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standard



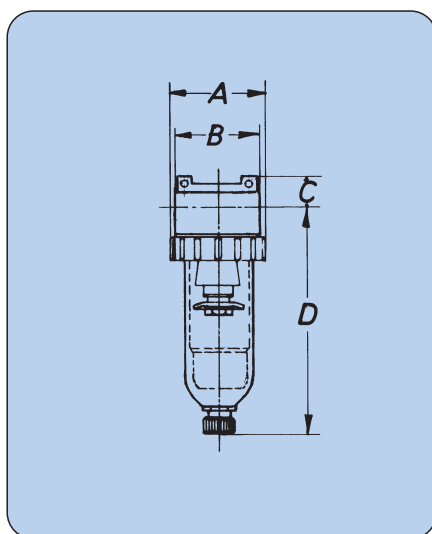
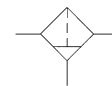
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Dimensions [mm]

Size Port	Small G 1/8*, G 1/4*, G 3/8			Medium G 3/8* G 1/2	
	A	56	56	56	87
B	57	57	50	88	80
C	19	19	19	24	24
D**	135	135	135	172	172

** -semi-automatic drain valve +10mm
-external-automatic drain valve +90mm

special option - how to order:

322.21 x

└─ M - metal bowl
└─ S - bowl protection

For example:

322.21 with bowl protection = 322.21S

Compressed air filters serve to remove impurities (condensation water, pipe scaling, rust particles) from the air in the work place. The cleansing is done in two stages by means of cycloning (condensation) and sintering filters (solid contamination). Port sizes G 1/8 to G 1/2.

Technical Data

	Small	Medium
Nominal rates of flow**	1.050NI/min	4.670NI/min
Max. operating pressure plastic bowl / metal bowl		16bar/25bar
Operating temperature plastic bowl / metal bowl		0°C to +50°C / 0°C to +90°C
Effective bowl volume	25 cm ³	80 cm ³
Mounting position		vertical arrow
Direction of flow		
Nominal width	DN6	DN15
Nominal pressure (housing)	PN25	PN25
Weight	390g	950g
Material		
Seals		NBR
Housing		zinc alloy
Filter element		sintered bronze
Plastic bowl		polycarbonate

** measured at p₁ = 6bar and Δp = 1 bar

Filters

Size	G 1/8	G 1/4	G 3/8	G 1/2
------	-------	-------	-------	-------

with plastic bowl and manually-operated drain valve

Small	322.21*	322.22*	322.23	-
Medium	-	-	322.35*	322.36

with plastic bowl and semi-automatic drain valve

Small	322.521*	322.522*	322.523	-
Medium	-	-	322.535*	322.536

with plastic bowl and external-automatic drain valve A (max. 16bar)

Small	370.21*	370.22*	370.23	-
Medium	-	-	370.35*	370.36

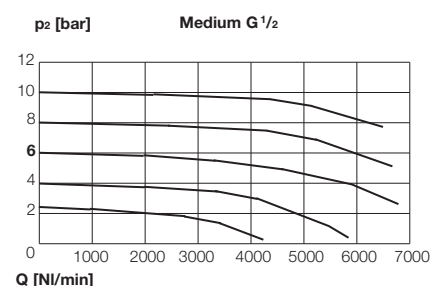
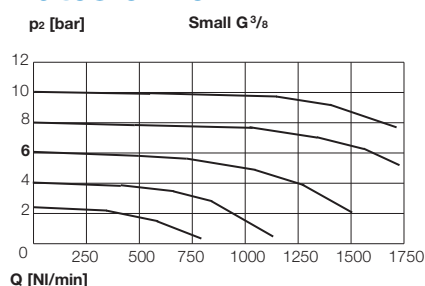
Accessories

	Small	Medium
Bracket mounting	322-24	322-25
Bowl protection for plastic bowl with bowl ring	322-130	322-131
Metal bowl with seal and manually-operated drain valve	324-101	324-109
semi-automatic drain valve	324-113	324-117
external-automatic drain valve A	324-114	324-118
Bowl ring	287-25	297-2

Main spare parts

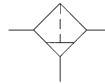
	Small	Medium
Plastic bowl with seal and manually-operated drain valve	322-112	322-118
semi-automatic drain valve	322-113	322-119
external-automatic drain valve A	322-114	322-120
Bowl ring	287-25	297-2
Sealing ring for all bowls	287-6	297-10
Filter element 40 μm (mounted)	287-10	267-37
5 μm	287-13	298-9

Rates of flow



Drain valves, see chapter 7

Filter standard



Compressed air filters serve to remove impurities (condensation water, pipe scaling, rust particles) from the air in the work place. The cleansing is done in two stages by means of cycloning (condensation) and sintering filters (solid contamination). Port sizes G^{3/4} to G1^{1/2}.

Technical Data

	Compact	Large	Max
Nominal rates of flow**	6.700 NI/min	10.000 NI/min	12.500 NI/min
Max. operating pressure		16bar/25bar	
plastic bowl / metal bowl			
Operating temperature		0°C to +50°C / 0°C to +90°C	
plastic bowl / metal bowl			
Effective bowl volume	80cm ³	260cm ³	260cm ³
Mounting position		vertical	
Direction of flow		arrow	
Nominal width	DN20	DN20	DN25
Nominal pressure (housing)		PN25	
Weight	1320g	1870g	2120g
Material			
Seals		NBR	
Housing	zinc alloy	alu alloy	aluminum
Filter element		sintered bronze	
Plastic bowl		polycarbonate	

** measured at p₁ = 6bar and Δp = 1 bar

Filters

Size	G ^{3/4}	G1	G1 ^{1/4}	G1 ^{1/2}
------	------------------	----	-------------------	-------------------

with plastic bowl and manually-operated drain valve

Compact	405.38*	405.39	-	-
Large	322.48*	322.49	-	-
Max	-	-	322.410*	322.411

with plastic bowl and semi-automatic drain valve

Compact	405.538*	405.539	-	-
Large	322.548*	322.549	-	-
Max	-	-	322.5410*	322.5411

with plastic bowl and external-automatic drain valve A (max. 16bar)

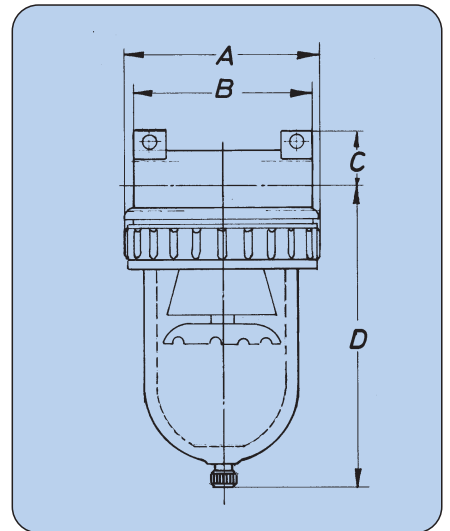
Compact	370.38*	370.39	-	-
Large	370.48*	370.49	-	-
Max	-	-	370.410*	370.411

Accessories

	Compact	Large	Max
Bracket mounting	405-4	281-26	281-26
Bowl protection for plastic bowl			
bowl protection	322-131	281-24	281-24
Bowl ring	-	300-31	300-31
Metal bowl with seal and			
manually-operated drain valve	324-109	322-125	322-125
semi-automatic drain valve	324-117	322-126	322-126
external-automatic drain valve A	324-118	322-127	322-127
Bowl ring	297-2	279-2	279-2

Main spare parts

	Compact	Large	Max
Plastic bowl with seal and			
manually-operated drain valve	322-118	322-122	322-122
semi-automatic drain valve	322-119	322-123	322-123
external-automatic drain valve A	322-120	322-124	322-124
Bowl ring	297-2	279-2	279-2
Sealing ring			
for all bowls	297-10	279-9	279-9
Filter element			
40µm (mounted)	267-37	281-14	281-14
5µm	298-9	-	-



Dimensions [mm]

Size Port	Compact G ^{3/4} *, G1	Large G ^{3/4} *, G1	Max G1 ^{1/4} *, G1 ^{1/2}
A	102 90	133 133	133 133
B	102 90	134 120	134 120
C	38 38	36 36	46 46
D**	175 175	206 206	216 216

** -semi-automatic drain valve +10mm
-external-automatic drain valve +90mm

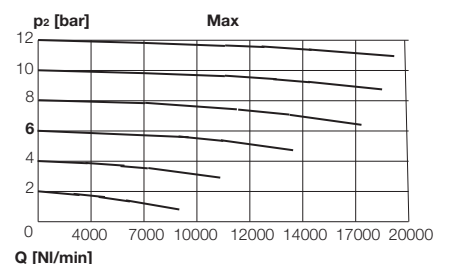
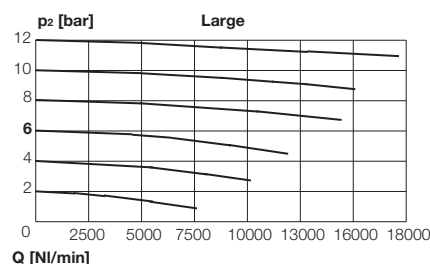
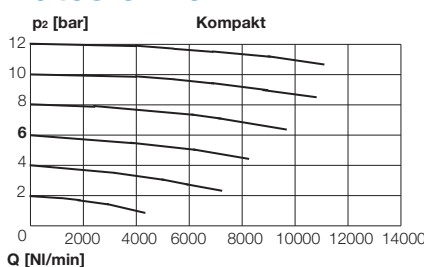
special option - how to order:

405.38 x M - metal bowl
S - bowl protection

For example:

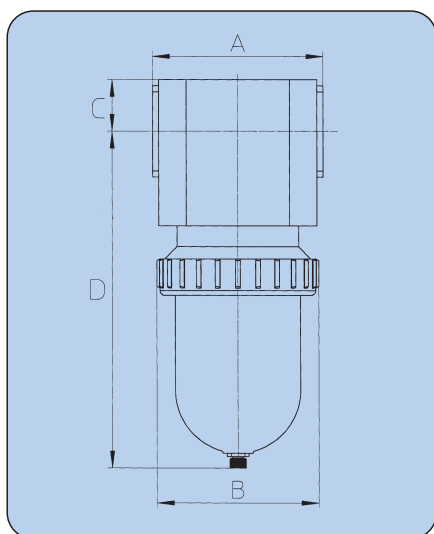
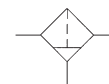
405.38 with bowl protection = 405.38S

Rates of flow



Drain valves, see chapter 7

* Inlet and outlet reduced



Dimensions [mm]

Size Port	G 1 ¹ / ₂ *	Super	G2
A	160		140
B	140		140
C	42,5		42,5
D**	330		330

** -semi-automatic drain valve +10mm
-external-automatic drain valve +90mm

special option - how to order:

456.212 x

└─ M - metal bowl
└─ S - bowl protection

For example:

456.212 with metal bowl = 456.212M

Compressed air filters serve to remove impurities (condensation water, pipe scaling, rust particles) from the air in the work place. The cleansing is done in two stages by means of cycloning (condensation) and sintering filters (solid contamination). Port sizes G 1¹/₂ to G2.

Technical Data

Nominal rates of flow**	Super 15830 NI/min
Max. operating pressure plastic bowl / metal bowl	16 bar / 25 bar
Operating temperature plastic bowl / metal bowl	0 °C to +50 °C / 0 °C to +90 °C
Effective bowl volume	500 cm ³
Mounting position	vertical
Direction of flow	arrow
Nominal width	DN50
Nominal pressure (housing)	PN25
Weight	5340 g
Material	
Seals	NBR
Housing	aluminum
Filter element	sintered bronze
Plastic bowl	polycarbonate

** measured at p₁ = 6 bar and Δp = 0,5 bar

Filters

Size	G 1 ¹ / ₂	G2
with plastic bowl and manually-operated drain valve		
Super	456.211*	456.212
with plastic bowl and semi-automatic drain valve		
Super	456.511*	456.512
with plastic bowl and external-automatic drain valve A (max. 16 bar)		
Super	456.611*	456.612

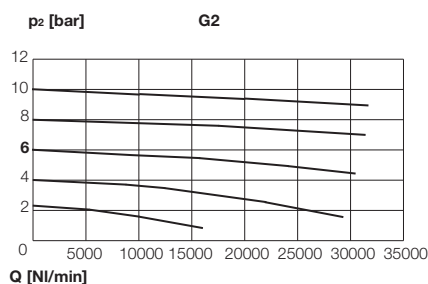
Accessories

	Super
Bracket mounting	457-12
Bowl protection for plastic bowl	
bowl protection	281-24
Bowl ring	300-31
Metal bowl with seal and manually-operated drain valve	322-125
semi-automatic drain valve	322-126
external-automatic drain valve A	322-127
Bowl ring	279-2

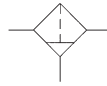
Main spare parts

	Super
Plastic bowl with seal and manually-operated drain valve	322-122
semi-automatic drain valve	322-123
external-automatic drain valve A	322-124
Bowl ring	279-2
Sealing ring for all bowls	279-9
Filter element 40µm (mounted)	454-3
5µm	454-11

Rates of flow



40bar Filter standard



Compressed air filters in modular design with condensation drain, manually operated***. Filter element of sintered bronze. Body of aluminium (black anodized). Bowl of brass. Test certificate for pressure bowl included.

Technical Data

	I	II	Super
Nominal rates of flow**	2660 NI/min	6000 NI/min	15830 NI/min
Max. operating pressure		40bar (PN40)	
Operating temperature		0°C to +90°C	
Effective bowl volume	80cm ³	100cm ³	300cm ³
Mounting position		vertical	
Direction of flow		arrow	
Nominal width	DN15	DN20	DN50
Weight	1220g	2000g	5800g
Material			
Seals		NBR	
Housing		aluminium	
Metal bowl		brass	aluminium
Filter element		sintered bronze	

** measured at p₁ = 6bar and Δp = 0,2bar



445.016

40bar Filters

Size	G ^{3/8}	G ^{1/2}	G ^{3/4}	G1	G1 ^{1/2}	G2
I	445.015*	445.016	-	-	-	- II
II	-	-	445.008*	445.009	-	-
Super	-	-	-	-	454.411*	454.412

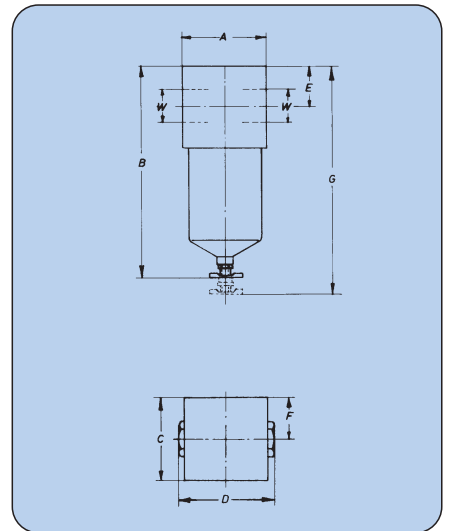
Accessories

	I	II	Super
Bracket mounting for housing	445-39	445-28	429-27

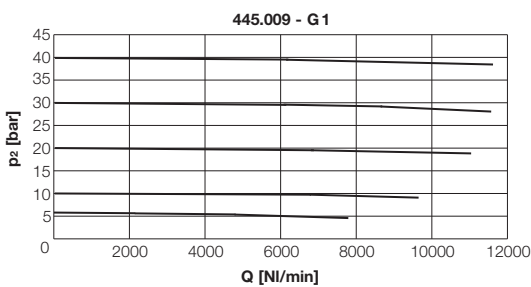
Main spare parts

	I	II	Super
Filter elements			
40 µm (mounted)	394-16	267-37	454-3
5 µm	394-37	298-9	454-11
Manual drain valve for metal bowls	275-41***	275-41***	275-41***

*** Condensate drain under pressure only to 25bar range



Rates of flow

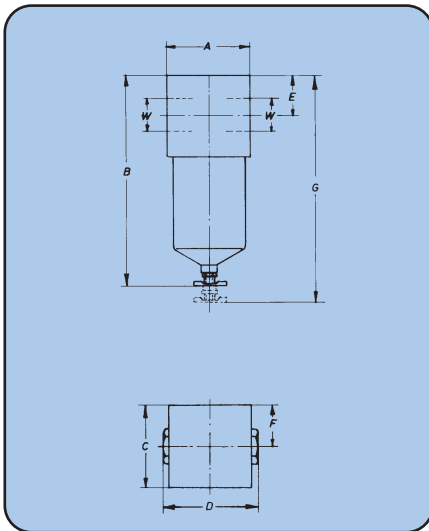
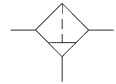


Dimensions [mm]

Size Port	I G ^{3/8} , G ^{1/2}	II G ^{3/4} , G1	Super G1 ^{1/2} , G2
A	65	80	140
B	200	210	285
C	65	80	120
D	70 62	92 80	160 140
E	32	40	42,5
F	31	40	70
G**	250	285	350

**Space required to change element.

* Inlet and outlet reduced



Compressed air filters in modular design with condensation drain, manually operated. Filter element of sintered bronze. Body of aluminium (black anodized). Bowl of brass. Test certificate for pressure bowl included.

Technical Data

	I	II
Nominal rates of flow**	2660NI/min	6000NI/min
Max. operating pressure	60 bar (PN60)	
Operating temperature	0°C to +90°C	
Effective bowl volume	80 cm ³	100 cm ³
Mounting position	vertical	
Direction of flow	arrow	
Nominal width	DN15	DN20
Weight	1400g	3000g
Material		
Seals	NBR	
Housing	aluminum	
Metal bowl	brass	
Filter element	sintered bronze	

** measured at $p_1 = 6 \text{ bar}$ and $\Delta p = 0,2 \text{ bar}$

60 bar Filters

Size	G ^{3/8}	G ^{1/2}	G ^{3/4}	G 1
I	475.015*	475.016	-	-
II	-	-	475.008*	475.009

Accessories

	I	II
Bracket mounting for housing	445-39	445-28

Main spare parts

	I	II
Filter element		
40µm (mounted)	394-16	267-37
5µm	394-37	298-9
Manual drain valve for metal bowl	275-41***	275-41***

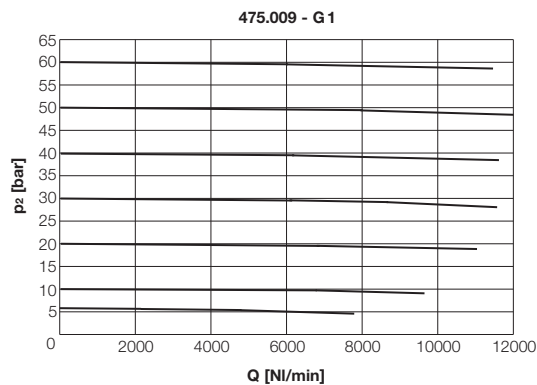
*** Condensate drain under pressure only to 25 bar range

Dimensions [mm]

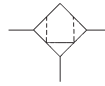
Size Port	I		II	
	G ^{3/8} *	G ^{1/2}	G ^{3/4} *	G 1
A	65		80	
B	185		200	
C	65		80	
D	70	65	92	80
E	25		30	
F	33		40	
G**	205		285	

**Space required to change element.

Rates of flow



Micro-Filter standard



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 99,9999% (for 0,01 µm). Residual oil content 0,01 ppm. Port size G^{1/8} to G^{3/8}.

Technical Data

	Small
Nominal rates of flow**	560 NI/min
Max. operating pressure	16bar/25bar
plastic bowl / metal bowl	
Operating temperature	0°C to +50°C / 0°C to +90°C
plastic bowl / metal bowl	max. to Microfilterelement
Effective bowl volume	
Mounting position	vertical
Direction of flow	arrow
Nominal width	DN6
Nominal pressure (housing)	PN25
Weight	380g
Material	
Seals	NBR
Housing	zinc alloy
Filter element	borosilicate glass microfiber
Plastic bowl	polycarbonate

** measured at p₁ = 6bar and Δp = 0,2bar

Micro-Filters

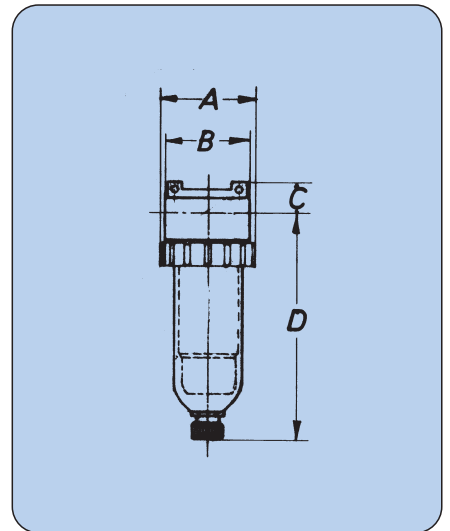
Size	G ^{1/8}	G ^{1/4}	G ^{3/8}
with plastic bowl and manually-operated drain valve			
Small	403.21*	403.22*	403.23
with plastic bowl and semi-automatic drain valve			
Small	403.521*	403.522*	403.523
with plastic bowl and add-on automatic drain valve A (max. 16bar)			
Small	403.121*	403.122*	403.123

Accessories

	Small
Bracket mounting	322-24
Bowl protection for plastic bowl with bowl ring	322-130
Metal bowl with seal and manually-operated drain valve	324-101
semi-automatic drain valve	324-113
external-automatic drain valve A	324-114
Bowl ring	287-25

Main spare parts

	Small
Plastic bowl with seal and manually-operated drain valve	403-9
semi-automatic drain valve	403-26
external-automatic drain valve A	403-30
Bowl ring	287-25
Sealing ring for all bowls	287-6
Micro-Filter element with seal 0,01 µm (M10x1 – ø28x68)	403-1



Dimensions [mm]

Size Port	G ^{1/8} *	Small G ^{1/4} *	G ^{3/8}
A	56	56	56
B	57	57	50
C	19	19	19
D**	135	135	135

** -semi-automatic drain valve +10mm
-external-automatic drain valve +90mm

special option - how to order:

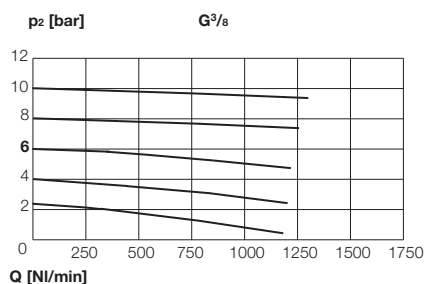
403.21 x

└─ M - metal bowl
└─ S - bowl protection

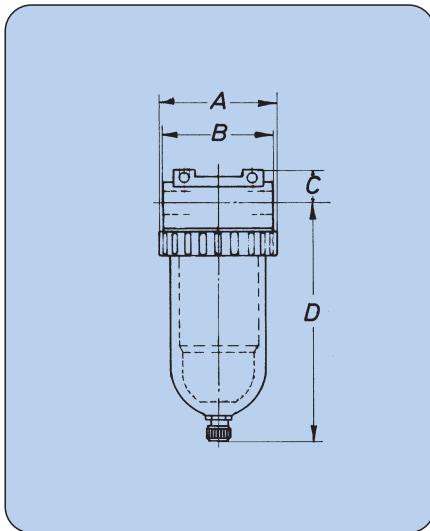
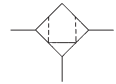
For example:

403.21- with bowl protection = 403.21S

Rates of flow



Micro-Filter standard



Dimensions [mm]

Size Port	Medium		Large	
	G ^{3/8} *	G ^{1/2}	G ^{3/4} *	G ¹
A	87	87	133	133
B	88	80	134	120
C	24	24	36	36
D**	172	172	206	206

** -semi-automatic drain valve +10mm
-external-automatic drain valve +90mm

special option - how to order:

403.35 x

└─ M – metal bowl
└─ S – bowl protection

For example:

403.35- with bowl protection = 403.35S

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 99,9999% (for 0,01 µm). Residual oil content 0,01 ppm. Port size G^{3/8} to G¹.

Technical Data

	Medium	Large
Nominal rates of flow**	2000 NI/min	4000 NI/min
Max. operating pressure plastic bowl / metal bowl	16bar/25bar	
Operating temperature plastic bowl / metal bowl	0°C to +50°C / 0°C to +90°C	
Effective bowl volume	max. to Microfilterelement	
Mounting position	vertical	
Direction of flow	arrow	
Nominal width	DN15	DN20
Nominal pressure (housing)	PN25	PN25
Weight	980g	1900g
Material		
Seals	NBR	
Housing	zinc alloy	aluminum
Filter element	borosilicate glass microfiber	
Plastic bowl	polycarbonate	

** measured at p₁ = 6bar and Δp = 0,2bar

Micro-Filters

Size	G ^{3/8}	G ^{1/2}	G ^{3/4}	G ¹
with plastic bowl and manually-operated drain valve				
Medium	403.35*	403.36	-	-
Large	-	-	403.48*	403.49
with plastic bowl and semi-automatic drain valve				
Medium	403.535*	403.536	-	-
Large	-	-	403.548*	403.549
with plastic bowl and external-automatic drain valve A (max. 16bar)				
Medium	403.135*	403.136	-	-
Large	-	-	403.148*	403.149

Accessories

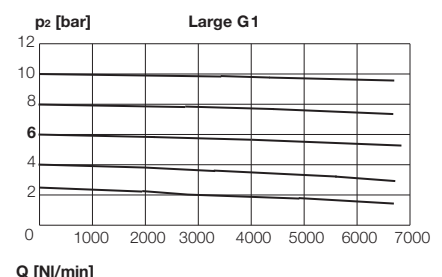
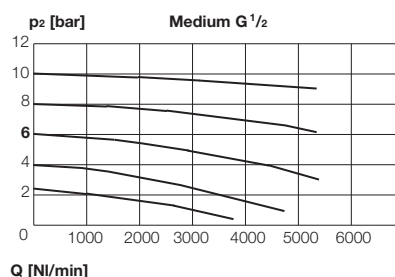
	Medium	Large
Bracket mounting	322-25	281-26
Bowl protection for plastic bowl		
bowl protection	298-8	281-24
Bowl ring	297-13	300-31
Metal bowl with seal and manually-operated drain valve	324-109	322-125
semi-automatic drain valve	324-117	322-126
external-automatic drain valve A	324-118	322-127
Bowl ring	297-2	279-2

Main spare parts

	Medium	Large
Plastic bowl with seal and manually-operated drain valve	360-12	360-25**
semi-automatic drain valve	403-28	403-29**
external-automatic drain valve A	403-32	403-33**
Bowl ring	297-2	279-2
Sealing ring for all bowls	297-10	279-9
Filter element with seal		
0,01 µm (M23 x 1 – ø50 x 98)	403-3	-
0,01 µm (M35 x 1,5 – ø75 x 125)	-	403-4

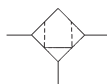
** without seal

Rates of flow



Drain valves, see chapter 7

Micro-Filter standard



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 99,9999% (for 0,01 µm). Residual oil content 0,01 ppm. Port size G 1 1/2 to G 2.

Technical Data

	Super
Nominal rates of flow**	7000 Nl/min
Max. operating pressure plastic bowl / metal bowl	16 bar / 25 bar
Operating temperature plastic bowl / metal bowl	0°C to +50°C / 0°C to +90°C max. to Microfilterelement
Effective bowl volume	vertical
Mounting position	arrow
Direction of flow	DN 50
Nominal width	PN 25
Nominal pressure (housing)	5400 g
Weight	
Material	
Seals	NBR
Housing	aluminum
Filter element	borosilicate glass microfiber
Plastic bowl	polycarbonate

** measured at p₁ = 6 bar and Δp = 0,2 bar

Micro-Filters

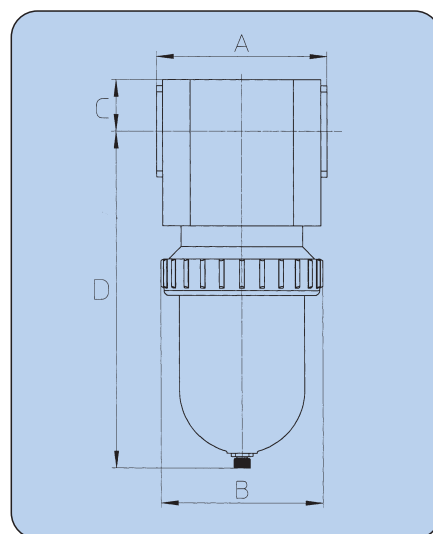
Size	G 1 1/2	G 2
with plastic bowl and manually-operated drain valve		
Super	403.511*	403.512
with plastic bowl and semi-automatic drain valve		
Super	403.5511*	403.5512
with plastic bowl and external-automatic drain valve A (max. 16 bar)		
Super	403.1511*	403.1512

Accessories

	Super
Bracket mounting	457-12
Bowl protection for plastic bowl	
bowl protection	281-24
Bowl ring	300-31
Metal bowl with seal and manually-operated drain valve	322-125
semi-automatic drain valve	322-126
external-automatic drain valve A	322-127
Bowl ring	279-2

Main spare parts

	Super
Plastic bowl with seal and manually-operated drain valve	322-122
semi-automatic drain valve	322-123
external-automatic drain valve A	322-124
Bowl ring	279-2
Sealing ring for all bowls	279-9
Filter element with seal 0,01 µm (ø63x115)	454-17



Dimensions [mm]

BG	G 1 1/2*	Super	G 2
A	140	140	140
B	133	133	133
C	42	42	42
D**	330	330	330

** - semi-automatic drain valve +10mm
- external-automatic drain valve +90mm

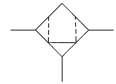
special option - how to order:

403.512 x

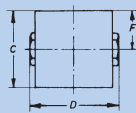
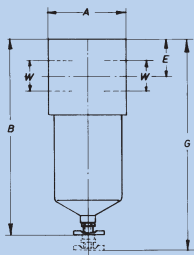
┌ M - metal bowl
└ S - bowl protection

for example:

403.512 with metal bowl = 403.512 M



445.116



Compressed air filters in modular design with condensation drain, manually operated. Filter element of Borosilicate microfiber fleece. Body of aluminium (black anodized). Bowl of brass. Test certificate for pressure bowl included. Micro-filters guarantee as the second stage best possible quality with an effectiveness of 99,9999% based on 0,01 µm. Residual oil content 0,01 ppm. The filter element with a pore size lower than 0,01 µm are of borosilicate filter with supporting casing made of stainless steel (V2A) and foamed plastic cover. Flow passes from inside to outside. Replacement after 6 months.

Technical Data

	I	II	Super
Nominal rates of flow**	2000NI/min	3000NI/min	7000NI/min
Max. operating pressure		40 bar (PN40)	
Operating temperature		0°C to +90°C	
Effective bowl volume		max. to Microfilterelement	
Mounting position		vertical	
Direction of flow		arrow	
Nominal width	DN15	DN20	DN50
Weight	1220g	2000g	5800g
Material			
Seals		NBR	
Housing		aluminum	
Metal bowl		brass	aluminum
Filter element		borosilicate glass microfiber	

** measured at $p_1 = 6\text{ bar}$ and $\Delta p = 0,2\text{ bar}$

40bar Micro-Filters

Size	G ^{3/8}	G ^{1/2}	G ^{3/4}	G1	G1 ^{1/2}	G2
I	445.115*	445.116	-	-	-	- II
II	-	-	445.108*	445.109	-	-
Super	-	-	-	-	454.511*	454.512

Accessories

	I	II	Super
Bracket mounting for housing	445-39	445-28	429-27

Main spare parts

	I	II	Super
Filter elements			
0,01 µm	448-8	403-3	454-17
Manual drain valve for metal bowls	275-41***	275-41***	275-41***

*** Condensate drain under pressure only to 25 bar range

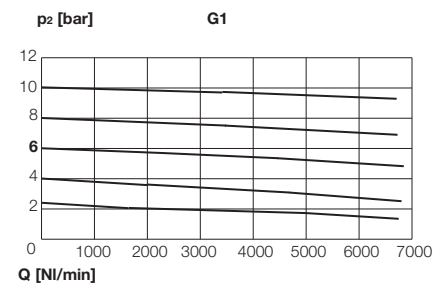
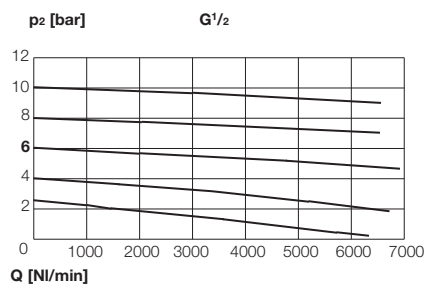
For maximum working life we recommend using a normal filter 40bar as first stage.

Dimensions [mm]

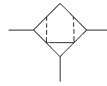
Size Port	I G ^{3/8} *, G ^{1/2}	II G ^{3/4} *, G1	Super G1 ^{1/2} *, G2
A	65	80	140
B	200	210	285
C	65	80	120
D	70 65	92 80	160 140
E	32	40	42,5
F	31	40	70
G**	250	285	350

**Space required to change element.

Rates of flow



60bar Micro-Filter standard

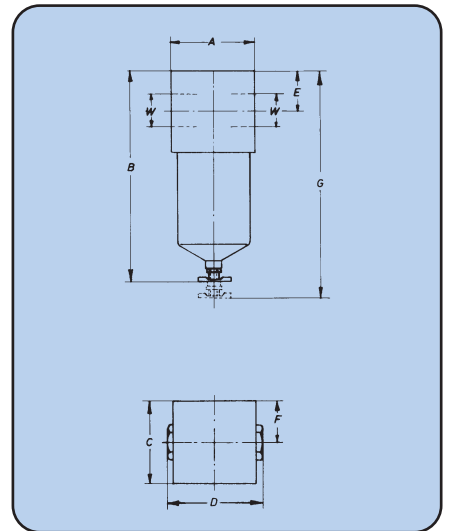


Compressed air filters in modular design with condensation drain, manually operated. Filter element of Borosilicate microfiber fleece. Body of aluminium (black anodized). Bowl of brass. Test certificate for pressure bowl included. Micro-filters guarantee as the second stage best possible quality with an effectiveness of 99,9999% based on 0,01 µm. Residual oil content 0,01 ppm. The filter element with a pore size lower than 0,01 µm are of borosilicate filter with supporting casing made of stainless steel (V2A) and foamed plastic cover. Flow passes from inside to outside. Replacement after 6 months.

Technical Data

	I	II
Nominal rates of flow**	2000NI/min	3000NI/min
Max. operating pressure	60bar (PN60)	
Operating temperature	0°C to +90°C	
Effective bowl volume	max. to Microfilterelement	
Mounting position	vertical	
Direction of flow	arrow	
Nominal width	DN15	DN20
Weight	1400g	3000g
Material		
Seals	NBR	
Housing	aluminum	
Metal bowl	brass	
Filter element	borosilicate glass microfiber	

** measured at p₁ = 6 bar and Δp = 0,2 bar



60bar Micro-Filters

Size	G ^{3/8}	G ^{1/2}	G ^{3/4}	G1
I	475.115*	475.116	-	-
II	-	-	475.108*	475.109

Accessories

	I	II
Bracket mounting for housing	445-39	445-28

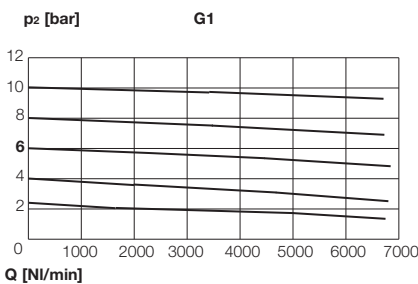
Main spare parts

	I	II
Filter element with seal 0,01 µm	448-8	403-3
Manual drain valve for metal bowl	275-41***	275-41***

*** Condensate drain under pressure only to 25 bar range

For maximum working life we recommend using a normal filter 60bar as first stage.

Rates of flow



Dimensions [mm]

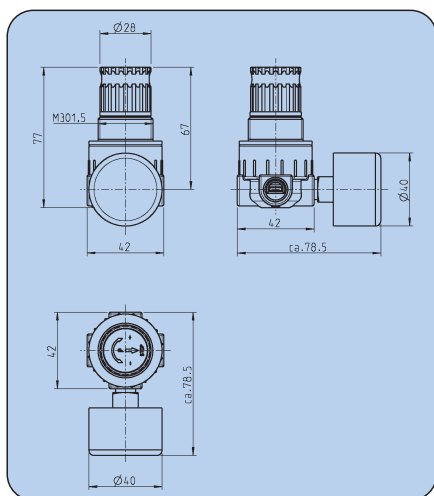
BG	I G ^{3/8} *, G ^{1/2}	II G ^{3/4} *, G1
A	65	80
B	185	200
C	65	80
D	70 65	92 80
E	25	30
F	33	40
G**	205	285

**Space required to change element.

* Inlet and outlet reduced

Small Pressure Regulator

standard



Pressure regulator (diaphragm type) in round shape. Relieving (feedback control), form extensive amount of independence and compensation are given. Typically ranges 0,5 bar to 6, and 10 bar. Operation by handwheel, lockable. Gauges mounted on both sides. Panel or bracket mounting if desired. Connecting thread G¹/₄.

Note: To avoid losses should be a pre-filter.

Technical Data

Nominal rates of flow*	600NI/min
Max. inlet pressure (P₁)	16bar at max. +50°C (122°F)
Operating temperature	-10°C up to +90°C
Mounting position	any
Direction of flow	arrow
Nominal width	DN6
Dependence upon supply pressure	< 3%
Reversing control hysteresis	~ 1 bar
Weight	300g
Material	
Housing	aluminum
Cover	PA6-GF30
Handwheel	POM
Guide pin, disc	PA
Cone, diaphragm	NBR

* measured at p₁ = 10bar, p₂ = 6bar and Δp = 1 bar

Small Pressure Regulator 0,5-10bar

Size	G ¹ / ₄
Small	301.223

special option - how to order:

301.xxx

1	- 0,2- 3bar	operating pressure range
2	- 0,5- 6bar	
3	- 0,5- 10bar	
2	- thread (2 = G ¹ / ₄)	
2	- with pressure gauge	
4	- without pressure gauge	

For example:

301.223 – but **without pressure gauge** and **0,5-6bar** = **301.422**

Accessories

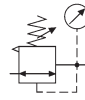
	Small
Bracket mounting at cover	443-36
Panel mounting	381-32
Panel thread	M30x1,5

Main spare parts

	Small
Pressure gauge	ø40
display range 0- 4bar	709
0- 6bar	714
0- 10bar	723
0- 16bar	734
Seal cone complete	301-8
Diaphragm complete	301-9

Pressure Regulator

standard



Pressure regulators (diaphragm type) keep the working pressure constant regardless of pressure fluctuations in the system and of air consumption, providing secondary air exhaust (relieving) and almost complete independence of primary pressure. Working pressure ranges from 0,5 to 3, 6, 10 and 16 bar. Operation by means of a toggle or handwheel. Special models (for example, without secondary air exhaust) upon request. Gauge can be mounted on either side. Port sizes G^{1/8} to G^{1/2}. **Important:** Use of filter always recommended.

Technical Data

	Small	Intermediate	Medium
Nominal rates of flow**	1000 NI/min	2000 NI/min	2670 NI/min
Max. inlet pressure (P ₁)		25 bar (PN25)	
Operating temperature		-10°C to +90°C	
Mounting position		any	
Direction of flow		arrow	
Nominal width	DN6	DN10	DN15
Dependence upon supply pressure	< 3%	< 2%	< 2%
Reversing control hysteresis		~ 1 bar	
Weight	620g	1150g	1350g
Material			
Diaphragm		NBR	
Seals		NBR	
Housing		zinc alloy	

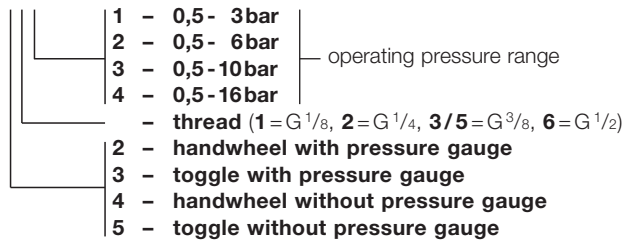
** measured at p₁ = 8 bar, p₂ = 6 bar and Δp = 1 bar

Pressure Regulators 0,5-10bar

Size	G ^{1/8}	G ^{1/4}	G ^{3/8}	G ^{1/2}
Small	323.313*	323.323*	323.333	-
Intermediate	280.313*	280.323*	280.333	-
Medium	-	-	280.353*	280.363

special option - how to order:

323.xxx



For example:

323.323 - but without pressure gauge and 0,5- 16 bar = 323.524

Accessories

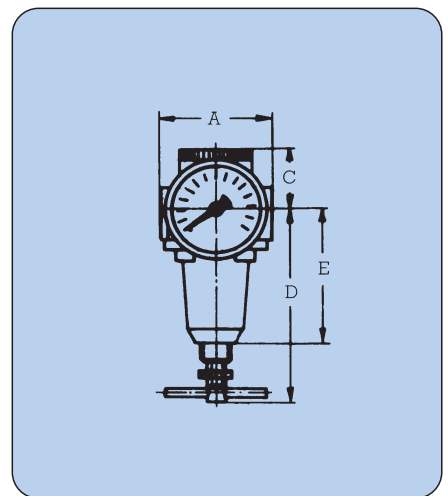
	Small	Intermediate	Medium
Bracket mounting	323-68	280-134	280-132
Panel mounting	323-69	323-66	280-133
Panel thread	M14x1	M20x1,5	M22x1

Main spare parts

	Small	Intermediate	Medium
Pressure gauge	ø50	ø63	ø63
display range 0- 6bar	42	213	213
0- 10bar	55	214	214
0- 16bar	85	215	215
0- 25bar	96	216	216
Seal cone complete	323-119	406-37	280-220
Diaphragm complete	323-152	280-223	280-221

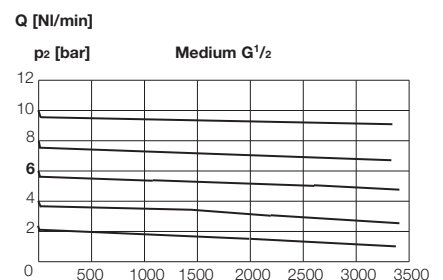
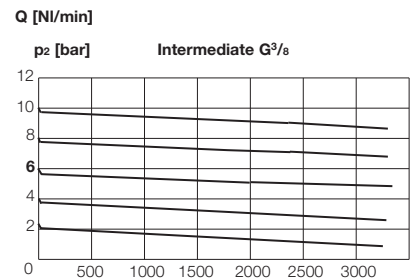
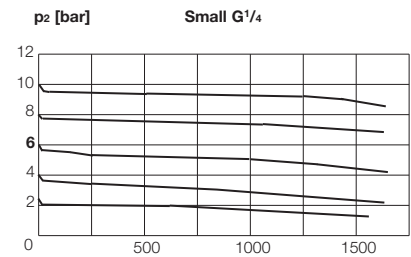
Dimensions [mm]

Size Port	Small G ^{1/8} *, G ^{1/4} *, G ^{3/8}			Intermediate G ^{1/8} *, G ^{1/4} *, G ^{3/8}			Medium G ^{3/8} *, G ^{1/2}	
A	61	61	54	77	77	70	90	82
C	30	30	30	33	33	33	34	34
D	100	100	100	127	127	127	136	136
E	67	67	67	78	78	78	85	85



Rates of flow

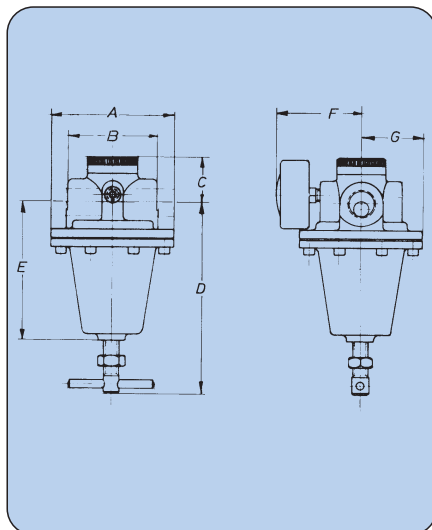
p₁ = p₂ + 2 bar



* Inlet and outlet reduced

Pressure Regulator

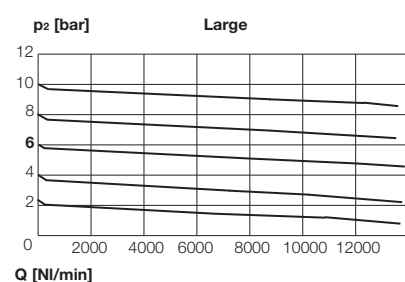
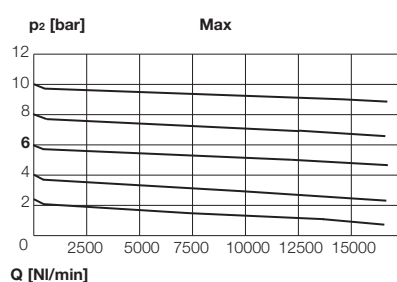
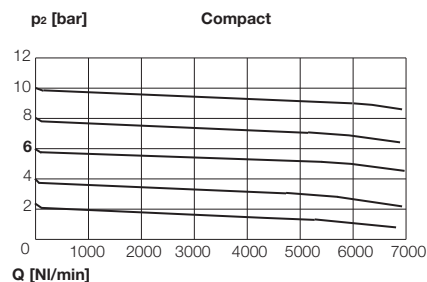
standard

406.xxx
Compact280.xxx
Large/Max

Dimensions [mm]

Size Port	Compact G ^{3/4} *, G1		Large G ^{3/4} *, G1		Max G1 ^{1/4} *, G1 ^{1/2}	
A	-	-	116	116	116	116
B	96	90	95	83	128	114
C	47	47	41	41	50	50
D	139	139	175	175	190	190
E	89	89	-	-	-	-
F	77	77	80	80	80	80
G	39	39	58	58	58	58

Rates of flow

p₁ = p₂ + 2bar

Pressure regulators (diaphragm type) keep the working pressure constant regardless of pressure fluctuations in the system and of air consumption, providing secondary air exhaust (relieving) and almost complete independence of primary pressure. Working pressure ranges from 0,5 to 3, 6, 10, 16 and 25 bar. Operation by means of a toggle or handwheel (size Large + Max for 16 and 25 bar with hexagon screw sw 19. Special models (for example, without secondary air exhaust) upon request. Gauge can be mounted on either side. Port sizes G^{3/4} to G1^{1/2}.

Important: Use of filter always recommended.

Technical Data

	Compact	Large	Max
Nominal rates of flow**	5330 NI/min	7830 NI/min	12160 NI/min
Max. inlet pressure (P₁)	25 bar (PN25)	40 bar (PN40)	40 bar (PN40)
Operating temperature		-10°C to +90°C	
Mounting position		any	
Direction of flow		arrow	
Nominal width	DN20	DN20	DN25
Dependence upon supply pressure < 3%		< 1,5%	< 1,5%
Reversing control hysteresis		~ 1 bar	
Weight	2050g	3480g	5260g
Material			
Diaphragm		NBR	
Seals		NBR	
Housing	zinc alloy	brass	brass

** measured at p₁ = 8 bar, p₂ = 6 bar and Δp = 1 bar

Pressure Regulators 0,5-10bar

Size	G ^{3/4}	G1	G1 ^{1/4}	G1 ^{1/2}
Compact	406.283*	406.293	-	-
Large	280.383*	280.393	-	-
Max	-	-	280.3103*	280.3113

special option - how to order:

406.xxx (Compact)

- 1 - 0,5- 3bar
- 2 - 0,5- 6bar
- 3 - 0,5-10bar
- 4 - 0,5-16bar
- thread (8=G^{3/4}, 9=G1)
- 2 - handwheel with pressure gauge (to 10bar)
- 3 - toggle with pressure gauge
- 4 - handwheel without press. gauge (to 10bar)
- 6 - toggle without pressure gauge

280.xxxx (Large/Max)

- 1 - 0,5- 3bar
- 2 - 0,5- 6bar
- 3 - 0,5-10bar
- 4 - 0,5-16bar
- 5 - 0,5-25bar
- thread (8=G^{3/4}, 9=G1, 10=G1^{1/4}, 11=G1^{1/2})
- 3 - toggle* with pressure gauge
- 5 - toggle* without pressure gauge

* 16+25 bar with hexagon screw

For example: **280.3113** – but **without pressure gauge** and **0,5-25bar = 280.5115**

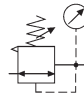
Accessories

	Compact	Large	Max
Bracket mounting	406-17	280-239	280-239
Panel mounting	406-18	-	-
Panel thread	M28x1,5		

Main spare parts

	Compact	Large	Max
Pressure gauge	ø63	ø63	ø63
display range 0- 6bar	213	213	213
0-10bar	214	214	214
0-16bar	215	215	215
0-25bar	216	216	216
0-40bar	-	217	217
Seal cone complete	406-32	280-218	280-235
Diaphragm complete	406-50	280-219	280-219

Pressure Regulator standard



Pressure regulator (diaphragm type) with servomechanism. Port sizes G 1½ to G2. Secondary air exhaust (relieving) and almost complete independence of primary pressure are provided. Working pressure ranges: 0,5 to 6, 10, 16 and 25bar. Two gauges (inlet and outlet pressure) can be mounted on either side. Bracket mounting upon request.

Important: Use of filter always recommended.

Technical Data

	Super
Nominal rates of flow**	25000NI/min
Max. inlet pressure (P ₁)	40bar (PN40)
Outlet pressure range (P ₂)	0,5 to 6, 10, 16 and 25bar
Operating temperature	-10°C to +90°C
Mounting position	any
Direction of flow	arrow
Nominal width	DN50
Dependence upon supply pressure	< 1%
Reversing control hysteresis	~ 0,5bar
Weight	5500g
Material	
Diaphragm/Seals	NBR
Housing	aluminum alloy

** measured at p₁ = 8bar, p₂ = 6bar and Δp = 1bar



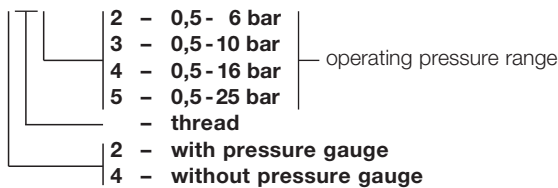
Pressure Regulators 0,5-10bar

Size	G 1½	G2
Super	417.2113*	417.2123

Execution "remote control" on request

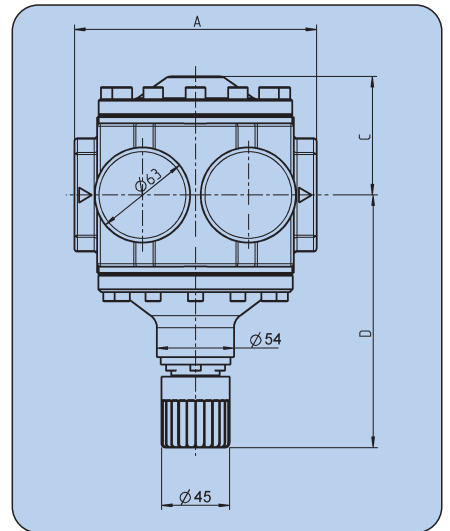
special option - how to order:

417.xxxx



For example:

417.2113 - but without pressure gauge and 0,5 - 16 bar = 417.4114



** picture with one diaphragm (new Model)

Accessories

	Super
Bracket mounting	417-47

Main spare parts

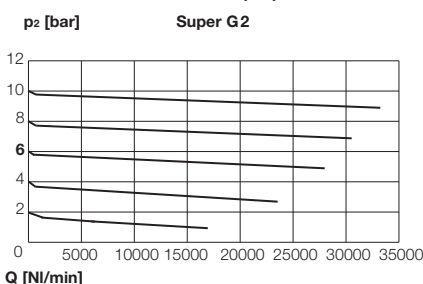
	Super
Pressure gauge horizontal	Ø63
display range 0 - 10 bar	214
0 - 16 bar	215
0 - 25 bar	216
0 - 40 bar	217
0 - 60 bar	218

	"old Model" two diaphragm	"new Model" ** one diaphragm
Seal set (incl. Valves complete)	417-54	417-75
Seal cone complete	417-15	417-67
Diaphragm complete	417-26	417-66

Dimensions [mm]

Size Port	Super	
	G 1½*	G2
A	180	160
C	78	78
D	200	200

Rates of flow $p_1 = p_2 + 2\text{bar}$

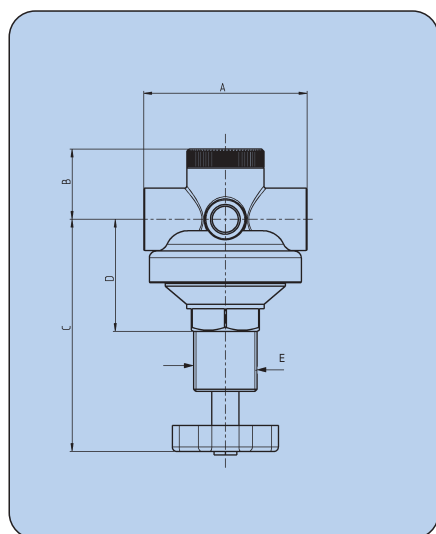


* Inlet and outlet reduced

Pressure Regulator Brass standard



274.663



Dimensions [mm]

Size Port	Small G ¹ / ₄	Medium G ¹ / ₂
A	45	72
B	23	30
C	81	115
D	35	52
E	M20x1,5	M28x1,5

Pressure regulators (diaphragm type). Port size G¹/₄ and G¹/₂. Secondary air exhaust (relieving) and almost complete independence of primary pressure. Working pressure ranges 0,5 to 3, 6, 10, 16 and 25bar. Adjustment by means of a locknut. Gauge can be mounted on either side. Panel mounting or bracket mounting upon request.

Important: Use of filter always recommended.

Technical Data

	Small	Medium
Nominal rates of flow*	430NI/min	1250NI/min
Max. inlet pressure (P ₁)	40 bar (PN40)	
Operating temperature	-10°C to +90°C	
Outlet pressure range (P ₂)	0,5 to 3, 6, 10, 16 and 25bar	
Mounting position	any	
Direction of flow	arrow	
Nominal width	DN6	DN12
Dependence upon supply pressure	< 10%	< 4%
Reversing control hysteresis	~ 1 bar	
Weight	390g	1000g
Material	Diaphragm/Seals NBR Housing brass	

* measured at p₁ = 8bar, p₂ = 6bar and Δp = 1bar

Pressure Regulators Brass 0,5-10bar

Size	G ¹ / ₄	G ¹ / ₂
Small	286.323	-
Medium	-	274.663

special option - how to order:

274.xxx	Operating pressure range
1	0,5 - 3bar
2	0,5 - 6bar
3	0,5 - 10bar
4	0,5 - 16bar
5	0,5 - 25bar
-	thread (2 = G ¹ / ₄ , 6 = G ¹ / ₂)
3	with pressure gauge (Model 286) (not at 25bar)
6	with pressure gauge (Model 274)
4	without pressure gauge

For example:

274.663 – but without pressure gauge and 0,5 - 16bar = 274.464

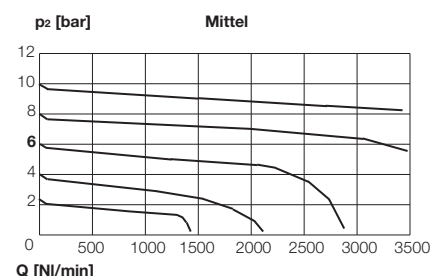
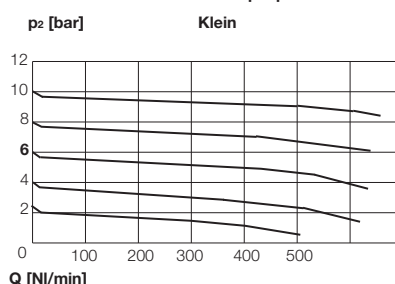
Accessories

	Small	Medium
Bracket mounting	286-88	274-48
Panel mounting	286-89	274-49

Main spare parts

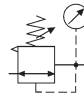
	Small	Medium
Pressure gauge	ø40	ø63
display range 0- 6bar	714	213
0-10bar	723	214
0-16bar	734	215
0-25bar	745	216
0-40bar	-	217
Seal cone complete	286-120	274-75
Diaphragm complete 0- 3bar	286-126	274-65
0-10bar	286-126	274-66
0-25bar	286-126	274-67

Rates of flow p₁=p₂+2bar



60 bar Pressure Regulator

standard



ewo

3

Pressure regulator (piston type). Port sizes G 1. Secondary air exhaust (relieving) and almost complete independence of primary pressure are provided. Working pressure ranges: 0,5 to 12, 22, 35 and 50bar. Gauge can be mounted on either side. Bracket mounting upon request.

Important: Use of filter always recommended.

Technical Data

	BGI	BGII
Nominal rates of flow*	1400NI/min	5000NI/min
Max. inlet pressure (P ₁)	60 bar (PN60)	
Control range (P ₂)	see special option - how to order	
Operating temperature	10°C to +90°C	
Mounting position	any	
Direction of flow	arrow	
Nominal width	DN12	DN20
Weight	1500g	7100g
Material		
Seals		NBR
Housing		brass

* measured at p₁ = 20bar, p₂ = 10bar and Δp = 4bar

High Pressure Regulators 0,5-8/12bar

BGI with handwheel (50bar with hexagon screw) – BGII with toggle (50bar with hexagon screw)

Size	G 1/4	G 3/8	G 1
I	302.323*	302.333	-
II	-	-	302.393

special option - how to order:

302.xxx

3	- 0,5-12bar	} operating pressure range
4	- 1,0-20bar	
5	- 2,0-35bar	
6	- 3,0-50bar	
	- thread (2 = G 1/4, 3 = G 3/8, 9 = G 1)	
3	- with pressure gauge	
5	- without pressure gauge	

For example:

302.333 – but **without pressure gauge** and **2,0-35bar** = 302.535

Accessories

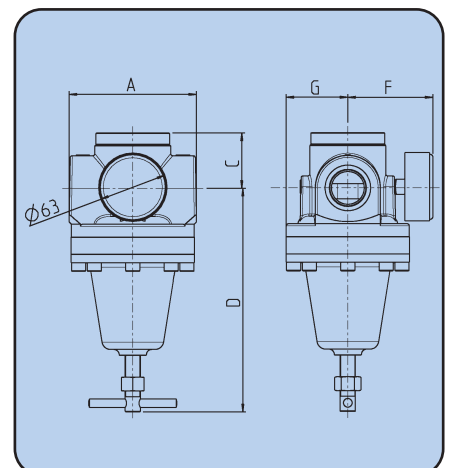
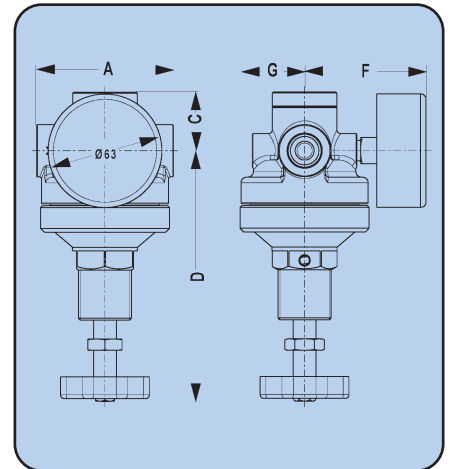
	I	II
Bracket mounting steel	274-48	302-19

Main spare parts

	I	II
Pressure gauge (built-in ø63 horizontal)	see chapter 8 page 45 + 46	
Seal cone complete	406-37	302-6

Dimensions [mm]

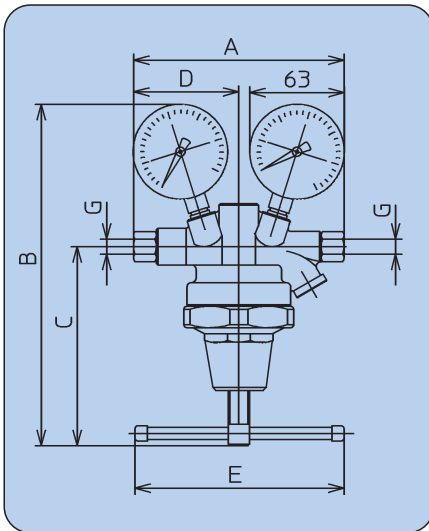
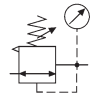
Size	I	II
A	72	118
C	31	51
D	133	206
F	66	80
G	34	58



* Inlet and outlet reduced

Pressure Line Regulator

standard



Dimensions [mm]

Size Port	G ^{1/4}
A	150
B	215
C	130
D	160
E	130
G	G ^{1/4}

Pressure line regulator for a maximum inlet pressure of 200 bars. Suitable for compressed air, nitrogen and other neutral compact gases.

Technical Data

Nominal rates of flow

50 bar = 2500 NI/min
 100 bar = 2700 NI/min
 150 bar = 2900 NI/min

Size Port

G^{1/4}i female thread on both sides

Gauge inlet

ø63, 0-200 bar

Gauge outlet

ø63, 0-50 bar, 100 bar, 200 bar

Max. inlet pressure (P₁)

200 bar (PN200)

Outlet pressure range (P₂)

1 to 50 bar, 100 bar, 150 bar

Operating temperature

-10°C to +90°C

Mounting position

any

Direction of flow

left to right

Nominal width

DN3

Over-pressure protection

blow-off valve

Adjustment

toggle (50 bar - handwheel)

Weight

2200 g

Material

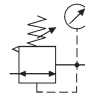
Seals
 Housing

NBR
 brass

Pressure Line Regulators up to 150bar outlet pressure

Pressure range	G ^{1/4}
50 bar (with handwheel)	120.420
100 bar (with toggle)	120.421
150 bar	120.422

Precision Pressure Regulator standard



ewo

3

Pressure regulators (diaphragm type) with low operating air consumption. Port sizes G 1/4. Secondary air exhaust (relieving) practically without hysteresis. Working pressure ranges 0,1 to 6bar. Gauge can be mounted on either side. Setting handwheel with locknut. Panel mounting or bracket mounting possible, if desired.

Important: Use of filter always recommended.

Technical Data

Nominal rates of flow**	500NI/min
Max. inlet pressure (P₁)	10bar (PN 10)
Operating temperature	-10°C to +60°C
Outlet pressure range (P₂)	0,1 to 6bar
Mounting position	any
Direction of flow	arrow
Nominal width	DN4
Dependence upon supply pressure	< 3%
Reversing control hysteresis	< 0,1bar
Air consumption	< 2,5l/min
Weight	1400g
Material	
Diaphragm/Seals	NBR
Housing	zinc alloy

** measured from 2-6bar, Δp=1 bar

Precision Pressure Regulators 0,1-6bar

Size	G 1/4
I	435.222*

special option - how to order:

435.x22	2 - with pressure gauge
	4 - without pressure gauge

For example:

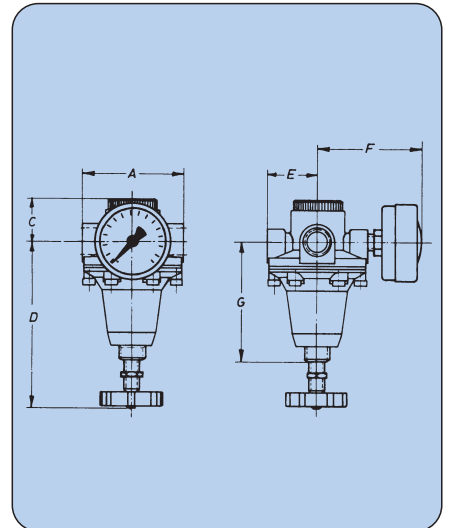
435.222 - but **without pressure gauge** = 435.422

Accessories

Bracket mounting	280-132
Panel mounting	280-133
Panel thread	M22x1

Main spare parts

Pressure gauge (fine scale) display rage 0-6bar	ø63 257
Seal cone complete	435-16
Diaphragm complete	435-7



Dimensions [mm]

Size Ports	G 1/4
A	82
C	34
D	132
E	41
F	80
G	85

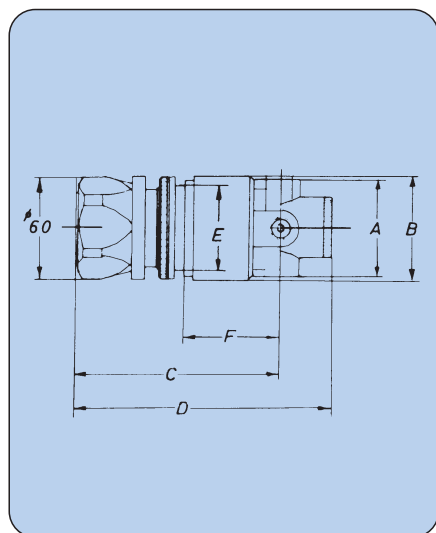
Compressed Air Conditioning

3 standard

* Inlet and outlet reduced

ewo

Pressure Regulator with Internal Gauge in Setting Knob standard



Dimensions [mm]

Size Port	I G ^{3/8}
A	54
B	60
C	115
D	145
E	48
F	56

Pressure regulators (diaphragm type), ideal for panel installation. Port size G^{3/8}. Secondary air exhaust (relieving) and almost complete independence of primary pressure. Working pressure ranges from 0,5 to 3, 6, 10 and 16bar. Gauge integrated in setting handwheel. Panel mounting possible if desired.

Important: Use of filter always recommended.

Technical Data

Nominal rates of flow*	I 1000NI/min
Max. inlet pressure (P₁)	25 bar (PN25)
Outlet pressure range (P₂)	0,5 to 3, 6, 10 and 16bar
Operating temperature	-10°C to +90°C
Mounting position	any
Direction of flow	arrow
Nominal width	DN10
Dependence upon supply pressure	< 3%
Reversing control hysteresis	~ 1 bar
Weight	985g

Material
Diaphragm / Seals NBR
Housing zinc alloy and aluminum

* measured at p₁ = 8bar, p₂ = 6bar and Δp = 1 bar

Pressure Regulators 0,5-10bar

Size	G ^{3/8}
I	367.333

special option - how to order:

367.xxx	<table border="0"> <tr> <td>1 - 0,5- 3bar</td> <td rowspan="4">} operating pressure range</td> </tr> <tr> <td>2 - 0,5- 6bar</td> </tr> <tr> <td>3 - 0,5- 10bar</td> </tr> <tr> <td>4 - 0,5- 16bar</td> </tr> </table>	1 - 0,5- 3bar	} operating pressure range	2 - 0,5- 6bar	3 - 0,5- 10bar	4 - 0,5- 16bar
1 - 0,5- 3bar	} operating pressure range					
2 - 0,5- 6bar						
3 - 0,5- 10bar						
4 - 0,5- 16bar						

For example:

367.333 – but 0,5- 16bar = 367.334

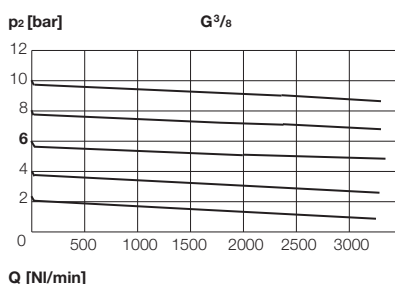
Accessories

	I
Panel mounting	367-33

Main spare parts

	I
Pressure gauge (M8x1)	ø40
display range 0- 6bar	673
0- 10bar	674
0- 16bar	675
0-25bar	676
Seal cone complete	323-119
Diaphragm complete	367-88

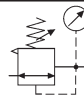
Rates of flow p₁ = p₂ + 2 bar



Q [NI/min]

Water Pressure Regulator

standard



ewo

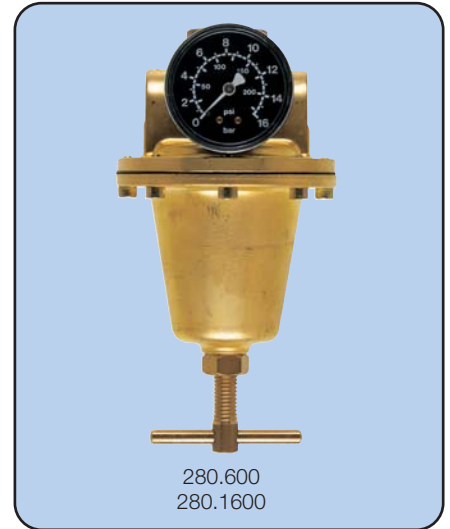
3

Pressure regulators protect water installations against line pressures that are too high. When the specification are observed, these can also be applied in industrial and commercial sectors. Deviations in pressure are avoided during use and the water consumption is reduced. The pressure set at different primary pressures is maintained at a constant level. Disturbing flow noises are reduced at the same time.

Technical Data

	Small	Medium	Large	Max
Nominal rates of flow*	2,5l/min	15l/min	24l/min	56l/min
Max. inlet pressure (P₁)		40bar (PN40)		
Operating temperature		+5 °C to +90 °C		
Mounting position		any		
Direction of flow		arrow		
Nominal width	DN6	DN12	DN20	DN25
Regulation	handwheel		toggle	
Reversing control hysteresis		~1 bar		
Weight	390g	1000g	3480g	5260g
Material			NBR	brass
	Diaphragm / Seals			
	Housing			

* measured at p₁ = 7 bar, p₂ = 6 bar and Δp = 1 bar



Water Regulators

pressure ranges [bar]	0,5-6	0,5-10	0,5-16	0,5-25
with pressure gauge				
Small G 1/4	286.599	286.600	286.601	286.602
Medium G 1/2	274.599	274.600	274.601	274.602
Large G 1	280.599	280.600	280.601	280.602
Max G 1 1/2	280.1599	280.1600	280.1601	280.1602
without pressure gauge				
Small G 1/4	286.399	286.400	286.401	286.402
Medium G 1/2	274.399	274.400	274.401	274.402
Large G 1	280.399	280.400	280.401	280.402
Max G 1 1/2	280.1399	280.1400	280.1401	280.1402

Size	Small	Medium	Large	Max
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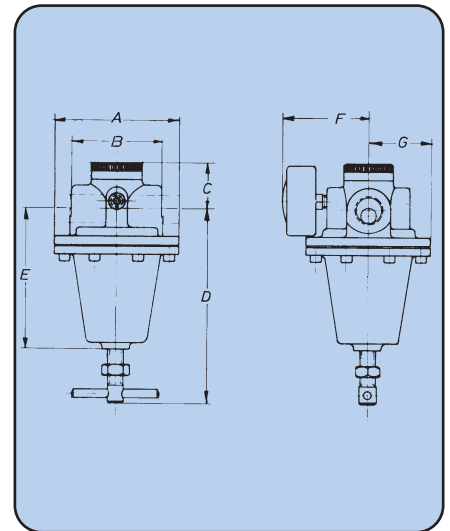
Accessories

Bracket mounting	286-88	274-48	280-239	280-239
Panel mounting	286-89	274-49	-	-
Panel thread	M20x1,5	M28x1,5		

Size	Small	Medium	Large	Max
------	-------	--------	-------	-----

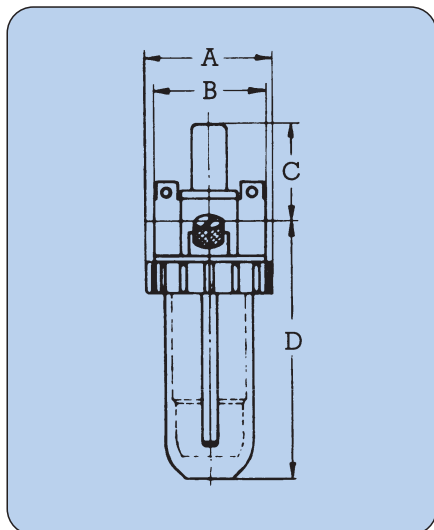
Main spare parts

Pressure Gauge	ø40	ø63	ø63	ø63
0- 6 bar	723	214	214	214
0-10 bar	734	215	215	215
0-16 bar	745	216	216	216
0-25 bar	745	217	217	217
Seal cone complete	286-124	274-82	280-171	280-172
Diaphragm complete	286-45	274-81	280-173	280-173



Dimensions [mm]

Size Port	Small G 1/4	Medium G 1/2	Large G 1	Max G 1 1/2
A	45	72	116	116
B	45	72	83	114
C	23	30	41	50
D	81	115	175	190
E	56	76	125	140
F	50	55	80	80
G	18	36	58	58



Dimensions [mm]

Size Port	Small			Medium	
	G ^{1/8} *	G ^{1/4} *	G ^{3/8}	G ^{3/8} *	G ^{1/2}
A	56	56	56	87	87
B	57	57	50	88	80
C	51	51	51	55	55
D	119	119	119	156	156

special option - how to order:

327.023 x

└─ M - metal bowl
└─ S - bowl protection

For example:

327.023 - with bowl protection = 327.023S

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. Port sizes G^{1/8} to G^{1/2}.

Technical Data

	Small	Medium
Nominal rates of flow**	1160 NI/min	4330 NI/min
Min. flow rate***	47 NI/min	117 NI/min
Max. operating pressure	16 bar/25 bar	
Operating temperature	0°C to +50°C / 0°C to +90°C	
Effective bowl volume	40 cm ³	135 cm ³
Mounting position	vertical	
Direction of flow	arrow	
Nominal width	DN8	DN15
Nominal pressure (housing)	PN25	
Weight	400g	890g
Material	NBR	
Seals	zinc alloy	
Housing	polycarbonate	
Plastic bowl		

** measured at p₁ = 6 bar and Δp = 1 bar

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

Recommended oil see chapter 8

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

Lubricators

Size	G ^{1/8}	G ^{1/4}	G ^{3/8}	G ^{1/2}
with plastic bowl				
Small	327.021*	327.022*	327.023	-
Medium	-	-	327.035*	327.036

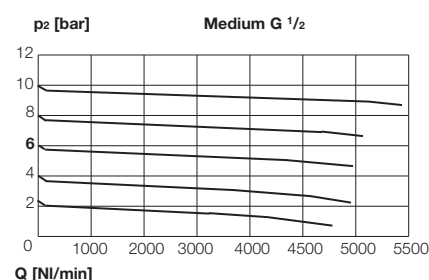
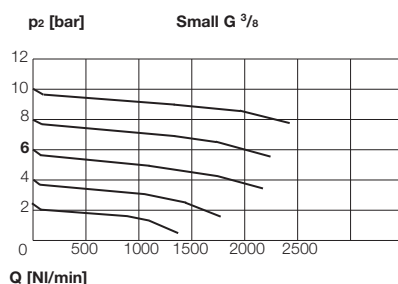
Accessories

	Small	Medium
Bracket mounting	322-24	322-25
Bowl protection for plastic bowl with bowl ring	322-130	322-131
Metal bowl with seal metal bowl	327-92	327-96
Bowl ring	287-25	297-2
Sight dome metal Kit	327-67	327-67

Main spare parts

	Small	Medium
Plastic bowl with seal plastic bowl	327-106	327-108
Bowl ring	287-25	297-2
Sealing ring for all bowls	287-6	297-10
Sight dome plastic Kit	330-92	330-92

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. Port sizes G 3/4 to G 1 1/2.

Technical Data

	Compact	Large	Max
Nominal rates of flow**	6330 NI/min	7330 NI/min	7830 NI/min
Min. flow rate***	117 NI/min	167 NI/min	167 NI/min
Max. operating pressure		16bar/25bar	
plastic bowl / metal bowl			
Operating temperature		0°C to +50°C / 0°C to +90°C	
plastic bowl / metal bowl			
Effective bowl volume	135cm ³	360cm ³	360cm ³
Mounting position		vertical	
Direction of flow		arrow	
Nominal width	DN20	DN20	DN25
Nominal pressure (housing)		PN25	
Weight	1270g	1700g	1970g
Material			
Seals		NBR	
Housing	zinc alloy	aluminium	aluminium
Plastic bowl		polycarbonate	

** measured at p₁ = 6bar and Δp = 1 bar

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

Recommended oil

 see chapter **8**

Oil containers made of plastic (polycarbonate) are attacked by oil additives, anti-frost or synthetic oils. We therefore recommend normal lubricating oils of approx. 22 to 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.

Lubricators

Size	G 3/4	G 1	G 1 1/4	G 1 1/2
with plastic bowl				
Compact	407.038*	407.039	-	-
Large	300.080*	300.090	-	-
Max	-	-	327.410*	327.411

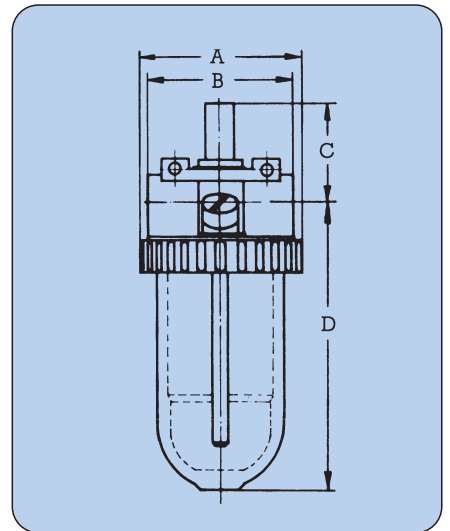
Accessories

	Compact	Large	Max
Bracket mounting	405-4	281-26	281-26
Bowl protection for plastic bowl			
bowl protection	322-131	281-24	281-24
Bowl ring	297-13	300-31	300-31
Metal bowl with seal			
metal bowl	327-96	327-112	327-112
Bowl ring	297-2	279-2	279-2
Sight dome metal			
Kit	327-67****	327-67	327-67

**** mounting

Main spare parts

	Compact	Large	Max
Plastic bowl with seal			
plastic bowl	327-108	327-111	327-111
Bowl ring	297-2	279-2	279-2
Sealing ring			
for all bowls	297-10	279-9	279-9
Sight dome plastic			
Kit	-	330-92	330-92



Dimensions [mm]

Size Port	Compact G 3/4*, G 1		Large G 3/4*, G 1		Max G 1 1/4*, G 1 1/2	
A	102	90	133	133	133	133
B	-	-	134	120	134	120
C	69	69	58	58	65	65
D	166	166	190	190	200	200

special option - how to order:

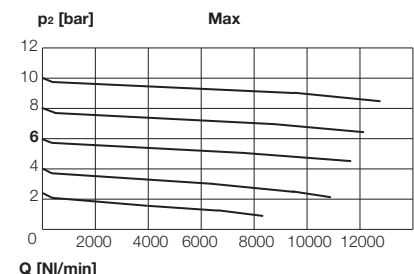
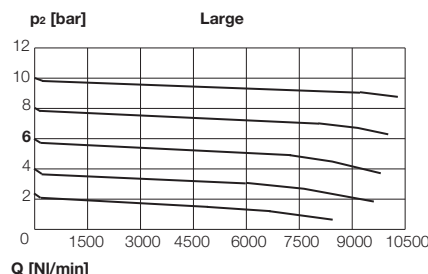
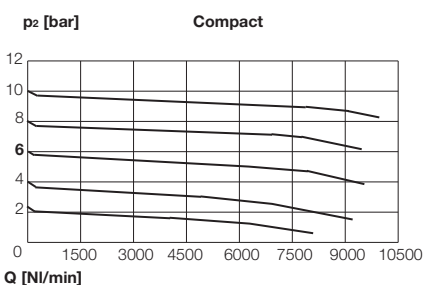
407.038 x

M - metal bowl
S - bowl protection

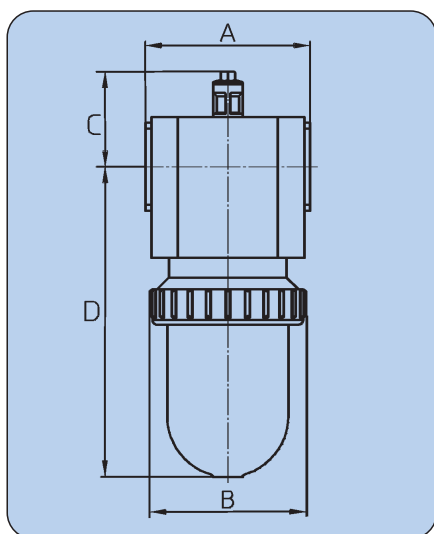
For example:

407.038 - with metal bowl = 407.038M

Rates of flow



* Inlet and outlet reduced



Dimensions [mm]

Size Port	Super	
	G 1 1/2*	G2
A	160	140
B	140	140
C	80	80
D	350	350

special option - how to order:

457.012 x

M - metal bowl

S - bowl protection

For example:

457.012 – but with **metal bowl** = 457.012**M**

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. Port sizes G 1 1/2 to G2.

Technical Data

	Super
Nominal rates of flow**	14000 NI/min
Min. flow rate***	170NI/min
Max. operating pressure	
plastic bowl / metal bowl	16bar/25bar
Operating temperature	
plastic bowl / metal bowl	0°C to +50°C / 0°C to +90°C
Effective bowl volume	600cm ³
Mounting position	vertical
Direction of flow	arrow
Nominal width	DN50
Nominal pressure (housing)	PN25
Weight	5290g
Material	
Seals	NBR
Housing	aluminium
Plastic bowl	polycarbonate

** measured at p₁ = 6bar and Δp = 1 bar

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

Recommended oil see chapter 8

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

Lubricators

with plastic bowl

Size	G 1 1/2	G 2
Super	457.011*	457.012

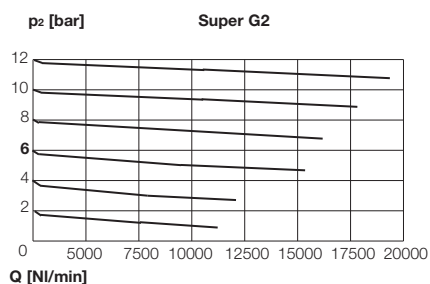
Accessories

	Super
Bracket mounting	457-12
Bowl protection for plastic bowl	
bowl protection	281-24
Bowl ring	300-31
Metal bowl with seal	
metal bowl	327-112
Bowl ring	279-2
Sight dome plastic	
Kit	423-179

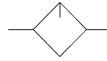
Main spare parts

	Super
Plastic bowl with seal	
plastic bowl	327-111
Bowl ring	279-2
Sealing ring	
for all bowls	279-9
Sight dome metal	
Kit	423-65

Rates of flow



Small Lubricator for Air Pressure Tools standard



ewo

3

Lubricators (for standard oil fog lubrication) to be mounted on compressed air tools that are used intermittently. Port sizes G^{3/8} (with reduction G^{1/4}). Fixed adjustment of oil dosage. Oil suction should be mounted opposite the filling screw, at the lowest point.

Technical Data

Max. operating pressure (P₁)	10bar (PN 10)
Operating temperature	0°C to +50°C
Mounting position	oil suction at lowest point
Direction of flow	any
Effective bowl volume	12cm ³
Nominal width	DN8
Weight	87g
Material	
Seals	NBR
Housing	aluminum
Plastic bowl	polycarbonate

Recommended oil see chapter 8

Oil containers made of plastic (polycarbonate) are attacked by oil additives, anti-frost or synthetic oils. We therefore recommend normal lubricating oils of approximately 22 to 32 cSt at 40°C.

Oil dosage

The permanently set dosage is about 0,4cm³ per 100 working strokes. One filling lasts for about 3000 cycles. The adjustment screw on the filler, seals with an O-ring and can be adjusted.

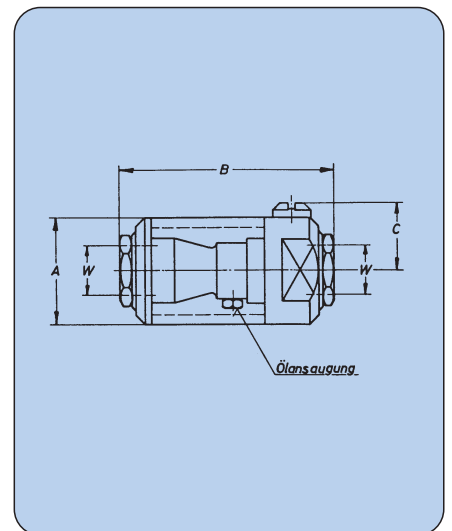
Fog-Lubricators

with plastic bowl

Size	G ^{1/4}	G ^{3/8}
I	317.12*	317.14

Main spare parts

Screw complete	317-56
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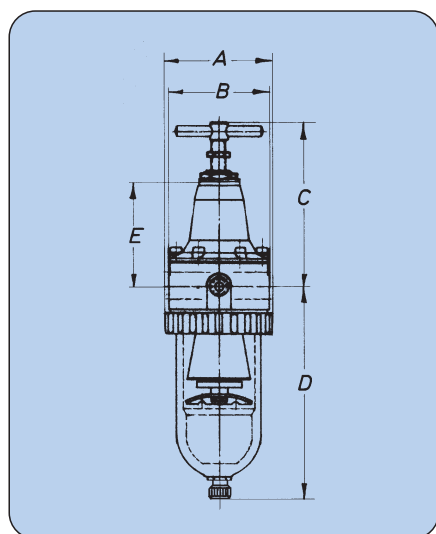
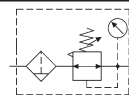
Dimensions [mm]

Size Port	I	
	G ^{1/4} *	G ^{3/8}
A	33	33
B	67	60
C	22	22

* Inlet and outlet reduced

Filter Pressure Regulator

standard



Dimensions [mm]

Size Port	Small			Medium	
	G 1/8*	G 1/4*	G 3/8	G 3/8*	G 1/2
A	56	56	56	87	87
B	61	61	54	90	82
C	99	99	99	134	134
D	131	131	131	172	172
E	67	67	67	87	87

special option - how to order:

324.xxx x

- M - metal bowl
 - S - bowl protection
 - 1 - 0,5- 3bar
 - 2 - 0,5- 6bar
 - 3 - 0,5-10bar
 - 4 - 0,5-16bar
 - thread (1G 1/8, 2G 1/4, 3+5G 3/8, 6G 1/2)
 - 2 - handwheel with gauge
 - 3 - toggle with gauge
 - 4 - handwheel without gauge
 - 5 - toggle without gauge
- operating pressure range

For example:

324.333 - but without gauge, 0,5- 10 bar
and metal bowl = **324.533M**

Compressed air filter and pressure regulator combined in one piece of equipment. The purified compressed air is kept at constant pressure regardless of fluctuations in the system or in the air consumption. This equipment provides secondary air exhaust (relieving) and almost complete independence of primary pressure. Diaphragm regulator with working pressure ranges from 0,5 to 6, 10 or 16 bar. Operation by toggle or handwheel. Special models also available (for example without air exhaust) upon request. Gauge can be mounted on the front or back. Port sizes G 1/8 to G 1/2.

Technical Data

	Small	Medium
Nominal rates of flow**	910 NI/min	2660 NI/min
Max. inlet pressure		
plastic bowl / metal bowl		16 bar/25 bar
Operating temperature		
plastic bowl / metal bowl	0°C to +50°C / 0°C to +90°C	
Effective bowl volume	25 cm ³	80 cm ³
Mounting position		vertical
Direction of flow		arrow
Nominal width	DN6	DN15
Nominal pressure (housing)		PN25
Dependence upon supply pressure	< 3%	< 2%
Reversing control hysteresis		~ 1 bar
Weight	840 g	2290 g
Material		
Seals		NBR
Housing		zinc alloy
Plastic bowl		polycarbonate
Filter element		sintered bronze

** measured at p₁ = 8 bar, p₂ = 6 bar and Δp = 1 bar

Filter Pressure Regulators 0,5-10bar

Size	G 1/8	G 1/4	G 3/8	G 1/2
Small	324.313*	324.323*	324.333	-
Medium	-	-	324.353*	324.363

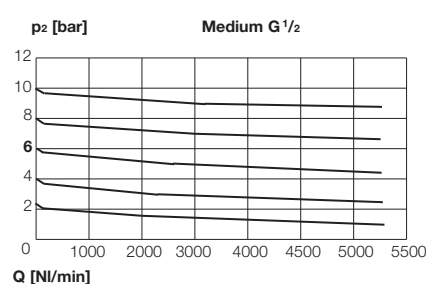
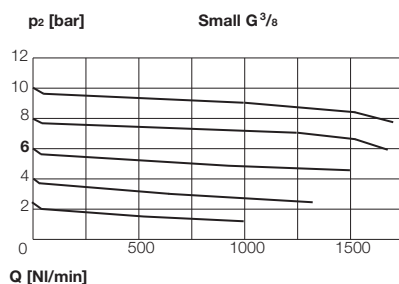
Accessories

	Small	Medium
Bracket mounting	323-68	280-132
Bowl protection for plastic bowl with bowl ring	322-130	322-131
Metal bowl with seal and manually-operated drain valve	324-101	324-109
Bowl ring	287-25	297-2

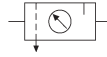
Main spare parts

	Small	Medium
Plastic bowl with seal and manually-operated drain valve	322-112	322-118
Bowl ring	287-25	297-2
Sealing ring for all bowls	287/6	297-10
Pressure Gauge	∅ 50	∅ 63
0- 3/ 6bar	42	213
0- 6/10bar	55	214
0-10/16bar	85	215
0-16/25bar	96	216
Seal cone complete	323-119	280-220
Diaphragm complete	323-152	280-221
Filter element		
40 μm (mounted)	287-10	267-37
5 μm	287-13	298-9

Rates of flow

p₁ = p₂ + 2 barDrain valves, see chapter [7](#)

Two-Piece Maintenance Unit standard

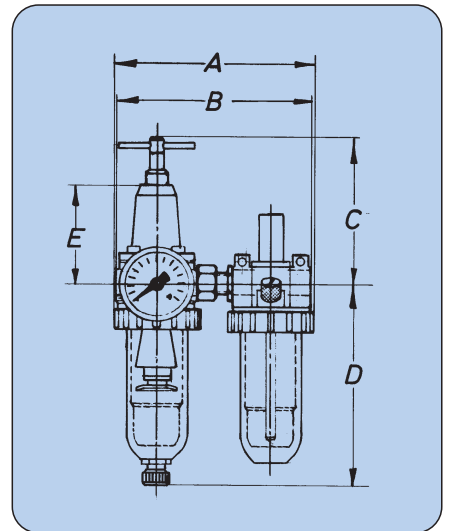
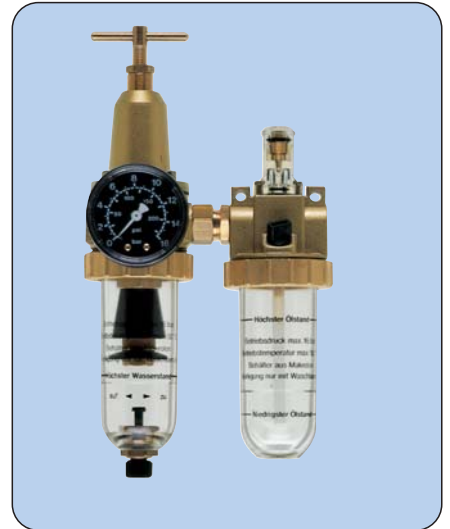


A maintenance unit consisting of a filter pressure regulator and lubricator with a double nipple. Can be combined with additional equipment to make other variations. Port sizes G^{1/8} to G^{1/2}.

Technical Data

	Small	Medium
Nominal rates of flow**	580 NI/min	1830 NI/min
Min. flow rate***	50 NI/min	117 NI/min
Max. inlet pressure plastic bowl/metal bowl	16bar/25bar	
Operating temperature plastic bowl/metal bowl	0°C to +50°C / 0°C to +90°C	
Effective bowl volume filter bowl/lubricator bowl	25cm ³ /40cm ³	80cm ³ /135cm ³
Mounting position	vertical	
Direction of flow	arrow	
Nominal width	DN6	DN15
Nominal pressure (housing)	PN25	
Dependence upon supply pressure	< 3%	< 2%
Reversing control hysteresis	~ 1 bar	
Weight	1400g	3670g
Material		
Diaphragm/Seals	NBR	
Housing	zinc alloy	
Plastic bowl	polycarbonate	
Filter element	sintered bronze	

** measured at p₁ = 8 bar, p₂ = 6 bar and Δp = 1 bar
*** Oil delivery 10 droplets/min at 6 bar



Recommended oil see chapter 8

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

Two-Piece Maintenance Units

0,5 - 10bar

Size	G ^{1/8}	G ^{1/4}	G ^{3/8}	G ^{1/2}
Small	331.21*	331.22*	331.23	-
Medium	-	-	331.35*	331.36

Accessories

	Small	Medium
Bracket mounting	323-68	280-132
Connector (double nipple)		
G ^{1/8}	185.29	-
G ^{1/4}	185.33	-
G ^{3/8}	185.55	185.55
G ^{1/2}	-	185.77

special option - how to order:

331.21 x
 M - metal bowl
 S - bowl protection

For example:

331.21 - but with bowl protection = 331.21S

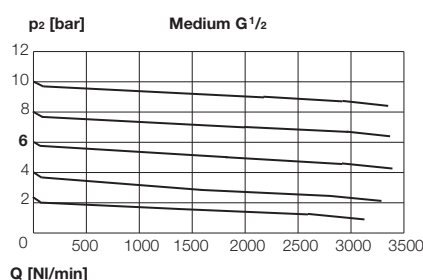
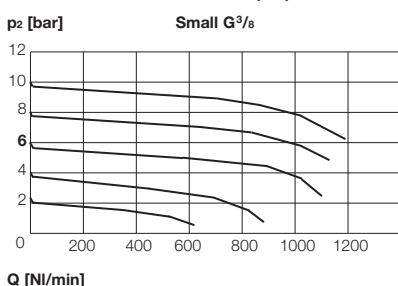
Dimensions [mm]

Size Port	Small			Medium	
	G ^{1/8} *	G ^{1/4} *	G ^{3/8}	G ^{3/8} *	G ^{1/2}
A	124	124	124	182	182
B	130	130	122	184	176
C	99	99	99	134	134
D	131	131	131	172	172
E	67	67	67	87	87

Filter pressure regulator, see page 26
Lubricators, see page 22

Drain valves, see chapter 7

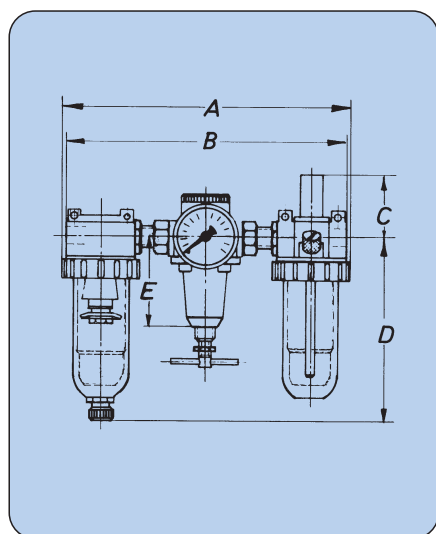
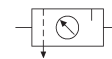
Rates of flow p₁=p₂+2bar



* Inlet and outlet reduced

Three-Piece Maintenance Unit

standard



Dimensions [mm]

Size Port	Small			Medium	
	G ^{1/8} *	G ^{1/4} *	G ^{3/8}	G ^{3/8} *	G ^{1/2}
A	196	196	196	281	281
B	197	197	197	282	274
C	51	51	51	55	55
D	135	135	135	172	172
E	67	67	67	85	85

Filter, see page 2

Pressure regulator, see page 13

Lubricators, see page 22

Drain valves, see chapter [7](#)

Maintenance unit consisting of a filter, a pressure regulator and lubricator with a double nipple. Numerous variations are possible by combining with other pieces of equipment. Port sizes G^{1/8} to G^{1/2}.

Technical Data

	Small	Medium
Nominal rates of flow**	500 NI/min	1830 NI/min
Min. flow rate***	50 NI/min	117 NI/min
Max. inlet pressure	16 bar/25 bar plastic bowl / metal bowl	
Operating temperature	0 °C to +50 °C / 0 °C to +90 °C plastic bowl / metal bowl	
Effective bowl volume	25 cm ³ /40 cm ³ filter bowl / lubricator bowl	80 cm ³ /135 cm ³
Mounting position	vertical	
Direction of flow	arrow	
Nominal width	DN6	DN15
Nominal pressure (housing)	PN25	
Dependence upon supply pressure	<3%	<2%
Reversing control hysteresis	~1 bar	
Weight	1780 g	3220 g
Material	NBR	
Diaphragm/Seals	zinc alloy	
Housing	polycarbonate	
Plastic bowl	sintered bronze	
Filter element		

** measured at p₁ = 8 bar, p₂ = 6 bar and Δp = 1 bar

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

Recommended oil see chapter [8](#)

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

Three-Piece Maintenance Units

0,5-10 bar

Size	G ^{1/8}	G ^{1/4}	G ^{3/8}	G ^{1/2}
Small	333.21*	333.22*	333.23	-
Medium	-	-	334.35*	334.36

Accessories

	Small	Medium
Bracket mounting	323-68	280-132
Connector (double nipple)		
G ^{1/8}	185.29	-
G ^{1/4}	185.33	-
G ^{3/8}	185.55	185.55
G ^{1/2}	-	185.77

special option - how to order:

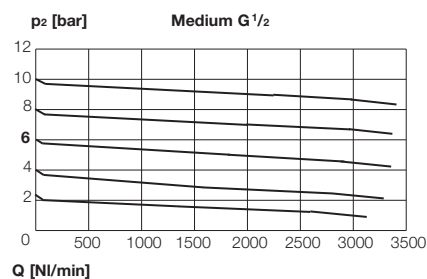
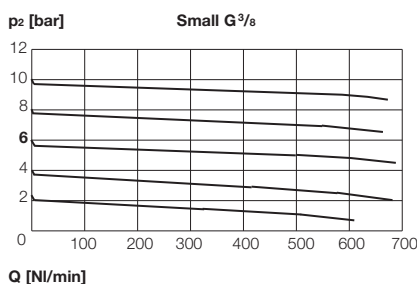
333.21 x

└── M - metal bowl
└── S - bowl protection

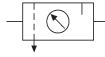
For example:

333.21 - but with bowl protection = 333.21S

Rates of flow p₁=p₂+2bar



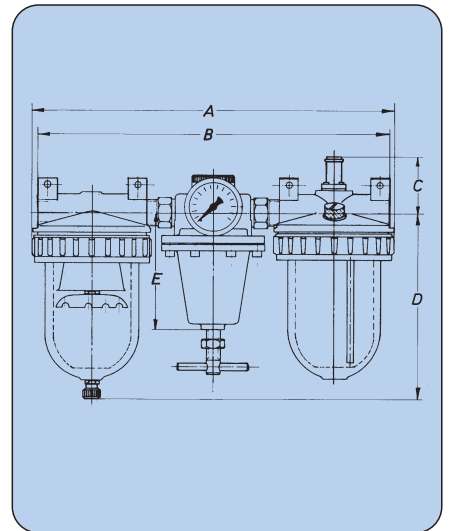
Three-Piece Maintenance Unit standard



Maintenance unit consisting of a filter, a pressure regulator and lubricator with a double nipple. Numerous variations are possible by combining with other pieces of equipment. Port sizes G^{3/4} to G1^{1/2}.

Technical Data	Compact	Large	Max
Nominal rates of flow**	5330 NI/min	6000 NI/min	6670 NI/min
Min. flow rate***	117 NI/min	167 NI/min	167 NI/min
Max. operating pressure plastic bowl / metal bowl		16bar/25bar	
Operating temperature plastic bowl / metal bowl		0°C to +50°C / 0°C to +90°C	
Effective bowl volume filter bowl / lubricator bowl	80 cm ³ /135 cm ³	260 cm ³ /360 cm ³	260 cm ³ /360 cm ³
Mounting position		vertical	
Direction of flow		arrow	
Nominal width	DN20	DN20	DN25
Nominal pressure (housing)		PN25	
Dependence upon supply pressure		< 2%	
Reversing control hysteresis		~ 1 bar	
Weight	5250g	7270g	9950g
Material		NBR	
Diaphragm/Seals		NBR	
Housing			
Filter/Lubricator	zinc alloy	aluminum	aluminum
Pressure Regulator	zinc alloy	brass	brass
Filter element		sintered bronze	
Plastic bowl		polycarbonate	

** measured at p₁ = 8 bar, p₂ = 6 bar and Δp = 1 bar
 *** Oil delivery 10 droplets/min at 6 bar



Recommended oil see chapter 8

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

Three-Piece Maintenance Units

0,5-10bar

Size	G ^{3/4}	G1	G1 ^{1/4}	G1 ^{1/2}
Compact	415.38*	415.39	-	-
Large	334.48*	334.49	-	-
Max	-	-	334.410*	334.411

Accessories

	Compact	Large	Max
Bracket mounting (2x to order)	406-17	281-26	281-26
Connector (double nipple)			
G ^{3/4}	415-13	415-13	-
G1	415-12	415-14	-
G1 ^{1/2}	-	-	280-228

special option - how to order:

415.38 x

M - metal bowl
 S - bowl protection

For example:

415.38 - but with bowl protection = 415.38S

Dimensions [mm]

Size Port	Compact G ^{3/4} , G1	Large G ^{3/4} , G1	Max G1 ^{1/4} , G1 ^{1/2}
A	290 290	426 426	426 426
B	315 290	382 370	382 370
C	69 69	58 58	58 58
D	176 176	206 206	206 206
E	90 90	130 130	130 130

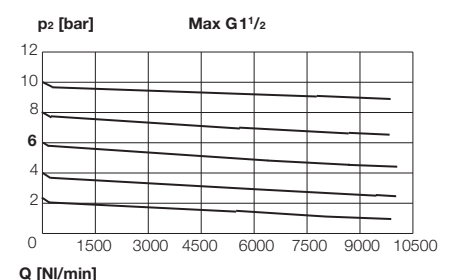
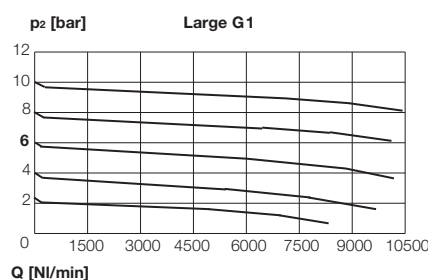
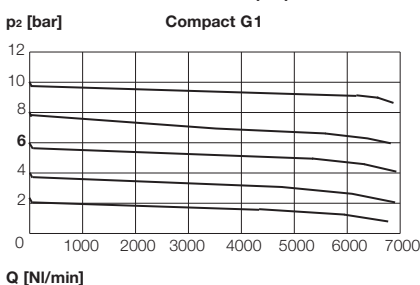
Filter, see page 3

Pressure regulator, page 14

Lubricators, see page 23

Drain valves, see chapter 7

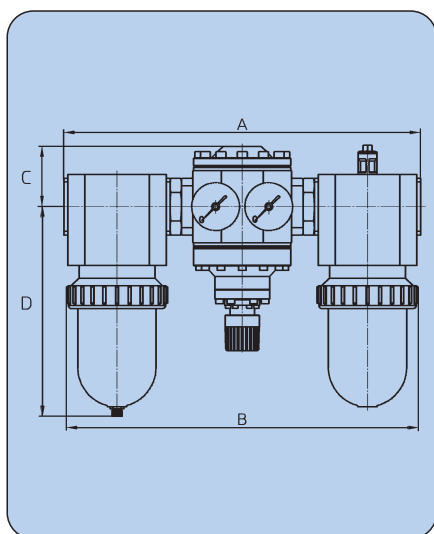
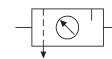
Rates of flow p₁=p₂+2bar



* Inlet and outlet reduced

Three-Piece Maintenance Unit

standard



Dimensions [mm]

Size Port	G 1/2*	Super G2
A	332	332
B	332	320
C	69	69
D	176	176

Filter, see page 4

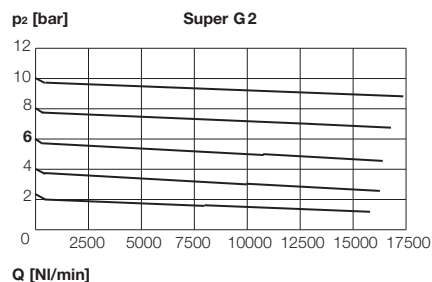
Pressure regulator, see page 15

Lubricators, see page 24

Drain valves, see chapter [7](#)

Rates of flow

$$p_1 = p_2 + 2 \text{ bar}$$



Maintenance unit consisting of a filter, a pressure regulator and lubricator with a double nipple. Numerous variations are possible by combining with other pieces of equipment. Port sizes G 1 1/2 to G2.

Technical Data

	Super
Nominal rates of flow**	11660 NI/min
Min. flow rate***	167 NI/min
Max. operating pressure plastic bowl / metal bowl	16 bar/25 bar
Operating temperature plastic bowl / metal bowl	0 °C to +50 °C / 0 °C to +90 °C
Effective bowl volume filter bowl / lubricator bowl	500 cm ³ /600 cm ³
Mounting position	vertical
Direction of flow	arrow
Nominal width	DN50
Nominal pressure (housing)	PN25
Dependence upon supply pressure	< 2 %
Reversing control hysteresis	~ 1 bar
Weight	17530g
Material	
Diaphragm/Seals	NBR
Housing	
Filter/Lubricator	aluminum
Pressure Regulator	alu alloy
Filter element	sintered bronze
Plastic bowl	polycarbonate

** measured at $p_1 = 8 \text{ bar}$, $p_2 = 6 \text{ bar}$ and $\Delta p = 1 \text{ bar}$

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

Recommended oil see chapter [8](#)

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

Three-Piece Maintenance Units

0,5- 10bar

Size	G 1 1/2	G2
Super	458.211*	458.212

Accessories

	Super
Bracket mounting (with 2 bracket)	458-1
Connector (double nipple) G2	454-9

special option - how to order:

458.212 x

└─ M - metal bowl
└─ S - bowl protection

For example:

458.212 – but with bowl protection = 458.212S

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