Series RFU - RFO
In-line Flow Control Valves - BSP/Metric

Panel or wall-mounted flow controllers
Unidirectional (RFU) and bidirectional (RFO)
Ports M5, G1/8, G1/4
Nominal diameter:
M5 = 1.5 mm (10-32 UNF)
G1/8 = 2 and 3mm
G1/4 = 4 and 6mm

The undirectional flow controllers are equipped with M5, G1/8 and G1/4 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. Bidirectional controllers are also available with the same bodies, but suitably modified.

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

Construction	needle-type
Valve group	unidirectional and bidirectional controller (Meter-Out, Meter-In, Needle Orifice)
Materials	aluminium body - OT58 (brass) needle - Buna-N seals
Mounting	by through-holes in valve body or control panel
Threaded ports	M5 - G1/8 - G1/4
Installation	as required
Operating temperature	0 — 80°C (with dry air -20°C) (32°F - 175°F (with dry air necessary down to -4°F))
Lubricant	oil compatible with Buna-N (3° — 10° E)

PNEUMATIC DATA

Operating pressure	1 — 10 bar (14.5 - 145 psi)
Nominal pressure	6 bar (87 psi)
Nominal flow	see graph
Nominal diameter (flow orifice)	M5 = 1.5 mm (10-32 UNF) - G1/8 = 2 or 3 mm (.079" or .118") - G1/4 = 4 or 6 mm (.157" or .236")
Fluid	filtered air

CODING OF BANJO FLOW CONTROLLERS

RFU 4 8 2 - 1/8

SERIES = RF

FUNCTION
U4 = unidirectional
03 = bidirectional

PORTS
8 = 1/8
4 = 1/4
5 = M5

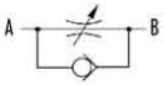
FLOW CONTROL RANGE
2 = ø 2 mm orifice
3 = ø 3 mm orifice
4 = ø 4 mm orifice
6 = ø 6 mm orifice

BSP PORTS
M5
G1/8
G1/4

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 482-1/8
RFU 483-1/8
RFU 444-1/4
RFU 446-1/4



Bidirectional flow controller Series RFO

The bidirectional flow controller is suitable for regulating the air flow in both directions and for pressurising or depressurising containers.
When choosing the model, reference must always be made to the M5, G1/8 and G1/4 graph, although it is necessary to know in advance the number of litres of air to be regulated per unit of time.

Mod.
RFO 352-M5
RFO 382-1/8
RFO 383-1/8
RFO 344-1/4
RFO 346-1/4