

The attached regulators are offering independent and different pressure adjustments because the supply pressure is existing on both sides of the unit (Connection No. 1).

The working pressure (secondary pressure) which is kept almost constant regardless of pressure fluctuations (inlet pressure) in the system and air consumption, is available on the backside connection (No.2).

The regulator(diaphragm type ) is fitted with a secondary exhaust (self-relieving) to reduce the working pressure without air extraction. Contamination and damage could be avoided if a filter of the model 482 is installed. We recommend to use the units port size G<sup>3/8</sup> as they have the higher flow capacity. **Important:** Use of filter always recommended.

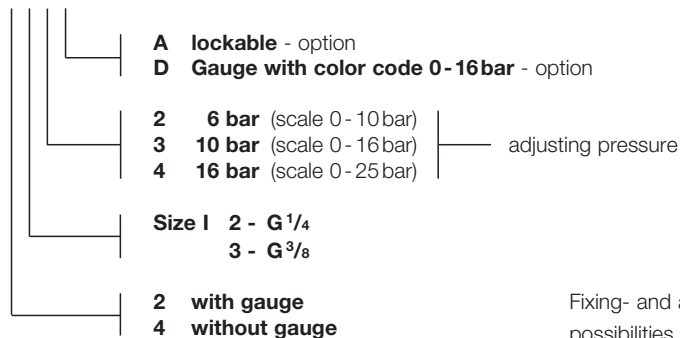
## Technical Data

<b>Connection 1</b>	G <sup>1/4</sup>	G <sup>3/8</sup>
<b>Connection 2</b>	G <sup>1/4</sup>	
<b>Nominal rate of flow*</b>	1800NI/min	
<b>Inlet pressure (P<sub>1</sub>) max.</b>	25 bar	
<b>Outlet pressure (P<sub>2</sub>) max.</b>	10 bar (opt. 6, 16 bar)	
<b>Operation temperature max.</b>	80°C	
<b>Material</b>		
Housing	zinc alloy	
Seals	NBR	
<b>Weight (without gauge)</b>	390g	

\* measured from 10bar inlet pressure (P<sub>1</sub>), 6 bar outlet pressure (P<sub>2</sub>) and decrease of Δp = 1 bar according to DINISO6953

### special option - how to order:

490.x x x x



Fixing- and assembly-possibilities see page 17

## Accessories and main spare parts

<b>Gauge scale</b>	0-10 bar	<b>723</b>
	0-16 bar	<b>734</b>
	0-25 bar	<b>745</b>
<b>Plug</b>	G <sup>1/4</sup>	<b>280-127</b>
(with female hexagon)	G <sup>3/8</sup>	<b>447-28</b>
<b>Reduction</b>	G <sup>3/8</sup> x G <sup>1/4</sup>	<b>1068</b>

### Main spare parts

<b>Diaphragm</b>	complete with slip ring	<b>480-92</b>
<b>Seal cone</b>	complete	<b>481-17</b>

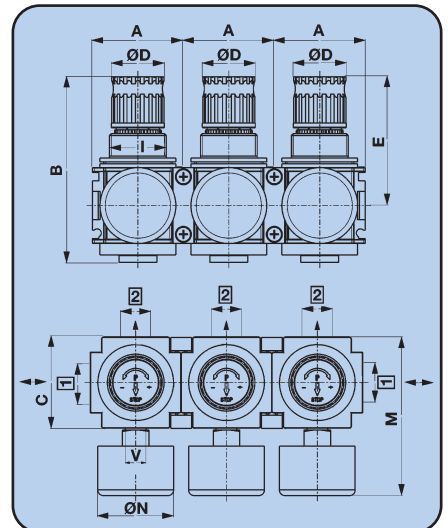
### Advice

**Pressure gauge self-tightened** (added loosely)

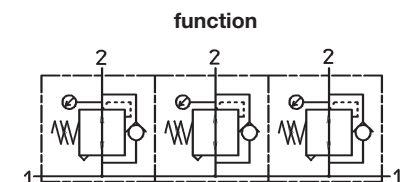
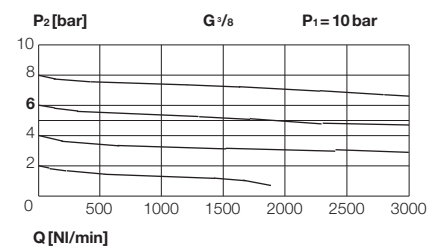
### Upon request

**Cover:** „private label“

**Thread:** NPT



## Rate of flow

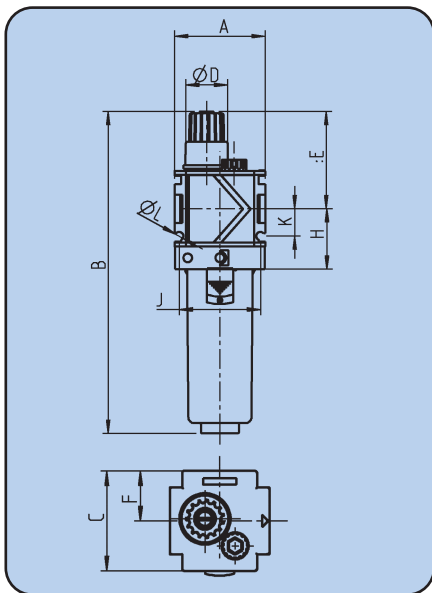


## Dimensions [mm]

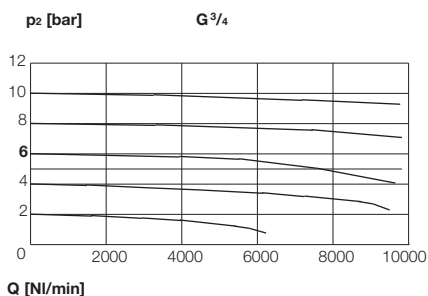
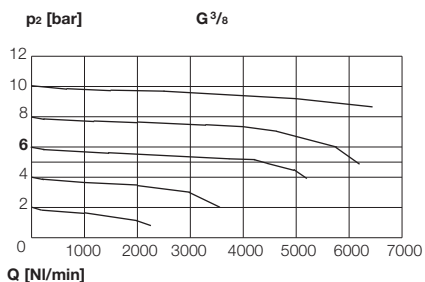
Thread 1	A	B	C	øD	E	F	I	M	øN	V / 2
G <sup>1/4</sup> and G <sup>3/8</sup>	48	98	48	28	68	24	M30x1,5	84	40	G <sup>1/4</sup>

# Lubricator Type 483

## variobloc G<sup>1/4</sup> – G1



### Rates of flow



Lubricators add a fine oil fog to the compressed air, this effecting a constant and reliable lubrication of pneumatically controlled compressed air tools, valves and cylinders etc... Refilling oil while under pressure is possible. Needle valve for oil adjustment with high drop constancy for long periods of time. Also available with metal sight dome.

### Technical Data

	I		II	
	G <sup>1/4</sup>	G <sup>3/8</sup>	G <sup>1/2</sup>	G <sup>3/4</sup> G1***
<b>Thread</b>	G <sup>1/4</sup>	G <sup>3/8</sup>	G <sup>1/2</sup>	G <sup>3/4</sup> G1***
<b>Nominal rates of flow*</b>	3400NI/min	4400NI/min	4600NI/min	7500NI/min
<b>Pre-pressure (p<sub>1</sub>) max.</b>	16bar/20bar with metal bowl			
<b>Max. operating temperature</b>	50°C**			
<b>Oil volume</b>	50cm <sup>3</sup>		125cm <sup>3</sup>	
<b>Lubricator function</b>	from 50l/min		from 150l/min	
<b>Sort of oil</b>	according to DIN 51524 - ISO VG 32			
<b>Material</b>	Housing		zinc alloy	
	Plastic bowl		polycarbonate	
	Seals		NBR	
<b>Weight</b>	300g		800g (G1 = 1260g)	

\* measured at 6bar pre-pressure (p<sub>1</sub>), and Δp = 1 bar

\*\* 80°C with metal bowl and oiler dome out of metal

\*\*\* mounting plates with G1 see page 17

### special option - how to order:

483.x x x x

S	Plastic	bowl/option
M	Metal bowl	
Size I 2 - G <sup>1/4</sup>	Size II 6 - G <sup>1/2</sup>	
3 - G <sup>3/8</sup>	8 - G <sup>3/4</sup>	
	9 - G1***	
2	Normal-Lubricator	model
0	without drain valve	
1	manually-operated drain valve	

Fixing- and assembly-possibilities see page 17

### Recommended oil

see chapter [8](#)

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

### Accessories and main spare parts

	I	II
<b>Oiler dome</b> out of plastic	483-6	423-179
<b>Oiler dome</b> out of metal	483-21	423-65
<b>Plastic bowl</b> without drain valve	483-7	483-110
<b>Plastic bowl</b> with protection cap	483-24	-
<b>Metal bowl</b> without drain valve	483-10	483-113
<b>Metal bowl</b> with manually-operated drain valve	480-28	480-213
<b>Bowl protection</b>	480-25	480-216
<b>Wear parts</b>		
<b>Regulation insert</b>	483-3	-

### Dimensions [mm]

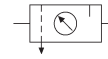
Thread	A	B	C	øD	E	F	H	J	K	øL
G <sup>1/4</sup> and G <sup>3/8</sup>	48	171	48	22	52	24	32	43	14,5	4,4
G <sup>1/2</sup> and G <sup>3/4</sup>	70	224	70	22	57	35	44	62	18	5,4
G1***	125	224	70	22	57	35	44	62	18	5,4

### Upon request:

Cover:	"private label"
Thread:	NPT

# Two-Piece Maintenance Unit Typ 488

## variobloc G<sup>1/4</sup> – G1



The number of possible variations which can be created by the simple block-mounting of individual units to form air treatment units is naturally countless. We have listed some of the most frequently-used versions below. As regards filters, there are options for the bowls and drain valves, while for filter regulators there is generally a pressure range of up to 10 bar; various reservoir options are available for the lubricators.

### Technical Data

	I	Size	II
<b>Thread</b>	G <sup>1/4</sup>	G <sup>3/8</sup>	G <sup>1/2</sup> G <sup>3/4</sup> G1***
<b>Nominal rates of flow*</b>	1500NI/min	1800NI/min	3400NI/min 5000NI/min
<b>Wideness of pores (filter)</b>	40µm (optionally: 5µm)		
<b>Pre-Pressure (p<sub>1</sub>) max.**</b>	16bar/20bar with metal bowl		
<b>Secondary-pressure (p<sub>2</sub>) max.</b>	10bar (opt. 6, 16bar)		
<b>Max. operating temperature</b>	50°C****		
<b>Volume of condensate</b>	25cm <sup>3</sup>		85cm <sup>3</sup>
<b>Drain valve</b>	manually (opt.: semi-automatic, fully-automatic)		
<b>Oil volume</b>	50cm <sup>3</sup>		125cm <sup>3</sup>
<b>Lubricator function</b>	from 50l/min		from 150l/min
<b>Material</b>		zinc alloy	
Housing		polycarbonate	
Bowl		NBR	
Seals			
<b>Weight (without gauge)</b>	720g		2070g (G1 = 2530g)

\* measured at 10bar pre-pressure (p<sub>1</sub>), 6bar secondary pressure (p<sub>2</sub>) and Δp = 1 bar, according to ISO 6953

\*\* with internal-automatic drain valve between 1,0 and 12bar

\*\*\* mounting plates with G1 see page 17

\*\*\*\* 80°C with metal bowl and oiler dome out of metal

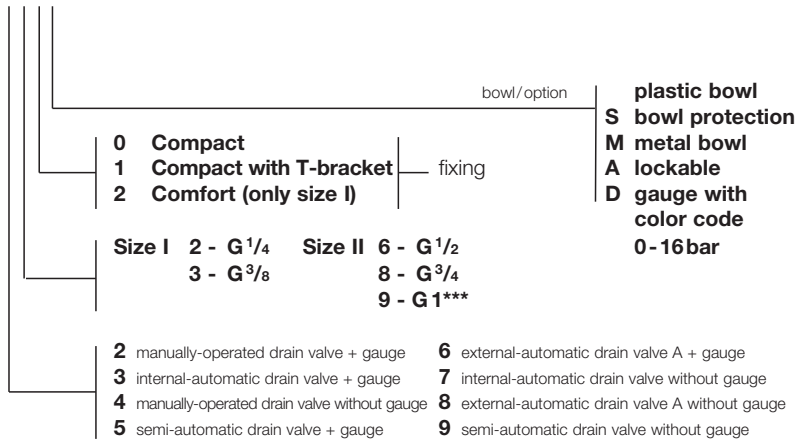
External-automatic drain valve see page 18

Recommended oil see page 10

Fixing- and assembly-possibilities see page 17

### special option - how to order:

488.xxxx



### Accessories and main spare parts see stand-alone device

#### Wear parts

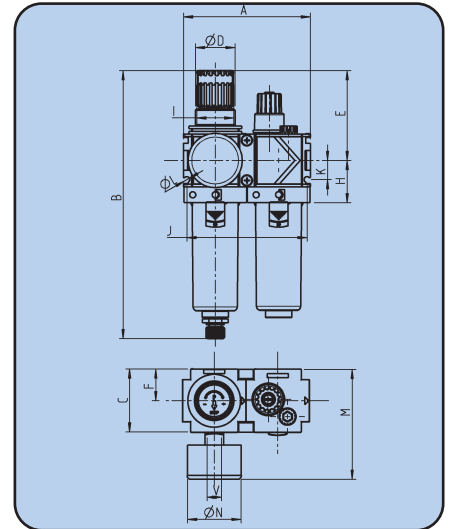
	I	II
<b>Diaphragm complete (with slip ring)</b>	480-92	480-263
<b>Seal cone complete</b>	480-48	480-218
<b>Regulation insert</b>	483-3	-

#### Advice:

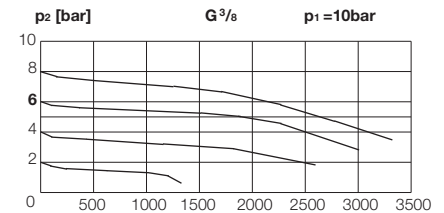
Pressure gauge (self tightened) added loosely

#### Upon request:

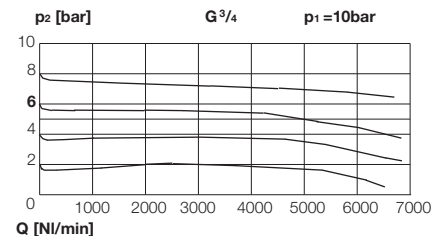
Cover: "private label"  
Thread: NPT



### Rates of flow



Q [NI/min]



Q [NI/min]

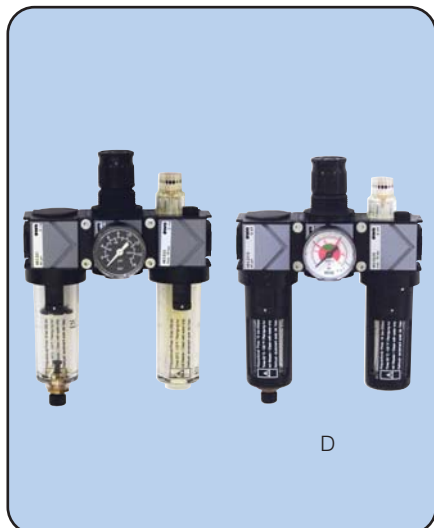
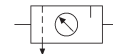
### Dimensions [mm]

Thread	A	B	C	øD	E	F	H	I	J	K	øL	M	øN	V
G <sup>1/4</sup> and G <sup>3/8</sup>	96	203	48	28	68	24	32	M30x1,5	91	14,5	4,4	84	40	G <sup>1/4</sup>
G <sup>1/2</sup> and G <sup>3/4</sup>	140	273	70	39	98	35	44	M42x1,5	132	18	5,4	106	50	G <sup>1/4</sup>
G1***	195	273	70	39	98	35	44	M42x1,5	132	18	5,4	106	50	G <sup>1/4</sup>

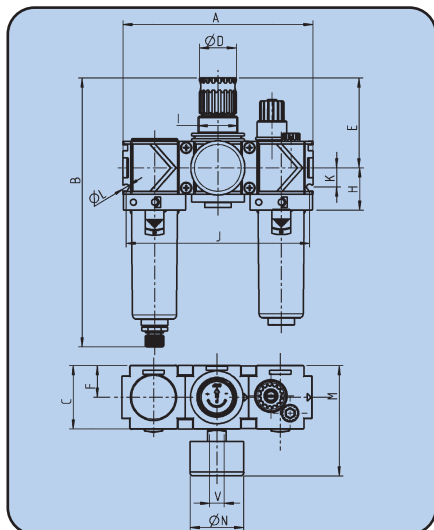


# Three-Piece Maintenance Unit Type 489

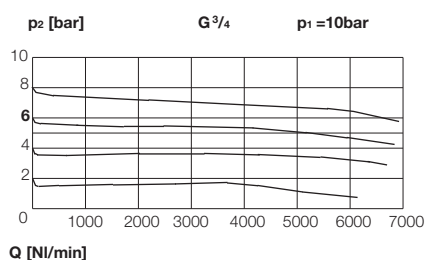
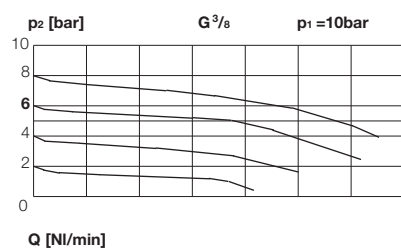
## variobloc G<sup>1/4</sup> – G1



D



### Rates of flow



### Dimensions [mm]

Thread	A	B	C	øD	E	F	H	I	J	K	øL	M	øN	V
G <sup>1/4</sup> and G <sup>3/8</sup>	144	203	48	28	68	24	32	M30x1,5	139	14,5	4,4	84	40	G <sup>1/4</sup>
G <sup>1/2</sup> and G <sup>3/4</sup>	210	273	70	39	98	35	44	M42x1,5	194	18	5,4	106	50	G <sup>1/4</sup>
G1***	265	273	70	39	98	35	44	M42x1,5	194	18	5,4	106	50	G <sup>1/4</sup>

The number of possible variations which can be created by the simple blockmounting of individual units to form air treatment units is naturally countless. We have listed some of the most frequently-used versions below. As regards filters, there are options for the bowls and drain valves, while for regulators there is generally a pressure range of up to 10bar; various reservoir options are available for the lubricators.

### Technical Data

	I	Size	II
<b>Thread</b>	G <sup>1/4</sup>	G <sup>3/8</sup>	G <sup>1/2</sup> G <sup>3/4</sup> G1***
<b>Nominal rates of flow*</b>	1500NI/min	1800NI/min	3400NI/min 5000NI/min
<b>Wideness of pores (filter)</b>	40µm (optionally: 5µm)		
<b>Pre-Pressure (p<sub>1</sub>) max.**</b>	16bar/20bar with metal bowl		
<b>Secondary-pressure (p<sub>2</sub>) max.</b>	10bar (opt. 6, 16bar)		
<b>Max. operating temperature</b>	50°C****		
<b>Volume of condensate</b>	25cm <sup>3</sup>	85cm <sup>3</sup>	
<b>Drain valve</b>	manually (opt.: semi-automatic, fully-automatic)		
<b>Oil volume</b>	50cm <sup>3</sup>	125cm <sup>3</sup>	
<b>Lubricator function</b>	from 50l/min	from 150l/min	
<b>Material</b>	zinc alloy polycarbonate NBR		
<b>Weight (without gauge)</b>	1220g	2800g (G1 = 3260g)	

\* measured at 10bar pre-pressure (p<sub>1</sub>), 6bar secondary pressure (p<sub>2</sub>) and Δp = 1 bar, after ISO 6953

\*\* with internal-automatic drain valve between 1,0 and 12bar

\*\*\* mounting plates with G1 see page 17

\*\*\*\* 80°C with metal bowl and oiler dome out of metal

External-automatic drain valve see page 18

Recommended oil see page 10

Fixing- and assembly-

possibilities see page 17

### special option - how to order:

489.xxxx

		bowl/option		
0	Compact			plastic bowl
1	Compact with T-bracket	fixing		S bowl protection
2	Comfort (only size I)			M metal bowl
				A lockable
				D gauge with color code
				0-16bar
BG I	2 - G <sup>1/4</sup>	BG II	6 - G <sup>1/2</sup>	
	3 - G <sup>3/8</sup>		8 - G <sup>3/4</sup>	
			9 - G1***	
2	manually-operated drain valve + gauge	6	external-automatic drain valve A + gauge	
3	internal-automatic drain valve + gauge	7	internal-automatic drain valve without gauge	
4	manually-operated drain valve without gauge	8	external-automatic drain valve A without gauge	
5	semi-automatic drain valve + gauge	9	semi-automatic drain valve without gauge	

### Accessories and main spare parts see stand-alone device

#### Wear parts

	I	II
Diaphragm complete (with slip ring)	480-92	480-263
Seal cone complete	481-17	480-218
Regulation insert	483-3	-

#### Advice:

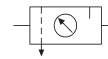
Pressure gauge  
(self tightened)  
added loosely

#### Upon request:

Cover: "private label"  
Thread: NPT

# Mobile Maintenance Unit Typ 489

## variobloc G<sup>1/2</sup> – G1



To ensure optimal conditions in regard to cleaning and lubrication of pneumatic tools directly on site, this portable maintenance unit was designed with components from our variobloc line.

It is advisable to use it everywhere where to manage distribution and location between air distribution routes over 5 meters.

**Examples:**

- Truck workshops
- Machine and plant construction
- Shipbuilding and shipyards

### Technical Data

	Size II		
	G <sup>1/2</sup>	G <sup>3/4</sup>	G1
<b>Thread</b>	G <sup>1/2</sup>	G <sup>3/4</sup>	G1
<b>Nominal rates of flow*</b>	3.400NI/min	5.000NI/min	5.000NI/min
<b>Max. operating pressure</b>		16bar	
<b>Control range</b>		0,5- 10bar	
<b>Max. operating temperature</b>		50°C	
<b>Widness of pores (filter)</b>		40µm	
<b>Drain valve</b>	manually (on request: semi-automatic, fully-automatic)		
<b>Volume of condensate</b>		85 cm <sup>3</sup>	
<b>Oil volume</b>		125 cm <sup>3</sup>	
<b>Lubricator function</b>		from 150l/min	
<b>Material</b>			
Housing		zinc alloy	
Bowl/ Bowl protection		polycarbonate/ steel	
Seals		NBR	
Side parts		painted steel	
Feets		rubber	

\* measured at 6bar pre-pressure (p<sub>1</sub>) and Δp = 1 bar

### Mobile Maintenance Unit 0,5-10bar

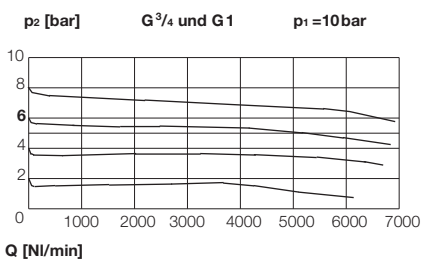
Article	G <sup>1/2</sup>	G <sup>3/4</sup>	G1
Mobile Maintenance Unit	489.200	489.100	489.000

### Accessories and main spare parts see stand-alone device

**Wear parts**

<b>Diaphragm</b> complete (with slip ring)	480-263
<b>Seal cone</b> complete	480-218

### Rates of flow

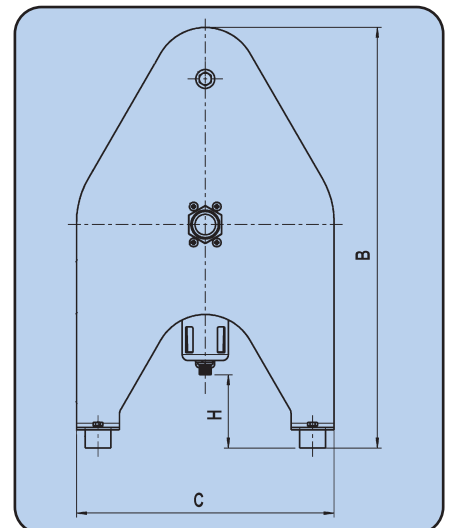
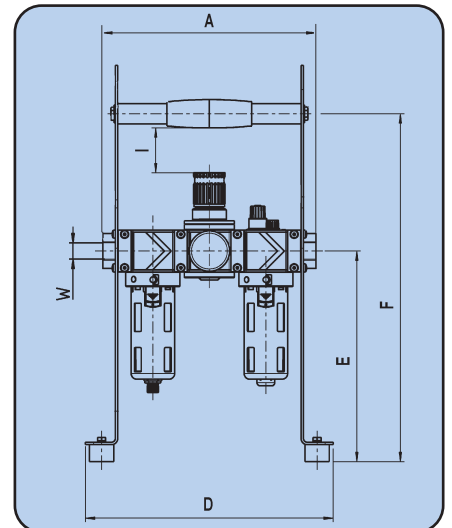
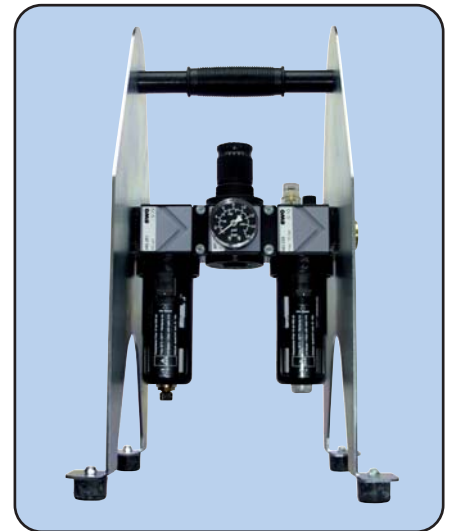


**Upon request:**

Cover:	"private label"
Thread:	NPT

### Dimensions [mm]

Thread	A	B	C	D	E	F	H	I
G <sup>1/2</sup> and G <sup>3/4</sup>	269	491	300	307	261	431	85,5	55,5
G1	264	491	300	307	261	431	85,5	55,5

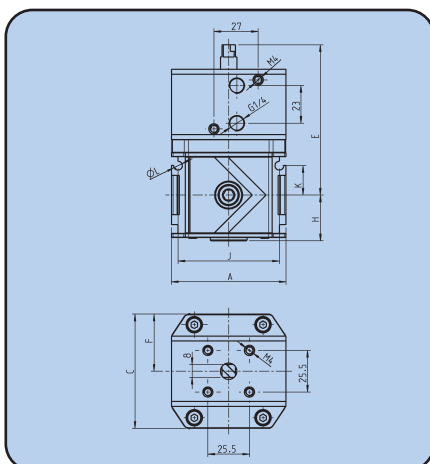
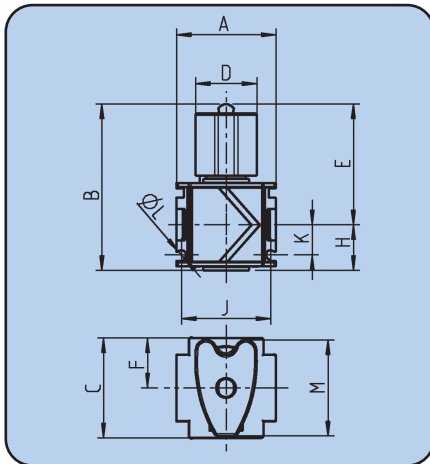


# Ball Valve Type 487

## variobloc G<sup>1/4</sup> – G1



D



Ball valves with exhaust (3/2 directional control valves) for flange-mounting to variobloc-FRL's are particularly suitable for use at the start of these as main shut-off valves. Actuation by 90° rotation of lever, marked clearly with switching position: Lever in transverse direction - Valve closed, outlet exhausted (narrower nominal size). Lever in lengthwise: Valve open, exhaust closed. Silencer to reduce exhaust noise. Two sizes with port threads from G<sup>1/4</sup> to G1. Direct mounting or bracket mounting on the housing is possible.

**Version with pneumatic gear** (only size II) enables the application in danger of explosion areas as remote control. The swing construction warrants a high starting torque moment and so a high forming energy (necessary after long period of down time).

### Technical Data

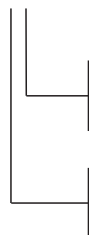
	I		Size		II
<b>Thread</b>	G <sup>1/4</sup>	G <sup>3/8</sup>	G <sup>1/2</sup>	G <sup>3/4</sup>	G1**
<b>Nominal rates of flow*</b>	4300 NI/min	4400 NI/min	9000 NI/min	11000 NI/min	
<b>Max. operating pressure</b>			25 bar		
<b>Working temperature</b>			80 °C		
<b>Material</b>			zinc alloy		
<b>Weight</b>	295 g		840 g (G1 = 1300 g)		
<b>Weight (pneumatic gear)</b>	-		1100 g (G1 = 1560 g)		
<b>Pressure range (pneumatic gear)</b>	-		5,6 - 7,4 bar		

\* measured at 6 bar pre-pressure (p<sub>1</sub>) and Δp = 1 bar

\*\* mounting plates with G1 see page 17

### special option - how to order:

487.x x



- A** lockable, with padlock ø4,5
- D** lockable, with padlock ø8,0
- P** with pneumatic gear (only Size II)

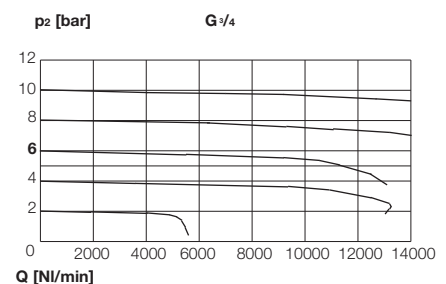
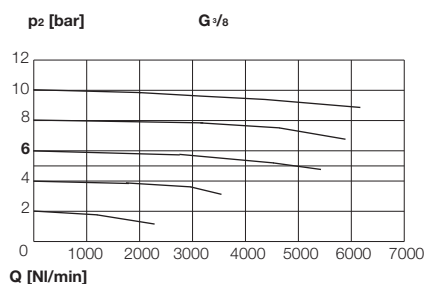
- Size I** 2 - G<sup>1/4</sup> 3 - G<sup>3/8</sup>
- Size II** 6 - G<sup>1/2</sup> 8 - G<sup>3/4</sup> 9 - G1\*\*

Fixing- and assembly-possibilities see page 17

### Accessories and main spare parts

Padlock ø4,5	487-17
Padlock ø8,0	487-26

### Rates of flow



### Dimensions [mm]

Thread	A	B	C	D	E	F	H	J	K	øL	M
G <sup>1/4</sup> , G <sup>3/8</sup>	48	80	48	30	58	24	22	43	14,5	4,4	45
G <sup>1/2</sup> , G <sup>3/4</sup>	70	92	70	30	64	35	28	62	18	5,4	45
G1	125	92	70	30	64	35	28	62	18	5,4	45
G <sup>1/2</sup> , G <sup>3/4</sup> ***	70	120	70	-	92	35	28	62	18	5,4	-
G1***	125	120	70	-	92	35	28	62	18	5,4	-

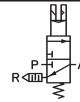
\*\*\*pneumatic gear

### Upon request:

Cover:	"private label"
Thread:	NPT

# 3/2-Way Starting Valve, electrical Type 485

## variobloc G<sup>1/2</sup> – G1



3/2-way starting valves in modular design for flange-mounting to variobloc-maintenance units. Without electrical power – valve closed, with manual emergency-operation. Port sizes G<sup>1/4</sup> to G1.

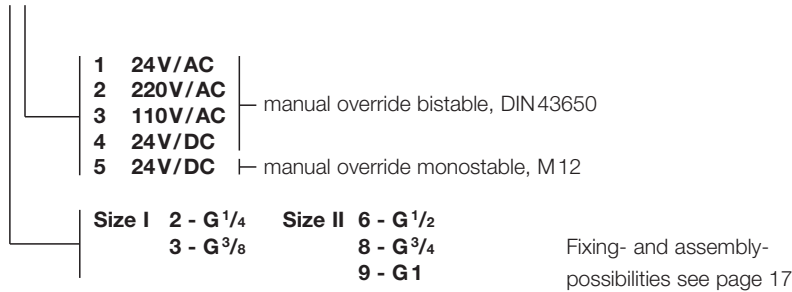
### Technical Data

	I	Size	II
Thread	G <sup>1/4</sup>	G <sup>3/8</sup>	G <sup>1/2</sup> G <sup>3/4</sup> G1***
Nominal rates of flow*	2200NI/min	2600NI/min	3300NI/min 3800NI/min
Working pressure range**	3 bis 10 bar**		
Max. surrounding temperature	50 °C		
Protection class	IP65 after DIN40050		
Rated voltage	24V= (opt. 24V/50Hz, 110V/50Hz, 220V/50Hz		
Electrical thread	female connector after DIN43650, Form B Ind. PG9		
Material	zinc alloy		
Weight	445g	980g (G1 = 1440g)	

\* measured at 6bar pre-pressure (p<sub>1</sub>) and Δp = 1 bar  
 \*\* higher pressures upon request  
 \*\*\* mounting plates with G1 Seite 17

### special option - how to order:

485.x x



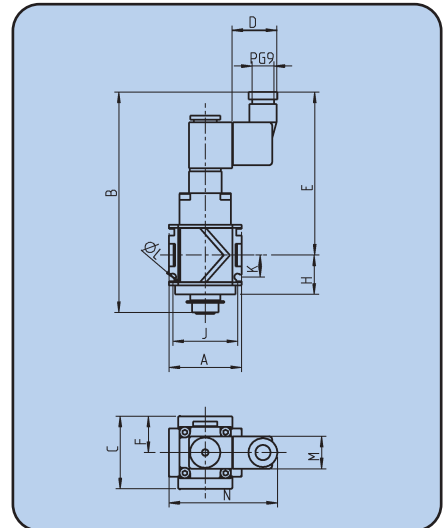
### Accessories and main spare parts

Magnetic coil	24V/DC	447-76
	24V/AC	447-130
	220V/AC	447-74
	110V/AC	447-75
	24V/DC, M12	447-133
Magnetic valve	24V/DC	485-16
	24V/AC	485-17
	220V/AC	485-18
	110V/AC	485-19
Female connector DIN43650	24V/DC, monostable	485-20
		447-120

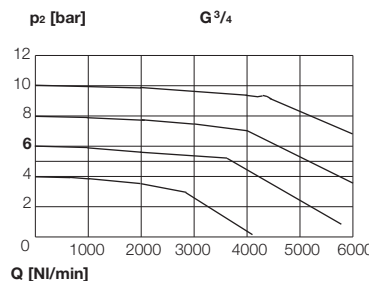
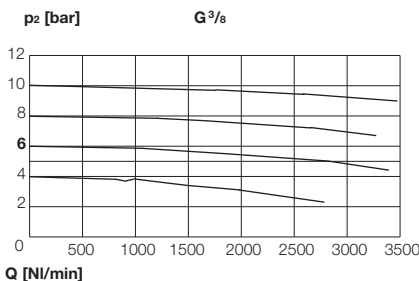


### Solenoid valve

As shutoff valve with speed exhaust. Combination with starting valve recommended.



### Rates of flow



### Upon request:

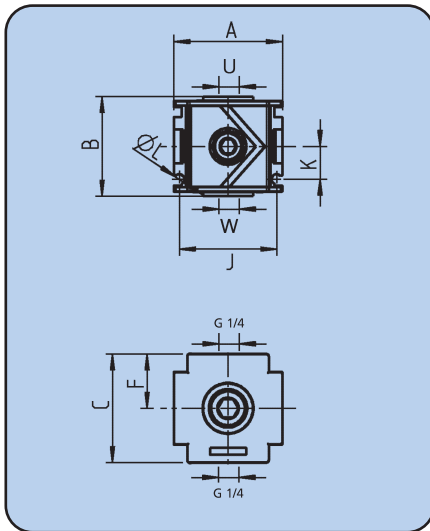
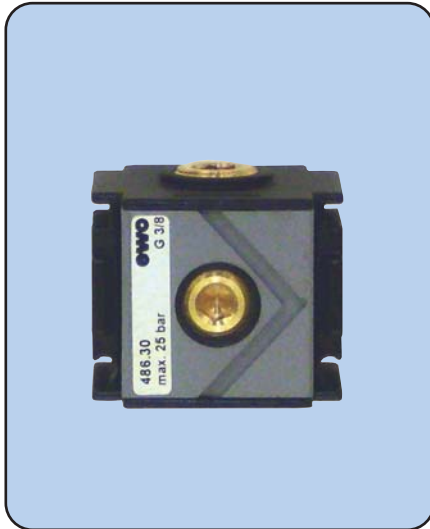
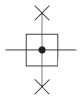
Cover:	"private label"
Thread:	NPT

### Dimensions [mm]

Thread	A	B	C	øD	E	F	H	J	K	øL	M	N
G <sup>1/4</sup> , G <sup>3/8</sup>	48	146	48	30	108	24	26	43	14,5	4,4	22	72
G <sup>1/2</sup> , G <sup>3/4</sup>	70	157	70	30	113	35	33	62	18	5,4	22	82
G1	125	157	70	30	113	35	33	62	18	5,4	22	82

# Distributor Type 486

## variobloc G<sup>1/4</sup> – G1



Distributors with non-return valves are ideal for tapping off unlubricated compressed air when flange-mounted upstream of the lubricator. The non-return valve prevents oil from being taken in from the lubricator or lines. This does, however, mean that the system downstream of the non-return valve cannot readily be exhausted. Two sizes with four outlets and port threads from G<sup>1/4</sup> to G1.

### Technical Data

	I		Size II	
<b>Thread</b>	G <sup>1/4</sup>	G <sup>3/8</sup>	G <sup>1/2</sup>	G <sup>3/4</sup> G1**
<b>Dispatches</b>	top / down front + rear		G <sup>3/8</sup> G <sup>1/4</sup>	G <sup>3/8</sup> / G <sup>1/2</sup> G <sup>1/4</sup>
<b>Nom. R.o.F. without NRV*</b>	4200 NI/min	5000 NI/min	9000 NI/min	11000 NI/min
<b>Nom. R.o.F. with NRV*</b>	900 NI/min	900 NI/min	4000 NI/min	5000 NI/min
<b>Max. working pressure</b>			25 bar	
<b>Max. operating temperature</b>			80°C	
<b>Material</b>			zinc alloy	
<b>Weight</b>	290g		780g (G1 = 1240g)	

\* measured at 6bar pre-pressure (p<sub>1</sub>) and Δp = 1 bar

\*\* mounting plates with G1 see page 17

### special option - how to order:

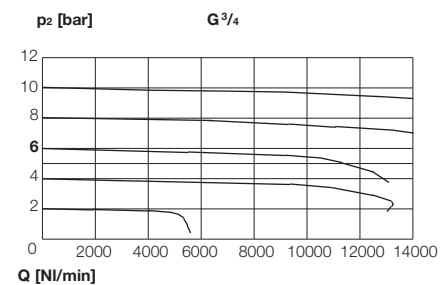
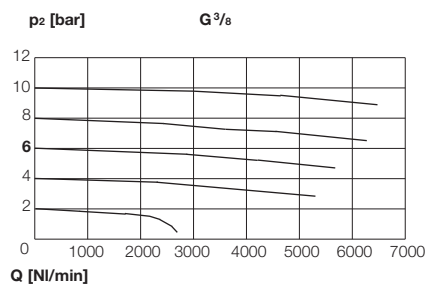
486.x x

- 0 without Non-Return Valve  
1 with Non-Return Valve

- Size I 2 - G<sup>1/4</sup>      Size II 6 - G<sup>1/2</sup>  
3 - G<sup>3/8</sup>              8 - G<sup>3/4</sup>  
9 - G1

Fixing- and assembly-  
possibilities see page 17

### Rates of flow



### Dimensions [mm]

Thread	A	B	C	F	J	K	øL	U	W
G <sup>1/4</sup> and G <sup>3/8</sup>	48	44	48	24	43	14,5	4,4	G <sup>3/8</sup>	G <sup>3/8</sup>
G <sup>1/2</sup> and G <sup>3/4</sup>	70	56	70	35	62	18	5,4	G <sup>3/8</sup>	G <sup>1/2</sup>
G1	125	56	70	35	62	18	5,4	G <sup>3/8</sup>	G <sup>1/2</sup>

### Upon request:

Cover:	"private label"
Thread:	NPT



# Pneumatic Starting Valve Type 484

## variobloc G<sup>1/4</sup> – G1



Starting valves and filling valves in modular block 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 60% 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 ewo-equipment such as the 3/2-way valve, ball valve or solenoid valve a complete on-and-off unit can be assembled. Port sizes G<sup>1/4</sup> to G1.

**Only suitable for closed systems!**

### Technical Data

	I	Size	II
Thread	G <sup>1/4</sup>	G <sup>3/8</sup>	G <sup>1/2</sup> G <sup>3/4</sup> G1***
Nominal rates of flow*	1200 NI/min	1400 NI/min	3800 NI/min 4200 NI/min
Point of dispatch**		about 0,6 x working pressure	
Working pressure range		2 to 25 bar	
Max. surrounding temperature		50°C	
Material		zinc alloy	
Housing			
Weight	295 g		730 g (G1 = 1190 g)

\* measured at 6 bar pre-pressure (p<sub>1</sub>) and Δp = 1 bar.

\*\* profile completely opened

\*\*\* mounting plates G1 see page 17

### special option - how to order:

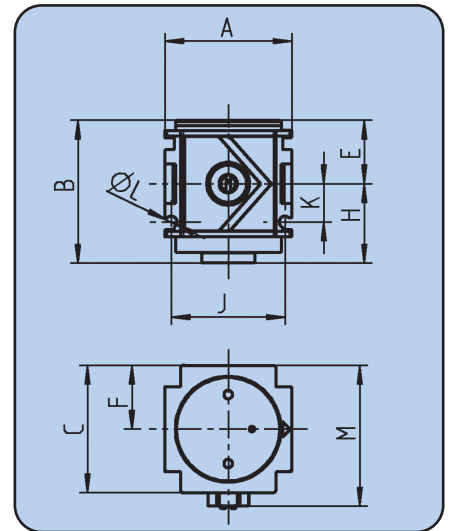
484.x x

0 Air regulator adjustable

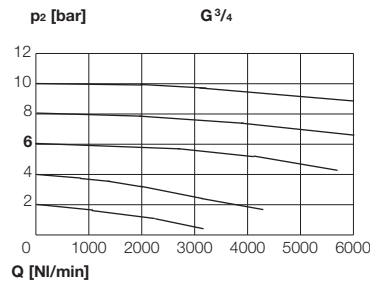
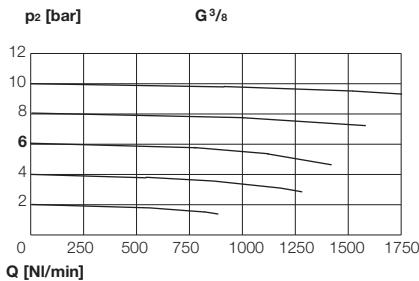
Size I 2 - G<sup>1/4</sup>  
3 - G<sup>3/8</sup>

Size II 6 - G<sup>1/2</sup>  
8 - G<sup>3/4</sup>  
9 - G1

Fixing- and assembly-possibilities see page 17



### Rates of flow



### Dimensions [mm]

Threat	A	B	C	E	F	H	J	K	øL	M
G <sup>1/4</sup> , G <sup>3/8</sup>	48	54	48	24	24	30	43	14,5	4,4	53
G <sup>1/2</sup> , G <sup>3/4</sup>	70	72	70	36	35	36	62	18	5,4	75
G1	125	72	70	36	35	36	62	18	5,4	75

### Upon request:

Cover:	"private label"
Thread:	NPT



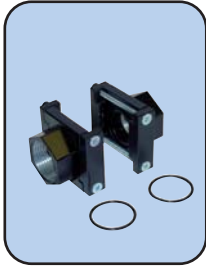
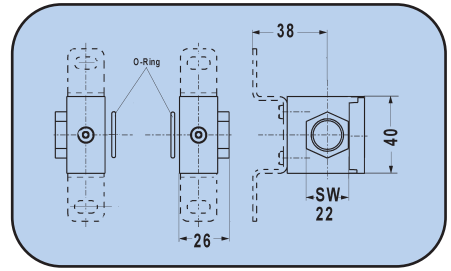
# Fixing- and Assembly-Possibilities variobloc

"Plug and Work" - this is the motto after which you can choose your preferred combination from the variety of the fixing- and accessory elements.

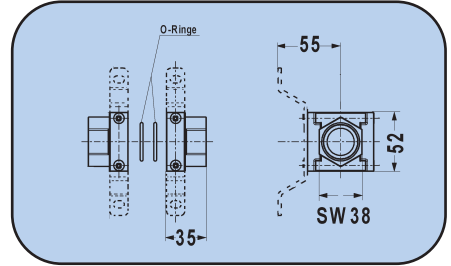


### Mounting plates set

Thread Sizel	Order No.	
		with holder
G 1/4	480-75	480-120
G 3/8	480-37	480-121

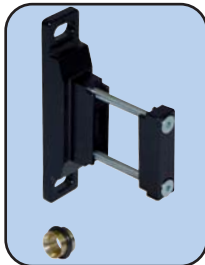
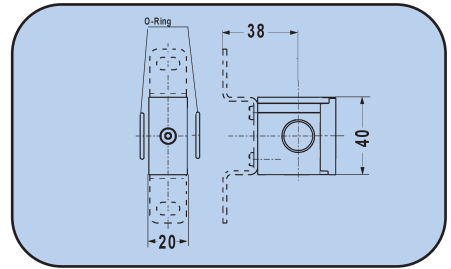


Thread Sizell	Order No.	
		with holder
G 1/2	480-283	480-287
G 3/4	480-282	480-288
G 1	480-271	480-289



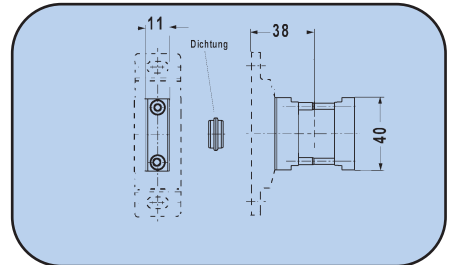
### Set Comfort Connection (inside module)

Thread Sizel	Order No.	
		with holder
G 1/4 + G 3/8	480-38	480-122

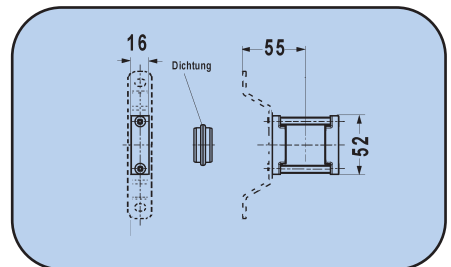


### Set Compact Connection

Thread Sizel	Order No.	
		with holder
G 1/4	480-57	480-56
G 3/8	480-36	480-35



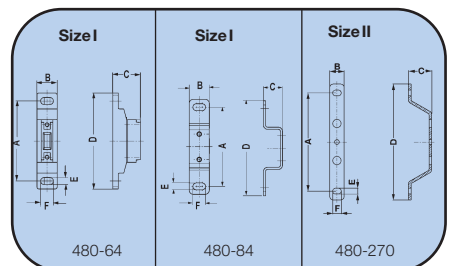
Thread Sizell	Order No.	
		with holder
G 1/2	480-238	480-264
G 3/4	480-237	480-265



Size I Compact	Size I Comfort	Size II
480-64	480-84	480-270

### T-bracket separately

Size	A	B	C	D	E	F	Order No.
I	75	19	26	90	6,5	12	480-64
I	75	19	18	90	6,5	12	480-84
II	110	16	26	130	6,5	12	480-270



# Accessories and Condensate-Drain Valves

## variobloc All Sizes and Model Ranges

**ewo**

4

Compressed Air Conditioning  
4 variobloc

Article	Order No.	
	I	II
Plastic bowl with manually operated drain valve (figure)	<b>480-18</b>	<b>480-210</b>
Plastic bowl with semi-automatic drain valve	<b>480-78</b>	<b>480-255</b>
Plastic bowl with internal-automatic drain valve	<b>480-79</b>	<b>480-256</b>
Plastic bowl with external-automatic drain valve A	<b>480-95</b>	<b>480-257</b>
Plastic bowl for lubricator (without drain valve)	<b>483-7</b>	<b>483-110</b>



Metal bowl with manually operated drain valve (20bar)	<b>480-28</b>	<b>480-213</b>
Metal bowl with semi-automatic drain valve (20bar)	<b>480-80</b>	<b>480-258</b>
Metal bowl with internal-automatic drain valve (12bar)	<b>480-81</b>	<b>480-259</b>
Metal bowl with external-automatic drain valve A (16bar)	<b>480-96</b>	<b>480-260</b>
Metal bowl for lubricator (without drain valve) (20bar)	<b>483-10</b>	<b>483-113</b>



Bowl protection for plastic bowl	<b>480-25</b>	<b>480-216</b>
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Padlock for ballvalves Model 487	<b>487-17</b>
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Article	Order No.	
<b>Drain Bolt</b> out of plastic	G 1/8	<b>423-110</b>
<b>Semi-automatic drain valve</b> with insert for plastic and metal bowl (ø14)	LW 6	<b>495-100</b>
<b>External-autom. drain valve A</b> (4-16 bar) for external mounting to e.g. a micro-filter		
Housing + cap (brass)	G 1/8	<b>5370.3</b>
Housing (polyamide)	G 1/8	<b>5370.4</b>
<b>External-autom. drain valve B</b> (1-12bar) Internal-automatic drain valve in housing for external mounting (thread G 1/8)	LW 5	<b>441.11</b>
<b>Internal-autom. drain valve</b> (1-12bar) for bowl with borehole ø14	LW 5	<b>441.1</b>

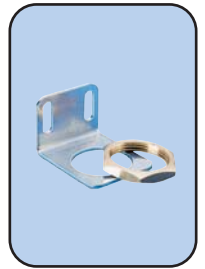
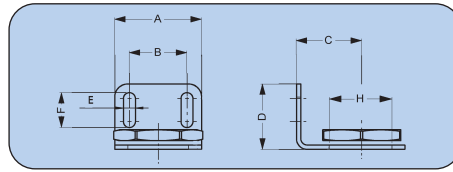


### Fixing bracket at the handwheel cap with nut

Size	Order No.	A	B	C	D	E	F	H
I	<b>443-36</b>	40	26,5	30	30	5,5	16	30,5
II	<b>443-104</b>	55	35	42,5	40	7	20	43

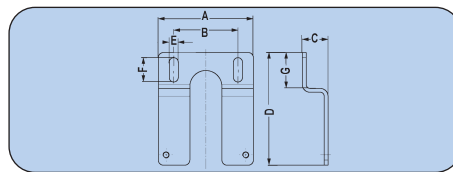
### Panel mounting (nut)

I	<b>381-32</b>	M30x1,5 (PA6)
II	<b>443-106</b>	M42x1,5 (brass)



### Fixing on housing

Size	Order No.	A	B	C	D	E	F	G
I	<b>480-67</b>	50	34	15	71	5,5	16	25
II	<b>480-252</b>	74	50	20	88	7	19	28



Article	Order No.
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### Seal for Compact Connection

I	G 1/4	form seal	<b>480-85</b>
	G 3/8		<b>480-11</b>
II	G 1/2	sleeve + seal	<b>480-267</b>
	G 3/4		<b>480-268</b>



### Fastening screws for direct mounting for single devices

I	(2x M4x40)	<b>480-83</b>
II	(2x M5x60)	<b>480-266</b>



Article	Order No.	
	I	II

PE-Filter insert 40 µm	<b>480-7</b>	<b>480-219</b>
PE-Filter insert 5 µm	<b>480-45</b>	<b>480-220</b>
Micro filter cartridge	<b>491-4</b>	<b>491-103</b>
Activated carbon filter cartr.	<b>493-2</b>	<b>493-102</b>



Gauge	ø40	ø50
	Gauge scale	0-10 bar 0-16 bar 0-25 bar
		<b>55</b> <b>85</b> <b>96</b>



Gauge with color code	ø40	ø50
	Gauge scale	0-16 bar



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