



DATA SHEET

Product Data Sheet No : SD/PD/003 Rev 1
 Title : Valve General specifications

Product : 705G (Semi-Lugged) Valve
 Date : 29th March 2012

Valve Nominal Size		50mm to 200mm	250mm to 300mm	350mm to 500mm	600mm	
Applicable Flange Standards		JIS 5K/10K ANSI125lb/150lb BS 10 Table 'E' BS EN 1092 PN10/PN16 (Replaces BS 4504)				
Maximum Working Pressure		10 Barg				
Body Shell Test		15 Barg				
Seat Leak Test		11 Barg				
Seat Ring Materials and Temperature Ranges		Material	Colour ID	Continuous	Intermittent	
		NBR	Blue Dot	-10 to +60°C	-10 to +80°C	
		HI-NBR	Green Dot	-5 to +80°C	-5 to +80°C	
		EPDM	Orange Dot	0 to +100°C	-20 to +120°C	
		HI-EPDM (Max 7 Bar)	3 Orange Dots	0 to +130°C	-10 to +150°C	
		CR (Max 10 Bar)	Red Dot	-10 to +60°C	-20 to +80°C	
		FPM (Max 10 Bar)	Grey Dot	-10 to +60°C	-10 to +60°C	
Standard Materials		Body		Cast Iron JIS FCD250	Ductile Iron JIS FCD450	
		Disc		Stainless Steel 316 JIS SCS14		Stainless Steel 304 JIS SCS13
				Poly-phenylen Sulfide (PPS) (50mm to 200mm)		Stainless Steel 316 JIS SCS14
Stem		Aluminium Bronze JIS CAC702		Aluminium Bronze JIS CAC702	Ductile Iron JIS FCD450	
		SUS420J2 / SUS392J1				
Paint Coating		Epoxy primer finish (Munsell N7)				
Actuators	Lock Lever	√	X	X	X	
	Worm Gear	√	√	√	√	
	Centre Handle	√	√	X	X	
	Pneumatic cylinder	√	√	√	√	
	Motorized	√	√	√	√	
Typical Valve Service		Low pressure applications including, sand, cement powder, sea water, waste water, sugar processing, general food industry, fertiliser spraying, carbon black, low vacuum and compressed air.				
Pressure Equipment Directive 97/23/EC Category		Under it's extreme operating conditions the 705G Valve is deemed to be Category III				

705G Basic Torque Chart

Size		Basic Torque Required (Nm)	Notes :
mm	inch		
50	2	8.8	1. The data shows seating torque of 705G butterfly valve. It can be used for basic torque for actuator sizing. 2. Safety margins should be added to the basic torque requirements for the following services :- <ul style="list-style-type: none"> • Wet Service – min 30% • Slurry, Steam etc – min 50% • Dry Air, Powder etc – min 100% * Special Note for Basic Torque. The Seating torques, especially for concentric rubber seated butterfly valves, are subject to working conditions, such as type of fluid, temperature, duration at closed position, frequency of operation, material of rubber, combinations of materials etc. Therefore, various considerations should be given when using butterfly valves.
65	2.1/2	13.7	
80	3	17.6	
100	4	36.3	
125	5	53.9	
150	6	76.4	
200	8	137.2	
250	10	176.4	
300	12	284.2	
350	14	362.6	
400	16	597.8	
450	18	803.6	
500	20	970.2	
600	24	1862.0	



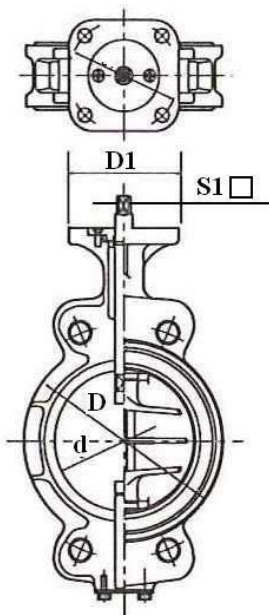
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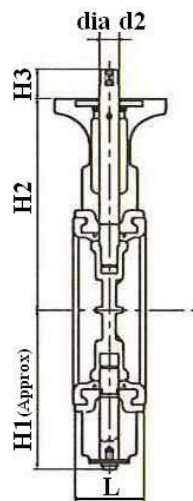
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705G Valve Dimensions

Nominal Size		Dimensions (mm)									App Weight (Kgs)
mm	inch	S1 □	d	D	D1	L	Ød2	H1	H2	H3	
50	2	8	56	90	70	43	10	85	138	21.5	2.5
65	2.1/2	8	69	115	70	46	10	94	151	21.5	3.5
80	3	10	84	126	70	46	12	109	156	22.5	4
100	4	12	104	146	70	52	14	117	167	22.5	5
125	5	14	130	181	102	56	16	143	191	22.5	8
150	6	14	154	211	102	56	18	164	202	27.5	11
200	8	18	199	256	102	60	22	186	227	30	15
250	10	24	253	322	102	68	28	215	280	35	24
300	12	24	302	367	125	78	32	253	312	35	31
350	14	N/A	337	410	140	78	32	276	348	48	47
400	16	N/A	394	469	140	102	40	338	383	54	72
450	18	N/A	441	525	140	114	46	368	413	65	96
500	20	N/A	492	580	140	127	50	403	453	79	127
600	24	N/A	584	682	165	154	55	458	528	79	191



50 to 300mm



350 to 600mm

