

## Control Valves

### PVDF Plastic Control Valve for Corrosive Service

#### DESCRIPTION

The PVDF Plastic Control Valve for Corrosive Service is available in 1/4 in., 1/2 in., 3/4 in. and 1 in. sizes. Its compact design and light weight make it especially suited for modulating control of low to medium flow rates.

#### APPLICATION

These valves are widely used in industries such as:

- Water treatment
- Chemical feed
- PH control
- Pilot plants
- Semiconductor
- Pulp and paper

#### FEATURES

- Available in 1/4-inch, 1/2-inch, 3/4-inch and 1-inch sizes
- Linear or equal percent trims
- PVDF, Hast-C, tantalum trims
- Kynar trim CVs from 0.05...6.0
- Metallic trim CVs from 0.003...6.0
- NPT or wafer style connections
- Teflon CV rings or REK packing
- Pneumatic and electric actuators
- Stainless steel pneumatic actuators

#### TYPICAL FLUIDS

- Sodium hypochlorite
- Caustic (NaOH)
- Chlorine dioxide
- Sulfuric acid
- Sodium chlorate
- Bromine
- Hydrofluoric
- Ammonium fluoride
- Carbon tetrachloride
- Perchlorethylene
- Hydrogen chloride
- Hydrochloric acid

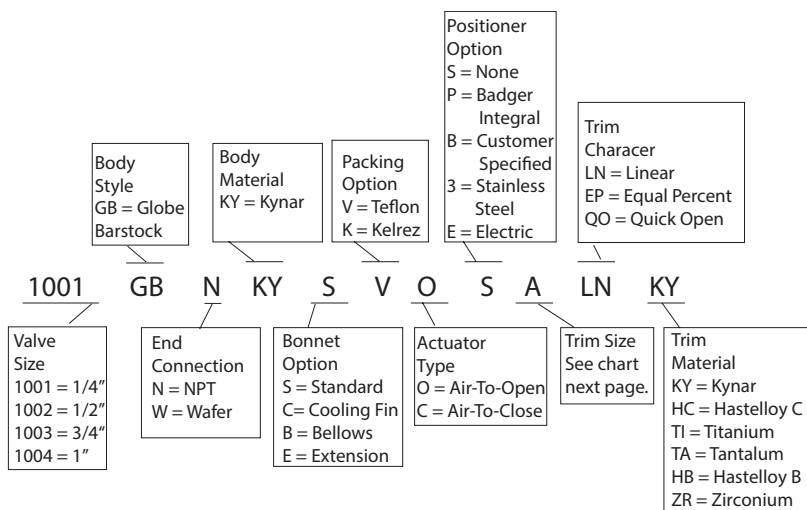


#### END FITTING AVAILABILITY

Body Size	NPT	Wafer ANSI 3/4 in. 150 RF	Wafer ANSI 1 in. 150 RF	Trim Types
1/4 in.	X			M
1/2 in.	X		X	M, P
3/4 in.	X	X	X	M, P
1 in.			X	M, P

M-Metallic, P-Plastic

Temperature	Pressure
150° F	75 psi
75° F	150 psi
0° F	150 psi



TRIM CHART

Valve Size	Trim Designation	Max Cv	Orifice Dia. (in.)	Orifice Area (sq. in.)	Nominal Rangeability	
					Linear	Equal %
1 in.	6.0	6.0	0.6250	0.3068	50:1	60:1
	5.0	5.0	0.6250	0.3068	50:1	60:1
	4.5	4.5	0.5000	0.1963	50:1	60:1
3/4 in. and 1 in.	4.0	4.0	0.4375	0.1503	50:1	60:1
	3.5	3.5	0.4375	0.1503	50:1	60:1
1/2 in., 3/4 in. and 1 in.	A	2.5	0.3750	0.1104	40:1	50:1
	B	2.0	0.3750	0.1104	40:1	50:1
	C	1.25	0.2810	0.0620	40:1	50:1
	D	0.8	0.2500	0.0491	40:1	50:1
	E	0.5	0.2500	0.0491	40:1	50:1
1/4 in., 1/2 in., 3/4 in. and 1 in.	F	0.32	0.1560	0.0191	30:1	40:1
	G	0.2	0.1560	0.0191	30:1	40:1
	H	0.13	0.1560	0.0191	30:1	40:1
	I	0.08	0.1560	0.0191	30:1	40:1
	J	0.05	0.1560	0.0191	30:1	40:1
	K*	0.03	0.0860	0.0058	25:1	NA
	L*	0.02	0.0860	0.0058	25:1	NA
	M*	0.01	0.0860	0.0058	25:1	NA
	N*	0.006	0.0860	0.0058	25:1	NA
	O*	0.003	0.0860	0.0058	25:1	NA

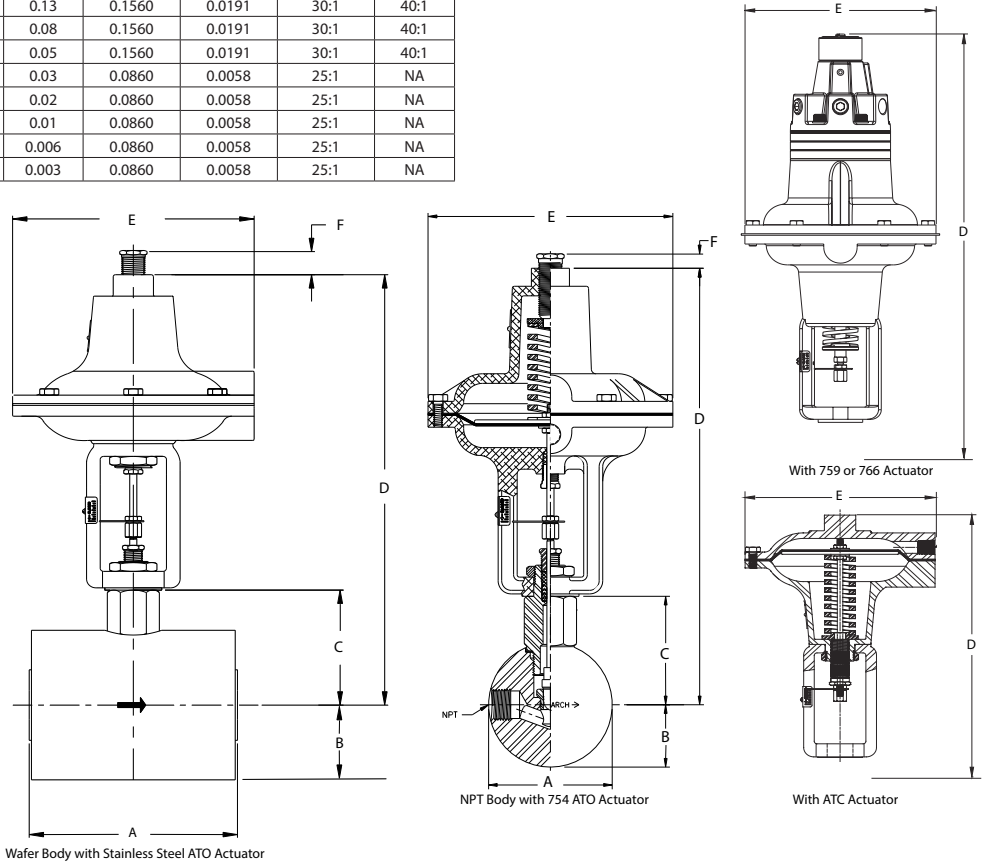
\* Reduced trim

CONSTRUCTION

Body/Bonnet	Standard	PVDF
	Optional	PVC
	Standard	Kynar® or Alloy C
Trim	Optional	Alloy B
		Tantalum
		Titanium
		Zirconium
		Other exotic materials
Actuator	Standard	Painted aluminum
	Optional	316L (1/2" and larger)
Packing	Standard	TFE chevron rings
	Optional	REK (low emission)

\* Not available for 1/4 in. valves and not available in the trim sizes K, L, M, N, O.

DIMENSIONS



Body Size	Connection	A	B	C	SST ATO	SST ATC	754 ATO	755 ATC	766 w/BLRA	759 w/TLDA	ALL	ATO (Max.)
					D	D	D	D	D	D	E	F
1/2 in.	NPT	3.3	1.6	2.9	11.9	11.9	11.4	11.3	16.9	16.9	6.4	0.4
1/2 in.	Wafer ANSI 1 in. 150 RF	5.5	2.1	3.2	12.2	12.2	11.8	11.3	16.9	16.9	6.4	0.4
1/2 in.	Wafer ANSI 1 in. 150 RF (Std)	2.5	2.1	3.2	12.2	12.2	11.8	11.3	16.9	16.9	6.4	0.4
3/4 in.	NPT	4.3	2.1	3.9	12.9	12.9	12.5	12.3	17.9	17.9	6.4	0.4
3/4 in.	Wafer ANSI 3/4 in. 150 RF	3.25	2.1	3.9	12.9	12.9	12.5	12.3	17.9	17.9	6.4	0.4
1 in.	Wafer ANSI 1 in. 150 RF	2.5	2.1	3.9	12.9	12.9	12.5	12.3	17.9	17.9	6.4	0.4