

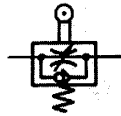
Mechanically Actuated In-line Flow Controls

Cam Operated Flow Control, G 1/2 ISO

FESTO

Cam Operated Flow Control Valve

Type GRR-1/2



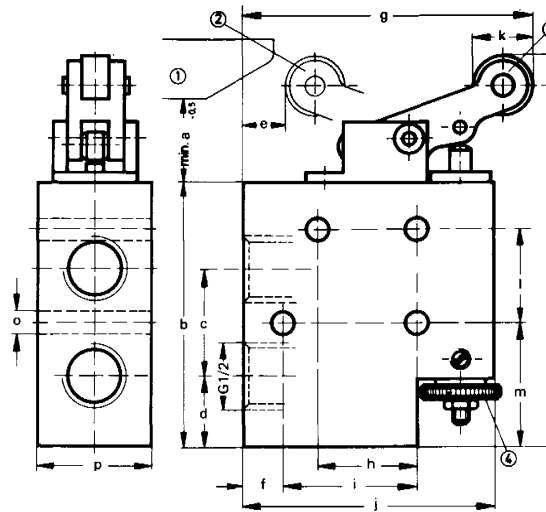
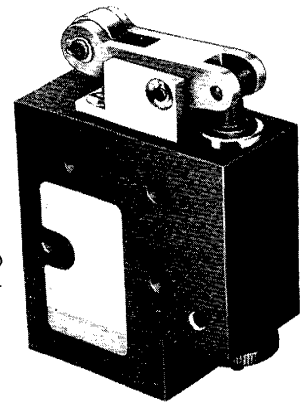
With Roller Lever and Adjustable Initial Flow Setting.

This valve is used to adjust flow when operated by the movement of a single-acting or double-acting cylinder.

Throttle:

The needle valve is gradually closed or opened by movement of roller lever.

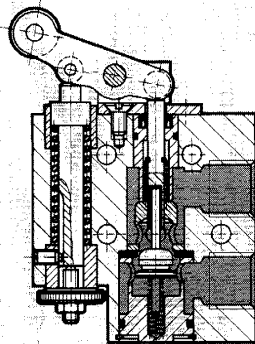
Full free flow through the check valve is independent of initial roller lever position.



Dimensions

a	0.96 in / 24.5 mm	i	1.57 in / 40 mm
b	3.15 in / 80 mm	j	2.95 in / 75 mm
c	1.26 in / 32 mm	k	0.67 in / 17 mm
d	0.87 in / 22 mm	l	1.10 in / 28 mm
e	0.51 in / 13 mm	m	1.50 in / 38 mm
f	0.47 in / 12 mm	n	4.60 in / 117 mm
g	3.39 in / 86 mm	o	0.26 in / 6.5 mm
h	1.18 in / 30 mm	p	1.34 in / 34 mm

- ① Cam
- ② Lever position for decreasing throttling
- ③ Lever position for increasing throttling
- ④ Adjustment screw for pre-set control of flow



The flow is adjusted with an adjustment screw and is then decreased or increased (depending on the valve) by depressing the roller lever. Flow is infinitely variable within the actuation range and can be varied by the design of the control cam.

The valve function can be changed by rotating the roller lever assembly 180° (as shown in drawing above).

Arrows on the nameplate indicate direction of controlled flow.

Order Number	2111 GRR-1/2	
Medium	Compressed air (filtered, lubricated or unlubricated)	
Mounting	Holes through housing	
Connection	G 1/2 ISO	
Orifice Size	Controlled Flow	0.47 in / 12 mm
	Free Flow	0.47 in / 12 mm
C _v Factor	Controlled Flow	1.30 C _v / 0-1300 l/min
	Free Flow	1.25 C _v / 1250 l/min
Pressure Range*	1-120 psi / 0.15-8 bar	
Operating Force at 90 psi / 6 bar	27 lbf / 110 N	
Design	Needle valve with check valve and roller lever	
Materials	Housing: Al, hard-coated. Seals: Buna N.	
Weight	1.620 lb / 0.735 kg	

* 14 to 140°F / -10 to +60°C

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