

variobloc series – combinations for highest demands and top performance!



When handling compressed air, efficient filtration, low pressure drop, high flow and constant operating pressure as well as maximum safety are essential criteria for the productive and economical use of processing equipment.

The innovative variobloc module series fulfils these requirements for modern, high-performance systems with optimum handling properties at a high level.

The complete modular system provides a variety of design options and makes it easy to adapt the components individually and quickly to different conditions.

The differences are in the details: Easy handling, high performance or long service life-these qualities also provide advantages for you.

- Safety acc. to EN 983 (machines, plants and components)
- Modern industrial design
- Durable metal housing (zinc die-cast)
 with dual-surface protection
- Connection thread acc. to DIN with flat sealing surface
- Plastic or metal bowls with bayonet lock
- Retrofittable protective metal cage for plastic bowl
- Optional semi- and fully automatic drain valves

- Two combinable connection systems (comfort/compact)
- Comfort connection module with self-adhesive O-rings
- Integrated T-bracket as connection module
- Direct wall mounting
- High torsional stiffness/stability of the connection
- Optimum control characteristics due to rolling diaphragm
- Lubricator with improved flow performance and atomization

Materials used

Housing, mounting elements	zinc die-cast (Z 410)
Lid, bottom (regulator)	PA 6-GF 30
Handwheel	POM
Cover	ABS
Seal, diaphragm	NBR
Filter element	PE, sintered
Impact insert, cutting wheel	POM
Bowl	polycarbonate
Latch	POM

Pressure spring	zinc-plated steel
Counter pressure spring	stainless steel
Cone, diaphragm plate	brass
Lubricator attachment	spec. PA
Oil regulation	PU
Metal bowl, bezel	zinc die-cast (Z 410)
Inspection tube (at metal bowl)	spec. PA
Protective basket	1.0338 DC 04





Compressed air filters type 482 G 1/4 - G 1

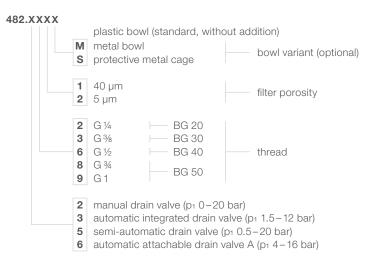
Compressed air filters clean the compressed air of solid and liquid components (dirt particles, oxidation products, condensation water) and therefore they protect the other components against dirt and wear. Filtration takes place in a two-stage process by cyclone separation (condensation water) and PE filter element (particles). Size: BG 20, BG 30 with connection threads $G\frac{1}{2}$ and $G\frac{1}{2}$ and $G\frac{1}{2}$ and $G\frac{1}{2}$ and $G\frac{1}{2}$ and $G\frac{1}{2}$ available. There are three types of condensate drains available: manually operated, semi-automatic or fully automatic (float-controlled).

Standard version: with plastic bowl and manual drain valve, filter porosity 40 μm

	Order No.	Order No.				
Size	BG 20 (I)	3G 20 (I) BG 30 (I) BG 40 (II) BG 50 (II)				
Thread	G 1/4	G %	G ½	G 34	G 1*	
	482.221	482.231	-	-	_	
	-	-	482.261	482.281	482.291	

^{*}inlet and outlet with threaded connection plate-set G1 included, see page 75

Order key for all variants



Spare parts and accessories

	Order No.			
Size	BG 20	BG 30	BG 40	BG 50
Metal bowl with manual drain valve	480-28		480-213	
Plastic bowl with protective metal cage with manual drain valve	480-90		480-226	
Protective metal cage	480-25		480-216	
Plastic bowl with manual drain valve	480-18		480-210	
Filter element filter porosity 40 µm (mounted)	480-7		480-219	
Filter element filter porosity 5 µm	480-45		480-220	

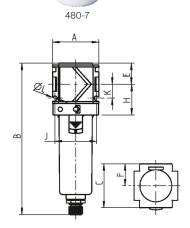
Technical data

Size		BG 20	BG 30	BG 40	BG 50			
Thread		G 1/4	G %	G 1/2	G 3/4	G 1		
Nominal flow rate (I/min)**		1,960	2,170	3,480	3,800	3,800		
Filter porosity			40 µm	(optional	y: 5 µm)			
plastic bowl		(12 ba	r with auto	16 bar matic inte	grated dra	ain valve)		
Max. operating pressure (p ₁)	metal bowl	(12 ba	20 bar (12 bar with automatic integrated drain valve)					
NA	plastic bowl			50 °C				
Max. operating temperature	metal bowl		80 °C					
Condensate volume		25 cm ³	25 cm ³	85 cm ³	85 cm ³	85 cm ³		
Condensate drain		manual (optionally: semi-automatic, automatic)				utomatic)		
Material housing		zinc die-cast						
Material bowl		plast	plastic (polycarbonate)/(optionally: metal)					
Weight		310 g	310 g	840 g	840 g	1.3 kg		

^{**}measured at 6 bar inlet pressure (p₁) and pressure drop Δ_p = 1 bar; with filter element 5 µm flow rate approx. 20 % reduced







	BG 20	BG 30	BG 40	BG 50
	G 1/4	G %	G 1/2	G 34 G 1
Α	48		70	125
В	158		202	202
С	48		70	70
Е	22		26	26
F	24		35	35
Н	32		44	44
J	43		62	62
K	14.5		18	18
L(Ø)	4.4		5.4	5.4

Microfilters type 491 G 1/4 – G 1



Microfilters with borosilicate micro-fibre fleece fulfil special requirements for the purity of compressed air. As high-performance filters, they protect valves, cylinders or other actuators. In a second stage behind the standard filter, they remove 99.999% of the smallest remaining particles of water, oil and dirt (at 0.01 μ m), removing almost all residues. Prefilter 5 μ m recommended. Size: BG 20 or BG 30, with connection threads G ½, and G 3%, size: BG 40 or BG 50, available with connection threads G ½, G ¾ and G 1.

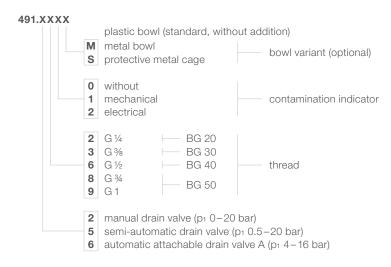


Standard version: with plastic bowl and manual drain valve, without contamination indicator

	Order No.					
Size	BG 20 (I)	G 20 (I) BG 30 (I) BG 40 (II) BG 50 (II)				
Thread	G 1/4	G %	G ½	G ¾	G 1*	
	491.220	491.230	_	_	-	
	-	-	491.260	491.280	491.290	

^{*}inlet and outlet with threaded connection plate-set G1 included, see page 75

Order key for all variants



Spare parts and accessories

	Order No.			
Size	BG 20	BG 30	BG 40	BG 50
Metal bowl with manual drain valve	480-28		480-213	
Protective metal cage	480-25		480-216	
Pressure switch for electrical output signal, differential pressure 0.7 bar	491-5		491-5	
Plastic bowl with manual drain valve	491-13		491-108	
Microfilter element with seal	491-4		491-103	

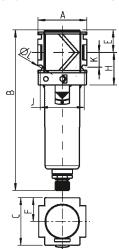
Technical data

Size		BG 20	BG 30	BG 40	BG 50		
Thread		G 1/4	G %	G 1/2	G 3/4	G 1**	
Nominal flow rate (I/min)**		402	457	1,090	1,200	1,200	
Particle separation			99.999%, referred to 0.01 µm (prefiltration to 5 µm necessary)				
Residual oil content				0.01 mg/r	m³		
Air quality acc. to ISO 8573.1			class	s 1 dirt, cla	ss 1 oil		
May appreting procesure (a)	plastic bowl		16 bar				
Max. operating pressure (p ₁)	metal bowl			20 bar			
May apparating tappageture	plastic bowl			50 °C			
Max. operating temperature	metal bowl			80 °C			
Condensate volume		10 cm ³	10 cm ³	30 cm ³	30 cm ³	30 cm ³	
Condensate drain		manua	manual (optionally: semi-automatic, automatic)				
Material housing		zinc die-cast					
Material bowl		plast	plastic (polycarbonate) / (optionally: metal)				
Weight		310 g	310 g	870 g	870 g	1.33 kg	

^{**} measured at 7 bar pre-pressure (p1), and pressure drop Δ_{P} = 0.1 bar

Cover available in individual colour on request (standard: grey).





	BG 20	BG 30	BG 40	BG 5	0
	G 1/4	G %	G 1/2	G 3/4	G1
Α	48		70	70	125
В	158		202	202	202
С	48		70	70	70
Е	22		26	26	26
F	24		35	35	35
Н	32		44	44	44
J	43		62	62	62
K	14.5		18	18	18
L(Ø)	4.4		5.4	5.4	5.4



Membrane air dryer type 494 G ¼ – G 1



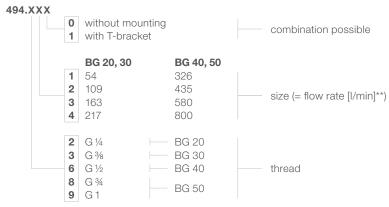
A membrane air dryer is used for the efficient removal of water vapour from the compressed air and makes a significant contribution to increasing process reliability. The membrane dryer fulfils the high demands on compressed air quality with the highest reliability (guaranteed drying). Low pressure loss. Maintenance-free as there are no wearing parts. No electrical energy and no environmentally harmful drying materials necessary. No condensate accumulation, as this is "flushed" into the atmosphere with the drying stream. Simple combination with variobloc filters. Pre-filtered compressed air is essential for the function and service life of the membrane dryers. We recommend the model 482 and the model 491 microfilter as pre-filters. Available in two sizes for different degrees of drying: performance ranges with nominal flow rates of 54 l/min-217 l/min (BG 20, 30) and 326 l/min-798 l/min (BG 40, 50). With pressure dew point suppression of 20 K. **Areas of application:** automotive, metal and wood industry as well as other industries (e.g. paint shops, industrial drying, instrument air, pneumatic controls, medical air, analysis equipment, compressed air control cabinets, etc.).

Standard version: output 217 I/min (BG 20, 30) or 798 I/min (BG 40, 50), with T-bracket

	Order No.	Order No.				
Size	BG 20 (I)	3G 20 (I) BG 30 (I) BG 40 (II) BG 50 (II)				
Thread	G 1/4	G %	G 1/2	G 34	G 1*	
	494.241	494.341	_	-	-	
	-	-	494.641	494.841	494.941	

^{*}inlet and outlet with threaded connection plate-set G1 included, see page 75

Order key for all variants



 $^{^{\}star\star}$ at 7 bar, inlet pressure dew point +35 °C, outlet pressure dew point +15 °C

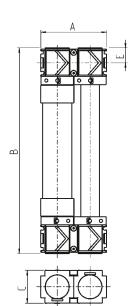
Technical data

Size	BG 20	BG 30	BG 40	BG 50		
Thread	G 1/4	G %	G 1/2	G 3/4	G 1	
Operating pressure range (p ₁)		0-12 bar				
Operating temperature		1.5-60 °C				
Differential pressure		200 mbar				
Air quality acc. to ISO 8573.1		С	lass 1 dirt, cla	ss 1 oil		
Material membrane fiber			PES			
Material membrane cover			aluminiun	n		
Material housing		zinc die-cast				
Material seals		NBR				
Weight for size 1-4 (kg)	4.2/4.4/4.	4.2/4.4/4.6/4.8 5.2/5.4/5.6/5.8				

Size	flow rate [I/min]** at output pressure dew point (°C)					
Size	15 °C	3 °C	-20 °C	-40 °C		
BG 20, BG 30						
1	54	40	25	18		
2	109	78	51	36		
3	163	116	78	57		
4	217	154	103	74		
BG 40, BG 50						
1	326	232	154	112		
2	435	308	204	148		
3	581	464	308	225		
4	798	618	411	297		
Purging air requirement (%)	10	14	21	29		
Drainage (%)	69.70	86.53	98.20	99.77		

Adjusted performance = flow rate × Cop									
Calculation of the correct capacity of the membrane dryer (flow rate × correction factor)									
bar	4	5	6	7	8	9	10	11	12
Cop (Correction factor)	0.41	0.56	0.76	1	1.22	1.48	1.76	1.86	2.22





Difficusions (fillin)								
	BG 20	BG 20, BG 30						
Size	1	1 2 3 4						
Α			96					
В	298	298 396 498 578						
С		48						
E			22					
	BG 40	BG 50						
Size	1	2	3	4				
Α		1	40					
В	406	470	559	686				
С	70							
E			26					



Activated carbon filter type 493 G 1/4 - G 1



Activated carbon filters are used to remove oil vapours and other organic pollutants from compressed air. The activated carbon fibres are located between two stainless steel nets (cleaning is not possible, replacement recommended after approx. 1,000 operating hours). The compressed air which is to be cleaned should be dry and free of impurities. The use of a microfilter is strongly recommended. **Notice:** some hazardous substances are either not or only slightly absorbable with activated carbon (e.g. carbon dioxide, carbon monoxide, ammonia).

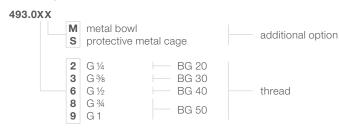


Standard version: with plastic bowl, without drain valve

	Order No.					
Size	BG 20 (I)	BG 30 (I)	BG 40 (II)	BG 50 (II)		
Thread	G 1/4	G %	G 1/2	G 34	G 1*	
	493.02	493.03	-	-	_	
	-	-	493.06	493.08	493.09	

^{*}inlet and outlet with threaded connection plate-set G1 included, see page 75

Order key for all variants





Spare parts and accessories

	Order No.		
Size	BG 20 BG 30	BG 40 BG 50	
Metal bowl	483-10	483-113	
Protective metal cage	480-25	480-216	
Plastic bowl	483-7	483-110	
Activated carbon filter element with seal	493-2	493-102	

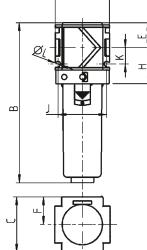
Technical data

Size			BG 30	BG 40	BG 50		
Thread		G 1/4	G %	G ½	G 3/4	G1	
Nominal flow rate (I/min)**		870	1,090	1,300	1,410	1,410	
Residual oil content		0.003 mg/m ³					
Air quality acc. to ISO 8573.1	Air quality acc. to ISO 8573.1			s 1 dirt, cla	ass 1 oil		
May exerting pressure (p.)	plastic bowl		16 bar				
Max. operating pressure (p ₁)	metal bowl		20 bar				
May appraise temperature	plastic bowl		50 °C				
Max. operating temperature	metal bowl	80 °C					
Material housing			zinc die-cast				
Material bowl	plastic (polycarbonate) / (optionally: metal)						
Weight	320 g	320 g	900 g	900 g	1.4 kç		

 $^{^{\}star\star}measured$ at 7 bar pre-pressure (p1), and pressure drop Δ_{P} = 0.2 bar

	BG 20	BG 30	BG 40	BG 50	
	G 1/4	G %	G 1/2	G 3/4	G1
Α	48		70	70	125
В	142		193	193	193
С	48		70	70	70
E	22		26	26	26
F	24		35	35	35
Н	32		44	44	44
J	43		62	62	62
K	14.5		18	18	18
L (Ø)	4.4		5.4	5.4	5.4







Pressure regulator type 481 G 1/4 - G 1



Pressure regulators with a diaphragm design regulate the line pressure within the interconnected system to the set working pressure/secondary pressure (p2) and keep it at a largely constant level, independent of pressure fluctuations and air consumption. This guarantees an optimal and economical effectiveness of the systems. The integrated overpressure protection (secondary venting) allows a reduction of the secondary pressure (reverse control) without air extraction. At the same time, compressed air vents into the atmosphere as soon as the pressure on the secondary side exceeds the set value. **Notice:** to avoid contamination or failure, a 482 filter should be installed in front.

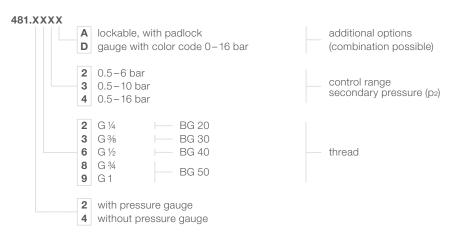
Standard version: control range (p2) 0.5-10 bar, with pressure gauge

	Order No.	Order No.					
Size	BG 20 (I)	BG 30 (I)	BG 40 (II)	BG 50 (II)			
Thread	G 1/4	G %	G ½	G 34	G 1*		
	481.223	481.233	-	-	-		
	-	_	481.263	481.283	481.293		

^{*}inlet and outlet with threaded connection plate-set G1 included, see page 75

481 233 A 481 233 D

Order key for all variants





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Notice

Cover available in individual colour on request (standard: grey). Gauge (self-sealing) is enclosed.

Spare parts and accessories

	Order No.	
Size	BG 20 BG 30	BG 40 BG 50
Diaphragm, complete, with sliding ring	480-92	480-263
Sealing cone, complete	481-17	480-218
Pressure gauge horizontally**	Ø40	Ø50
Display range 0-10 bar (for p ₂ up to 6 bar)	723	55
Display range 0-16 bar (for p ₂ up to 10 bar)	734	85
Display range 0-25 bar (for p₂ up to 16 bar)	745	96

^{**} pressure gauges starting from page 154

Technical data

Size	BG 20	BG 30	BG 40	BG 50	
Thread	G 1/4	G %	G 1/2	G 3/4	G1
Nominal flow rate (I/min)***	2,170	3,480	7,610	8,700	8,700
Max. operating pressure (p ₁)	25 bar				
Max. secondary pressure (p ₂)	10 bar (optionally 6 bar, 16 bar)				
Max. operating temperature			80 °C		
Material housing			zinc die-ca	ast	
Material seals	NBR				
Weight (without pressure gauge)	390 g	390 g	950 g	950 g	1.41 kg

^{***} measured at 10 bar pre-pressure (p₁), 6 bar secondary pressure (p₂) and pressure drop $\Delta p = 1$ bar acc. to DIN ISO 6953

Dillic	1131011	3 (111111	,		
	BG 20	BG 30	BG 40	BG 5	0
	G 1/4	G%	G 1/2	G 3/4	G 1
Α	48		70	70	125
В	98		134	134	134
С	48		70	70	70
D (Ø)	28		39	39	39
E	68		98	98	98
F	24		35	35	35
Н	26		33	33	33
1	M30×	1.5	$M42 \times 1.5$	M42	× 1.5
J	43		62	62	62
K	14,5		18	18	18
L (Ø)	4.4		5.4	5.4	5.4
M	84		106	106	106
N (Ø)	40		50	50	50
V	G 1/4		G 1/4	G 1/4	G 1/4

Precision pressure regulator type 495 G 1/4 - G 1

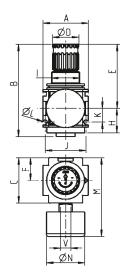


Pressure regulator with precision regulation for highest requirements. It is suitable for all processes that require precise air pressure regulation. Pressure regulators regulate the line pressure of a pressure system to the set operating pressure/secondary pressure (p2) and keep it at a largely constant level, independent of pressure fluctuations and air consumption. Diaphragm-type pressure regulator with a very low air consumption of 1.5 l/min. Secondary venting (reverse control) practically without hysteresis. **Control ranges for p2 from 0.1 to 3 bar, 0.2 to 6 bar and 0.5 to 10 bar.** Pressure gauge can be mounted on both sides. To avoid contamination or failure, a type 491 microfilter should be installed upstream.



495.224



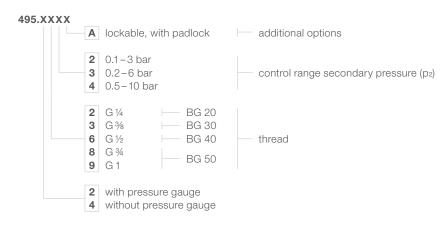


Standard version: control range (p2) 0.5-10 bar, with pressure gauge

	Order No.	Order No.					
Size	BG 20 (I)	BG 30 (I)	BG 40 (II)	BG 50 (II)			
Thread	G 1/4	G %	G ½	G 34	G 1*		
	495.224	495.234	-	-	-		
	-	_	495.264	495.284	495.294		

^{*}inlet and outlet with threaded connection plate-set G1 included, see page 75

Order key for all variants



Notice

Cover available in individual colour on request (standard: grey). Gauge (self-sealing) is enclosed.

Spare parts and accessories

	Order No.		
Size	BG 20 BG 30	BG 40 BG 50	
Diaphragm, complete, with sliding ring	495-101	495-207	
Sealing cone, complete	481-17	480-218	
Pressure gauge horizontally, quality class 1.6	Ø40	Ø50	
Display range 0-4 bar (for p ₂ up to 3 bar)	401	501	
Display range 0-6 bar (for p ₂ up to 6 bar)	402	502	
Display range 0-10 bar (for p ₂ up to 10 bar)	403	503	

^{*}pressure gauges starting from page 154

Dimensions (mm)

		· (
	BG 20	BG 30	BG 40	BG 5	0
	G 1/4	G %	G 1/2	G 3/4	G1
Α	48		70	70	125
В	98		134	134	134
С	48		70	70	70
D (Ø)	28		39	39	39
Е	68		98	98	98
F	24		35	35	35
Н	26		33	33	33
I	M30×	1.5	$M42 \times 1.5$	M42×1.5	
J	43		62	62	62
K	14.5		18	18	18
L (Ø)	4.4		5.4	5.4	5.4
M	84		106	106	106
N (Ø)	40		50	50	50
٧	G 1/4		G 1/4	G 1/4	G 1/4

Size	BG 20	BG 30	BG 40	BG 50	
Thread	G 1/4	G %	G 1/2	G 3/4	G 1
Nominal flow rate (I/min)**	2,170	3,480	7,610	8,700	8,700
Max. operating pressure (p ₁)			25 bar		
Max. secondary pressure (p2)		10 bar (c	ptionally 3	B bar, 6 ba	ar)
Operating temperature		-10	0 up to + 6	60 °C	
Flow direction		in	arrow dire	ction	
Pre-pressure dependence			< 3 %		
Reverse control hysteresis			< 0.1 ba	r	
Air consumption (at 10 bar inlet pressure [p1])			< 1.5 l/m	in	
Material housing		zinc die-cast			
Material seals	NBR				
Weight (without pressure gauge)	390 g	390 g	950 g	950 g	1.41 kg

^{**} measured at 10 bar pre-pressure (p₁), 6 bar secondary pressure (p₂) and pressure drop $\Delta p = 1$ bar acc. to DIN ISO 6953



Battery pressure regulator type 490 G 1/4 - G 1



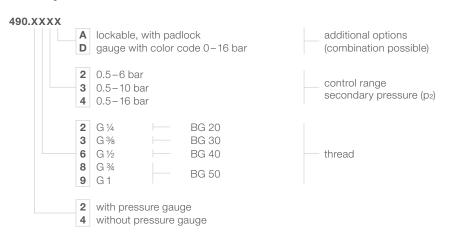
The pressure regulators arranged in line allow an independent outlet pressure at a common inlet pressure. The inlet of the pressure supply can be either left or right. The regulated operating pressure (secondary pressure), which almost completely is kept constant regardless of the fluctuating supply pressure (inlet pressure) and air consumption, is available at the rear connection (connection 2). **Notice:** to avoid contamination or failure, a 482 series filter should be installed in front. For a higher flow rate with several units, we recommend the following connection threads G % or G %.

Standard version: control range (p2) 0.5-10 bar, with pressure gauge

	Order No.				
Size	BG 20 (I)	BG 30 (I) BG 40 (II) BG 50 (II)			
Thread	G 1/4	G %	G ½	G 34	G 1*
	490.223	490.233	_	-	_
	_	_	490.263	490.283	490.293

^{*}inlet and outlet with threaded connection plate-set G1 included, see page 75

Order key for all variants











Notice

Cover available in individual colour on request (standard: grey). Gauge (self-sealing) is enclosed.

Spare parts and accessories

	Order No.		
Size	BG 20 BG 30	BG 40 BG 50	
Diaphragm, complete, with sliding ring	480-92	480-263	
Sealing cone, complete	481-17	480-218	
Pressure gauge horizontally***	Ø40	Ø50	
Display range 0-10 bar (for p ₂ up to 6 bar)	723	55	
Display range 0-16 bar (for p ₂ up to 10 bar)	734	85	
Display range 0-25 bar (for p ₂ up to 16 bar)	745	96	
Screw plug with hexagon socket, connection G 1/4	280-127**	280-127**	
Screw plug with hexagon socket, connection G %	447-28**	_	
Screw plug with hexagon socket, connection G 1/2	-	424-67	

^{**}delivery only in packaging unit (PU) of 5 pieces each ***pressure gauges starting from page 154

Technical data

Size	BG 20	BG 30	BG 40	BG 50	
Thread 1	G 1/4	G %	G 1/2	G 3/4	G 1
Thread 2	(G 1/4		G ½	
Nominal flow rate (I/min)****	1,960	1,960	6,300	7,400	7,400
Max. operating pressure (p ₁)		25 bar			
Max. secondary pressure (p ₂)		10 bar (o	ptionally 6	bar, 16 ba	ar)
Max. operating temperature			80 °C		
Material housing		zinc die-cast			
Material seals		NBR			
Weight (without pressure gauge)	390 g	390 g	950 g	950 g	1.41 kg

^{****} measured at 10 bar pre-pressure (p₁), 6 bar secondary pressure (p₂) and pressure drop $\Delta_p = 1$ bar acc. to DIN ISO 6953

	BG 20	BG 30	BG 40	BG 5	0
	G 1/4	G%	G 1/2	G 3/4	G1
Α	48		70	70	125
В	98		134	134	134
С	48		70	70	70
D (Ø)	28		39	39	39
E	68		98	98	98
F	24		35	35	35
I	M30×	1.5	$M42 \times 1.5$	M42	× 1.5
M	84		106	106	106
N (Ø)	40		50	50	50
V	G 1/4		G 1/4	G 1/4	G 1/4



Compressed air lubricators type 483 G ¼-G 1



Compressed air lubricators are used for the dosed enrichment of compressed air with finely atomized oil mist. A control valve ensures that the oil quantity is mixed in proportion to the flow rate. The droplet quantity is regulated by the adjusting screw of the lubricator attachment. The oil can be refilled during operation.



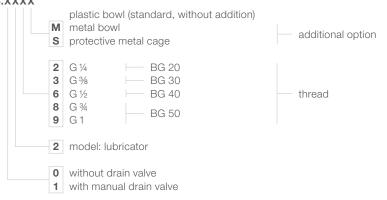
Standard version: with plastic bowl, without drain valve

	Order No.					
Size	BG 20 (I)	20 (I) BG 30 (I) BG 40 (II) BG 50 (II)				
Thread	G 1/4	G%	G ½	G 34	G 1*	
	483.022	483.023	-	-	-	
	-	-	483.026	483.028	483.029	

^{*}inlet and outlet with threaded connection plate-set G 1 included, see page 75

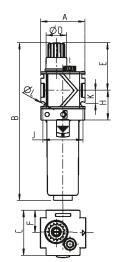
Order key for all variants

483.XXXX



Cover available in individual colour on request (standard: grey).





Spare parts and accessories

• •	Order No.			
Size	BG 20 BG 30	BG 40 BG 50		
Metal bowl without drain valve	483-10	483-113		
Metal bowl with drain valve	480-28	480-213		
Protective metal cage	480-25	480-216		
Plastic bowl with protective metal cage, without drain valve	483-24	483-126		
Lubricator attachment metal (only BG 40/50 with O-rings)	483-21	423-65		
Plastic bowl without drain valve	483-7	483-110		
Lubricator attachment made of plastic	483-6	423-179		
Regulator insert	483-3	_		

Order No

Technical data

Size	BG 20	BG 30	BG 40	BG 50		
Thread	G 1/4	G 3/8	G ½	G 3/4	G 1	
Nominal flow rate (I/min)**	3,700	4,780	5,000	8,150	8,150	
Max. operating pressure (p1)		16 bar/20 bar with metal bowl				
Max. operating temperature	50 °C/80 °C with metal bowl and metal lubricator attachment			attachment		
Usable bowl capacity	50 cm ³	50 cm ³	125 cm ³	125 cm ³	125 cm ³	
Lubricator function	onward	s 50 l/min	OI	nwards 150 l/r	min	
Oil type		accordin	g to DIN 5152	4-ISO VG 32		
Material housing			zinc die-ca	st		
Material bowl		polycarbonate				
Material seals		NBR				
Weight	300 g	300 g	800 g	800 g	1.26 kg	

^{**} measured at 6 bar inlet pressure (p1) and pressure drop Δ_{P} = 1 bar

Dimensions (mm)

	BG 20 BG 30		BG 40	BG 5	0
	G 1/4	G %	G 1/2	G 3/4	G1
Α	48		70	70	125
В	171		224	224	224
С	48		70	70	70
D (Ø)	22		22	22	22
E	52		57	57	57
F	24		35	35	35
Н	32		44	44	44
J	43		62	62	62
K	14.5		18	18	18
L (Ø)	4.4		5.4	5.4	5.4

Oil recommendation

Oil containers made of plastic (polycarbonate and acetate) are attacked by oil additives, anti-frost or synthetic oils. Therefore we recommend regular lubricating oils of approx. 22 up to 32 cSt (Order No.: 583 und 583.1) at 40 $^{\circ}$ C (in case of percussive tools - such as impact wrenches - 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.





Filter pressure regulators type 480 G ¼-G 1

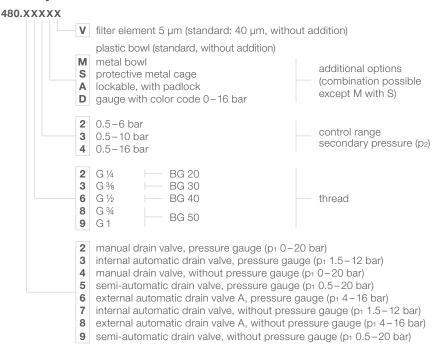
Filter pressure regulators combine the functions of a filter and a pressure regulator in a space-saving design in one device. (details see individual descriptions on page 59 and page 63).

Standard version: control range (p₂) 0.5-10 bar, plastic bowl with manual drain valve, with pressure gauge, filter porosity 40 µm

	Order No.					
Size	BG 20 (I)	BG 30 (I) BG 40 (II) BG 50 (II)				
Thread	G 1/4	G %	G ½	G 34	G 1*	
	480.223	480.233	_	_	_	
	_	_	480.263	480.283	480.293	

^{*}inlet and outlet with threaded connection plate-set G1 included, see page 75

Order key for all variants



Spare parts and accessories	Order No.	
Size	BG 20 BG 30	BG 40 BG 50
Filter element filter porosity 40 µm (mounted)	480-7	480-219
Filter element filter porosity 5 µm (reduced flow rate)	480-45	480-220
Plastic bowl with protective metal cage and manual drain valve	480-90	480-226
Metal bowl with manual drain valve	480-28	480-213
Protective metal cage	480-25	480-216
Pressure gauge horizontally**	Ø40	Ø50
Display range 0-10 bar (for p ₂ up to 6 bar)	723	55
Display range 0-16 bar (for p ₂ up to 10 bar)	734	85
Display range 0-25 bar (for p₂ up to 16 bar)	745	96
Plastic bowl with manual drain valve	480-18	480-210
Diaphragm, complete, with sliding ring	480-92	480-263
Sealing cone, complete	480-48	480-218

Technical data

Size	BG 20	BG 30	BG 40	BG 50	
Thread	G 1/4	G %	G 1/2	G 34	G1
Nominal flow rate (I/min)***	2,170	3,260	5,980	7,070	7,070
Filter porosity	40 μm (optionally: 5 μm)				
Max. operating pressure (p ₁)	16 bar (20 bar with metal bowl/12 bar with autom. integr. drain valve)				
Max. secondary pressure (p2)	10 bar (optionally: 6, 16 bar)				
Max. operating temperature		50 °C/80 °C with metal bowl			
Condensate volume	25	cm ³		85 cm ³	
Condensate drain		manual (or	otionally: se	mi-automatic, au	tomatic)
Material housing/bowl		zinc die-cast/polycarbonate			
Material seals	NBR				
Weight	460 g	460 g	1.15 kg	1.15 kg	1.61 kg

^{***} measured at 10 bar pre-pressure (p₁), 6 bar secondary pressure (p₂) and pressure drop Δ p = 1 bar acc. to DIN ISO 6953







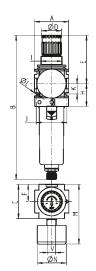
Notice

480.233









	BG 20	BG 30	BG 40	BG 5	0	
	G 1/4	G%	G 1/2	G 3/4	G1	
Α	48		70	70	125	
В	203		273	273	273	
С	48		70	70	70	
D (Ø)	28		39	39	39	
E	68		98	98	98	
F	24		35	35	35	
Н	32		44	44	44	
1	M30×	1.5	M42×1.5	M42×1.5		
J	43		62	62	62	
K	14.5		18	18	18	
L (Ø)	4.4		5.4	5.4	5.4	
M	84		106	106	106	
N (Ø)	40		50	50	50	
٧	G 1/4		G 1/4	G 1/4	G 1/4	

^{**} pressure gauges starting from page 154

Two-piece maintenance unit type 488 G ¼ – G 1



Numerous variants of maintenance units are possible by simply mounting the individual modules in blocks. The following are the most common versions of a two-piece maintenance unit, consisting of a filter pressure regulator and a compressed air lubricator. For options, see individual units. Pressure range of the filter pressure regulator 0-10 bar (standard).



Notice

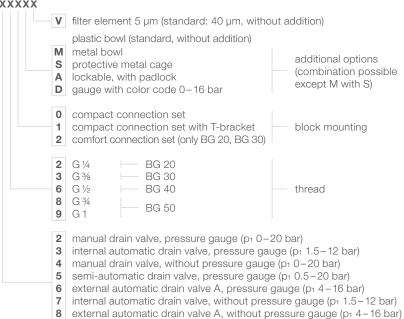
Standard version: control range (p₂) 0.5-10 bar, plastic bowl with manual drain valve, with pressure gauge, filter porosity 40 µm, monobloc mounting with compact connection set with integrated T-bracket for wall mounting

	Order No.						
Size	BG 20 (I) BG 30 (I) BG 40 (II) BG 50 (II)						
Thread	G 1/4	G %	G 1/2	G 34	G 1*		
	488.221	488.231	-	-	_		
	-	-	488.261	488.281	488.291		

^{*}inlet and outlet with threaded connection plate-set G1 included, see page 75

Order key for all variants

488.XXXXX



Cover available in individual colour on request (standard: grey). Gauge (self-sealing) is enclosed. 483-3 480-92 480-48 ¥

Snare narte and accessories

Order No.		
Size	BG 20 BG 3	0 BG 40 BG 50
Diaphragm, complete, with sliding ring	480-92	480-263
Sealing cone, complete	480-48	480-218
Regulation insert	483-3	-

semi-automatic drain valve, without pressure gauge (p₁ 0.5-20 bar)

additional spare parts and accessories see page 66 and page 67

Dimensions (mm)

	BG 20 BG 30		BG 40	BG 5	0
	G 1/4	G %	G 1/2	G 3/4	G1
Α	96		140	140	195
В	203		273	273	273
С	48		70	70	70
D (Ø)	28		39	39	39
E	68		98	98	98
F	24		35	35	35
Н	32		44	44	44
I	M30×	1.5	M42×1.5	M42	× 1.5
J	91		132	132	132
K	14.5		18	18	18
L (Ø)	4.4		5.4	5.4	5.4
M	84		106	106	106
N (Ø)	40		50	50	50
V	G 1/4		G 1/4	G 1/4	G 1/4

Size	BG 20	BG 30	BG 40	BG 50	
Thread	G 1/4	G %	G 1/2	G 3/4	G1
Nominal flow rate (I/min)**	1,630	1,960	3,700	5,440	5,440
Filter porosity			40 µm (opt	ionally: 5 µm)	
Max. operating pressure (p ₁)	16 bar (20 bar with metal bowl)/ 12 bar with automatic integrated drain valve				
Max. secondary pressure (p2)	10 bar (optionally: 6, 16 bar)				
Max. operating temperature	50 °C/80 °C with metal bowl and metal lubricator attachment				
Condensate volume	25	cm ³		85 c	m ³
Condensate drain		manual (op	tionally: se	mi-automatic,	automatic)
Usable bowl capacity	50	cm ³		125 c	cm³
Lubricator function	onward	s 50 I/min		onwards 1	50 I/min
Material housing			zinc	die-cast	
Material bowl	polycarbonate				
Material seals	NBR				
Weight (without pressure gauge)	720 g	720 g	2.07 kg	2.07 kg	2.53 kg

^{**} measured at 10 bar pre-pressure (p₁), 6 bar secondary pressure (p₂) and pressure drop $\Delta_p = 1$ bar acc. to DIN ISO 6953



Three-piece maintenance unit type 489 G 1/4 - G 1



Numerous variants of maintenance units are possible by simply mounting the individual modules in blocks. Below are some of the versions of a three-piece maintenance unit consisting of compressed air filter, pressure regulator and compressed air lubricator. For more options, see individual units. Pressure range of the pressure regulator: 10 bar (standard).

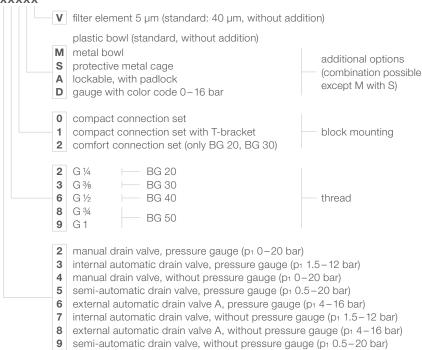
Standard version: control range (p₂) 0.5–10 bar, plastic bowl with manual drain valve, with pressure gauge, filter porosity 40 μm , monoblock mounting with compact connection set with integrated T-bracket for wall mounting

	Order No.						
Size	BG 20 (I)	BG 20 (I) BG 30 (I) BG 40 (II) BG 50 (II)					
Thread	G 1/4	G %	G ½	G 34	G 1*		
	489.221	489.231	-	-	-		
	_	_	489.261	489.281	489.291		

^{*}inlet and outlet with threaded connection plate-set G1 included, see page 75

Order key for all variants

489.XXXXX



Spare parts and accessories

	Order No.			
Size	BG 20 BG 30	BG 40 BG 50		
Diaphragm, complete, with sliding ring	480-92	480-263		
Sealing cone, complete	481-17	480-218		
Regulation insert	483-3	-		

additional spare parts and accessories see single units

Technical data

Size	BG 20	BG 30	BG 40	BG 50		
Thread	G 1/4	G%	G 1/2	G 3/4	G1	
Nominal flow rate (I/min)**	1,630	1,960	3,700	5,440	5,440	
Filter porosity	40 μm (optionally: 5 μm)					
Max. operating pressure (p ₁)	16 bar (20 bar with metal bowl)/ 12 bar with automatic integrated drain valve					
Max. secondary pressure (p2)	10 bar (optionally: 6, 16 bar)					
Max. operating temperature	50 °C/80 °C with metal bowl and and metal lubricator attachment					
Condensate volume	25	cm ³		85 cm ³		
Condensate drain	r	manual (opt	tionally: ser	mi-automatic, aut	omatic)	
Usable bowl capacity	50	cm ³		125 cm ³		
Lubricator function	onwards	s 50 I/min		onwards 150 l	/min	
Material housing	zinc die-cast					
Material bowl	polycarbonate					
Material seals	NBR					
Weight (without pressure gauge)	1.22 kg	1.22 kg	2.8 kg	2.8 kg	3.26 kg	

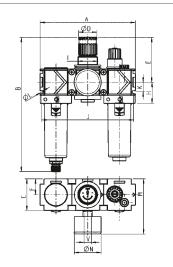
^{**} measured at 10 bar pre-pressure (p₁), 6 bar secondary pressure (p₂) and pressure drop $\Delta_p = 1$ bar acc. to ISO 6953



Notice



Cover available in individual colour on request (standard: grey). Gauge (self-sealing) is enclosed.



` '						
	BG 20	BG 30	BG 40	BG 5	0	
	G 1/4	G %	G 1/2	G 3/4	G 1	
Α	144		210	210	265	
В	203		273	273	273	
С	48		70	70	70	
D (Ø)	28		39	39	39	
E	68		98	98	98	
F	24		35	35	35	
Н	32		44	44	44	
I	M30×	1.5	M42×1.5	M42×1.5		
J	139		194	194	194	
K	14.5		18	18	18	
L (Ø)	4.4		5.4	5.4	5.4	
M	84		106	106	106	
N (Ø)	40		50	50	50	
٧	G 1/4		G 1/4	G 1/4	G 1/4	



Mobile maintenance unit type 489 G ½-G 1



The mobile maintenance unit was designed with variobloc components (only size BG 40, 50) in order to ensure optimum preconditions with reference to cleaning and lubrication of the pneumatic tools directly on site. It consists of a compressed air filter, pressure regulator and compressed air lubricators, which are mounted in a metal frame with carrying handle. Other combinations of maintenance units are possible on request. The mobile maintenance unit is recommended wherever distances of more than 5 metres have to be covered between air distribution and the place of operation.

Application areas:

- Truck workshops
- Mechanical and industrial engineering
- Shipbuilding/Shipyards



Version

	Order No.			
Size	BG 40 (II)	BG 50 (II)		
Thread	G ½	G 34	G1	
Control range (p2) 0.5–10 bar, plastic bowl with protective metal cage and manual drain valve, with pressure gauge, filter porosity 40 µm, monobloc mounting with compact connection, connection plates set*	489.200	489.100	489.000	

 $^{^{\}star}\text{inlet}$ and outlet with threaded connection plate-set G 1 included, see page 75

Spare parts and accessories

	Order No.	
Size	BG 40	BG 50
Diaphragm, complete, with sliding ring	480-263	
Sealing cone, complete	480-218	
additional spare parts and accessories see single units		

Technical data

Size	BG 40	BG 50	BG 50		
Thread	G ½	G 3/4	G1		
Nominal flow rate (I/min)**	3,700	5,440	5,440		
Max. operating pressure (p ₁)		16 bar	•		
Control range (p ₂)		0.5-10 k	oar		
Max. operating temperature		50 °C			
Filter porosity		40 μm			
Condensate drain	manual (or	manual (optionally: semi-automatic, automatic			
Condensate volume		85 cm ³			
Usable bowl capacity		125 cm	3		
Lubricator function		onwards 150) I/min		
Material housing		zinc die-c	ast		
Material bowl/protective basket		polycarbonat	e/steel		
Material seals		NBR			
Material side panels		sheet steel painted			
Material feet		rubber			
Weight		8.5 kg			

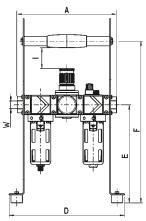
^{*}measured at 10 bar pre-pressure (p₁), 6 bar secondary pressure (p₂) and pressure drop Δ_{p} = 1 bar acc. to ISO 6953

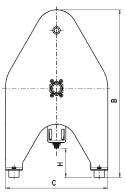
Dimensions (mm)

	BG 40	BG 50	
W	G 1/2	G 3/4	G 1
Α	269	269	264
В	491	491	491
С	300	300	300
D	307	307	307
Е	261	261	261
F	431	431	431
Н	85.5	85.5	85.5
1	55.5	55.5	55.5

Notice

Cover available in individual colour on request (standard: grey).









Ball valve with vent type 487 G ¼ – G 1

Ball valve with venting (3/2 way valve). For flanging onto maintenance units. Serves as main shut-off valve at the inlet of the maintenance unit. Actuation by 90° rotation of the lever. Switch-on position clearly marked: turning knob in lateral direction–valve closed, air discharged. Rotary knob in longitudinal direction–valve open, drain closed. Can be locked in either end positions with a standard padlock Ø 4.5 mm (or as an additional option with padlock in two versions, available). With silencer to reduce the ventilation noise. Connection thread from G ¼ to G 1. Wall mounting possible by direct mounting or bracket mounting on the housing. In correspondence with EN 983. The version with pneumatic actuator (BG 40, 50) allows the operation as remote control in hazardous areas. The stroke construction guarantees a high initial torque and therefore a high releasing torque (required after long down time).

Standard version: lockable (without padlock Ø4.5 mm)

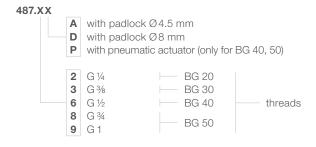
	Order No.						
Size	BG 20 (I)	BG 20 (I) BG 30 (I) BG 40 (II) BG 50 (II)					
Thread	G 1/4	G %	G 1/2	G 34	G 1*		
	487.2	487.3	-	-	-		
	-	-	487.6	487.8	487.9		

^{*}inlet and outlet with threaded connection plate-set G1 included, see page 75

10.25 with 0.00 with 0.00

487.3D Inkl. Schloss

Order key for all variants





487-17

487.8P Ausführung mit pneumatischem Antrieb

Spare parts and accessories

	Order No.
Padlock Ø4.5 mm	487-17
Padlock Ø8 mm	487-26



Notice

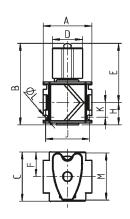
Cover available in individual colour on request (standard: grey).

Technical data

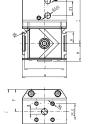
Size	BG 20	BG 30	BG 40	BG 50		
Thread	G 1/4	G %	G 1/2	G 3/4	G1	
Nominal flow rate (I/min)**	4,670	4,780	9,780	11,960	11,960	
Max. operating pressure (p ₁)		25 bar				
Max. operating temperature		80 °C				
Material housing		zinc die-cast				
Weight	295 g	295 g	840 g	840 g	1.3 kg	
Weight (with pneumatic actuator)	_	_	1.1 kg	1.1 kg	1.56 kg	
Pressure range (with pneumatic actuator)	_	_	5.6-7.4 bar	5.6-7.4 bar	5.6-7.4 bai	

^{**} measured at 6 bar inlet pressure (p1) and pressure drop Δ_{P} = 1 bar

	BG 20	BG 30	BG 40	BG 50)	BG 40	BG 50)
	G 1/4	G%	G ½	G 3/4	G 1	G ½	G 3/4	G 1
						with pneum	atic actuator	-
Α	48		70	70	125	70	70	125
В	80		92	92	92	120	120	120
С	48		70	70	70	70	70	70
D	30		30	30	30	_	-	
E	58		64	64	64	92	92	92
F	24		35	35	35	35	35	35
Н	22		28	28	28	28	28	28
J	43		62	62	62	62	62	62
K	14.5		18	18	18	18	18	18
L (Ø)	4.4		5.4	5.4	5.4	5.4	5.4	5.4
M	45		45	45	45	_		_



with pneumatic actuator



3/2-way electrical switching valve type 485 G 1/4-G 1



3/2-way electrical switching valves in monobloc design are suitable for flange-mounting to variobloc maintenance units. The magnetic valve at the inlet or outlet of the maintenance unit serves as a master shut-off valve with rapid venting. The valve is closed without current. Electric switching valves have manual override. The combination with a start-up valve is recommended. Possible connection threads from G ¼ up to G 1. Corresponds to EN 983.

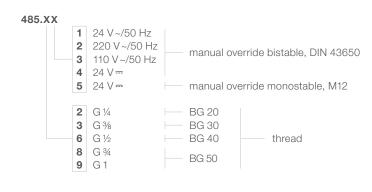


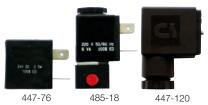
Standard version: rated voltage 24 V ---

	Order No.	Order No.					
Size	BG 20 (I)	BG 20 (I) BG 30 (I) BG 40 (II) BG 50 (II)					
Thread	G 1/4	G %	G ½	G 34	G 1*		
	485.24	485.34	_	-	-		
	-	_	485.64	485.84	485.94		

^{*}inlet and outlet with threaded connection plate-set G1 included, see page 75

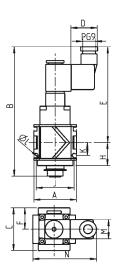
Order key for all variants





Spare parts and accessories

	Order No.			
Size	BG 20	BG 30	BG 40	BG 50
Magnetic coil 24 V	447-76			
Magnetic coil 24 V ~/50 Hz	447-130			
Magnetic coil 220 V ~/50 Hz	447-74			
Magnetic coil 110 V ~/50 Hz	447-75			
Magnetic coil 24 V (M12)	447-133			
Magnetic valve as shut-off valve with rapid venting 24 V ==	485-16			
Magnetic valve as shut-off valve with rapid venting 24 V ~/50 Hz	485-17			
Magnetic valve as shut-off valve with rapid venting 220 V ~/50 Hz	485-18			
Magnetic valve as shut-off valve with rapid venting 110 V ~/50 Hz	485-19			
Magnetic valve as shut-off valve with rapid venting 24 V — (monostable)	485-20			
Socket DIN 43650	447-120			



Dimensions (mm)

	BG 20	BG 30	BG 40	BG 5	0
	G 1/4	G %	G 1/2	G 3/4	G 1**
Α	48		70	70	125
В	46		157	157	157
С	48		70	70	70
D (Ø)	30		30	30	30
Е	108		113	113	113
F	24		35	35	35
Н	26		33	33	33
J	43		62	62	62
K	14.5		18	18	18
L (Ø)	4.4		5.4	5.4	5.4
M	22		22	22	22
N	72		82	82	82

Size	BG 20	BG 30	BG 40	BG 50		
Thread	G 1/4	G%	G 1/2	G 3/4	G 1	
Nominal flow rate (I/min)**	2,400	2,830	3,590	4,130	4,130	
Operating pressure range (p ₁)			3-10 ba	r		
Max. operating temperature			50 °C			
Protection class	IP 65 acc. to DIN 40050					
Dated voltage	24 V					
Rated voltage	optionally 24 V/50 Hz, 110 V/50 Hz, 220 V/50 Hz					
Dower aupply	socket according to DIN 43650,					
Power supply	Form B Ind. PG 9					
Material housing	zinc die-cast					
Weight	445 g 445 g 980 g 980 g 1.44 kg					
Disposal of waste equipment	WEEE Reg. No.: DE51604370					
** measured at 6 bar inlet pressure (p ₁) and pressure drop Δ_{p} = 1 bar						





Distributors type 486 G 1/4 - G 1

Compressed air distributor with four outlets. Can be used at any extraction point or as a carrier for additional modules (e.g. pressure switches). The version with non-return valve is ideal for extracting unlubricated air if it is connected in front of the mist lubricator. The non-return valve prevents oil from being suctioned out of the oiler or the pipes. However, the system cannot be easily vented after the non-return valve. Available in two sizes. Outlets closed on delivery. Connection thread from G ¼ to G 1.

Standard version: without non-return valve

	Order No.	Order No.					
Size	BG 20 (I)	BG 20 (I) BG 30 (I) BG 40 (II) BG 50 (II)					
Thread	G 1/4	G %	G 1/2	G 34	G 1*		
	486.20	486.30	_	-	-		
	-	-	486.60	486.80	486.90		
*inlet and outlet with threaded connection plate-set G1 included, page 75							

Notice

486.30

Order key for all variants

on re

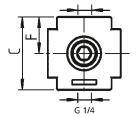
Cover available in individual colour on request (standard: grey).

Size	BG 20 BG 30 BG 40 BG 50				
Thread	G 1/4	G %	G % G ½ G % G		G 1
Outlets top and bottom	ttom G% G% and G½				ì ½
Outlets front and rear		G 1/4			
Nominal flow rate without NV (I/min)**	4,570	5,440	9,780	11,960	11,960
Nominal flow rate with NV (I/min)**	979	979	4,350	5,440	5,440
Max. operating pressure (p ₁)			25 ba	ar	
Max. operating temperature		80 °C			
Material housing		zinc die-cast			
Weight	290 g	290 g	780 g	780 g	1.24 kg

^{**} measured at 6 bar inlet pressure (p1) and pressure drop Δ_{p} = 1 bar



	BG 20 BG 30		BG 40	BG 50	
	G 1/4	G %	G 1/2	G 34	G 1
Α	48		70	70	125
В	46		56	56	56
С	48		70	70	70
F	24		35	35	35
J	43		62	62	62
K	14.5		18	18	18
L (Ø)	4.4		5.4	5.4	5.4
U	G%		G%	G%	G %
W	G %		G ½	G 1/2	G ½







Pneumatic starting valve type 484 G 1/4 - G 1

Starting and filling valve in monobloc design for flange-mounting to variobloc maintenance units. Used for increasing pressure gradually in pneumatic systems, e.g. at the restart after an emergency stop. During switch-on, only a small cross-section is initially pressurized via an adjustable regulator. The full cross-section is released only when the pressure has reached about half of the operating pressure. In conjunction with a 3/2-way valve, a ball valve or a magnetic valve, a complete on/off unit can be set up. Connection thread from G 1/4 to G 1. Corresponds to EN 983. Only suitable for closed systems.



Version: regulator adjustable

	Order No.				
Size	BG 40 (II)	BG 50 (II)			
Thread	G ½	G 34 G 1*			
	-	-	-		
	484.60	484.80	484.90		

^{*}inlet and outlet with threaded connection plate-set G1 included, see page 75

Notice

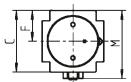




Technical data

Size	BG 40	BG 50	BG 50	
Thread	G 1/2	G 3/4	G 1	
Nominal flow rate (I/min)**	4,130 4,570			
Point of dispatch (full cross-section open)	approx. 0.6 x operating pressure			
Operating pressure range (p ₁)	2-25 bar			
Max. operating temperature	50 °C			
Material housing	zinc die-cast			
Weight	730 g	730 g	1.19 kg	

^{**} measured at 6 bar inlet pressure (p1) and pressure drop Δ_{P} = 1 bar



	BG 40	BG 50	
	G 1/2	G ¾	G1
Α	70	70	125
В	72	72	72
С	70	70	70
E	36	36	36
F	35	35	35
Н	36	36	36
J	62	62	62
K	18	18	18
L (Ø)	5.4	5.4	5.4
M	75	75	75



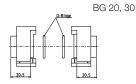
Intermediate modules for block mounting, pipe connection

"Plug and Work" - according to this motto you can choose your desired combination for block mounting from the following variety, select the pipe connection (inlet and outlet) and the wall mounting.

Threaded connection plate set

For pipe connection at inlet and outlet. Self-adhesive sealing rings. With or without T-Bracket for wall mounting.

Size	Thread	Order No.					
Version without T-Bracket							
BG 20 (I)	G 1/4	480-75					
BG 30 (I)	G %	480-37					
BG 40 (II)	G ½	480-283					
BG 50 (II)	G 3/4	480-282					
BG 60 (II)	G1	480-271					
Version with T-Bra	cket						
BG 20 (I)	G 1/4	480-120					
BG 30 (I)	G%	480-121					
BG 40 (II)	G 1/2	480-287					
BG 50 (II)	G 3/4	480-288					
BG 60 (II)	G1	480-289					









BG 40, BG 50, BG 60

BG 20, BG 30





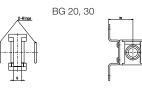
BG 40, BG 50, BG 60

BG 20, BG 30

Comfort connection set (intermediate module)

For block mounting. Single modules can be easily removed without disassembling the whole unit. Self-adhesive sealing rings. With or without T-Bracket for wall mounting.

Size	Thread	Order No.
Version without T-	Bracket	
BG 20	G 1/4	480-38
BG 30	G%	400-30
Version with T-Bra	cket	
BG 20	G 1/4	480-122
BG 30	G%	480-122



BG 40, 50, 60

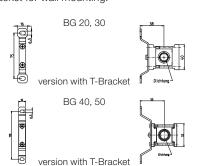




Compact connection set (intermediate module)

For block mounting. Incl. sealing kit. With or without T-Bracket for wall mounting.

Size	Thread	Order No.					
Version without T-Bracket							
BG 20	G 1/4	480-570					
BG 30	G%	480-360					
BG 40	G 1/2	480-238					
BG 50	G 3/4	480-237					
Version with T-Bra	cket						
BG 20	G 1/4	480-560					
BG 30	G%	480-350					
BG 40	G 1/2	480-264					
BG 50	G 3/4	480-265					







Sealing set for compact connection set

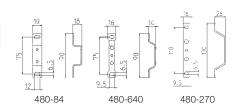
Consisting of sleeve and O-ring.

Size	Thread	Order No.
BG 20	G 1/4	480-85
BG 30	G%	480-11
BG 40	G 1/2	480-267
BG 50	G 3/4	480-268



T-Bracket single for wall mounting

Suitable for inter- mediate module	Size	Order No.
Comfort connection	BG 20, 30	480-84
Compact connection	BG 20, 30	480-640
Compact connection	BG 40, 50	480-270





Compact BG 20, 30 480-640





Wall mounting elements



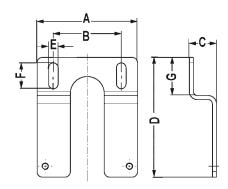














Bracket set for mounting on cap (handwheel thread)

Contents: mounting bracket and nut.

Suitable for	Order No.
BG 20 (I), BG 30 (I)	443-36
BG 40 (II), BG 50 (II)	443-104

Dimensions (mm)

Size		Α	В	С	D	E	F	Н
BG 20	BG 30	40	26.5	30	30	5.5	16	30.5
BG 40	BG 50	55	35	42.5	40	7	20	43

Single nut

For control panel mounting.

Suitab	le for	Dimensions	Material	Order No.
BG 20	BG 30	M 30×1.5	PA6	381-32
BG 40	BG 50	M 42×1.5	Ms	443-106

Bracket set for mounting on the housing

Only for mounting a single device. Contents: mounting bracket and two mounting screws.

Suitable for	Order No.
BG 20, BG 30	480-67
BG 40, BG 50	480-252

Dimensions (mm)

Size		Α	В	С	D	E	F	G
BG 20	BG 30	50	34	15	71	5.5	16	25
BG 40	BG 50	74	50	20	88	7	19	28

Mounting screws (set of 2)

For direct mounting of individual devices.

Suitab	le for	Dimensions	Order No.
BG 20	BG 30	M 4×40	480-83
BG 40	BG 50	M 5×60	480-266



Spare parts and accessories

Filter elements

Model	Size	Order No.
PE filter element 40 µm		480-7
PE filter element 5 µm	BG 20,	480-45
Microfilter element, complete	BG 30 (I)	491-4
Activated carbon filter element, complete		493-2
PE filter element 40 µm		480-219
PE filter element 5 µm	BG 40, BG 50 (II)	480-220
Microfilter element, complete		491-103
Activated carbon filter element, complete		493-102







480-7

491-4

493-2

Bowl options

Model	Version	Order No.		
Model	Version	BG 20 BG 30	BG 40 BG 50	
	with manual drain valve	480-18	480-210	
	with semi-automatic drain valve	480-78	480-255	
Plastic bowl	with automatic integrated drain valve	480-79	480-256	
	with automatic attachable drain valve A	480-95	480-257	
	without drain valve, for lubricators	483-7	483-110	
	with manual drain valve (bis 20 bar)	480-28	480-213	
	with semi-automatic drain valve (up to 20 bar)	480-80	480-258	
Metal bowl	with automatic integrated drain valve (up to 12 bar)	480-81	480-259	
	with automatic attachable drain valve A (up to 16 bar)	480-96	480-260	
	without drain valve, for lubricators (up to 20 bar)	483-10	483-113	
Protective metal cage	for attaching to plastic bowls	480-25	480-216	



Padlocks

Suitable for	Shackle-Ø (mm)	Order No.
Pressure regulators and filter pressure regulators BG 20, 30 and BG 40, 50	3	480-430
Ball valve for model 487.xA	4.5	487-17
Ball valve for model 487.xD	8	487-26



Overview of advantages

Module mounting to the wall with bracket (for regulator) or direct mounting (two screws) for all devices.

Threaded connection plates for pipe connection with self-adhesive sealing rings (also available with bracket) for easy installation in pipe and hose systems.









Compact connection with optional integrated T-holder

Lockable handwheel for pressure regulator, battery pressure regulator, filter pressure regulator and maintenance units available.