

# Research Control® Valves

## PVDF Plastic Control Valves for Corrosive Service.

### FEATURING

- 1/4", 1/2", 3/4" & 1" Sizes
- Linear or Equal % Trims
- PVDF, Hast-C, Tantalum Trims
- Kynar Trim Cv's from 6.0 to 0.05
- Metallic Trim Cv's from 6.0 to 0.003
- NPT or Wafer Style Connections
- Teflon CV Rings or REK Packing
- Pneumatic and Electric Actuators
- Stainless Steel Pneumatic Actuators

### INDUSTRIES

- Water Treatment
- Chemical Feed
- Ph Control
- Pilot Plants
- Semiconductor
- Pulp & Paper

### TYPICAL FLUIDS

- SODIUM HYPOCHLORITE
- CAUSTIC (NAOH)
- CHLORINE DIOXIDE
- SULFURIC ACID
- SODIUM CHLORATE
- BROMINE
- HYDROFLUORIC
- AMMONIUM FLUORIDE
- CARBON TETRACHLORIDE
- PERCHLORETHYLENE
- HYDROGEN CHLORIDE
- HYDROCHLORIC ACID



PVDF Globe Wafer Valve with SST Actuator



PVDF Globe NPT Valve with SST Actuator

### End Fitting Availability

BODY SIZE	NPT	Wafer-fits 3/4"-150RF	Wafer- fits 1"-150RF	Max CV	Trim Types
1/4"	X			0.32	M
1/2"	X		X	2.5	M,P
3/4"	X	X	X	4.0	M,P
1"			X	6.0	M,P

M-Metallic, P-Plastic



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# TRIM CHART

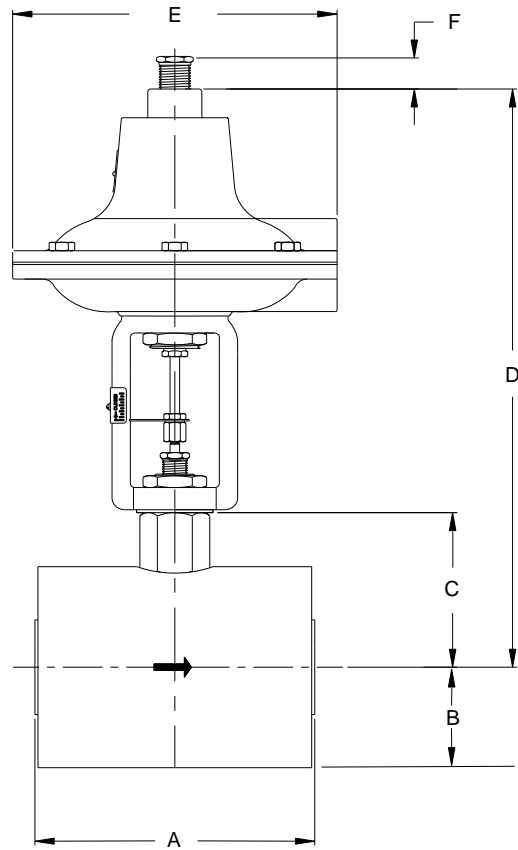
Size	Trim	Max Cv	Orifice Dia. (in)	Orifice Area(sq in)	Nominal Rangeability	
					Linear	Equal %
1"	6.0	6.0	0.6250	0.3068	50:1	60:1
1"	5.0	5.0	0.6250	0.3068	50:1	60:1
1"	4.5	4.5	0.5000	0.1963	50:1	60:1
3/4"-1"	4.0	4.0	0.4375	0.1503	50:1	60:1
3/4"-1"	3.5	3.5	0.4375	0.1503	50:1	60:1
1/2"-1"	A	2.5	0.3750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

\*Reduced Trim

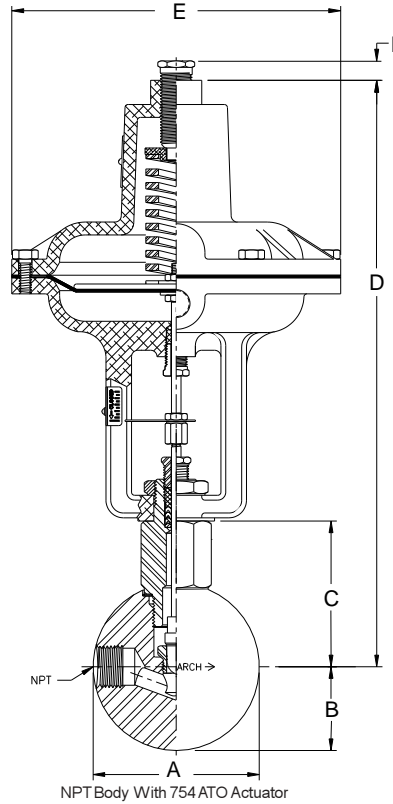
# MATERIALS OF CONSTRUCTION

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

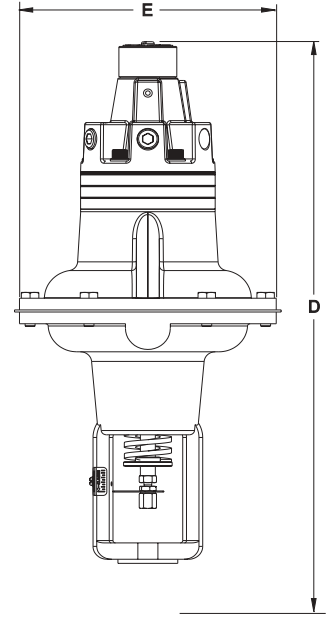
# DIMENSIONS



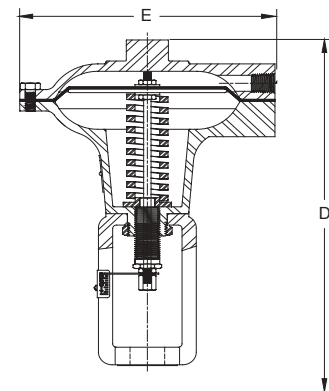
Wafer Body With Stainless Steel ATO Actuator



NPT Body With 754 ATO Actuator



With 759 or 766 Actuator



With ATC Actuator

BODY SIZE	CONNECTION	DIMENSIONS (inches)										
		"A"	"B"	"C"	"D"	"D"	"D"	"D"	"D"	"D"	"E"	"F"
1/4"	NPT	2.5	1.1	1.8	NA	NA	7.8	7.8	13.8	13.8	5.1	0.3
1/2"	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"	WAFER 1"-150RF	5.5	2.1	3.2	12.2	12.2	11.8	11.6	16.9	16.9	6.4	0.4
3/4"	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"	WAFER 3/4"-150RF	5.5	2.1	3.9	12.9	12.9	12.5	12.3	17.9	17.9	6.4	0.4
3/4"	WAFER 1"-150RF	5.5	2.1	3.9	12.9	12.9	12.5	12.3	17.9	17.9	6.4	0.4
1"	WAFER 1"-150RF	5.5	2.1	3.9	12.9	12.9	12.5	12.3	17.9	17.9	6.4	0.4

Dimensions in inches.

Other face-to-face dimensions available.

All information subject to change without notice

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