



Service unit

2-piece

Size 4

865	866
G 3/4 (red.)	G 1
0.5 to 10 bar	0.5 to 16 bar



Characteristics

Type	865	866
Port	G 3/4 (red.)	G 1
Pressure gauge port	G 1/4	
Type of construction	- Centrifugal filter Sintered filter element - Diaphragm pressure regulator with self-relieving design - Proportional lubricator	
Input pressure p ₁	Max. 16 bar with plastic bowl Max. 25 bar with metal bowl	
Input pressure p ₁ with fully-automatic drain	Max. 16 bar Min. 1.5 bar	
Control range p ₂	0.5 to 10 bar / 0.5 to 16 bar	
Mounting position	Vertical, drain valve at bottom	
Mounting type	Bracket on regulator	
Medium temperature	Max. 60 °C (other temperature	
Ambient temperature	Max. 60 °C ranges on request)	
Filter rating	40 µm	
Bowl capacity	Filter: Max. 300 cm ³ condensate Oil-mist lubricator: 550 cm ³	
Condensate drain	Manual, semi-automatic Fully-automatic on request	
Weight [g]	4500	

Ordering information



86X X

Order example: 866 K

Port	
865	G 3/4
866	G 1
Options	
K	Plastic bowl
M	Metal bowl
S	Bowl guard

Please use the suffix »A« to order fully-automatic drain

Description

- Standard design
- **Independent of inlet pressure**
- Pressure gauge Ø63 included
- Filter rating acc. to ISO 4003
- Oil can be filled under pressure

Recommended oil

Special pneumatic oil 32

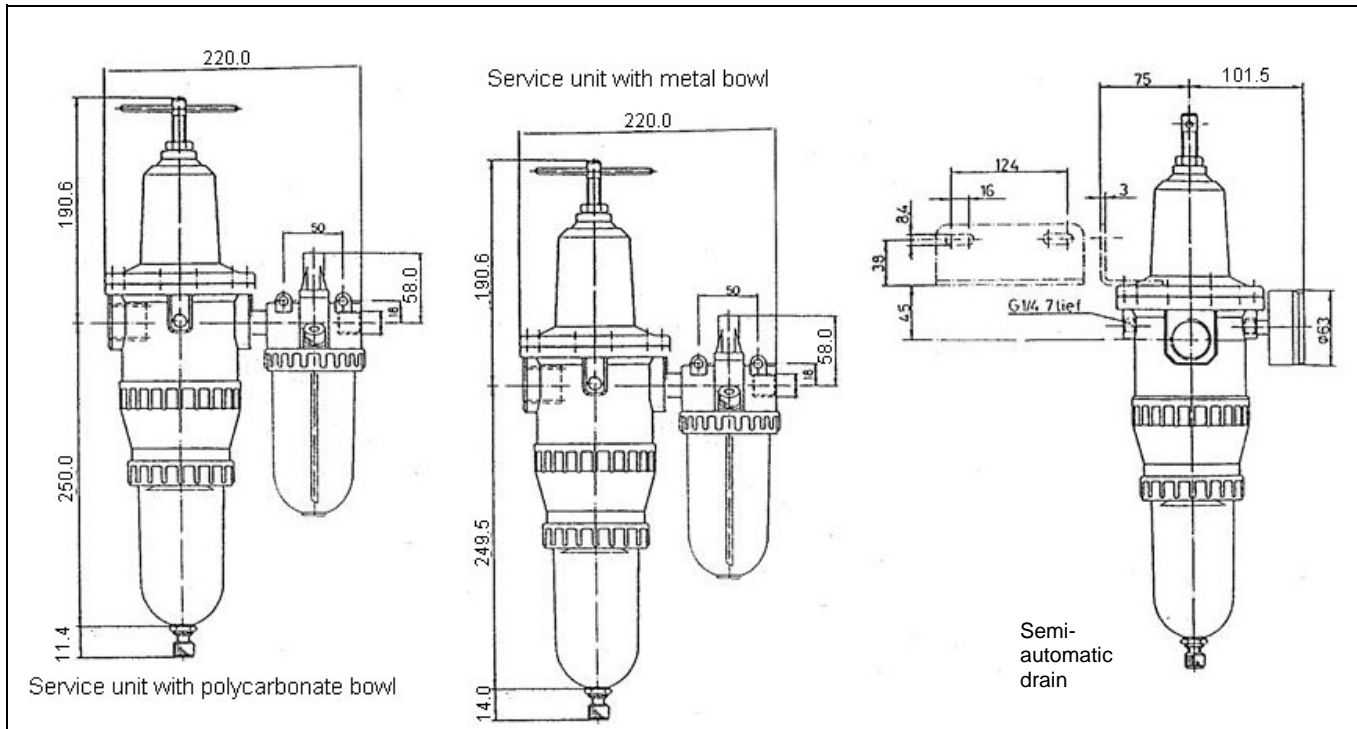
Viscosity at 40 °C: 32 cSt [mm²/s]
 Temperature range: -35 to +85 °C

Oil bowls made of plastic (polycarbonate) are corroded by additives, anti-freeze agents and synthetic oils. We therefore recommend using mineral oils from approx. 22 to 32 cSt or up to 68 cSt in conjunction with impact tools. Metal bowls and metal sight domes should be used for all other oil grades.

Materials

Part	Material
Head piece (body)	Al
Spring bonnet	Al-brass
Diaphragm	NBR-brass
Pressure spring	Galvanised steel
Valve cone	NBR-brass
Counter-pressure spring	Stainless steel
O-ring 68x3	NBR
O-ring 87x3	NBR
Filter element 40 µm	Polyethylene
Condensate bowl	Polycarbonate
Oil bowl	Polycarbonate
Oil fill plug	POM-NBR
Sight dome	PA
Sight dome – metal	Zinc-glass-NBR

Dimensions [mm]

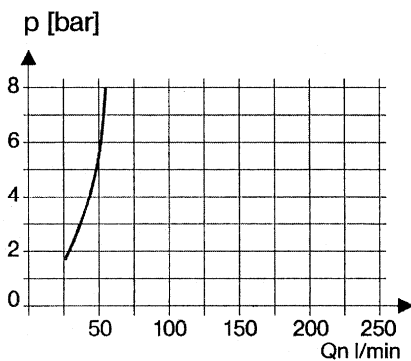


Flow rates

Flow rates measured under normal conditions

Output pressure p_2		6
Nominal flow	QN m^3/h	240
($\Delta p = 1 \text{ bar}$)	QN l/min	4000

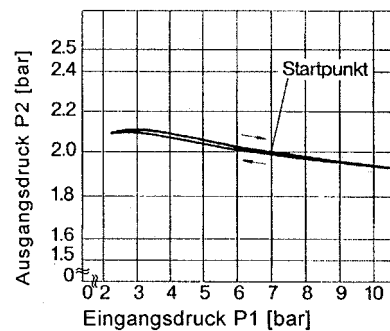
Lubricator operating limit



Hysteresis

Hysteresis of p_2 as a function of rising (falling) p_1 at a constant draw-off rate QN 20 l/min
 Basic setting (starting point): p_1 : 7.0 bar
 p_2 : 2.0 bar

QN = 20 l/min



Accessories

Designation	Order No.
Mounting bracket	H 86
Metal bowl (filter)	650/12
Metal bowl (lubricator)	740/14
Plastic bowl (filter)	650/2-HA
Plastic bowl (lubricator)	740/04
Bowl guard, incl. swivel nut	SK 03
Fully-automatic drain (external)	65/0-N
Fully-automatic drain (internal)	655.6.900

Main spare parts

Part	Part No.
→ Set of wearing parts	22.643.4
Sight dome (polycarbonate)	760.7.990
Sight dome (metal)	760.7.991
Filter element 40 μm	655.6.940
Pr. gauge \varnothing 63 mm, G1/4	
0 to 10 bar	217-KD
0 to 16 bar	218-KD