

Constant Flow Valve Data Sheet



FEATURES:

- Body and bonnet constructed from solid PVC
- All wetted parts are made of thermoplastic or elastomeric materials to provide superior corrosion resistance
- A preset, constant flow rate is maintained by automatically regulating orifice opening area, responding to changes in pressure differentials

AVAILABLE UPSTREAM PRESSURE RANGE (SIZE 1/2" - 4", TYPE A/B/C/D):

Body Material	Temperature (F)	Upstream Pressure Range (psi)		
		0 - 35	35 - 70	70 - 110
PVC	35° - 85°	✓	✓	✓
	86° - 105°	✓	✓	X
	106° - 120°	✓	✓	X

Max allowable upstream pressure:

PVC (1/2" - 3"): 0 - 150 psi. PVC (4"): 0 - 70 psi.

WEIGHTS (LBS.):

Nominal Size		Weight
inches	mm	
1/2	15	3.31
3/4	20	3.31
1	25	3.31
2	50	11.02
3	80	18.74
4	100	36.38

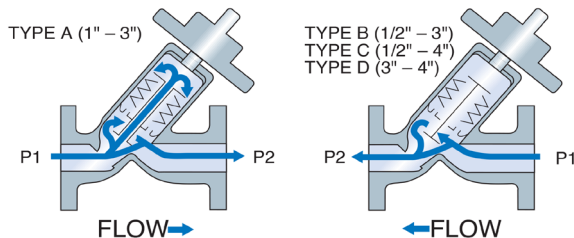
PRESET FLOW RATES

(WITH WORKING DIFFERENTIAL PRESSURE):

Nominal Size		Type	Flow Rate (gallons/minute)	Rangeability	Working Differential Pressure (psi)
inches	mm				
1/2	15	B	0.176 - 3.52	20:1	2.85 - 14.22
		C	0.35 - 3.52	10:1	4.27 - 28.45
3/4	20	B	0.26 - 5.28	20:1	2.85 - 14.22
		C	0.53 - 5.28	10:1	4.27 - 28.45
1	25	A	2.20 - 8.81	4:1	2.85 - 14.22
		B	0.441 - 8.81	20:1	2.85 - 14.22
		C	0.881 - 8.81	10:1	4.27 - 28.45
2	50	A	8.81 - 35.22	4:1	2.85 - 14.22
		B	1.76 - 35.22	20:1	2.85 - 14.22
		C	3.52 - 35.22	10:1	4.27 - 28.45
3	80	A	22.02 - 88.07	4:1	4.85 - 14.22
		B	4.403 - 88.07	20:1	2.85 - 14.22
		C	8.81 - 88.07	10:1	4.27 - 28.45
		D	66.04 - 132.10	2:1	4.27 - 21.33
4	100	C	44.03 - 264.20	6:1	4.27 - 28.45
		D	132.10 - 264.20	2:1	2.85 - 21.33

SPECIFICATIONS:

SIZES: 1/2" - 4"
BODY MATERIALS: PVC
BONNET MATERIALS: PVC
MODELS: Flanged (ANSI)
SEALS: EPDM
SCREENS: Stainless steel 304 with PCTFE coating



PRESSURE VS. TEMPERATURE (PSI, WATER, NON-SHOCK):

Material	Temperature (F)	inches (mm)	
		1/2" - 3" (15 - 80)	4" (100)
PVC	30° - 120°	150	70

CHARACTERISTICS BY VALVE TYPE:

Type	Size Range (inches)	Characteristics
A	1", 2", 3"	Fluid flows through the valve
B	1/2", 3/4", 1", 2", 3"	Flow rate setting range is large (small to large flow rate)
C	1/2", 3/4", 1", 2", 3", 4"	Lines with large pressure differentials (upstream vs. downstream)
D	3", 4"	High flow rate

Note: Constant flow valves are special ordered products from Japan, and cannot be ordered without customer-provided service conditions.