

Three Way Change Over Valves



“VALTECH” robust design Three-way change over Valves with safety gland packing in flange design is manufactured with reference standard BS-1873 and can be supplied in Carbon Steel (ASTM-A-216 Gr. WCB), Stainless Steel (ASTM-A-351 Gr. CF8M/CF8/CF3/CF3M) and low temperature steel or any other material as per requirement.

USES

“VALTECH” change-over valves allows essential maintenance work to be carried out on a safety valve, without interruption of the plant operation, simply by changing over to the relevant stand by valve, thus protecting the plant against excessive overpressure. Plants are protected against undue excess pressure by switching over to the relevant standby safety valves. Full blow off capacity is maintained when the change-over-valve switches over from one side to the other. When using change-over-valves in tandem, both hand wheels are linked via a chain wheel in order to assure simultaneous operation.

Design features

- Extremely low resistance coefficients due to optimal flow deflection. On account of this safety valves can be combined to the greatest extent with change-over-valves of the same nominal size
- Compact weight-saving construction method

MANUFACTURING REFERENCE STANDARDS

Design	BS - 1873
Ends	Flanged to ANSI B 16.5
Testing	API 598 / BS-6755
Operation	Handwheel

MATERIAL OF CONSTRUCTION

Sr.No.	Parts Name	Material
		Carbon Steel
1	Body	
2	Bonnet	ASTM-A-216 Gr WCB
3	Body End	
4	Disc	ASTM-A-216 Gr WCB + 13% Cr
5	Disc Nut	
6	Spindle	Stainless Steel - 410
7	Gasket	Spiral Wound SS 304 / 316 with Grafoil Filled
8	Bonnet Stud Nut	Carbon Steel A-194 Gr.2H
9	Bonnet Stud	Alloy Steel A-193 Gr. B7
10	Gland Packing	Grafoil
11	Cross Bolt & Nut	Carbon Steel A-307 Gr.B /A-563 Gr.A
12	Gland Bush	Stainless Steel - 410
13	Gland Flange	Carbon Steel IS-2062
14	Eye Bolt & Nut	Carbon Steel A-307 Gr.B/ A-563 Gr.A
15	Yoke Nut	S.G. Iron ASTM-A-536 Gr. 80-55-06
16	Hand Wheel	Fabricated Carbon Steel
17	Hand Wheel Nut	Carbon Steel A-563 Gr.A

DIMENSIONS

SIZE		300#						
MM	INCH	B (Bore Dia)	C (RF Dia)	D (Flange OD)	E (Flange THK)	G (No.Of Holes)	H (Hole Dia)	K (PCD)
40	1.1/2"	38	73.2	155.4	20.6	4	22.2	114.3
50	2"	51	92	165.1	22.2	8	19.1	127
65	2.1/2"	63	104.6	190.5	25.2	8	22.2	149.4
80	3"	76	127	209.6	28.5	8	22.2	168.1
100	4"	102	157.2	254	31.8	8	22.2	200.2
125	5"	127	185.7	279.4	35.1	8	22.2	235
150	6"	152	215.9	317.5	36.6	12	22.2	269.7
200	8"	203	269.7	381	41.2	12	24.5	330.2
250	10"	254	324	444.5	47.8	16	28.6	387.4
300	12"	305	381	520.7	50.8	16	31.8	450.9

Butterfly Valve (Wafer Type)



“VALTECH” wafer design, BUTTERFLY VALVES are designed and manufactured with reference to standard API 609 for Pipelines 40NB and above. They are available in Wafer design sandwich type as well as Flanged ends. If required, Valves can be offered under any THIRD PARTY INSPECTION .

“VALTECH” BUTTERFLY VALVES are available in various materials like Conforming to Cast Iron with SG Iron Disc and Nitrile Sleeve, Cast Carbon Steel ASTM-A-216 Gr. WCB, Cast Alloy Steel like ASTM-A-217 Gr. WC-6 / WC-9; and Cast Stainless Steel like ASTM-A-351 Gr. CF-8, CF-3, CF-8M & CF-3M. Size range starts from 40 NB through 900NB and pressure rating 125# & 150#.

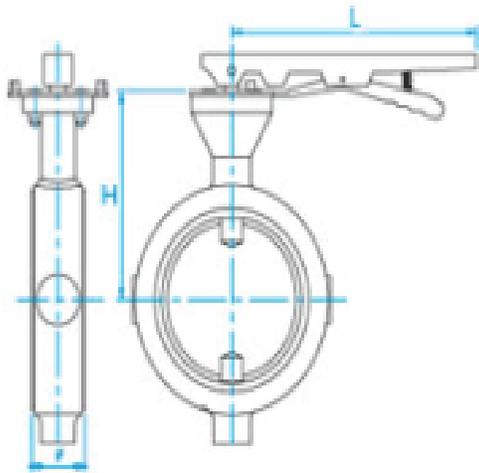
MANUFACTURING REFERENCE STANDARDS

Design	As per AWWA C 504, BS 5155 & API 609
Ends	Wafer Type
Testing	API 598
Operation	Lever & Gear

MATERIAL OF CONSTRUCTION

Sr.No.	Parts Name	Material
1	Body	C.I., WCB, CF8, CF8M etc.
2	Body Liner	NITRILE, EPDM, VITON, PTFE
3	Disc	SG IRON, 13% Cr., SS 304, SS 316

DIMENSIONS



DIMENSIONS

SIZE		150#			
MM	INCH	A	H	L	
40	1.1/2"	37	98	290	
50	2"	43	122	290	
65	2.1/2"	46	130	290	
80	3"	46	130	290	
100	4"	52	160	290	
150	6"	56	180	290	
200	8"	60	205	290	
250	10"	68	280	250	
300	12"	78	310	250	
350	14"	78	320	250	
400	16"	102	375	250	
500	20"	127	425	250	
600	24"	154	680	250	

Strainer ("Y" Type)



"VALTECH" 150# ANSI Flanged "Y" Strainers are Available in Carbon Steel and Stainless Steel. A machined, Tapered seat ensures a perfect fit for the removable, Stainless steel screen. 2" and larger come complete with Flanged blow-off cover, gasket & plug. 1 1/2" and smaller Come complete with solid threaded cover and gasket. May Be installed in vertical or horizontal pipelines with blow-off connection at the lower end of the screen..

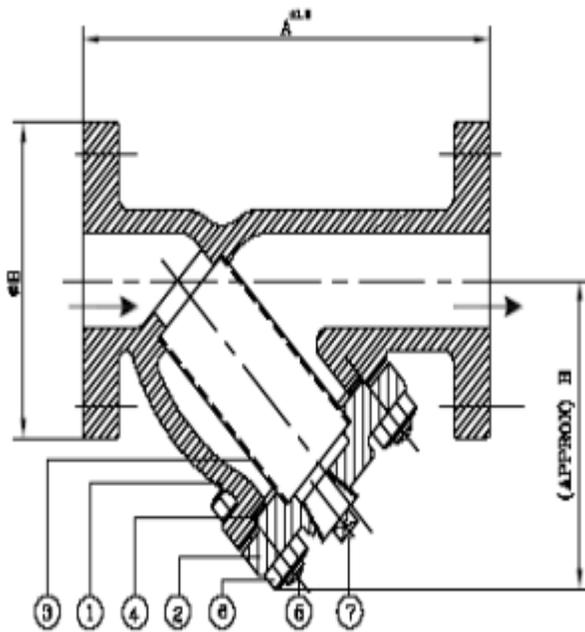
MANUFACTURING REFERENCE STANDARDS

Design	BS-5351
Ends	Socket weld, Screwed, Flanged
Testing	API 598

MATERIAL OF CONSTRUCTION

Sr.No.	Parts Name	Carbon Steel	Stainless Steel
1	Body	CCS A-216 WCB	CSS A-351 CF8/CF8M
2	Cover		
3	Screen	SS-304	
4	Gasket	Spiral Wound SS-304 With Grafoil Filled	
5	Stud	Alloy Steel A-193 Gr. B-7	
6	Stud Nut	Carbon Steel A-194 Gr. 2-H	
7	Plug	Stainless Steel TP-410	

DIMENSIONS



DIMENSIONS

SIZE 150#

MM	INCH	A	B	A
25	1"	127	114	110
40	1.1/2"	165	133	110
50	2"	178	152	140
65	2.1/2"	216	178	160
80	3"	241	184	180
100	4"	292	216	405
150	6"	406	279	230
200	8"	495	343	270

Jacketed Valves

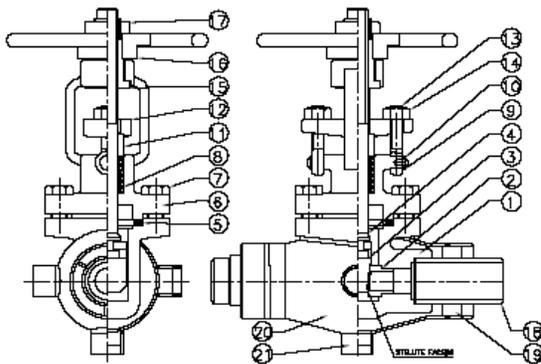


“VALTECH” robust design, Jacketed Gate Valves are designed and manufactured with reference to standard API 600 for Pipelines 50NB and above. They are available in Butt-weld and FLANGED ends. Hard Faced Trim material ensures perfect Sealing and longer life. Lapped Back Seat is provided to ensure re-packing/replacing of Gland Packing in stream, when the Valve is in full open condition which ensures maximum safety, convenience and economy. If required, Valves can be offered under any THIRD PARTY INSPECTION .

“VALTECH” Jacketed Gate Valves are available in various materials like Cast Carbon Steel conforming to ASTM-A-216 Gr. WCB, Cast Alloy Steel like ASTM-A-217 Gr. WC-6 / WC-9; and Cast Stainless Steel like ASTM-A-351 Gr. CF-8, CF-3, CF-8M & CF-3M. Size range starts from 50 NB through 900NB and pressure rating from 150# to 600#.

MANUFACTURING REFERENCE STANDARDS

Design	API 600 / ANSI B 16.34
Ends	Flanged to ANSI B 16.5 / Butt Weld to ANSI B 16.25
Testing	API 598
Operation	HANDWHEEL, GEAR, ACTUATOR.



MATERIAL OF CONSTRUCTION

Sr.No.	Parts Name	Material
		Stainless Steel
1	Body	ASTM-A-182 F316
2	Seat Ring	SS-316+Stellite #6
3	Wedge	SS-316/CF8M+Stellite #6
4	Spindle	SS-316
5	Gasket	S.S.304, Spiral Wound with Grafoil
6	Bonnet	ASTM-A-182 F316
7	Bonnet Bolt	ASTM-A-193 Gr. B7
8	Gland Packing	Grafoil
9	Washer	CS IS-2016
10	Screw	CS IS-1366
11	Gland Bush	SS-316
12	Gland Flange	SS-304
13	Eye Bolt	CS A-307 Gr. B
14	Eye Bolt Nut	CS A-563 Gr. A
15	Yoke Sleeve	SG Iron IS-1865 Gr.500/7
16	Hand Wheel	C.S.Fabricated/Ductile Iron
17	Lock Nut	Carbon Steel
18	Body Pipe	SS-316
19	Guide Plate	SS-304
20	Jacket	SS-304 (6 MM THK)
21	Socket	SS-304