



Filter regulators

Size 1

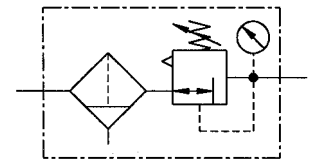
578.020 578.030

G 1/4

G 3/8

0.5 to 10 bar

0.5 to 16 bar



Characteristics

Type	578.020	578.030
Port	G 1/4	G 3/8
Pressure gauge port	G 1/4	
Type of construction	Diaphragm pressure regulator with self-relieving design Centrifugal filter Sintered filter element Special versions on request	
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 (standard) 0.5 to 3 bar / 0.5 to 6 bar on request	
Mounting position	Vertical, drain plug at bottom	
Mounting type	Bracket	
Medium temperature	Max. 60 °C (other temperature	
Ambient temperature	Max. 60 °C ranges on request)	
Filter rating	5 µm	
Bowl capacity	Max. 35 cm ³ condensate	
Condensate drain	Manual, semi-automatic Fully-automatic on request	
Weight [g]	660 / 770 with pressure gauge	

Ordering information



Order example: 578.020 K-HA

Port	
020	G 1/4
030	G 3/8
021	G 1/4 - p ₂ : 0.5 to 16 bar
031	G 3/8 - p ₂ : 0.5 to 16 bar
Options	
K-HA	Plastic bowl
M	Metal bowl
S	Bowl guard

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

Description

- Standard design
- Pressure setting can be locked with lock nut on adjusting screw
- Flow direction indicated by arrows
- Entry in direction of arrow
- Independent of inlet pressure
- Pressure gauge Ø 50 mm included
- Pressure gauge can be mounted at both ends
- Filter rating acc. to ISO 4003
- Bowl guard can be retrofitted

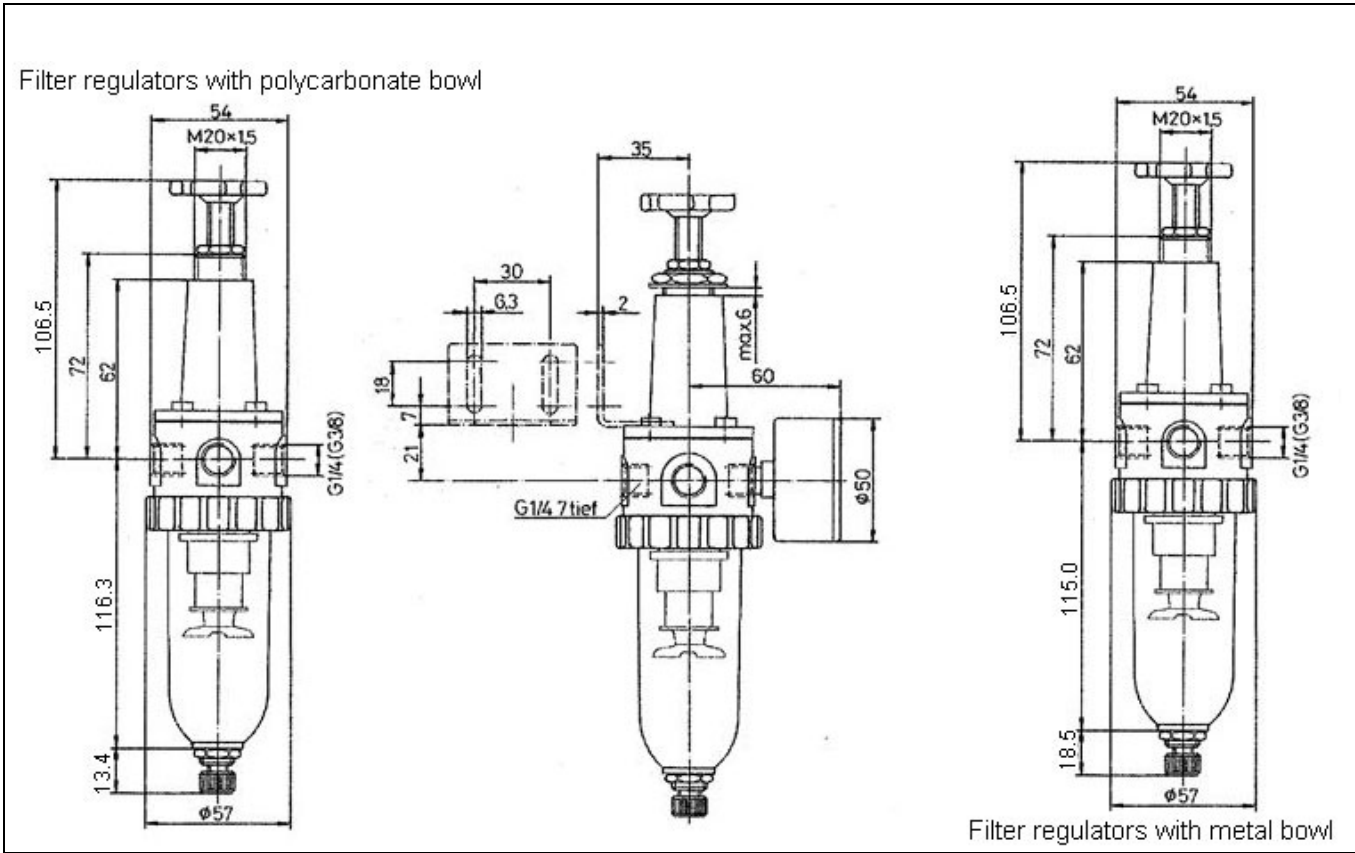
Accessories

Designation	Order No.
Nut M 20 x 1.5 and washer	74/1
Mounting bracket with nut and washer	75/1
Fully-automatic drain (external)	65/0-N
Fully-automatic drain (internal)	655.6.900
Bowl guard	SK 01
Filter element 5 µm	611.6.905
Plastic bowl	640/2-HA
Metal bowl	640/12

Materials

Part	Material
Head piece (body)	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 37 x 2 →	NBR
Filter element 5 µm	Polyethylene
Condensate bowl	Polycarbonate
Baffle	PA

Dimensions [mm]

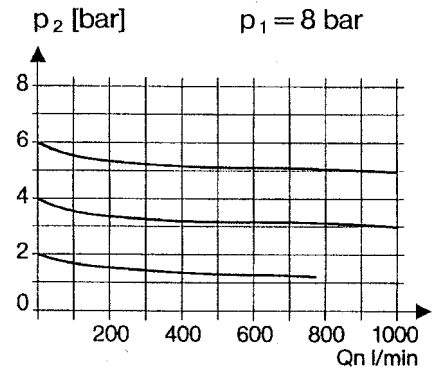


Flow rates

Flow rates at $p_1 = 8$ bar

Output pressure p_2		6
Nominal flow ($\Delta p = 1$ bar)	QN m^3/h	54
	l/min	900

Flow characteristic



Hysteresis

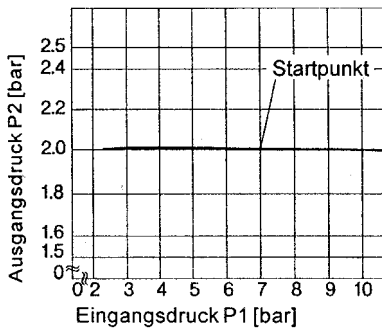
Hysteresis of p_2 as a function of rising (falling)

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



Main spare parts

Part	Part No.
→ Set of wearing parts	22.520.4
- Diaphragm	
- Valve cone	
- O-ring 37x2	
Pr. gauge $\varnothing 50$ mm, G1/4	
0 to 4 bar	204-KD
0 to 6 bar	205-KD
0 to 10 bar	206-KD
0 to 16 bar	207-KD