

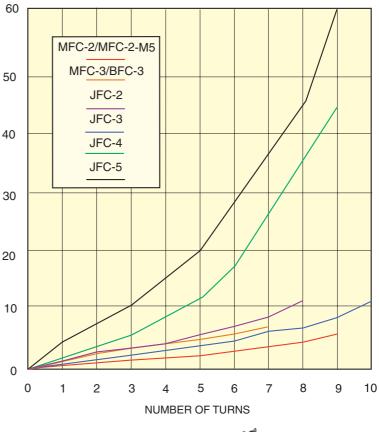
Flow Controls Flow vs. Needle Turns



Clippard offers five models of adjustable flow controls with #10-32 through 3/8" NPT ports. They feature a combination needle and check valve that controls flow in one direction and allows free flow in the opposite direction.

They are an ideal valve for use with a cylinder, providing a slow extend stroke while allowing a fast retract stroke. The chart on this page illustrates the flow versus the number of needle adjustments turns for the MFC-2, MFC-2-M5, MFC-3, BFC-3, JFC-2, JFC-3, JFC-4 and JFC-5.

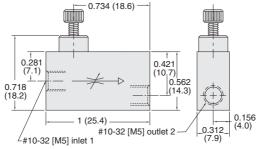
Medium: Air, Water or Oil





Adjustable Flow Control Valve





Materials: Brass body and stainless steel needle; Buna-N seals

Input Pressure: 300 psig max.

Air Flow: 4 scfm max. @ 50 psig; 7 scfm max. @ 100 psig

Pressure To Open: Cracks at approx. 2 psig

Mounting: In-line

Flow Direction: Arrow in valve body shows direction of controlled flow

Adjustment: Knurled knob on needle shaft

Part No. Description

MFC-2 Adjustable Flow Control Valve, #10-32 MFC-2-M5 Adjustable Flow Control Valve, M5

FLOW CONTROL VALVES



Input Pressure: 150 psig max.

Mounting: Directly into #10-32 port

Ports: Rotating input port allows 360° positioning #10-32 port

Flow Direction: Arrow on valve body shows direction of controlled flow

Adjustment: Screwdriver slot; slotted knurled knob with lock nut on #10-80 threaded needle shaft for fine adjustment; or recessed slotted needle

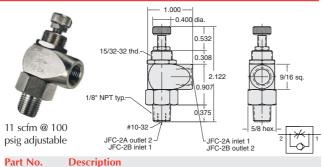
#10-32 Valves, Screwdriver Slot





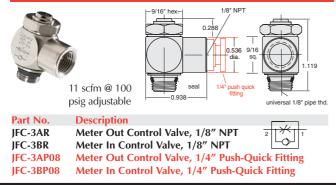
Part No.DescriptionMFC-3AMeter Out Control Valve, #10-32 Female Side PortMFC-3A1Meter Out Control Valve, 1/16" Barb Side PortMFC-3A2Meter Out Control Valve, 1/8" Barb Side PortMFC-3BMeter In Control Valve, #10-32 Female Side PortMFC-3B1Meter In Control Valve, 1/16" Barb Side PortMFC-3B2Meter In Control Valve, 1/16" Barb Side Port

1/8" NPT Control Valves, Knurled Knob



JFC-2A Meter Out Control Valve, 1/8" NPT JFC-2B Meter In Control Valve, 1/8" NPT

1/8" NPT Valves, Recessed Needle



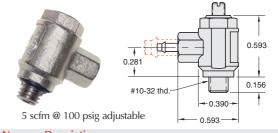
#10-32 Valves, Knurled Knob



Part No. Description

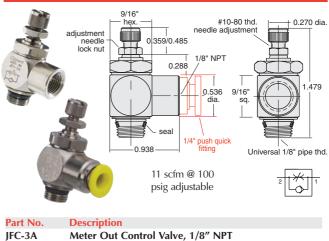
MFC-3AKMeter Out Control Valve, #10-32 Female Side PortMFC-3AK1Meter Out Control Valve, 1/16" Barb Side PortMFC-3AK2Meter Out Control Valve, 1/8" Barb Side PortMFC-3BKMeter In Control Valve, #10-32 Female Side PortMFC-3BK1Meter In Control Valve, 1/16" Barb Side PortMFC-3BK2Meter In Control Valve, 1/16" Barb Side PortMFC-3BK2Meter In Control Valve, 1/8" Barb Side Port

#10-32 Valves, Recessed Needle



Part No.	Description
MFC-3AR	Meter Out Control Valve, #10-32 Female Side Port
MFC-3AR1	Meter Out Control Valve, 1/16" Barb Side Port
MFC-3AR2	Meter Out Control Valve, 1/8" Barb Side Port
MFC-3BR	Meter In Control Valve, #10-32 Female Side Port
MFC-3BR1	Meter In Control Valve, 1/16" Barb Side Port
MFC-3BR2	Meter In Control Valve, 1/8" Barb Side Port

1/8" NPT Valves, Knurled Knob



JFC-3AMeter Out Control Valve, 1/8" NPTJFC-3BMeter In Control Valve, 1/8" NPTJFC-3AP08Meter Out Control Valve, 1/4" Push-Quick FittingJFC-3BP08Meter In Control Valve, 1/4" Push-Quick Fitting

Clippard Instrument Laboratory, Inc. 877-245-6247 www.clippard.com



FLOW CONTROL VALVES



combi-These nation needle and check valve flow controls are typically used to control air flow from air cylinders, thereby controlling the speed at which

the piston strokes, either while extending or retracting, depending on their location in the circuit.

J-Series Flow Control Valves allow free flow in one direction. In the opposite direction the flow is metered by the needle valve.

Models listed in the chart have either a 1/4" NPT (JFC-4) or 3/8" NPT (IFC-5) male threaded outlets, recessed screwdriver slot (R) or knurled knob (K) flow adjustment needles and female NPT or push-to-connect tubing (Push-Quick) inlets. The P08 models features a 1/4" Push-Quick fitting, and the P12 versions have a 3/8" Push-Quick fitting.

Medium: Air, Water or Oil

Material: Electroless nickel plated brass needle and stem, anodized aluminum body, Buna-N seals

NPT Valves, Recessed Needle 1/4"

"W

0-0.066

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1/4-18 NPT

pipe thr

INLE



(JFC-4R shown)

Part No.

JFC-4R

Description Meter Out Control Valve, 1/4" NPT Meter Out Control Valve, 1/4" Push-Quick Fitting

JFC-4R-P08 Meter Out Control Valve, 3/8" Push-Quick Fitting IFC-4R-P12



JFC-5K	Meter Out Control Valve, 3/8" NPT
JFC-5K-P12	Meter Out Control Valve, 3/8" Push-Quick Fitting

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Input Pressure: 150 psig max.

Air Flow: JFC-4 - 45 scfm @ 100 psig adjustable JFC-5 - 60 scfm @ 100 psig adjustable

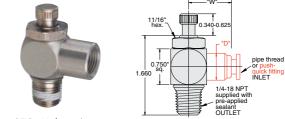
Mounting: Directly into cylinder. Panel or in-line.

Ports: Rotating input port allows 360° positioning 1/8" NPT

Adjustment: Recessed slotted needle or knurled knob

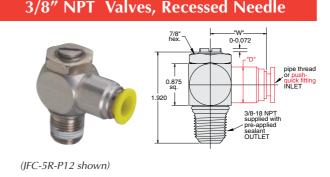
Part #	"D"	"W"
JFC-4K & JFC-4R	0.710″	0.890″
JFC-4K-P08 & JFC-4R-P08	0.562″	0.890″
JFC-4K-P12 & JFC-4R-P12	0.710″	1.062″
JFC-5K & JFC-5R	0.827″	1.125″
JFC-5K-P12 & JFC-5R-P12	0.750″	1.124″

1/4" NPT Valves, Adjusting Knob



(JFC-4K shown)

Part No. Description JFC-4K Meter Out Control Valve, 1/4" NPT **IFC-4K-P08** Meter Out Control Valve, 1/4" Push-Quick Fitting Meter Out Control Valve, 3/8" Push-Quick Fitting JFC-4K-P12

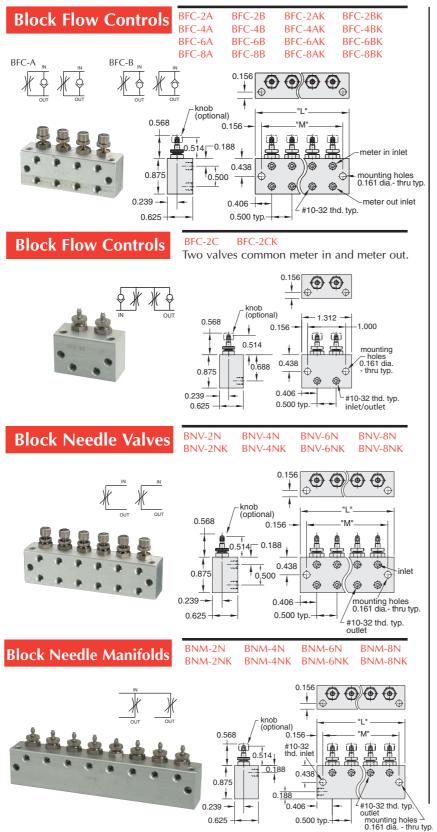


Part No. Description JFC-5R Meter Out Control Valve, 3/8" NPT Meter Out Control Valve, 3/8" Push-Quick Fitting IFC-5R-P12

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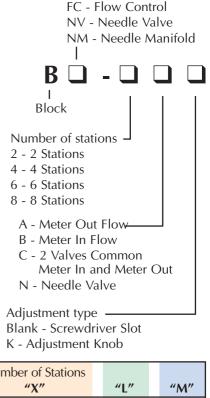
MANIFOLD FLOW CONTROLS





Precision flow controls and needle valves available in blocks for rigid mounting. Specification same as MFC-3

Clippard's block flow control and needle valves have a variety of features that offer extra versatility for unique applications. These precision made valves offer high performance, low cost, reliability and ease of installation. Each valve is independent of the other (except the BFC-2C), sharing only a common body. This allows separate pressures and/or gases to be used while simplifying mounting. Each needle adjustment is smooth, exact, and includes a locking ring to prevent tampering. The valve body is machined and anodized aluminum; the compound angle needle stems are machined from 303 stainless steel; the valve sleeve is electroless nickel plated brass; and the seals are Buna-N rubber. Block flow controls and needle valves are ideal for controlling double acting cylinders.



Number of Stations "X"	"L"	"M"
2	1.312″	1.000″
4	2.312"	2.000″
6	3.312"	3.000″
8	4.312″	4.000″

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