



DATA SHEET

Product Data Sheet No : SD/PD/012 Rev 1
 Title : Valve General specifications

Product : 304A (Wafer) Valve
 Date : 19th April 2012

Valve Nominal Size		80mm to 150mm	150mm to 300mm	350mm to 600mm	
Applicable Flange Standards		JIS 10K/16K/20K ANSI1125lb/150lb BS 10 Table 'F' BS EN 1092 (Replaces BS 4504) PN10/PN16		JIS 5K/10K/16K/20K ANSI1125lb/150lb BS EN 1092 (Replaces BS 4504) PN10/PN16	
Maximum Working Pressure		20 Barg			
Body Shell Test		30 Barg			
Seat Leak Test		22 Barg			
Working Temperature Ranges		-29°C to +232°C (RPTFE)		-20°C to +232°C (RPTFE)	
Standard Materials	Body	Carbon Steel SCPH2-WCB	Stainless Steel 316 JIS SCS14A	Carbon Steel SCPH2-WCB	Stainless Steel 304 JIS SCS13A
	Disc	Stainless Steel 304 JIS SCS13	Stainless Steel 316 JIS SCS14A	Stainless Steel 304 JIS SCS13A	
	Stem	SUS420J2	SUS392J1 (Over 10°C) SUS316 (Over 10°C and under 16 Bar) SUS329J4L (Over 10°C and over 16 Bar)	SUS420J2 (Under 10 Bar) SUS630 (Over 10 Bar)	SUS304 (Under 10 Bar) SUS630 (Over 10 Bar)
	Seat Ring	RPTFE (Carbon reinforced Teflon) as standard. White Teflon seat, Fire safe seat as options.			
	Gland packing	RPTFE (Carbon reinforced Teflon)			
Paint Coating		Silicon Resin Coating (Grey Munsell N7) for lower than +200°C Heat Resistant Silver Coating for above +200°C No paint for Stainless Steel			
Actuators	Lock Lever	√	X	X	X
	Worm Gear	√	√	√	√
	Pneumatic cylinder	√	√	√	√
	Motorized	√	√	√	√
Typical Valve Service		Chemical processes, low pressure steam and gas applications.			
Pressure Equipment Directive 97/23/EC Category		Under it's extreme operating conditions the 304A Valve is deemed to be Category III.			

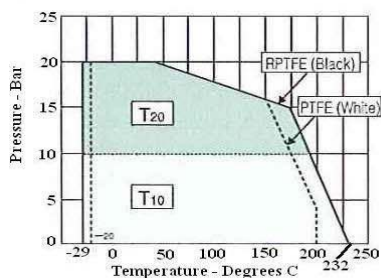
304A Basic Torque Figures

Nominal Size		Basic Torque (Nm)		Nominal Size		Basic Torque (Nm)		
mm	inch	T10	T20	mm	inch	Category A	Category B	Category C
80	3	21.6	27.5	350	14	716	903	1089
100	4	37.3	48.1	400	16	834	1275	1569
125	5	57.9	75.0	450	18	1138	1569	1863
150	6	83.4	108	500	20	1236	1834	2060
200	8	147	196	600	24	2354	3629	3923
250	10	206	275	Note : T10/T20 and Categories A, B & C can be found on Pressure-Temperature chart below.				
300	12	284	373					

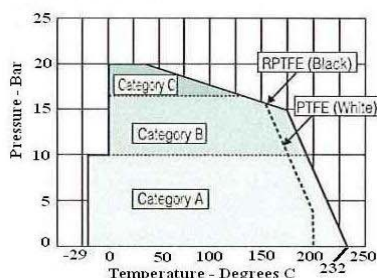
Actuators	Required torque for actuator selection
Manual operators	Basic torque + 30%
Pneumatic cylinder	Basic torque + 50%
Motorized	Basic torque + 100%

Note : In case of pneumatic cylinder with manual operation unit, the selection of manual operation unit shall be based on basic torque + 50%

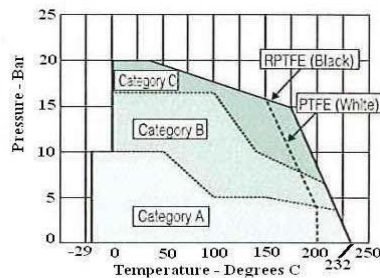
80mm to 300mm



350mm to 450mm



500mm - 600mm





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304A Valve Dimensions

Nominal Size		Dimensions (mm)														Approx Weight (Kg)
mm	inch	Ød	ØD	L	L2	H1	H2	H3	Ød2	□S1	a2	a3	t	□S	C1	
80	3	89	127	48	22	95	147	52.5	16	14	16.5	36	15	102	72	5
100	4	112	156	54	24	110	170	52.5	16	14	16.5	36	15	102	72	6.2
125	5	137	185	56	24	139	185	52.5	20	16	16.5	36	15	102	72	9.3
150	6	163	216	57	23	164	205	55.5	22	18	20	35.5	15	125	88.4	12.5
200	8	213	269	64	28	190	235	63	28	24	30	33	15	125	88.4	19
250	10	236	330	71	31	236	283	108	32	-	65.3	-	18	140	99	33
300	12	315	381	81	35	246	310	111	35	-	70.3	-	18	140	99	42
350	14	350	416	92	39.5	308	340	113	38	-	70	-	18	140	99	61
400	16	400	475	102	39	348	372	113	42	-	70	-	18	140	99	88
450	18	450	534	114	43	366	406	141.5	45	-	60	-	20	165	165	135
500	20	500	589	127	50	405	442	141.5	49	-	70	-	20	165	165	173
600	24	600	693	154	64	461	493	141.5	59	-	70	-	20	165	165	272

