

Flow Control Valve, Adjustable

Type GR-M 5 x 2-B
GR-1/8 x 2-B



These valves are used for regulating flow. (For example, to control the piston speed of a single-acting or double-acting cylinder or as needle valves for back pressure sensing nozzles.) Each adjustment screw allows setting the flow of air in one direction. Air is allowed to flow freely in the opposite direction through the open check valve. The adjustment screw regulates flow in the direction shown on the housing.

Accessories:

Protective cap, Type GRK-..., to prevent tampering

For GR-M 5-B:

Order No. 6436 GRK-M 5



For GR-1/8-B:

Order No. 2105 GRK-1/8

Material: Plastic

Hex Nut, Type GRM-...,

for front panel mounting

For GR-M 5-B:

Order No. 6444 GRM-M 5

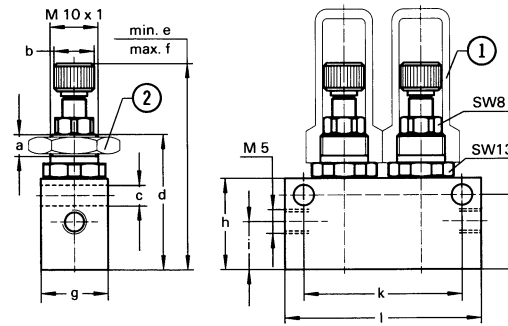


For GR-1/8-B:

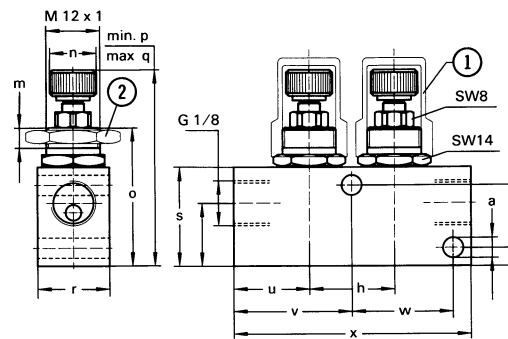
Order No. 2107 GRM-1/8

Material: Steel

Type GR-M 5 x 2-B



Type GR-1/8 x 2-B

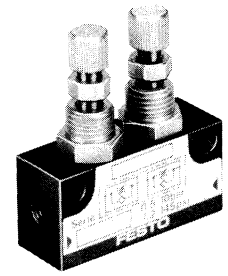


→ Flow control direction

① Tamper-proof cap Type GRK } Order Separately

② Hexagon nut Type GRM

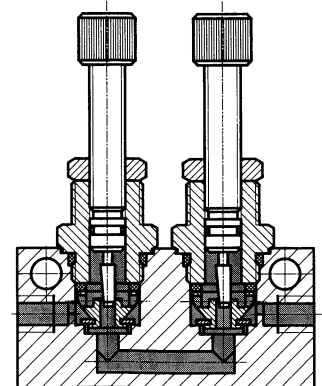
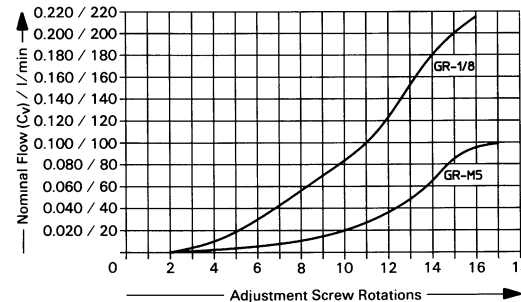
SW = Wrench size (mm)



Dimensions

a	0.18 in / 4.5 mm
b	0.33 in / 8.4 mm
c	0.17 in / 4.3 mm
d	1.11 in / 28.2 mm
e	1.54 in / 39.2 mm
f	1.70 in / 43.3 mm
g	0.55 in / 14 mm
h	0.75 in / 19 mm
i	0.39 in / 10 mm
j	0.61 in / 15.5 mm
k	1.30 in / 33 mm
l	1.61 in / 41 mm
m	0.16 in / 4.1 mm
n	0.41 in / 10.4 mm
o	1.21 in / 30.8 mm
p	1.61 in / 41 mm
q	1.77 in / 45 mm
r	0.63 in / 16 mm
s	0.87 in / 22 mm
t	0.16 in / 4 mm
u	0.67 in / 17 mm
v	1.04 in / 26.5 mm
w	0.89 in / 22.5 mm
x	2.09 in / 53 mm

Flow versus Adjustment Screw Rotations



Order Number	Part No./Type	152611 GR-M 5 x 2-B	152612 GR-1/8 x 2-B
Medium		Compressed air (filtered, lubricated or unlubricated)	
Design		Needle valve with check valve	
Mounting		Two holes through housing or front panel mounting	
Connection		M 5	G 1/8
Orifice Size	Controlled Flow	0.08 in / 2 mm	0.12 in / 3 mm
	Free Flow	0.08 in / 2 mm	0.12 in / 3 mm
Standard Nominal Flow Rate	Controlled Flow	0.090 C _v / 90 l/min	0.210 C _v / 210 l/min
	Free Flow	0.110 C _v / 110 l/min	0.240 C _v / 240 l/min
Pressure Range		7.5 to 150 psi / 0.5 to 10 bar	
Temperature Range		14 to 140°F / -10 to +60°C	
Materials		Housing: Al, anodized. Seals: Buna N	
Weight		0.100 lb / 0.045 kg	0.176 lb / 0.080 kg