

Accessory Valves - Flow Control

Flow control valve, right angle, inch, meter-out
Threaded and push-in versions

Rexroth
Bosch Group

Right Angle- Inch

Type	Right Angle - for Push-In Fittings or Threaded Inlet
Supply Pressure	150 PSIG (10 bar)
Cracking Pressure	Check Valve: 7.5 PSIG (0.5 Bar)
Temperatures	15° to 160°F (-9° to 71°C)
Media	Air or inert gas
Materials:	
Body	Nickel Plated Brass
Swivel Housing	Anodized Aluminum
Seals	Buna-N
Spring	Stainless Steel
Needle	10-32, 1/8", 1/4" Stainless Steel 3/8", 1/2" Nickel Plated Brass



Right Angle - Inch Series

Operating Characteristics

Valves Mount Directly on Cylinder
Nickel Plated Brass For Corrosion
Spring Loaded Check Valve
Thread Sealant on Male Threads
360° Swivel Body
Compact Design

Threaded Style

Size	Part Number Slot Adjust	Part Number Knob Adjust
10-32 UNF	R432027180	--
1/8" NPTF	R432027181	R432027185
1/4" NPTF	R432027182	R432027186
3/8" NPTF	R432027183	R432027187
1/2" NPTF	R432027184	R432027188

Push-in Fitting Style

Size	Part Number Slot Adjust	Part Number Knob Adjust
10-32 UNF x 5/32" tube	R432027189	--
1/8" NPTF x 1/4" tube	R432027190	R432027193
1/4" NPTF x 1/4" tube	R432027191	R432027194
3/8" NPTF x 3/8" tube	R432027192	R432027195

*Push-in fitting not available in 1/2" NPTF size.

Tubing tolerances for push-in fittings are:

+/-0.2mm (0.008") except for 1/4" OD tubing, +0.15/-0.35mm (+0.0059"/0.0137")

Push-in fittings suitable for use with nylon, polyethylene, and soft copper tubing; not for use with polyurethane or PVC tubing.

Flow Characteristics

Thread Size		10-32	1/8"	1/4"	3/8"	1/2"
Free Flow	SCFM [Cv]	3.4 [.06]	12.8 [.34]	19.1 [.67]	28.9 [1.87]	53.2 [2.84]
Throttle Closed)	L/Min	98	364	542	819	1508
Orifice Diameter	INCH	0.06	0.118	0.177	0.276	0.394
Orifice Diameter	mm	1.5	1.5	4.5	7.0	10.0
Weight	lbs	0.022	0.055	0.121	0.209	0.407
Weight	kgs	0.01	0.025	0.055	0.095	0.185