

## APPLICATIONS

Ideal for high-cycle applications, filling systems, galvanizing and pickling systems, water treatment systems, dosing and chemical feed lines and general applications that involve aggressive atmospheres that affect actuators constructed of iron and steel.

The consistent tight-shutoff, high-cycle performance and compact size of the 695 series make it an ideal alternative to ball valves.

## OPTIONS

- Handwheel manual override
- Electrical limit and proximity switches
- Visual position indicator
- Pneumatic and electro-pneumatic positioners
- Stroke limiters

## DESIGN FEATURES

- Compact design
- Sizes ½" - 4"
- Corrosion resistant glass filled polypropylene housing
- 3 action modes: fail open, fail closed and double acting
- Accepts standard elastomer and Teflon faced diaphragms without changing internal components.

### Technical Data

Nominal Size		Conversion Factors	Maximum Working Pressure						
			bar/psi	Control Function 1		Control Function 2		Control Function 3	
mm	in			Elastomer	Teflon	Elastomer	Teflon	Elastomer	Teflon
15	1/2"	Metric	bar	0 - 10	0 - 6	0 - 10	0 - 6	0 - 10	0 - 6
		US	psi	0 - 150	0 - 90	0 - 150	0 - 90	0 - 150	0 - 90
20	3/4"	Metric	bar	0 - 10	0 - 6	0 - 10	0 - 6	0 - 10	0 - 6
		US	psi	0 - 150	0 - 90	0 - 150	0 - 90	0 - 150	0 - 90
25	1"	Metric	bar	0 - 10	0 - 6	0 - 10	0 - 6	0 - 10	0 - 6
		US	psi	0 - 150	0 - 90	0 - 150	0 - 90	0 - 150	0 - 90
32	1 1/4"	Metric	bar	0 - 10	0 - 6	0 - 10	0 - 6	0 - 10	0 - 6
		US	psi	0 - 150	0 - 90	0 - 150	0 - 90	0 - 150	0 - 90
40	1 1/2"	Metric	bar	0 - 10	0 - 6	0 - 10	0 - 6	0 - 10	0 - 6
		US	psi	0 - 150	0 - 90	0 - 150	0 - 90	0 - 150	0 - 90
50	2"	Metric	bar	0 - 10	0 - 6	0 - 10	0 - 6	0 - 10	0 - 6
		US	psi	0 - 150	0 - 90	0 - 150	0 - 90	0 - 150	0 - 90
80	3"	Metric	bar	0 - 8	0 - 5	0 - 10	0 - 6	0 - 10	0 - 6
		US	psi	0 - 120	0 - 75	0 - 150	0 - 90	0 - 150	0 - 90
100	4"	Metric	bar	0 - 6	0 - 4	0 - 10	0 - 6	0 - 6	0 - 6
		US	psi	0 - 90	0 - 60	0 - 150	0 - 90	0 - 90	0 - 90

**Note:** All pressures are gauge pressures when applied upstream.  
The C<sub>v</sub> values for different body configurations vary due to differences in valve construction (i.e., Port size, body material, diaphragm material, etc.).

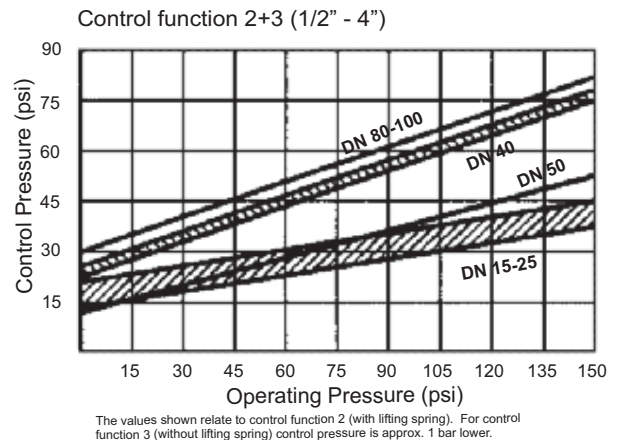
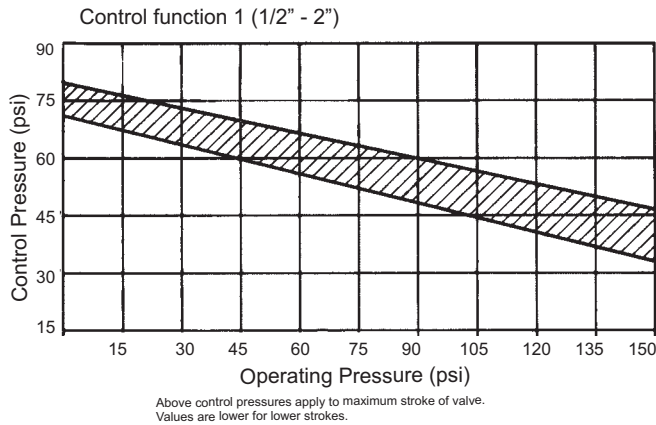
**Max permissible working temperature:**  
175°F (depending on diaphragm and body materials).

The valve will seal against flow in either direction up to full working pressure.

**Control Medium** 5." To 2" 3" & 4"  
**Min. Required control pressure:** 45 psi 80 psi  
**Max. Permissible control pressure:** 90 psi 105 psi  
**Max. Permissible temp. of control medium:** 100°F

**Actuator volume:**

1/2" to 1"	9.2 cubic inches
1 1/2"	21.4 cubic inches
2"	67.1 cubic inches
3"	152.6 cubic inches
4"	152.6 cubic inches



## Dimensional Data

### Dimensions

Nominal Sizes		Units	CF 1 (STC)	CF 2 (STO), 3 (D/A)	F	G	ØB	Weight	
mm	in		A	A1				kg/lb	
15	1/2"	mm	149	116	65	1/4"	125	kg	3
		in	5.87	4.57	2.56		4.92	lb	6
20	3/4"	mm	151.5	118.5	67.5	1/4"	125	kg	3
		in	5.96	4.67	2.66		4.92	lb	6
25	1"	mm	154	121	70	1/4"	125	kg	3
		in	6.06	4.76	2.76		4.92	lb	6
32	1 1/4"	mm	205.7	163.7	103.7	1/4"	155	kg	6
		in	8.1	6.44	4.08		6.1	lb	14
40	1 1/2"	mm	210	168	108	1/4"	155	kg	6
		in	8.27	6.61	4.25		6.1	lb	14
50	2"	mm	254	203	129	1/4"	210	kg	10
		in	10	7.99	5.08		8.27	lb	22
65	2 1/2"	mm	331	277	178	1/4"	258	kg	24
		in	13.03	10.91	7.01		10.16	lb	53
80	3"	mm	339.5	285.5	186.5	1/4"	258	kg	24
		in	13.37	11.24	7.34		10.16	lb	53
100	4"	mm	380	336	222	1/4"	328	kg	30
		in	14.96	13.23	8.74		12.91	lb	66

