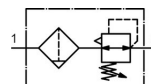


Filter regulator G1" Series Modul FR03



Design type	Diaphragm pressure regulator with secondary venting, Centrifugal force principle filter, Sintered filter element, semi-automatic drain valve and Intrinsic air consumption of max. 0,5NI/min
Function	Control of secondary pressure
Locking mechanism	Pressure setting can be locked by pressing in the rotary knob
Filter element	5µm
Connection	G1" according to ISO228/1
Materials	Housing Aluminium, Condensate reservoir Polycarbonate or Metal, Seals NBR, Spring cap POM
Medium	Compressed air
Medium temperature	with plastic bowl 0...+60°C, with metal bowl 0...+60°C (with appropriately conditioned compressed air - 10...+60°C)
Ambient temperature	with plastic bowl 0...+60°C, with metal bowl -10...+60°C
Inlet pressure	maximum 16bar, with automatic drain valve 1,5...16bar
Control ranges	0,1...3bar and 0,5...10bar (0,2...6bar and 0,5...16bar on request)
Flow direction	is marked by an arrow
Mounting type	Installation in piping system or Wall mounting using mounting bracket
Mounting position	vertical, Drain screw bottom
Scope of delivery	including pressure gauge

Type code

FR03 - 10 H - 0,1/3 - P - A	
Connection	1" 10
Flow rate	high flow rate H
Pressure range	0,1...3bar 0,1/3
	0,2...6bar 0,2/6
	0,5...10bar 0,5/10
	0,5...16bar 0,5/16
Reservoir	Plastic reservoir (Leave blank)
	Plastic reservoir with protective cage P
	Metal container M
Drain valve	semi-automatic drain valve (Leave blank)
	automatic drain valve A



Technical drawings of two types of drain valves, showing front, side, and detailed views with dimensions in mm.

Semi-automatic drain valve (left):

- Front view: Total height 408 mm, main body height 155 mm, base diameter $\varnothing 28$.
- Side view: Main body height 128.2 mm, base height 253.2 mm, total height 381.4 mm. Flange diameter 100 mm, mounting hole diameter 58 mm. Connection: G3/4x1.

Automatic drain valve (right):

- Front view: Total height 386.5 mm, main body height 101.5 mm, base height 253.2 mm, total height 381.4 mm. Flange diameter 103 mm, mounting hole diameter 58 mm. Connection: G1/4x7.
- Side view: Main body height 101.5 mm, base height 253.2 mm, total height 386.5 mm. Flange diameter 103 mm, mounting hole diameter 58 mm. Connection: G1/4x7.
- Detail view: Shows the internal float valve mechanism with dimensions: 105, 98, 68, 12, 16, 16, 8.4, 13, 11, 12, 58, 8, 106.4, 56, 38, 11, 69, 3, 70.5, $\varnothing 27$, 38, 101.5, $\varnothing 33$, 386.5, 103, G1/4x7, G1/8.

*Flow rate data at inlet pressure of 8bar, outlet pressure of 6bar and 1bar Pressure drop

Graph showing the pressure ratio p_2 [bar] versus the flow rate q_n [l/min] for a centrifugal compressor. The curves represent the performance for different inlet pressures p_1 (8 bar, 10 bar, 12 bar). The dashed lines indicate the isentropic efficiency curves, with values 6.3 and 5.3 marked.

Designation	Type
Holding angle with 2 screws	MMB03-34VH/10H

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