

NPTF/INCH

Series RFU In-line Flow Control Valves - NPTF/INCH

Panel or wall-mounted flow controllers
In-line/Unidirectional, RFU
Ports M5 (10-32 UNF),
1/8", 1/4" NPTF

The unidirectional flow controllers are equipped with M5 (10-32 UNF), 1/8" and 1/4" ports, each of which is available with two different types of adjustment (see diagrams). They are used mainly for controlling the speed of cylinders. They may be mounted on control panels or cylinders, as required.

This chapter is a general overview of the Flow Control Valve product line. For details of product data and dimensions, please see the *Fittings and Flow Control Valves Catalog*



TECHNICAL SPECIFICATIONS

Valve group	Unidirectional controller, (meter-in, meter-out)
Construction	In-Line Needle type
Mounting	Through holes in body, or control panel
Materials	Aluminum body, Brass needle, Buna-N seals
Port sizes	M5 (10-32 UNF), 1/8", 1/4", NPTF
Installation	As required
Operating temperature	32° - 175° F, (dry air necessary down to -4° F)
Fluid	Filtered air
Lubricant	Oil compatible with Buna-N, (3° - 10° E)

PNEUMATIC DATA

Operating pressure	1.0 - 10 bar, (14.5 - 145 psi)
Nominal pressure	6 bar, (87 psi)
Nominal flow	See graphs
Nominal diameter (Flow Orifice)	1/8" = 2 mm (.079"), or 3 mm (.118")
	1/4" = 4 mm (.157"), or 6 mm (.236")

*Qn flowrate (SCFM) determined with a supply pressure of 6 bar, (87 psi), and with a pressure drop of 1 bar, (14.5 psi).

**Dimensions are in inches

CODING OF FLOW CONTROLLERS

RFU-4 8 2-02

SERIES
RF

FUNCTION
U-4 = unidirectional

PORTS
5 = M5 (10-32 UNF)
8 = 1/8" NPTF
4 = 1/4" NPTF

FLOW CONTROL RANGE
(orifice diameter)
2 = ø 2 max
3 = ø 3 max
4 = ø 4 max
6 = ø 6 max

PORTS
M5 = M5 (10-32 UNF)
02 = 1/8" NPTF
04 = 1/4" NPTF

Unidirectional flow controller Series RFU

To regulate the speed of a cylinder, the air flow from the chamber which is being discharged must be regulated. For this reason, the unidirectional flow controller must be connected as follows: connect the threaded outlet marked A to the cylinder inlet and the threaded outlet marked B to the valve user port.

Mod.
RFU 452-M5
RFU 482-02
RFU 483-02
RFU 444-04
RFU 446-04

