

# DATA SHEET

Product Data Sheet No : SD/PD/001 Rev 2  
 Title : Valve General specifications

Product : 700G (Wafer) Valve  
 Date : 20<sup>th</sup> Oct 2015

Valve Nominal Size		40mm to 200mm	250mm to 300mm	350mm to 500mm	600mm
Applicable Flange Standards		JIS 5K/10K ANSI1251b/1501b BS 10 Table -Eø BS EN 1092 PN10/PN16 (Replaces BS 4504)	JIS 5K/10K ANSI1251b/1501b BS 10 Table -Eø BS EN 1092 PN10/PN16 (Replaces BS 4504)	JIS 5K/10K	JIS 5K ANSI1251b/1501b BS EN 1092 PN10/PN16 (Replaces BS 4504)
Maximum Working Pressure		16 Barg	12 Barg	10 Barg	10 Barg
Body Shell Test		24 Barg	18 Barg	15 Barg	15 Barg
Seat Leak Test		17.6 Barg	13.2 Barg	11 Barg	11 Barg
Seat Ring Materials and Temperature Ranges		<b>Material</b>	<b>Colour ID</b>	<b>Continuous</b>	<b>Intermittent</b>
		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
		SEP (Max 5 Bar)	Brown Dot	-10 to +80°C	-10 to +130°C
White NBR		Blue Dot	0 to +60°C	-10 to +70°C	
Standard Materials	Body	Ductile Iron JIS FCD450	Ductile Iron JIS FCD450	Cast Iron JIS FC250	Cast Iron JIS FC250
	Disc	Stainless Steel 316 JIS SCS14	Stainless Steel 316 JIS SCS14	Stainless Steel 304 JIS SCS13	Stainless Steel 304 JIS SCS13
		Poly-Phenylene Sulfide (PPS)	Aluminium Bronze JIS CAC702	Stainless Steel 316 JIS SCS14	Stainless Steel 316 JIS SCS14
		Aluminium Bronze JIS CAC702	Ductile Iron JIS FCD450 Dacrotized Coated.	Aluminium Bronze JIS CAC702	Aluminium Bronze JIS CAC702
		Ductile Iron JIS FCD450 Dacrotized Coated. (65mm to 200mm)		Ductile Iron JIS FCD450	Ductile Iron JIS FCD450
Stem	SUS420J2 / SUS392J1				
Paint Coating		Epoxy primer finish (Munsell N7)			
Actuators	Lock Lever	ç	X	X	X
	Worm Gear	ç	ç	ç	ç
	Centre Handle	ç	ç	X	X
	Pneumatic cylinder	ç	ç	ç	ç
	Motorized	ç	ç	ç	ç
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 its extreme operating conditions the 700G Valve is deemed to be Category III			

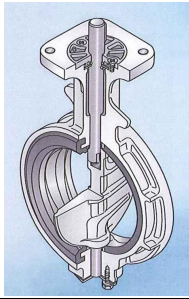
## 700G Basic Torque Chart

Size		Basic Torque Required (Nm)	
mm	inch		
40	1.1/2	5.9	
50	2	8.8	
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	

Notes :

- The data shows seating torque of 700G butterfly valve. It can be used for basic torque for actuator sizing.
- Safety margins should be added to the basic torque requirements for the following services :-
  - Wet Service ø min 30%
  - Slurry, Steam etc ø min 50%
  - Dry Air, Powder etc ø 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.



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### 700G Valve Dimensions

Nominal Size		Dimensions (mm)											App Weight (Kgs)
mm	inch	S1 □	d	D	D1	L	Ød2	H1	H2	H3	A1	A2	
40	1.1/2	8	45	80	70	35	10	61	132	21.5	11	10.5	1.5
50	2	8	56	90	70	43	10	68	138	21.5	11	10.5	1.8
65	2.1/2	8	69	115	70	46	10	79	151	21.5	11	10.5	2.5
80	3	10	84	126	70	46	12	86	156	22.5	11	11.5	2.6
100	4	12	104	146	70	52	14	103	167	22.5	11	11.5	3.4
125	5	14	130	181	102	56	16	118	191	27.5	11	16.5	5.4
150	6	14	154	211	102	56	18	135	202	27.5	11	16.5	7
200	8	18	199	256	102	60	22	177	227	30	10	2	10.4
250	10	24	253	322	102	68	28	215	280	35	5	3	18
300	12	24	302	367	102	78	32	253	312	35	5	30	25
350	14	N/A	337	410	140	78	32	276	348	48	-	-	42
400	16	N/A	394	469	140	102	40	338	383	54	-	-	64
450	18	N/A	441	525	140	114	46	368	413	65	-	-	87
500	20	N/A	492	580	140	127	50	403	453	79	-	-	114
600	24	N/A	584	682	165	154	55	458	528	79	-	-	191

