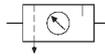


Three-Piece Maintenance Unit standard



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 9

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

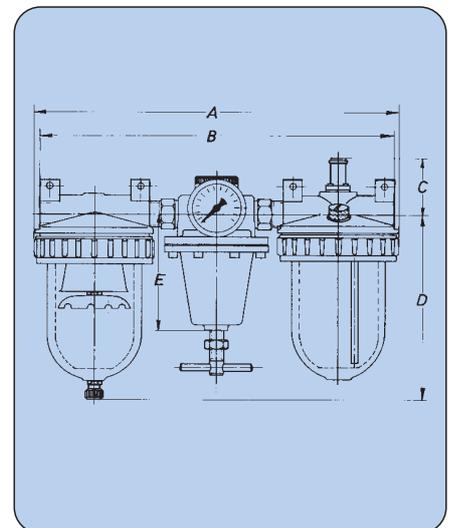
	Compact	Large	Max
Bracket mounting (2x to order)	406-17	281-26	281-26
Connector (double nipple)			
G ^{3/4}	415-13	415-13	-
G1	415-12	415-14	-
G1 ^{1/2}	-	-	280-228

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]

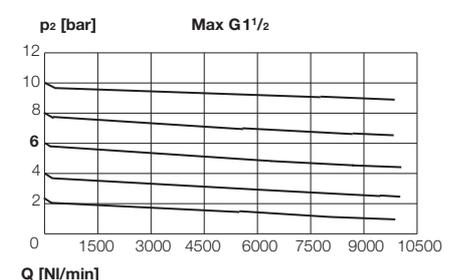
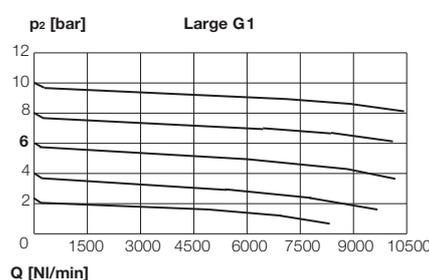
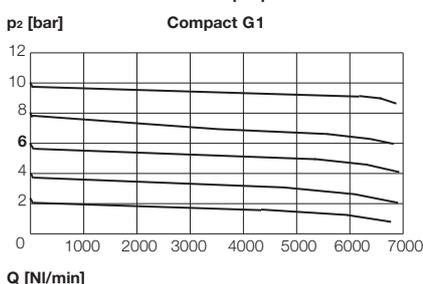
Size Port	Compact G ^{3/4} , G1	Large G ^{3/4} , G1	Max G1 ^{1/4} , G1 ^{1/2}
A	290 290	426 426	426 426
B	315 290	382 370	382 370
C	69 69	58 58	58 58
D	176 176	206 206	206 206
E	90 90	130 130	130 130

Filter, see page 3

Pressure regulator, page 14

Lubricators, see page 23

Rates of flow p₁=p₂+2bar



Q [NI/min]

Q [NI/min]

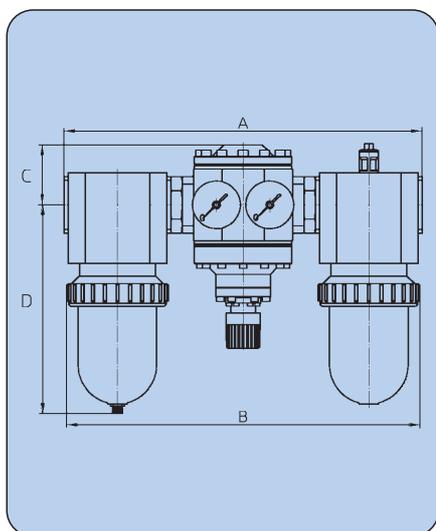
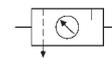
Q [NI/min]

Drain valves, see chapter 8

* Inlet and outlet reduced

Three-Piece Maintenance Unit

standard



Dimensions [mm]

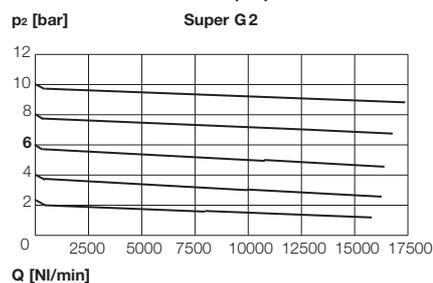
Size Port	G 1/2*	Super G2
A	332	332
B	332	320
C	69	69
D	176	176

Filter, see page 4

Pressure regulator, see page 15

Lubricators, see page 24

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



Drain valves, see chapter 8

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 9

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