

Radheya Valves



Manufacturer Of Industrial Valves

An ISO 9001:2008 Certified by 



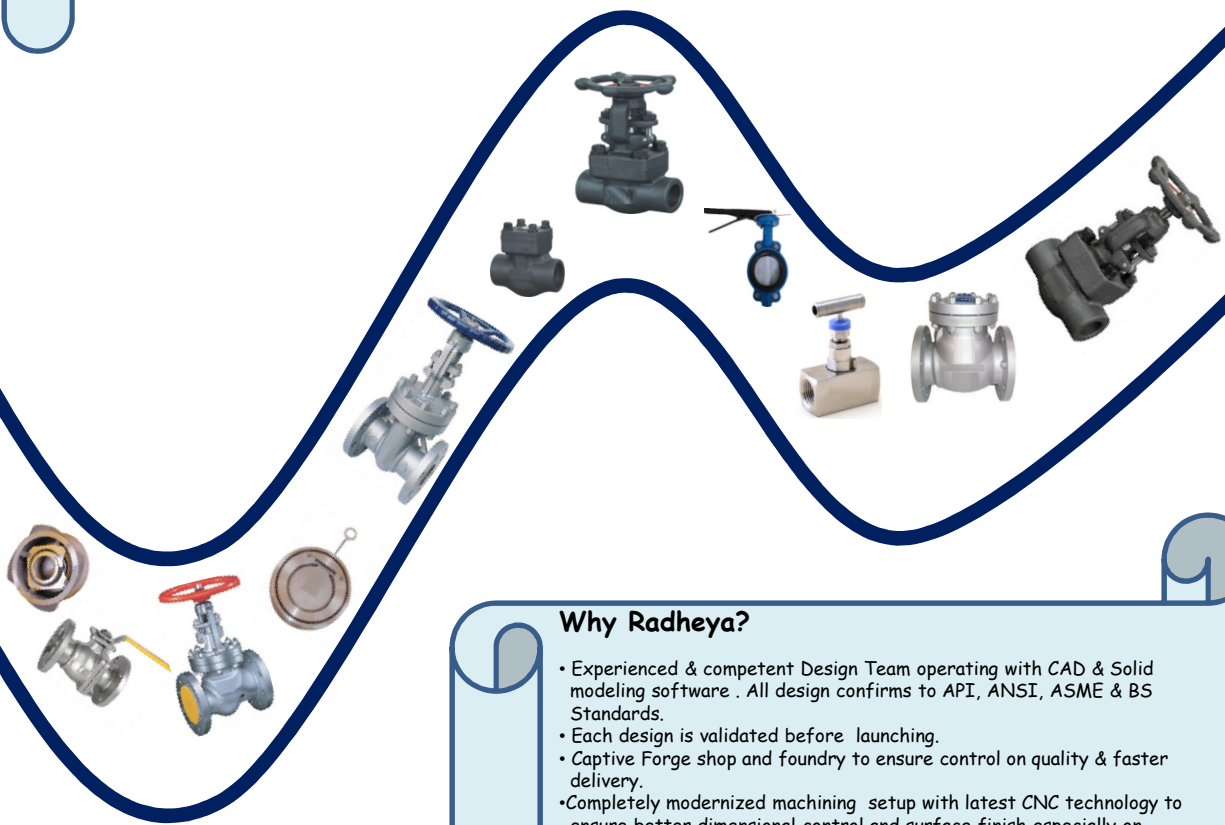


Company Profile

Established in 1985, AMAYA GROUP, is a diversified engineering conglomerate with strong cultural roots. It is an established Market Leaders and partner of choice for many Indian and MNC giants. Ever evolving strategy ensured it's presence in verticals like Manufacturing, Forging, Construction, Infrastructure and IT.

Incorporated in 2000, Radheya Machining Ltd (RML) is AMAYA group's flagship company. After excelling in auto components space, it has diversified into fluid engineering. It manufactures all kind of Industrial Valves for the reputed customers from Chemical, Oil & Gas, pharmaceutical, Power, Infrastructure, Steel, Sugar, Petro Chemicals, Refineries Industries and OEMs.

Powered by vision as "Customer's First Choice", RML's Quality Management Systems are certified for ISO 9001:2008 / TS 16949.



Why Radheya?

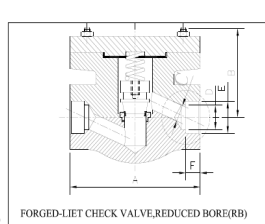
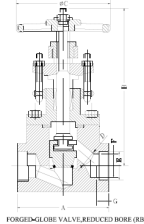
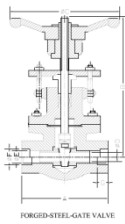
- Experienced & competent Design Team operating with CAD & Solid modeling software . All design confirms to API, ANSI, ASME & BS Standards.
- Each design is validated before launching.
- Captive Forge shop and foundry to ensure control on quality & faster delivery.
- Completely modernized machining setup with latest CNC technology to ensure better dimensional control and surface finish especially on sealing areas.
- In house heat treatment & fully equipped metallurgical testing laboratory.
- Excellent documentation for full traceability at all stages....
- Modern Assembly and semi-automatic test fixtures for error free inspection.
- In house fully integrated surface treatment facility including phosphating, nitriding and paint shop.
- Apart from ISO, plant is approved by IBR, TCS, Maha Genco and host of other reputed consultants.

Above all ensures best quality at extremely competitive price leading to better value for Customer.





Forged Steel Gate, Globe & Lift Check Valves (#800)



GATE#800

Size (mm/inch)	A	B	C
15(1/2")	88	154	110
20(3/4")	92	162	110
25(1")	106	171	110
32(1 1/4")	128	233	170
40(1 1/2")	128	233	170
50(2")	140	240	170

GLOBE#800

Size (mm/inch)	A	B	C
15(1/2")	88	160	110
20(3/4")	92	170	110
25(1")	106	176	110
32(1 1/4")	128	252	170
40(1 1/2")	128	252	170
50(2")	140	254	170

LIFT CHECK #800

Size (mm/inch)	A	B
15(1/2")	88	57
20(3/4")	92	65
25(1")	106	72
32(1 1/4")	128	109
40(1 1/2")	128	109
50(2")	140	112

TEST PRESSURE (bar)

Test Pressure (bar)		#800
Hydrostatic	Shell	207
	Seat	155
	Back Seat	155
Air	Seat	6.9

Technical Specifications

Manufacturing Standard	API 602/BS 5352/EN ISO 15761/ASME B 16.34
Face to face (A)	Manufacturing Standards
Testing Standard	API 598/BS EN-12266-I
Socket Weld (F)	ASME B16.11 (SCH-40, 80, 160, XXS)
Screwed End (F)	(NPT) B 1.20.1, (BSP, BSPT) BS 21/IS 554.
Butt Weld Ends	ASME B 16.25 (SCH-40, 80, 60, XXS)

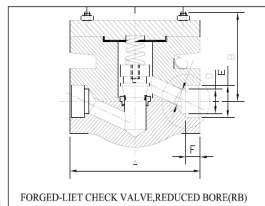
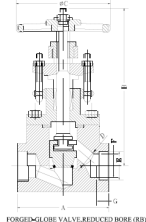
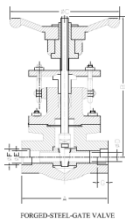
Standard Materials For Construction

Components	Material Of Construction
Body	ASTM A 105/182 F304/F316/F316L/F304L/F11/F22/350 LF2
Bonnet/Cover	ASTM A 105/182 F304/F316/F316L/F304L/F11/F22/350 LF2
Wedge/Plug/Disc	SS 410/CA 15/SS 304/SS 316/SS 316L/SS304L
Stem	SS410/SS 304/SS 316/SS 316L/SS304L
Seat Ring	SS410/SS 304/SS 316/SS 316L/SS304L
Gland Flange	A105/F304/F316
Gland Packing	Grafoil
Gasket	Spiral Wound SS 304/316 + Grafoil
Hand Wheel	Malleable Iron
Fasteners	B7/2H, B7M/2HM, B8/8, B8M/8M, L7/7

- Wedge/Plug/Disc and seat ring will be overlaid with stellite 6 on request for #800
- Mandatory for #1500
- Flanged Ended Forged Steel Valves will be available with WELDON/SLIPON/FLANGES (#150 #300 #600)
- Welded Bonnet For Construction #1500



Forged Steel Gate, Globe & Lift Check Valves (#1500)



#1500													
SIZE	A	B	C	D	E	F	G	E			H		Wt Kg
								SCH-40	SCH-80	SCH-160	OPEN	CLOSE	
15	9.0	90	110	10	21.8	13.5	23	15.8	13.9	11.8	175	160	2.5
20	12	95	110	13	27.2	14.5	28	20.9	18.9	15.9	182	170	3.5
25	15	105	170	13	33.9	17.3	35	26.7	24.3	20.7	215	195	4
40	27	130	170	13	48.8	21	50	40.9	38.1	34	250	215	12
50	34	200	140	16	61.2	22	62	52.5	49.3	42.9	295	255	13.5

TEST PRESSURE (bar)			
Hydrostatic	Shell	389	
	Seat	285	
	Back Seat	285	
Air	Seat	7	

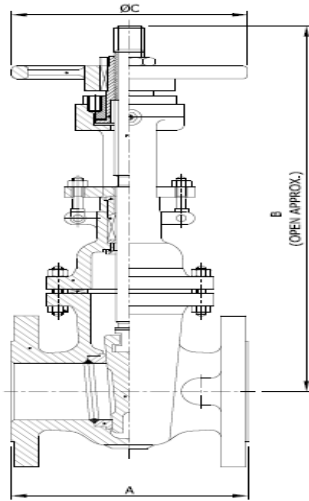


Standard Material Of Constructions				
Sr.No	Part	Material		
01	Body	A105	F11	F22
02	Seat Ring	SS410+ST6	SS410+ST6	SS410+ST6
03	Wedge	SS410+ST6	SS410+ST6	SS410+ST6
04	Bonnet	A105	F11	F22
05	Stem	SS410		
06	Packing	Graphite		
07	Gland	SS410		
08	Yoke Sleeve	NI-RESIST/SG-500		
09	Hand Wheel	Malleable Iron		
10	Bolt/Stud/Nut	B7/2H/B16/Gr4		

Technical Specification												
Code	A105	F304	F316	CA15	CF8	CF8M	410	304	316	F11	F22	LF2
Material Specification	A105	A182	A182	A217	A351	A351	A275	A276	A276	A182	A182	A182
		F204	F316	CA15	CF8	CF8M	410	304	316	F11	F22	LF2



Cast Steel Gate Valve #150, #300, #600, #900, #1500



- The Gate Valve will have OS & Y Construction rising stem
- Bolted Bonnet up to #600
- Pressure Scaled Bonnet for #900 and above
- Seal welded seat rings and wedges flexible type
- Stellite Seats Mandatory for # 900 & # 1500
- 100 % Radiographed Castings Mandatory for # 900 & # 1500

#150				
Size (mm/inch)	A	B	C	Wt Kg
50(2")	178	380	200	18
65(2 ½")	190	430	200	28
80(3")	203	470	250	32
100(4")	229	585	250	48
125(5")	254	690	300	65
150(6")	267	805	300	85
200(8")	292	990	450	145
250(10")	330	1230	450	220
300(12")	356	1460	600	295

#300				
Size (mm/inch)	A	B	C	Wt Kg
50(2")	216	380	200	20
65(2 ½")	241	410	250	30
80(3")	282	480	250	45
100(4")	305	580	300	80
125(5")	381	700	450	102
150(6")	403	820	450	140
200(8")	419	1020	450	230
250(10")	457	1260	600	375
300(12")	502	1500	600	480

#600				
Size (mm/inch)	A	B	C	Wt Kg
50(2")	292	425	250	32
65(2 ½")	330	445	250	42
80(3")	356	485	300	55
100(4")	432	620	450	95
125(5")	508	710	450	140
150(6")	559	845	600	220
200(8")	660	1110	600	380
250(10")	787	1135	750	605
300(12")	838	1800	GEAR	830

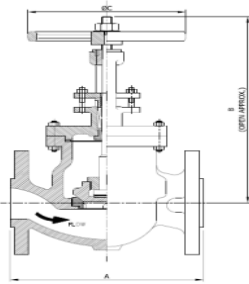
Pressure Seal Gate Valve #900 #1500

#900						
Size (mm/inch)	A		B	C	Wt Kg	
	FE	BWE			FE	BWE
50(2")	368	216	480	300	60	45
65(2 ½")	419	254	560	450	85	60
80(3")	381	305	630	450	95	70
100(4")	457	356	650	750	125	85
125(5")	559	432	850	GEAR	205	135
150(6")	610	508	1025	GEAR	340	210
200(8")	737	660	1300	GEAR	590	428
250(10")	838	787	1410	GEAR	795	655
300(12")	965	914	1625	GEAR	1120	870

#1500						
Size (mm/inch)	A		B	C	Wt Kg	
	FE	BWE			FE	BWE
50(2")	368	216	480	300	608	45
65(2 ½")	419	254	560	450	512	60
80(3")	470	305	630	600	014	70
100(4")	546	406	650	750	529	130
125(5")	673	483	850	GEAR	045	195
150(6")	705	559	1090	GEAR	088	285
200(8")	832	711	1450	GEAR	013	570
250(10")	991	864	1540	GEAR	302	915
300(12")	1130	991	1635	GEAR	230	1950



Cast Steel Globe Valve #150,#300,#600,#900,#1500



#150				
Size (mm/inch)	A	B	C	Wt Kg
50(2")	203	285	200	15
65(2 1/2")	216	295	200	32
80(3")	241	350	250	38
100(4")	292	360	300	55
125(5")	356	415	300	80
150(6")	406	445	450	95
200(8")	495	540	GEAR	165
250(10")	622	82	GEAR	250
300(12")	698	905	GEAR	385

#300				
Size (mm/inch)	A	B	C	Wt Kg
50(2")	266	295	200	17
65(2 1/2")	295	355	250	38
80(3")	318	365	300	50
100(4")	356	420	450	78
125(5")	400	475	450	115
150(6")	444	570	GEAR	170
200(8")	559	795	GEAR	210
250(10")	622	1245	GEAR	460
300(12")	711	1440	GEAR	740

#600				
Size (mm/inch)	A	B	C	Wt Kg
50(2")	292	340	250	45
65(2 1/2")	330	350	300	60
80(3")	356	415	450	70
100(4")	432	485	600	125
125(5")	508	590	GEAR	275
150(6")	559	1025	GEAR	355
200(8")	660	1165	GEAR	630
250(10")	787	1245	GEAR	855
300(12")	838	1340	GEAR	1035

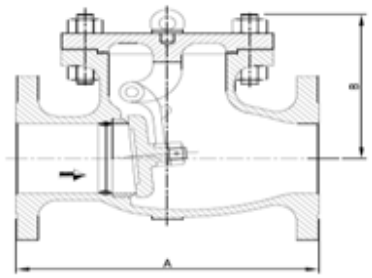
#900						
Size (mm/inch)	A		B	C	Wt Kg	
	FE	BWE			FE	BWE
50(2")	368	216	565	600	82	55
65(2 1/2")	419	254	578	600	95	60
80(3")	381	305	590	600	100	65
100(4")	457	356	699	GEAR	135	130
125(5")	559	432	1010	GEAR	230	210
150(6")	610	508	1145	GEAR	270	330
200(8")	737	660	1230	GEAR	690	635
250(10")	838	787	1348	GEAR	1310	830
300(12")	965	914	1505	GEAR	1910	1725

#1500						
Size (mm/inch)	A		B	C	Wt Kg	
	FE	BWE			FE	BWE
50(2")	368	216	480	600	82	82
65(2 1/2")	419	254	560	600	95	95
80(3")	470	305	630	GEAR	100	115
100(4")	546	406	650	GEAR	135	235
125(5")	673	483	850	GEAR	230	310
150(6")	705	559	1110	GEAR	270	470
200(8")	832	711	1205	GEAR	690	785
250(10")	991	864	1320	GEAR	1310	1495
300(12")	1130	991	1435	GEAR	1910	2310

- The Globe Valve will have OS & Y Construction rising stem and hand wheel
- Bolted Bonnet up to #600
- Pressure Scaled Bonnet for #900 # 1500 and above
- Threaded seat rings for #150 #300 and #600
- Seal welded seat rings for # 900 # 1500 and above
- Stellite Seats Mandatory for # 900 & # 1500
- 100 % Radiographed Castings Mandatory for # 900 & # 1500



Cast Steel Swing Check Valve #150,#300,#600,#900,#1500



#150				#300				#600			
Size (mm/inch)	A	B	Wt Kg	Size (mm/inch)	A	B	Wt Kg	Size (mm/inch)	A	B	Wt Kg
50(2")	203	120	12	50(2")	267	125	17	50(2")	292	140	28
65(2 1/2")	216	125	18	65(2 1/2")	292	135	22	65(2 1/2")	330	150	35
80(3")	241	140	30	80(3")	318	145	35	80(3")	356	160	65
100(4")	292	150	45	100(4")	356	165	60	100(4")	432	195	120
125(5")	330	165	55	125(5")	400	215	80	125(5")	508	230	165
150(6")	356	195	75	150(6")	444	230	110	150(6")	559	260	210
200(8")	495	230	105	200(8")	533	260	165	200(8")	660	305	360
250(10")	622	265	160	250(10")	622	310	255	250(10")	787	340	585
300(12")	698	320	230	300(12")	711	360	360	300(12")	838	395	725

Swing Check Valve 900# 1500#

#900						#1500					
Size (mm/inch)	A		B	Wt Kg		Size (mm/inch)	A		B	Wt Kg	
	FE	BWE		FE	BWE		FE	BWE		FE	BWE
50(2")	368	216	185	55	32	50(2")	368	216	185	55	32
65(2 1/2")	419	254	190	65	35	65(2 1/2")	419	254	190	65	35
80(3")	381	305	240	98	37	80(3")	470	305	240	90	37
100(4")	457	356	260	115	42	100(4")	546	406	260	135	65
125(5")	559	432	315	140	70	125(5")	673	483	315	170	95
150(6")	610	508	330	245	95	150(6")	705	559	330	215	140
200(8")	737	660	470	485	220	200(8")	832	711	470	570	355
250(10")	838	787	540	755	335	250(10")	991	863	540	995	605
300(12")	965	914	635	1045	545	300(12")	1130	990	635	1430	695

- Bolted Cover Up to #600
- Pressure sealed cover for #900 and above
- Seal welded seat rings for #150 and above
- Stellite Seats and Disc Mandatory for #900 # 1500
- 100 % Radiographic castings Mandatory for # 900 # 1500



Standard Materials Of Construction & Test Pressure For CS & CR Gate/Globe/Swing Check Valves

Technical Specifications Gate Valve		Technical Specifications Globe Valve		Technical Specifications Swing Check Valve	
Manufacturing Standard	API 600/BS 1414/ ISO 10434/ASME B 16.34	Manufacturing Standard	BS 1873/ASME B 16.34	Manufacturing Standard	BS 1868/ASME B 16.34
Face to face	ASME B16.10/BS 2080	Face to face	ASME B16.10	Face to face	ASME B16.10
Flange Dimn & Drilling	ASME B 16.5	Flange Dim & Drilling	ASME B 16.5	Flange Dim & Drilling	ASME B 16.5
Testing Standard	API 598/ASME B 16.34	Testing Standard	BSEN 12266-I/ASMEB16.34	Testing Standard	BSEN 12266-I/ASMEB16.34

TEST PRESSURE (bar)-Gate & Globe Valves						
Test Pressure (bar)		#150	#300	#600	#900	#1500
Hydrostatic	Shell	31	76	156	230	384
	Seat	21	56	102	169	282
	Back Seat	21	56	102	169	282
Air	Seat	6.9				

TEST PRESSURE (bar)- Swing Check Valve						
Test Pressure (bar)		#150	#300	#600	#900	#1500
Hydrostatic	Shell	31	76	156	230	384
	Seat	21	56	102	169	282

Material Of Construction	
Components	Material Of Construction
Body	ASTM A216 WCB/217 WC6/WC9/351 CF8/CF8M/CF3/CF3M/A 352 LCB
Bonnet/Cover/Yoke/Hinge	ASTM A216 WCB/217 WC6/WC9/351 CF8/CF8M/CF3/CF3M/A 352 LCB
Wedge/Plug/Disc	ASTM A216 WCB/217 WC6/351 CF8/CF8M/CF3/CF3M/A 352 LCB
Stem/Hinge Pin	ASTM A 276 SS 410 /SS304/SS 316/SS304L/SS316L
Seat Ring	ASTM A 216 WCB/A105/217 WC6/351 CF8/CF8M/CF3/CF3M/A 352 LCB
Gland Flange	A105/SS 304
Gland Packing	Moulded Grafoil
Gasket	Spiral Wound SS 304/304/316 + Grafoil
Hand Wheel	S G Iron/WCB
Fastners	ASTM A 193 B7/194 2H/B16/7/B7M/2HM,B8/8,B8M/8M,L7/7



Standard Materials For Construction

[illegible]

Technical Specifications ASME BALL Valve

Manufacturing Standard	ASME B 16.34
Face to face	ASME B16.10
Flange Dim & Drilling	ASME B 16.5
Testing Standard	API-6D/API607
Ends	FE/BSP/NPT/SWE

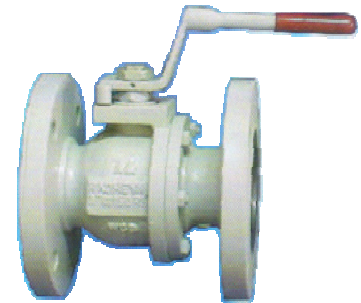
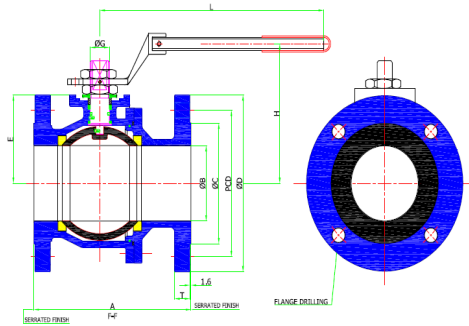
TEST PRESSURE (bar)-BALL Valves

Pressure Class	Low Pressure Pneumatic Test	Hydro Seat Test (1.1 x Design Pressure)	Hydro Shell Test (1.5 x Design Pressure)
#150	7	22	32
#300	7	58	79
#400	7	74	102
#600	7	112	153
#800	7	155	207
#1500	7	389	285





Ball Valve



ASME FLANGE 2P CLASS 150

SIZE		CLASS	A	T	B	C	D	G	H	L	FLANGE DRILLING			E	TOP FLANGE DRILLING		
INCH	DN										PCD	HOLE	NOS		PCD	HOLE	NOS
1/2"	15	150	108	8.5	11	35	90	8	61.5	170	60.3	16	4	19	-	-	-
3/4"	20	150	117	9.5	17	43	100	8	68	170	70	16	4	24.5	-	-	-
1"	25	150	127	9.6	23	51	110	10	95	140.6	79.4	16	4	37.9	50	5	4
1 1/2"	40	150	165	13	37	72	125	10	110	140.6	98.4	16	4	46.7	50	5	4
2"	50	150	180	19.1	49	92	150	14	110	264	120.6	19	4	54.8	50	5	4
3"	80	150	203	17.5	74	127	190	20	126	236	152.5	19	4	86.9	70	6.8	4
4"	100	150	229	22.3	98	157	230	28	196	375	190.5	19	8	115	102	8.5	4
6"	150	150	267	25.6	150	216	280	30	208	500	241.3	22.2	8	170	125	14	4

Design Features

Double body joint

We offer two body PTFE seals, one on the diameter & other on face to ensure tight sealing at the joints. To withstand high temperatures, we provide "O" Ring on the bore.

Triple stem sealing

We offer three point sealing to take care of atmospheric leakage & an "O" Ring seal with ground diameter for tight stem sealing which also improves effectiveness of stem gasket. Lock spacer prevents the movement of stem nut during operation and maintains leak proof throughout the life cycle of the valve.



Products

Antistatic design

Spring loaded steel balls are provided on stem and ball gives continuity, thereby reducing the possibility of static electricity that builds up during operation as ball can get rubbed continuously on seat. This can be a potential fire hazard, when it is an explosive media, it could be a disaster.

Blowout proof design

Radheya design gives stem entry from inside while doing assembly, which gives effective sealing just starting at the stem and at the same time collar prevents blow out of stem due to cavity pressure.

Fire safe design (Only for 2PC API Flanged valves).

In the design secondary metal-to-metal seat is provided, when the soft seat is burnt out or damaged during fire. Ball is forced against the metal lap proved and hence forms a metal-to-metal seat.



Ball Valve

ASME FLANGE 2P CLASS 300

SIZE		CLASS	A	T	B	C	D	G	H	L	FLANGE DRILLING			E	TOP FLANGE DRILLING		
INCH	DN										PCD	HOLE	NOS		PCD	HOLE	NOS
½"	15	300	140	12.7	11	35	95	8	61.5	170	66.7	16	4	19	-	-	-
1"	25	300	165	16	23	51	125	10	95	140.6	88.9	19	4	37.9	50	5	4
1 ½"	40	300	190	19.3	37	73	155.5	10	110	140.6	114.3	22.2	4	46.7	50	5	4
2"	50	300	216	21	49	92	165	14	110	264	127	19	4	54.8	50	5	4
3"	80	300	283	27	74	127	210	20	126	236	168.3	22	8	86.9	70	6.8	4

API FLANGE 2P CLASS 150

SIZE		CLASS	A	T	B	C	D	G	H	L	FLANGE DRILLING			E	TOP FLANGE DRILLING		
INCH	DN										PCD	HOLE	NOS		PCD	HOLE	NOS
½"	15	150	108	8.5	14	35	90	10	61.5	170	60.3	16	4	19	50	5	4
¾"	20	150	117	9.5	20	43	100	10	77	200	70	16	4	35	50	5	4
1"	25	150	127	12.7	25	51	110	12	95	200	79.4	16	4	50	50	5	4
1 ½"	40	150	165	16	38	73	125	14	110	200	98.4	16	4	64	50	5	4
2"	50	150	178	17.5	50	92	150	20	110	264	120.6	19	4	72	70	6.8	4
2 ½"	65	150	190	16.2	62	105	180	20	130	230	139.6	19	4	100	70	6.8	4
3"	80	150	203	22.3	74	127	190	28	155	325	152.5	19	4	96	102	8.5	4
4"	100	150	229	22.3	98	157	230	28	196	375	190.5	19	8	119.5	102	8.5	4
6"	150	150	395	25	150	216	280	50	208	500	241.3	22.2	8	170	102	8.5	4

API FLANGE 2P CLASS 300

SIZE		CLASS	A	T	B	C	D	G	H	L	FLANGE DRILLING			E	TOP FLANGE DRILLING		
INCH	DN										PCD	HOLE	NOS		PCD	HOLE	NOS
½"	15	300	140	12.7	14	35	95	10	61.5	170	66.7	16	4	19	50	5	4
¾"	20	300	152	14.5	20	43	115	10	77	200	82.6	19	4	35	50	5	4
1"	25	300	165	16	25	51	125	12	95	200	88.9	19	4	50	50	5	4
1 ½"	40	300	190	19	38	73	155	14	110	200	114.3	22	4	64	50	5	4
2"	50	300	216	21.3	50	92	165	20	110	264	127	19	8	72	70	6.8	4
3"	80	300	283	27	74	127	210	28	155	325	168.3	22	8	96	102	8.5	4
4"	100	300	305	30.2	98	157	255	28	196	450	200	22	8	119.5	102	8.5	4



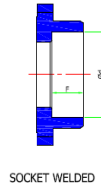
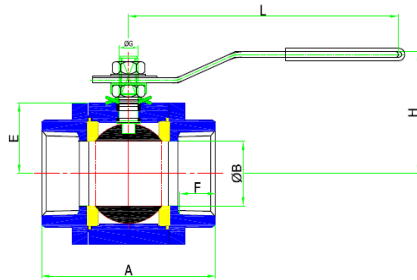
Operators

Valve up to size 6" class 150/4" class 300 can be supplied with handles for manual operation. Pad locking arrangement is provided as an option to prevent unauthorized operation. Valves from size 8" class 150 and 6" class 300 are available with gear operators for manual operation.

All valves can be supplied with pneumatic actuator or electrical actuator with suitable bracket and couplings and accessories for complete automation options such as fail open/close and positioned controlled. Valve can be mounted with manual overrides.



Ball Valve



SOCKET WELDED



3P PN64 ASME

SIZE		CLASS	A	F	B	SOCKET WELDED	G	H	L	E
INCH	DN									
½"	15	400	65	15	11	22	8	77	130	18
¾"	20	400	71	15	17	27.3	8	50	130	24.7
1"	25	400	86	17.5	23	34.1	10	100	150	30.5
1 ½"	40	400	112	19	37	49	12	112	180	38.5
2"	50	400	157.2	35.1	50	61.45	14	110	180	54.5

3P PN64 API

SIZE		CLASS	A	F	B	SOCKET WELDED	G	H	L	E
INCH	DN									
½"	15	800	68	13	14	22	10	72	130	24.5
¾"	20	800	81.5	17	20	27.4	10	78	130	29.5
1"	25	800	96.5	21.5	23	34.1	12	80	176	32.5
1 ½"	40	800	122	22	38	49	14	110	250	46

TEST PRESSURE (bar)

Test Pressure (bar)		#400	#800
Hydrostatic	Shell	74	207
	Seat	102	155
Air	Seat	6.9	

Technical Specifications

Manufacturing Standard	API-6D/API-607/ASME B 16.34
Face to face (A)	Manufacturing Standards
Testing Standard	API-6D/API607
Socket Weld (F)	ASME B16.11 (SCH-40, 80,160, XXS)
Screwed End (F)	(NPT) B 1.20.1, (BSP,BSPT) BS 21/IS 554.

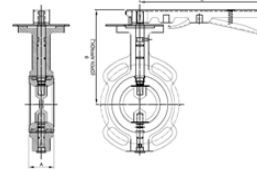




Butterfly Valve Wafer Type Lever Operated (PN10/PN16)

Feature : ** Gear operated Butterfly valve centric disc design, replaceable rubber seat

Size (mm/inch)	A	H1	H2	L	D	Wt Kg
50	43	73	145	170	52	2.3
65	46	77	151	170	63	3
80	46	85	180	170	78	3.5
100	52	109	192	260	102	4.9
125	56	123	210	260	124	6.2
150	56	139	235	260	154	7.9
200	60	170	270	260	204	12
250	68	206	530	**	251	25
300	78	243	570	**	300	32



TEST PRESSURE (bar)

Test Pressure (bar)		PN10	PN16
Hydrostatic	Shell	15	24
	Seat	10	16

Material Of Construction

Components	Material of Constructions
Body	IS 210 FG 220 (CI)
Disc	A 536 Gr 40 (DI) / A 351 Gr Cf8
Stem	A 276 Gr SS 410/304
Body Seat	EPDM + BACKLITE
Stem Bush	PTFE
Lever	Carbon Steel

Technical Specifications

Manufacturing Standard	BSEN 5155/API 609
Ends	Wafer type
Testing Standard	BSEN 12266-1/API 598

Wafer type Check Valves (PN 10 PN 16)

Dimension Chart

Size (mm/inch)	B	D	L
81(16")	40	1.5	22
96(16")	50	2	30
109(16")	65	2.5	40
130(16")	80	3	52
160(16")	100	4	71
190(16")	125	5	93
213(19")	150	6	114
270(28")	200	8	157
327(28")	250	10	195
377(38")	300	12	230
437(41")	350	14	270
487(41")	400	16	310
532(51")	450	18	360
585(60")	500	20	406
687(70")	600	24	490

TEST PRESSURE (bar)

Test Pressure (bar)	PN10	PN16
Sizes	40	60

Technical Specifications

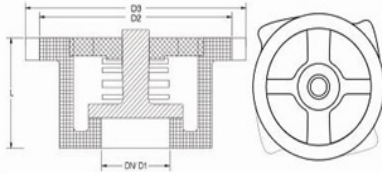
Bdoy	CI/MS, CS,SS
Disc	SGI/MS, SS
'O' Ring	EPDM, Neoprene, Viton



- Sturdy but simple design.
- 100% leak proof
- Short length - less space required.
- Light weight.
- Lower pressure drop across the valve.
- Low opening & closing pressures.
- Wide range of materials, temperature & pressure ratings
- Efficient flow characteristics.
- Can be mounted horizontally & vertically.
- Highly economical.
- Epoxy coating over the entire surface.



Disc Check Valve (Non Slam Check Valve)



Dimensional Details

Size	DN 15	DN 20	DN 25	DN 40	DN 50	DN 65	DN 80	DN 100	DN 150
D1	15 mm	19 mm	25 mm	40 mm	50 mm	65 mm	80mm	100 mm	150 mm
L	17 mm	20 mm	23 mm	32 mm	40 mm	46 mm	50 mm	60 mm	105 mm
D2	42 mm	52 mm	63 mm	85 mm	95 mm	115 mm	133 mm	154 mm	222 mm
D3	56 mm	67 mm	80 mm	101 mm	104 mm	136 mm	154 mm	184 mm	252 mm

Technical Specifications

Design STD	DIN EN 558-2
Testing Standard	DIN 3230
Rating	PN25/PN40
Size	DN15 – DN150

Material Of Construction

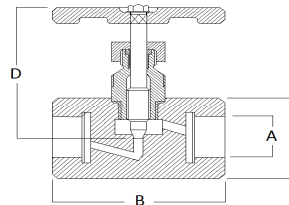
1	Body	CF8M, CF8, CF3M, CF3, WCB Etc.
2	Disc	CF8M, CF8, CF3M, CF3, WCB Etc.
3	Star (Yoke)	CF8M, CF8, CF3M, CF3, WCB Etc.
4	Spring	SS 316, SS 304, SS 316L, 304L Etc.

Needle Valve

CODE	ASTM SPECIFICATION
410	A276-410
304	A276-304
316	A276-316
CS	BS 970-EN8

ENDS	STANDARD
SCREWED	ANSI B 2.1 BS 21 IS: 554
SOCKET WELD	ANSI B 16.11 IS: 4712
FLANGE END	ANSI B 16.5

PART NO	PART NAME	MATERIAL
1	BODY	SS 410, 304, 316/CS
2	BONNET	SS 410, 304, 316/CS
3	GLAND NUT	SS 410, 304, 316/CS
4	GLAND	SS 410, 304, 316/CS
5	SPINDLE	SS 410, 304, 316/CS
6	HAND WHEEL	STEEL/BAKELITE
7	NUT	STEEL/SS
8	WASHER	STEEL/SS
9	PACKING	PTFE



TEST PRESSURE BAR (#800)

HYD	SHELL 207
	SEAT 152
AIR	SEAT 6.0



Dimensional Details

SIZE	A	B	C	D	TESTED FOR	SIZE (MM)
1/4"	BSP/NPT	50	27	75	400 BAR	6
3/8"	BSP/NPT	50	27	75	400 BAR	10
1/2"	BSP/NPT	58	34	90	400 BAR	15
3/4"	BSP/NPT	70	38	100	400 BAR	20
1"	BSP/NPT	75	45	108	400 BAR	25
1 1/4"	BSP/NPT	80	62	110	400 BAR	32
1 1/2"	BSP/NPT	80	64	110	400 BAR	40

Salient Features

- Investment Castings Body, Star, Disc Metal to Metal Zero Leak Proof and also Available in Rubber/PTEF Seating on bulk requirement



Trunnion Mounted Ball Valves 2Ps Bolted Series

Ends: Flanged and Welding Ends

Material Of Constructions

Body and Tail Piece	WCB,WCC,LCB,LCC,CF8,CF8M,CF3,CF3M,CD4MCu,CN7M,CD3MN
	CN3MN,CW6M And N7M. Other Materials on request.
Ball	WCB with ENP,LCB with ENP,CA15,CF8,CF8M,CF3,CF3M,CD4MCu.
	CN7M,CD3MN,CN3MN,CW6M and N7M. Other Materials on request.
Stem and Gland	410,304,316,A20,31803,Inconel,nickel alloys
Seat Insert	PTFE, RPTFE, Nylon, Delrin, Peek, Devlon, Metal
Seat Retainer	WCB,WCC,LCB,LCC,CF8,CF8M,CF3,CF3M,CD4MCu,CN7M,CD3MN
	CN3MN,CW6M,and N7M. Other Materials on request
Stem Washer	RPTFE
Stem Seal	Grafoil, Viton
Body Seal	Grafoil,Spiral wound gasket with filler
Coil Spring	Inconel *-750
Body Stud	B7,L7,B8,B8M
Body Nut	2H,2HM,8,8M

Optional Valve Operators

Lever or gear
Pneumatic actuators
Electric actuators
Hydraulic actuators
Gas over oil actuators



Size (MM)		A (Flanged ends)			B (Welding ends)			E	
RB	FB	#150	#300	#600	#150	#300	#600	#150,300,600	
								RB	FB
-	50	178	216	292	216	216	292	-	49
65*30	65	190	241	330	241	241	330	49	62
80*50	80	203	283	356	283	283	356	49	74
80*65								62	74
100*80	100	229/305	305	432	305	305	432	74	100
150*100	150	394	403	559	457	457	559	100	150
200*150	200	457	419/502	660	521	521	660	150	252
250*150	250	533	457/568	787	559	559	787	150	252
250*200							787	201	252
300*200	300	610	502/648	838	635	635	838	201	303
350*250	350	686	762	889	762	762	889	252	334
400*300	400	762	838	991	838	838	991	303	385
450*350	450	864	914	1093	914	914	1092	334	436
500*400	500	915	991	1194	991	991	1194	385	487
550*450	550	@	1092	1295	@	1092	1295	436	538
600*500	600	1067	1143	1397	1143	1143	1397	487	589
650*550	650	1143	1245	1448	1245	1245	1448	538	633
700*600	700	1245	1397	1651	1397	1397	1651	589	735
750*650								633	735

Reduced bore valves are also available with one, two and three size smaller bore.
Dimensions of #2500 are available on request
@ - Dimensions not listed in API 6D. These will be as per manufacturers standard.

On Request

Emergency sealant injection
Double piston seat effect
Compliance to Nace MR0175 for sour gas service
Transition pups for valves with welding ends
Vent and drain valve
Stem extension

Features

Live loaded stem design meets stringent fugitive norms
Improved seat for long life and bubbled tight shut off
Single piston seat effect
Choice of seat material
Fire safe and antistatic design confirms to API 607 and API 6FA
Design standard API 6D and ANSI B16.34

Radheya Valves



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