



## Service unit

**3-pie**
**Size 2**
**850 B**  
**G 3/8**
**0.5 to 10 bar**  
**0.5 to 16 bar**


## Characteristics

Type	850 B
Port	G 3/8
Pressure gauge port	G 1/4
Type of construction	- Centrifugal fi Sintered filter element - Diaphragm pressure regulat ith self-relieving design - Proportional lubric
Input pressure $p_1$	Max. 16 bar with plastic bowl Max. 25 bar with metal bowl
Control range $p_2$	0.5 to 10 bar, 0.5 to 16 bar Other control ranges on request
Mounting position	Vertical, drain plug at bottom
Mounting type	Bracket on regulator Bracket on filter / lubricator
Medium temperature	-10 to 60 °C (other temperature
Ambient temperature	-10 to 60 °C ranges on request)
Filter rating	40 µm
Bowl capacity	Filter: Max. 50 cm <sup>3</sup> condensate Oil-mist lubricator: 110 cm <sup>3</sup>
Condensate drain	Manual, semi-automatic Fully-automatic on request
Weight [g]	1800

## Materials

Part	Material
Head piece (body)	Zinc - Z 410
Spring bonnet	Z 410-brass
Diaphragm	NBR-brass
Pressure spring	Galvanised steel
Valve cone	NBR-brass
Counter-pressure spring	Stainless steel
O-ring 58 x 3	NBR
Filter element 40 µm	Bronze
Condensate bowl	Polycarbonate
Air deflector	PS
Baffle	PE
Oil bowl	Polycarbonate
Oil fill plug	POM-NBR
Sight dome	PA
Sight dome – metal	Zinc-glass-NBR

## Ordering information



Port	
850 B	G 3/8 with plastic bowl
Options	
M	Metal bowl
S	Bowl guard

**Order example: 850 B/M**

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

## Description

- Standard design
- Independent of inlet pressure
- Pressure gauge Ø 50 mm included
- Filter rating acc. to ISO 4003, glass bead test
- Oil can be filled under pressure

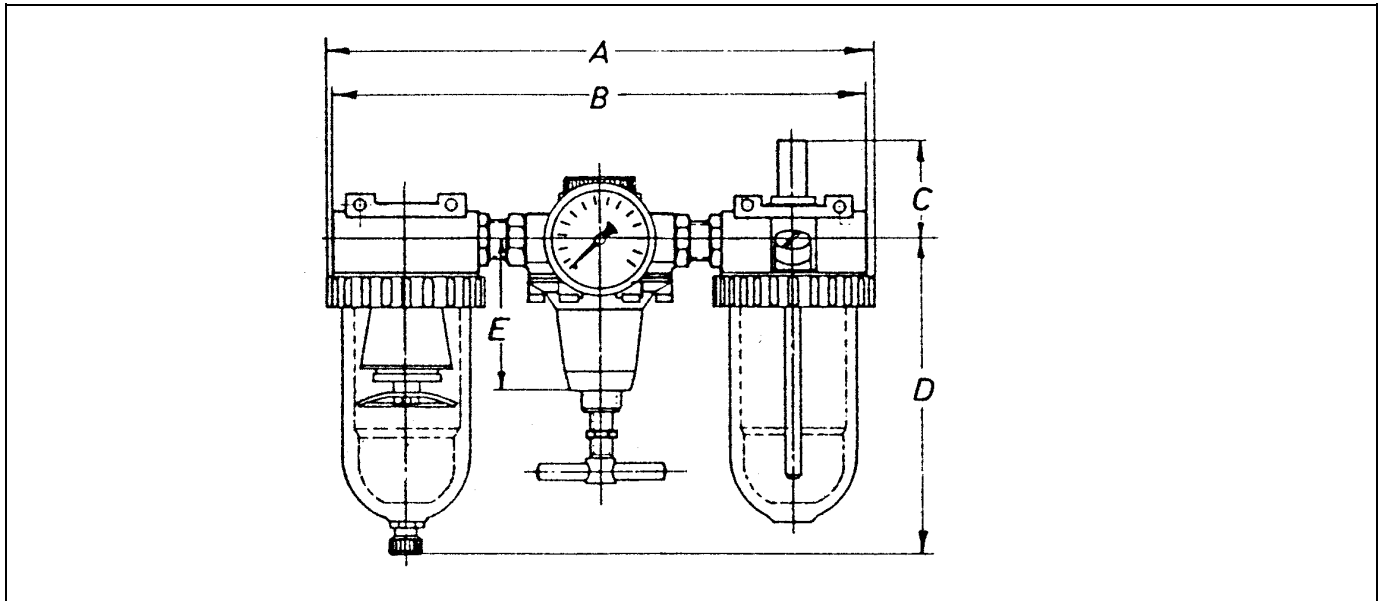
## Recommended oil

### Special pneumatic oil 32

 Viscosity at 40 °C: 32 cSt [mm<sup>2</sup>/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.


**Dimensions [mm]**

Port	Dimensi				Pr. gauge
	A	B	C	D	
850 B + 850 B/S	232.0	2	51.0	145.7	Ø 50
850 B/M	232.0	225.4	51.0	159.0	Ø 50

**Flow rates**

 Flow rates at  $p_1 = 8 \text{ bar}$ 

Output pressure $p_2 = [\text{bar}]$		6
Nominal flow ( $\Delta p = 1 \text{ bar}$ )	QN $\text{m}^3/\text{h}$	84
	QN $\text{l}/\text{min}$	1400

**Accessories**

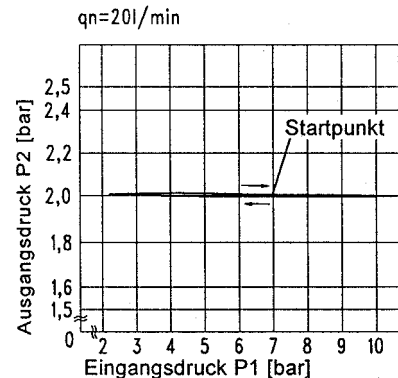
Designation	Order No.
Mounting bracket with nut and washer	75/2
Mounting bracket	H 801
Metal bowl (filter)	650/11
Metal bowl (lubricator)	740/13
Plastic bowl (filter)	650/1-HA
Plastic bowl (lubricator)	740/03
Bowl guard	SK 02
Fully-automatic drain (external)	65/0-N
Fully-automatic drain (internal)	655.6.900

**Main spare parts**

Part	Part No.
→Set of wearing parts	22.620.4
Sight dome (polycarbonate)	760.7.990
Sight dome (metal)	760.7.991
Filter element 40 $\mu\text{m}$	652.6.940
Pr. gauge Ø 50 mm, G1/4	206-KD
	207-KD

**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**):  $p_1: 7.0 \text{ bar}$   
 $p_2: 2.0 \text{ bar}$


**Lubricator operating limit**
