

FCD Series Pneumatic Valves with Combined Functions

Product Code Format

Variable Flow Valve

: FCDN□□ □F□-□□ □

Pneumatic Valve with Bypass

: FCDN□□ □B□-□□ □□ □

Variable Flow Valve with Bypass

: FCDN□□ □X□-□□ □□ □

(Please refer to the products code table on P. 84 for details)



Features

- Variable flow pneumatic valves
Adjustable flow rate at full open position.
- Pneumatic valves with bypass
Bypass flow path prevents fluid trapped in the valve. Adjustable bypass valve saves fluid consumption.
- Variable flow valve with bypass
Multifunctional three-in-one valve: pneumatic valve, variable flow rate, & bypass channel.

Specifications

Valve Size		1/4"	3/8"	1/2"	3/4"	1"
Fluid Temperature (°C)		5~100				
Ambient Temperature (°C)		0~60				
Max. Operating Pressure (MPa)		145 (1.0)				
Operating Pressure psi (MPa)	Positive Pressure	87 (0.6)	72 (0.5)	72 (0.5)	72 (0.5)	72 (0.5)
	Back Pressure	72 (0.5)	58 (0.4)	58 (0.4)	58 (0.4)	58 (0.4)
Allowable Leakage at Seat (cm ³ /min)		0 (with water)				
Orifice Diameter / inch (mm)		0.16 (4.0)	0.39 (10.0)	0.39 (10.0)	0.63 (16.0)	0.87 (22.0)
Cv		0.3	1.1	1.7	4.6	10
Bypass Part Orifice Diameter/Cv			φ3/0.27	φ3/0.27	φ3.6/0.32	φ3.6/0.32
Actuation Type		NC/NO/ Double Action (DA)				
Actuation Pressure (MPa)		NC 0.4-0.6, NO/DA 0.4-0.5				
Operation Air Inlet		Rc 1/8 (Attach a Resin R1/8 Fitting at 0.4-0.6N·m to the actuation air inlet port.)				