

# Compressed air conditioning



# Characteristics

Туре	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 <sub>1</sub>	Max. 16 bar with plastic bowl Max. 25 bar with metal bowl	
Input pressure p <sub>1</sub>	Max. 16 bar	
with fully-automatic drain	Min. 1.5 bar	
Control range p <sub>2</sub>	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	-10 to 60 °C (other temperature	
Ambient temperature	-10 to 60 °C ranges on request)	
Filter rating	40 µm	
Bowl capacity	Max. 50 cm <sup>3</sup> condensate	
Condensate drain	Manual, semi-automatic,	
	Fully automatic on request	
Weight [g]	1250 / 1390 with pressure gauge	

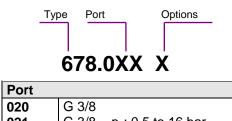
## Materials

Part		Material
Head piece (body)		Z 410
Spring bonnet		Z 410-brass
Diaphragm	$\rightarrow$	NBR-brass
Pressure spring		Galvanised steel
Valve cone	$\rightarrow$	NBR-brass
Counter-pressure spring		Stainless steel
O-ring 58 x 3	$\rightarrow$	NBR
Filter element 40 µm		Bronze
Condensate bowl		Polycarbonate
Baffle		PA

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# **Ordering information**



S	Bowl guard	
М	Metal bowl	
K-HA	Plastic bowl	
Options		
021	G 3/8 - p <sub>2</sub> : 0.5 to 16 bar	
020	G 3/8	

## 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  $\varnothing$  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	

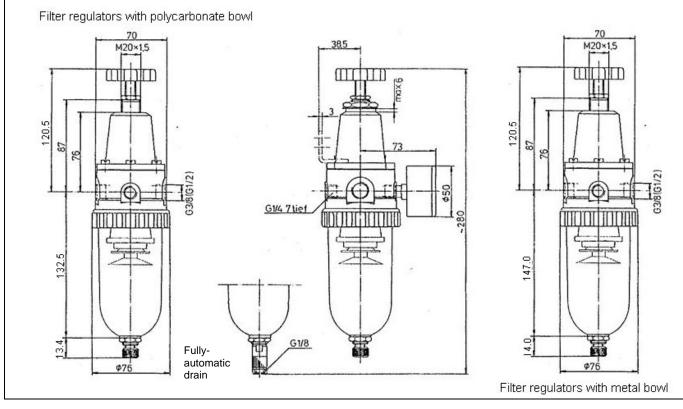
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# **Dimensions** [mm]

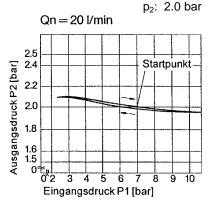


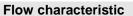
#### Flow rates

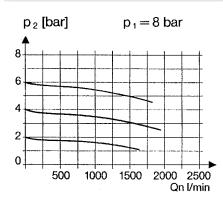
Flow rates at $p_1 = 8$ bar				
Output pressure p <sub>2</sub>		6		
Nominal flow ( $\Delta_p = 1$ bar)	QN m³/h	90		
(φ,	l/min	1500		

#### 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







#### Main spare parts

Part	Part No.
Set of wearing parts	22.602.4
- Diaphragm	
- Valve cone	
- O-ring 58 x 3	
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