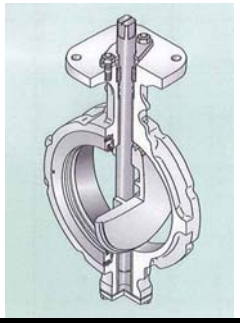

TOMOE PROCESS VALVES & CONTROL SYSTEMS

DATA SHEET

Product Data Sheet No : SD/PD/013 Rev 1
Title : Valve General specifications
Product : 304Y (Wafer) Valve
Date : 24th April 2012

Valve Nominal Size		40mm to 150mm	200mm	250mm to 300mm	
Applicable Flange Standards		JIS 5K/10K/16K/20K ANSI150lb BS 10 Tables 'E' & 'F' BS EN 1092 (Replaces BS 4504) PN6/PN10/PN16			
Maximum Working Pressure		20 Barg			
Body Shell Test		30 Barg			
Seat Leak Test		22 Barg			
Flow Direction		Bi-directional On the valve disc side (preferred direction) – 20 Bar			
Working Temperature Ranges		-20°C to +200°C			
Standard Materials	Body	Ductile Iron FCD450 Stainless Steel 304 JIS SCS13A			
	Disc	Stainless Steel 304 JIS SCS13A			
	Stem	SUS420J2, SUS392J1			
	Seat Ring	RPTFE (with carbon graphite) or the optional specification PFA & PTFE (white)			
	Gland Packing	RPTFE (Teflon) with Carbon Graphite			
Paint Coating		Modified Silicon Resin Coating (Munsell N7) for lower than +200°C Heat Resistant Silver Coating for above +200°C No paint for Stainless Steel Body			
Actuators	Lock Lever	√	X	X	X
	Worm Gear	√	√	√	√
	Pneumatic cylinder	√	√	√	√
	Motorized	√	√	√	√
Typical Valve Service		Chemical line applications			
Pressure Equipment Directive 97/23/EC Category		Under it's extreme operating conditions the 304Y Valve is deemed to be Category III.			

304Y Basic Torque Figures

Flow Direction		Bi-directional Pressure → ←	
Nominal Size		Pressure (Bar)	
mm	inch	0 to 10	10.1 to 20
40	1.1/2	8	11
50	2	9	12
65	2.1/2	15	19
80	3	22	28
100	4	37	48
125	5	58	76
150	6	83	108
200	8	147	196
250	10	206	275
300	12	284	373

Notes :
For actuator selection add 100% on to the basic torque figures given above.
If service temperature exceeds 120°C then add 150% on to the basic torque figures given above.

TOMOE PROCESS VALVES & CONTROL SYSTEMS

DATA SHEET

Product Data Sheet No : SD/PD/013 Rev 1
Title : Valve General specifications
Product : 304Y (Wafer) Valve
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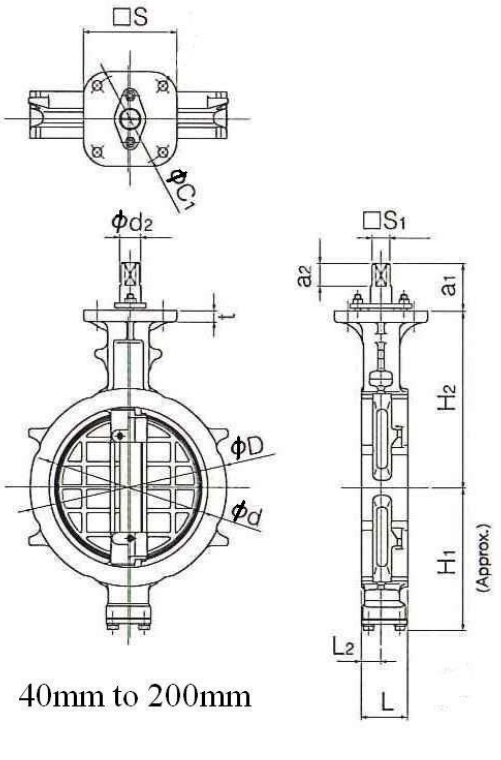
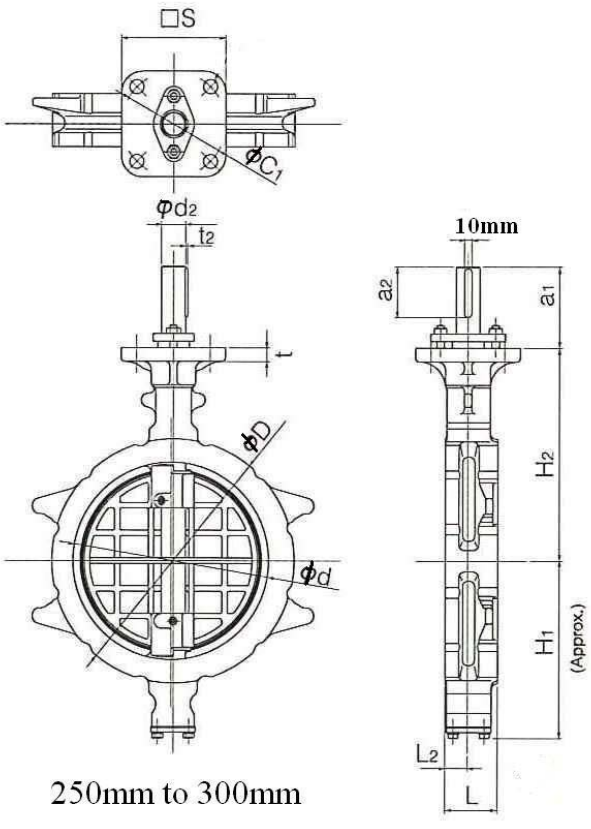
304Y Valve Dimensions

Nominal Size		Dimensions														Approx Weight (Kg)
mm	inch	Ød	ØD	L	L2	H1	H2	a1	a2	□S1	Ød2	t	t2	□S	ØC1	
40	1.1/2	48	81	33	15	64	118	47.5	11.5	8	10	12	-	70	70	2.1
50	2	60	97	43	21	74	125	47.5	11.5	10	12	12	-	70	70	2.5
65	2.1/2	74	117	46	22	85	138	47.5	11.5	12	14	12	-	70	70	3.6
80	3	89	127	46	21	95	147	52.5	16.5	14	16	15	-	102	102	4.7
100	4	112	152	52	22	110	170	52.5	16.5	14	16	15	-	102	102	5.7
125	5	137	183	56	24	139	185	52.5	16.5	16	20	15	-	102	102	8.8
150	6	163	213	57	23	164	205	55.5	20	18	22	15	-	125	125	12
200	8	213	263	62	26	190	235	63.0	30	24	28	15	-	125	125	18
250	10	263	325	70	30	236	283	108	67	-	32	18	3	140	140	32
300	12	315	368	80	34	246	310	113	72	-	35	18	3	140	140	39



40mm to 200mm



250mm to 300mm