

Maximum Working Pressures



For handwheel operated valves following table shows the rated working pressures at room temperature. Pressure rating of diaphragms vary according to temperature and are also affected by the composition of the fluids.

Series "S" Kgf/Cm ²			Series "G" Kgf/Cm ²			
Valve Size	Elastomer Diaphragm		Teflon Diaphragm		Elastomer Diaphragm	
(DN)	Metal body Rubber Lined	Glass Lined	Metal Body	Glass Lined Rubber Lined Teflon Lined	Metal Body	Rubber Lined FRP Lined
6	16	—	10	—	—	—
10	16	—	10	—	—	—
15	16	10	10	10	7	7
20	16	10	10	10	—	—
25	16	10	10	7	7	7
32	16	10	7	7	—	—
40	16	10	7	7	7	7
50	16	7	7	7	7	7
65	16	7	7	7	7	7
80	10	7	7	7	7	7
100	10	5	7	5	6	6
125	8.5	5	7	5	—	—
150	8.5	4	7	5	3.5	3.5
200	7	4	7	5	3.5	3.5
250	5	—	—	—	3	3
300	4	—	—	—	3	3
350	3.5	—	—	—	—	—

– Test Pressure (Shell & Seat) are 1.5 times the working pressures.

– Air Seat test pressure is 5.0 Kgf/Cm² upto 100 mm size and 3.0 Kgf/Cm² for 150 mm size and above.

KV Values

KV values of diaphragm valves vary with the internal roughness of body and the shape of flow passage.

Figures shown are KV values of handwheel operated valves

Series "S"			Series "G"			
Valve Size	Elastomer Diaphragm		Teflon Diaphragm		Elastomer Diaphragm	
DN	Metal body	Rubber lined	Metal body	Glass lined	Metal body	Rubber lined
6	3.8	3	4.3	—	—	—
10	4.6	3.9	5	—	—	—
15	5	4.6	6	6	7.4	6
20	8	5.3	8.8	9.3	—	—
25	14	14	16.5	19	32	26
32	25	20	29	33	—	—
40	41	33	47	48	64	57
50	78	50	90	91	107	90
65	87	74	101	132	200	164
80	153	112	177	246	285	228
100	211	218	244	300	508	415
125	311	287	360	445	—	—
150	476	389	550	630	1453	1090
200	1038	865	1200	1320	2232	1894
250	1384	1254	1600	—	3477	2958
300	2232	1808	2580	—	5242	4221
350	3322	2647	3840	—	—	—

KV value is defined as coefficient of flow of water in m³/h with a pressure drop of 1 bar across the valve.