



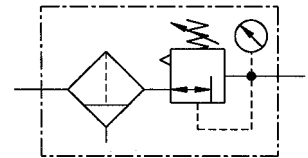
Filter regulators

Size 2

678.020

G 3/8

0.5 to 10 bar
0.5 to 16 bar



Characteristics

Type	678.020
Port	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 ranges on request)
Ambient temperature	Max. 60 °C (other temperature ranges on request)
Filter rating	40 µm
Bowl capacity	Max. 50 cm ³ condensate
Condensate drain	Manual, semi-automatic, Fully automatic on request
Weight [g]	1250 / 1390 with pressure gauge

Ordering information



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

Order example: 678.020 K-HA

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

Description

- Standard design
- Pressure setting can be locked by means of lock nut on adjusting screw
- Flow direction indicated by arrows
- Entry in direction of arrow
- Independent of inlet pressure
- Pressure gauge Ø 63 mm included
- Pressure gauge can be mounted at both ends
- Filter rating acc. to ISO 4003, glass bead test
- Bowl guard can be retrofitted

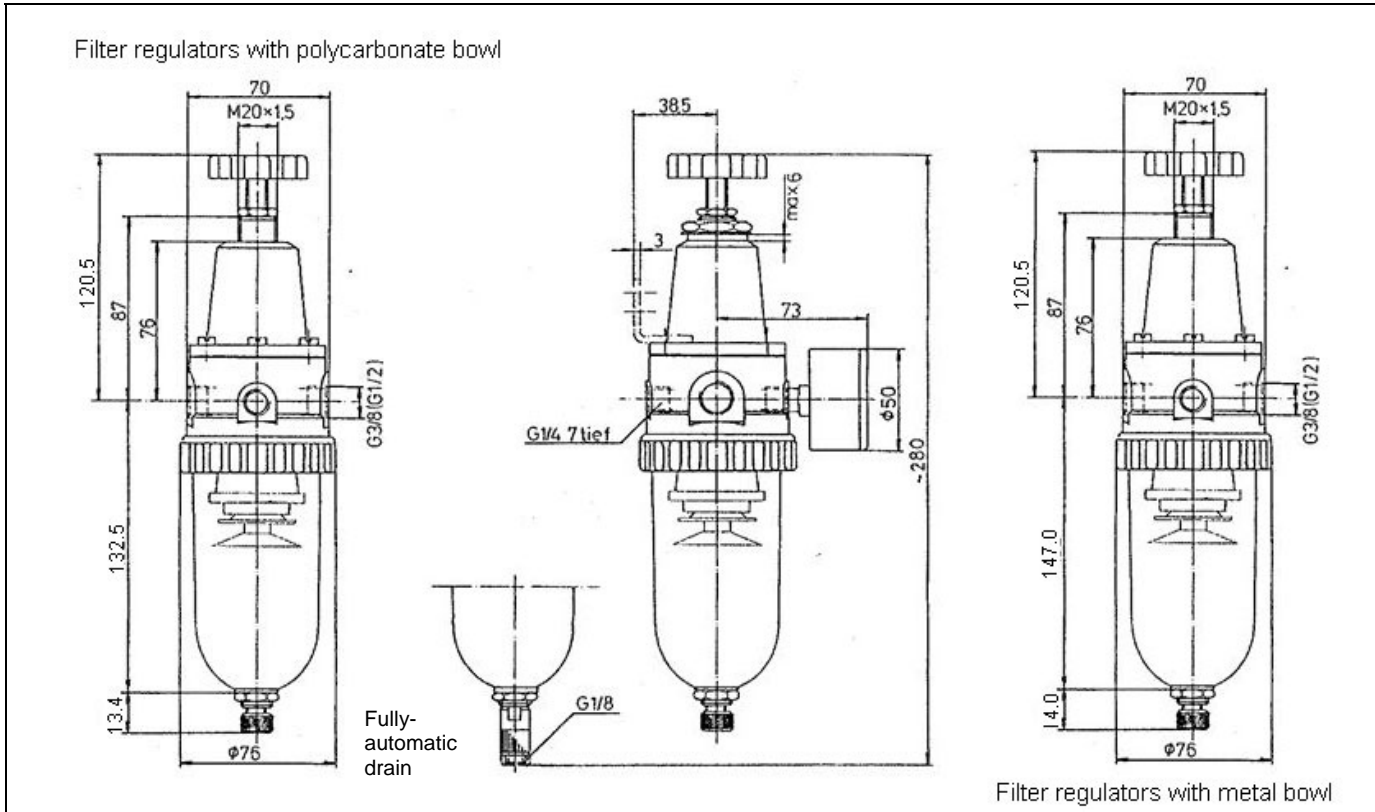
Accessories

Designation	Order No.
Nut M 20 x 1.5 and washer	74/1
Mounting bracket with nut and washer	75/2
Fully-automatic drain (external)	65/0-N
Fully-automatic drain (internal)	655.6.900
Bowl guard	SK 02
Filter element 40 µm	652.6.940
Plastic bowl	650/1-HA
Metal bowl	650/11

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 58 x 3	→ NBR
Filter element 40 µm	Bronze
Condensate bowl	Polycarbonate
Baffle	PA

Dimensions [mm]

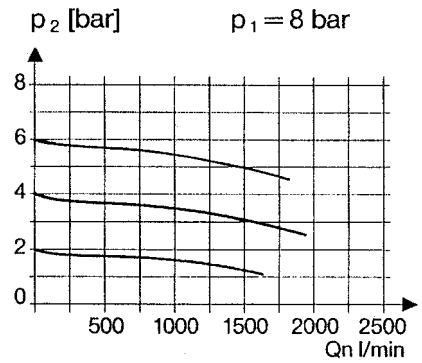


Flow rates

Flow rates at $p_1 = 8$ bar

Output pressure p_2		6
Nominal flow ($\Delta p = 1$ bar)	QN m^3/h	90
	l/min	1500

Flow characteristic



Hysteresis

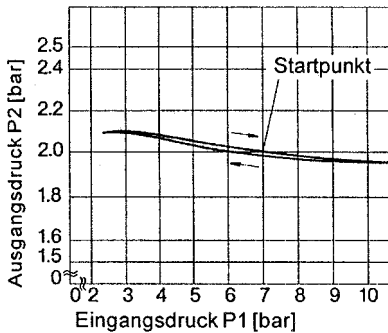
Hysteresis of p_2 as a function of rising (falling)

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 - Diaphragm - Valve cone - O-ring 58 x 3	22.602.4
Pr. gauge $\varnothing 50$ mm, G1/4 0 to 4 bar	215-KD
0 to 6 bar	216-KD
0 to 10 bar	217-KD
0 to 16 bar	218-KD