

www.sagarvalve.com



We Support



VALVE

ISO 9001 Certified Company



COMMITTED
IN QUALITY

About Company

Company Overview :

- Sagar Engineering is considered as one of the Leading Manufacturers & Supplier of industrial Valve in India. We achieved to become the most trustworthy & well renowned brand in our sector. Sagar Engineering manufacturing range includes the Ball Valve, Butterfly Valve, Check Valve, Gate Valve, Globe Valve, & all types of industrial valves & Automation. Our Organization is ISO 9001-2015 certified Co.

Our all the products pass through the series of quality check right from the raw materials to finish products by qualified & experienced Team. The company has sufficient covered area to carry out it's a all the operation easily and rapidly.

- Sagar Engineering Valves caters the products in the various sectors like chemical, Petroleum Oil, Fertilizers, Rubber, Sugar, Paper, Paint, Pharmaceuticals, Distilleries and many more.
- The state of the art Corporate Office & manufacturing facility is located in Metoda, Rajkot (Gujarat).
- With a team that is ever enthusiastic and raring to go, Team Triton is all set to tack on the future with renewed zeal and passion.
- We have acknowledged the needs of our esteemed customers and served them with an impressive range of Reliable and quality products. We always believe that quality and client satisfaction are the parameters of success and today this has a made us one of the most.

Our Vision:

We Vision to become a leading global entity in the field of "Valves and Automation" With a remarkable market share and a very well developed customer base. And to achieve our set goal, we aspire to provide our customer with superlative quality products in bulk availability, best after sale service through continuous improvement. Moreover we also focus on fulfilling their needs with best suiting custom designed solutions through rigorous research and development.

Mission:

Strengthen internal operating, process, streamline the vendor base and establish pro-activea planning mechanism to support the establishment of sales and service globally.

Our Objectives:

1. Achieve continual business growth by increasing Customer Satisfacton.
2. On time Delivery.
3. Minimization of Customer Complaints.
4. Reduce Rework and save Quality Loss.



About Company

After Sales Service:

After supplying Sagar Engineering products we are committed to our customers globally to provide access to quality service and support in terms of desk support, Technical guidance, and availability of spares and expert visits on site. Sagar Engineering always tries to be in touch with customers and Takes its role as a supplier very seriously so that customer should be at peace.

Warranty Support:

Sagar Engineering's standard warranty on all products is 12 month from date of dispatch. Products found defective under warranty period are returned to Sagar Engineering Factory for repair or replacement or service engineer is deputed at site to rectify the same at site.

Spares Support:

Sagar Engineering tries to ship the required spares for any Sagar Engineering products within shortest possible time once customers provide the details of valve Sr. No.

QUALITY:

Sagar Engineering Valves are designed and manufactured to confirm recognized standards of the Valve industry.

Stringent Quality checks are carried out at each stage of production to make our Valves operate trouble free long time results & safe to use under the recommended pressure and temperature conditions. Each Valve is made from finest material & is subject to stringent, rigorous check & inspection at every stage for recommended pressure to stringent, high/low pressure, high/low temperature and for highly corrosive fluids.

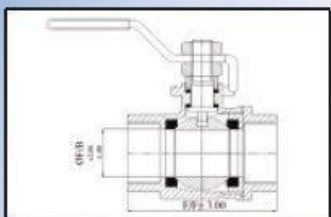
All Valves are 100% tested for..

- > Hydraulic Test.
- > Pneumatic Test.
- > Dimensional Check.
- > Visual Check.



Our Certificates





1 Piece Design Screwed Ball Valve



DIMENSIONS

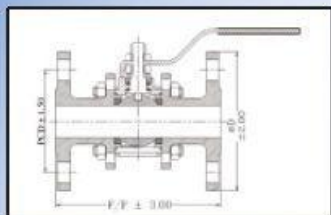
150#

Size	NB	F/F	Threaded Type
15 MM	12.50	58.50	BSP / NPT
20 MM	19.00	68.50	BSP / NPT
25 MM	25.00	76.50	BSP / NPT
32 MM	32.00	90.00	BSP / NPT
40 MM	38.00	100.00	BSP / NPT
50 MM	50.00	118.00	BSP / NPT

Design STD.	As Per ISO 17292 & BS 5351
End Connection	Screwed End
Testing STD	As per ISO 17292/ API 598
Size 150#	15MM to 50MM

BILL OF MATERIALS

Sr No	Description	Material
1	Body	WCB/ CF8/ CF8M
2	Cap	WCB/ CF8/ CF8M
3	Ball	CF8/ CF8M
4	Stem	SS304/ SS316
5	Gland	SS304/ SS316
6	Seat Ring	PTFE/ GFT/ CFT
7	Body Seal	PTFE/ GFT/ CFT
8	Gland Packing	PTFE/ GFT/ CFT
9	Stem Seal	PTFE/ GFT/ CFT
10	Gland Nut	MS/ SS304
11	Lever Nut	MS/ SS304
12	Lever	MS/ SS
13	Lever Sleeve	PVC
14	End Cap	PVC



3 Piece Design Flange End Ball Valve



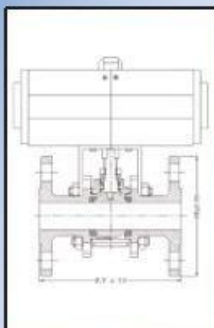
DIMENSIONS

150#				300#		
Size	ØD	PCD	F/F	ØD	PCD	F/F
15 MM	90.00	60.50	108.00	95.00	66.50	140.00
20 MM	100.00	70.00	117.00	115.00	82.50	152.00
25 MM	110.00	79.50	127.00	125.00	89.00	165.00
40 MM	125.00	98.50	165.00	155.00	114.50	190.00
50 MM	150.00	120.50	178.00	165.00	127.00	216.00
65 MM	180.00	139.50	191.00	190.00	149.00	241.00
80 MM	190.00	152.50	203.00	210.00	168.50	283.00
100 MM	230.00	190.50	229.00	255.00	200.00	305.00
150 MM	280.00	241.50	267.00	320.00	270.00	403.00
200 MM	345.00	298.50	292.00	380.00	330.00	419.00
250 MM	405.00	362.00	330.00	445.00	387.50	457.00
300 MM	485.00	432.00	356.00	520.00	451.00	502.00

Design STD.	As Per ISO 17292 & BS 5351
End Connection	Flanged End
Testing STD	As per ISO 17292/ API 598
Size 150#	15MM to 300MM
Size 300#	15MM to 300MM

BILL OF MATERIALS

Sr No	Description	Material
1	Body	C.I/ WCB/ CF8/ CF8M
2	Adaptor	C.I/ WCB/ CF8/ CF8M
3	Ball	CF8/ CF8M
4	Stem	SS304/ SS316
5	Gland	SS304/ SS316
6	Seat Ring	PTFE/ GFT/ CFT
7	Body Seal	PTFE/ GFT/ CFT
8	Gland Packing	PTFE/ GFT/ CFT
9	Stem Seal	PTFE/ GFT/ CFT
10	Gland Nut	MS/ SS304
11	Lever Nut	MS/ SS304
12	Lever	MS/ SS
13	Stud & Nut	MS/ SS304
14	Lever Sleeve	PVC
15	End Cap	PVC



3 Piece Design Pneumatic Operated Ball Valve



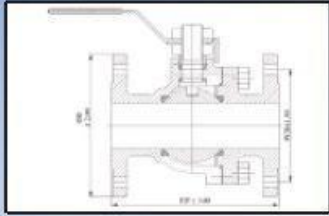
DIMENSIONS

150#				300#		
Size	ØD	PCD	F/F	ØD	PCD	F/F
15 MM	90.00	60.50	108.00	95.00	66.50	140.00
20 MM	100.00	70.00	117.00	115.00	82.50	152.00
25 MM	110.00	79.50	127.00	125.00	89.00	165.00
40 MM	125.00	98.50	165.00	155.00	114.50	190.00
50 MM	150.00	120.50	178.00	165.00	127.00	216.00
65 MM	180.00	139.50	191.00	190.00	149.00	241.00
80 MM	190.00	152.50	203.00	210.00	168.50	283.00
100 MM	230.00	190.50	229.00	255.00	200.00	305.00
150 MM	280.00	241.50	267.00	320.00	270.00	403.00
200 MM	345.00	298.50	292.00	380.00	330.00	419.00
250 MM	405.00	362.00	330.00	445.00	387.50	457.00
300 MM	485.00	432.00	356.00	520.00	451.00	502.00

Design STD.	As Per ISO 17292 & BS 5351
End Connection	Flanged End
Testing STD	As per ISO 17292/ API 598
Size 150#	15MM to 300MM
Size 300#	15MM to 300MM

BILL OF MATERIALS

Sr No	Description	Material
1	Body	C.I/ WCB/ CF8/ CF8M
2	Adaptor	C.I/ WCB/ CF8/ CF8M
3	Ball	CF8/ CF8M
4	Stem	SS304/ SS316
5	Gland	SS304/ SS316
6	Seat Ring	PTFE/ GFT/ CFT
7	Body Seal	PTFE/ GFT/ CFT
8	Gland Packing	PTFE/ GFT/ CFT
9	Stem Seal	PTFE/ GFT/ CFT
10	Gland Nut	MS/ SS304
11	Bracket	MS/ SS
12	Stud & Nut	MS/ SS
13	Actuator	Single/ Double Acting



2 Piece Design Flange End Ball Valve



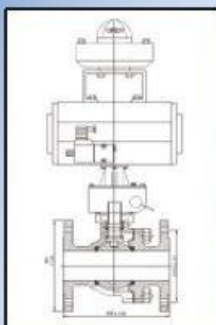
DIMENSIONS

150#				300#		
Size	ØD	PCD	F/F	ØD	PCD	F/F
15 MM	90.00	60.50	108.00	95.00	66.50	140.00
20 MM	100.00	70.00	117.00	115.00	82.50	152.00
25 MM	110.00	79.50	127.00	125.00	89.00	165.00
40 MM	125.00	98.50	165.00	155.00	114.50	190.00
50 MM	150.00	120.50	178.00	165.00	127.00	216.00
65 MM	180.00	139.50	191.00	190.00	149.00	241.00
80 MM	190.00	152.50	203.00	210.00	168.50	283.00
100 MM	230.00	190.50	229.00	255.00	200.00	305.00
150 MM	280.00	241.50	267.00	320.00	270.00	403.00
200 MM	345.00	298.50	292.00	380.00	330.00	419.00
250 MM	405.00	362.00	330.00	445.00	387.50	457.00
300 MM	485.00	432.00	356.00	520.00	451.00	502.00

Design STD.	As Per ISO 17292 & BS 5351
End Connection	Flanged End
Testing STD	As per ISO 17292/ API 598
Size 150#	15MM to 300MM
Size 300#	15MM to 300MM

BILL OF MATERIALS

Sr No	Description	Material
1	Body	C.I/ WCB/ CF8/ CF8M
2	Adaptor	C.I/ WCB/ CF8/ CF8M
3	Ball	CF8/ CF8M
4	Stem	SS304/ SS316
5	Gland	SS304/ SS316
6	Seat Ring	PTFE/ GFT/ CFT
7	Body Seal	PTFE/ GFT/ CFT
8	Gland Packing	PTFE/ GFT/ CFT
9	Stem Seal	PTFE/ GFT/ CFT
10	Gland Nut	MS/ SS304
11	Lever Nut	MS/ SS304
12	Lever	MS/ SS
13	Stud/ Bolts	MS/ SS304
14	Lever Sleeve	PVC
15	End Cap	PVC



2 Piece Design Pneumatic Operated Ball Valve

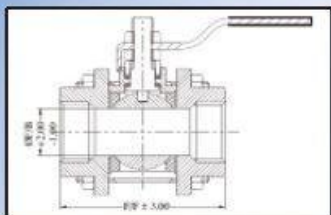
DIMENSIONS

150#				300#		
Size	ØD	PCD	F/F	ØD	PCD	F/F
15 MM	90.00	60.50	108.00	95.00	66.50	140.00
20 MM	100.00	70.00	117.00	115.00	82.50	152.00
25 MM	110.00	79.50	127.00	125.00	89.00	165.00
40 MM	125.00	98.50	165.00	155.00	114.50	190.00
50 MM	150.00	120.50	178.00	165.00	127.00	216.00
65 MM	180.00	139.50	191.00	190.00	149.00	241.00
80 MM	190.00	152.50	203.00	210.00	168.50	283.00
100 MM	230.00	190.50	229.00	255.00	200.00	305.00
150 MM	280.00	241.50	267.00	320.00	270.00	403.00
200 MM	345.00	298.50	292.00	380.00	330.00	419.00
250 MM	405.00	362.00	330.00	445.00	387.50	457.00
300 MM	485.00	432.00	356.00	520.00	451.00	502.00

Design STD.	As Per ISO 17292 & BS 5351
End Connection	Flanged End
Testing STD	As per ISO 17292/ API 598
Size 150#	15MM to 300MM
Size 300#	15MM to 300MM

BILL OF MATERIALS

Sr No	Description	Material
1	Body	C.I/ WCB/ CF8/ CF8M
2	Adaptor	C.I/ WCB/ CF8/ CF8M
3	Ball	CF8/ CF8M
4	Stem	SS304/ SS316
5	Gland	SS304/ SS316
6	Seat Ring	PTFE/ GFT/ CFT
7	Body Seal	PTFE/ GFT/ CFT
8	Gland Packing	PTFE/ GFT/ CFT
9	Stem Seal	PTFE/ GFT/ CFT
10	Gland Nut	MS/ SS304
11	Bracket	MS/ SS304
12	Stud & Bolt	MS/ SS304
13	End Cap	PVC
14	MOR	Manual Override (Gear Box)
15	Actuator	Single/ Double Acting
16	Solenoid Valve	3/2 Direct Acting Namur Type
17	Limit Switch	Micro Switch Honeywell



3 Piece Design Scr/Scw End Ball Valve



DIMENSIONS

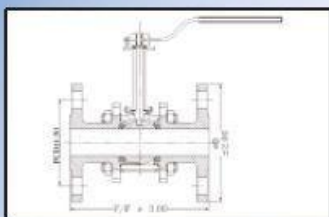
150#

Size	NB	F/F	End Type
15 MM	12.50	62.50	BSP / NPT/ SW
20 MM	19.00	74.00	BSP / NPT/ SW
25 MM	25.00	87.00	BSP / NPT/ SW
40 MM	38.00	109.00	BSP / NPT/ SW
50 MM	50.00	110.00	BSP / NPT/ SW

Design STD.	As Per ISO 17292 & BS 5351
End Connection	SCR/ SW
Testing STD	As per ISO 17292/ API 598
Size 150#	15MM to 50MM
Size 300#	15MM to 50MM

BILL OF MATERIALS

Sr No	Description	Material
1	Body	WCB/ CF8/ CF8M
2	Adaptor	WCB/ CF8/ CF8M
3	Ball	CF8/ CF8M
4	Stem	SS304/ SS316
5	Gland	SS304/ SS316
6	Seat Ring	PTFE/ GFT/ CFT
7	Body Seal	PTFE/ GFT/ CFT
8	Gland Packing	PTFE/ GFT/ CFT
9	Stem Seal	PTFE/ GFT/ CFT
10	Gland Nut	MS/ SS304
11	Lever Nut	MS/ SS304
12	Stud & Nut	MS/ SS304
13	Lever	MS/ SS
14	Lever Seleve	PVC
15	End Cap	PVC



Extended Stem Ball Valve

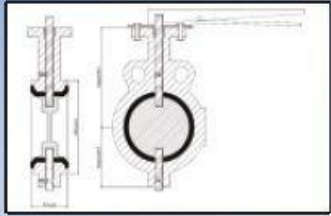
Design STD.	As Per ISO 17292 & BS 5351
End Connection	Flanged End
Testing STD	As per ISO 17292/ API 598
Size 150#	15MM to 200MM
Size 300#	15MM to 200MM

BILL OF MATERIALS

Sr No	Description	Material
1	Body	WCB/ CF8/ CF8M
2	Adaptor	WCB/ CF8/ CF8M
3	Ball	CF8/ CF8M
4	Stem	SS304/ SS316
5	Gland	SS304/ SS316
6	Seat Ring	PTFE/ GFT/ CFT
7	Body Seal	PTFE/ GFT/ CFT
8	Gland Packing	PTFE/ GFT/ CFT
9	Stem Seal	PTFE/ GFT/ CFT
10	Gland Nut	MS/ SS304
11	Lever Nut	MS/ SS304
12	Lever	MS/ SS
13	Stud & Nut	MS/ SS304
14	Lever Sleeve	PVC
15	End Cap	PVC

DIMENSIONS

150#				300#		
Size	ØD	PCD	F/F	ØD	PCD	F/F
15 MM	90.00	60.50	108.00	95.00	66.50	140.00
20 MM	100.00	70.00	117.00	115.00	82.50	152.00
25 MM	110.00	79.50	127.00	125.00	89.00	165.00
40 MM	125.00	98.50	165.00	155.00	114.50	190.00
50 MM	150.00	120.50	178.00	165.00	127.00	216.00
65 MM	180.00	139.50	191.00	190.00	149.00	241.00
80 MM	190.00	152.50	203.00	210.00	168.50	283.00
100 MM	230.00	190.50	229.00	255.00	200.00	305.00
150 MM	280.00	241.50	267.00	320.00	270.00	403.00
200 MM	345.00	298.50	292.00	380.00	330.00	419.00



Butterfly Valve

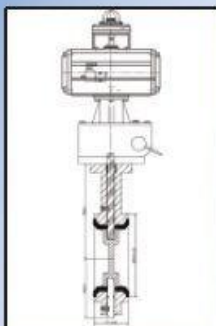
DIMENSIONS

Size	F/F	A (Aprox)	B (Aprox)	WD (Aprox)
50 MM	43.00	134.00	73.00	97.00
65 MM	46.00	135.00	75.50	107.00
80 MM	46.00	144.00	83.00	121.50
100 MM	52.00	176.50	110.00	155.00
125 MM	56.00	205.00	131.00	184.00
150 MM	56.00	218.00	139.50	210.50
200 MM	60.00	245.50	168.00	265.50
250 MM	68.00	272.50	208.50	224.50
300 MM	78.00	305.00	246.50	364.50
350 MM	78.00	317.50	258.00	425.00
400 MM	102.00	367.00	327.50	484.50

Design STD.	As Per ISO 13095
End Connection	Wafer Type Suit ASME B16.5
Testing STD	As per API 598
PN10/ PN16	50MM to 700MM

BILL OF MATERIALS

Sr No	Description	Material
1	Body	C.I/ WCB/ CF8/ CF8M
2	Disc	SG IRON/ WCB/ CF8/ CF8M
3	Shaft	SS410/ SS304 / SS316
4	Seat	EPDM/ NITRILE/ PTFE
5	Lever	C.I/ MS (POWDER COATED)



Pneumatic Operated Butterfly Valve

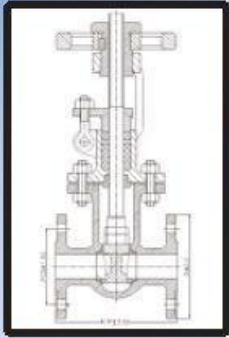
DIMENSIONS

Size	F/F	A (Aprox)	B (Aprox)	WD (Aprox)
50 MM	43.00	134.00	73.00	97.00
65 MM	46.00	135.00	75.50	107.00
80 MM	46.00	144.00	83.00	121.50
100 MM	52.00	176.50	110.00	155.00
125 MM	56.00	205.00	131.00	184.00
150 MM	56.00	218.00	139.50	210.50
200 MM	60.00	245.50	168.00	265.50
250 MM	68.00	272.50	208.50	224.50
300 MM	78.00	305.00	246.50	364.50
350 MM	78.00	317.50	258.00	425.00
400 MM	102.00	367.00	327.50	484.50

Design STD.	As Per ISO 13095
End Connection	Wafer Type Suit ASME B16.5
Testing STD	As Per API 598
PN10/ PN16	50MM to 700MM

BILL OF MATERIALS

Sr No	Description	Material
1	Body	C.I/ WCB/ CF8/ CF8M
2	Disc	SG IRON/ WCB/ CF8/ CF8M
3	Shaft	SS410/ SS304/ SS316
4	Seat	EPDM/ NITRILE/ PTFE
5	MOR	Manual Override (Gear Box)
6	Actuator	SINGLE/ DOUBLE ACTING
7	Solenoid Valve	3/2 DIRECT ACTING NAMUR TYPE
8	Limit Switch	MICRO SWITCH HONEYWELL



DIMENSIONS

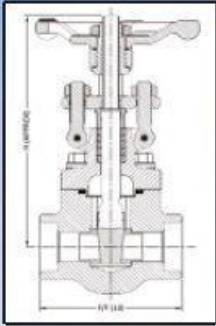
150#				300#		
Size	ØD	PCD	F/F	ØD	PCD	F/F
15 MM	90.00	60.50	108.00	95.00	66.50	140.00
20 MM	100.00	70.00	117.00	115.00	82.50	152.40
25 MM	110.00	79.50	127.00	125.00	89.00	165.00
40 MM	125.00	98.50	165.00	155.00	114.50	190.50
50 MM	150.00	120.50	178.00	165.00	127.00	216.00
65 MM	180.00	139.50	190.00	190.00	149.00	241.00
80 MM	190.00	152.50	203.00	210.00	168.50	282.00
100 MM	230.00	190.50	229.00	255.00	200.00	305.00
150 MM	280.00	241.50	267.00	320.00	270.00	403.00
200 MM	345.00	298.50	292.00	380.00	330.00	419.00
250 MM	405.00	362.00	330.00	445.00	387.50	457.00
300 MM	485.00	432.00	356.00	520.00	451.00	502.00

Gate Valve

Design STD.	As Per BS1414
End Connection	Flanged End
Testing STD	As per ISO 17292/ API 598
Size 150#	15MM to 300MM
Size 300#	15MM to 300MM

BILL OF MATERIALS

Sr No	Description	Material
1	Body	WCB/ CF8/ CF8M
2	Bonnet	WCB/ CF8/ CF8M
3	Wedge	WCB (13% CR)/ CF8/ CF8M
4	Seat Ring	SS410 (13% CR)/ CF8/ CF8M
5	Stem	SS410/ SS304/ SS316
6	Back Seat Bush	SS410/ SS304/ SS316
7	Gland Bush	SS410/ SS304/ SS316
8	Gland Flange	CS/ CF8/ CF8M
9	Yoke Sleeve	EN8
10	Yoke Nut	MS/ SS
11	Hand Wheel	MALLEABLE IRON
12	Hand Wheel Nut	MS
13	Gasket	SPW SS304 FILLED WITH GRAPHITE
14	Gland Packing	GRAPHITE
15	Stud	ASTM A193 GR. B7
16	Nut	ASTM A194 GR. B2H
17	Eye Bolt	MS/ SS
18	Eye Bolt Nut	MS/ SS
19	Key	MS



Forged Steel Gate Valve



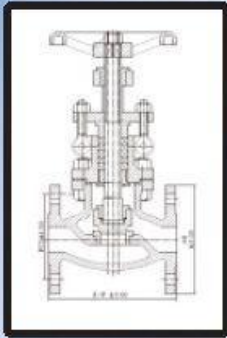
Design STD.	As Per ISO 15761
End Connection	Screwed/ Socket Weld
Testing STD	As Per API 598
Size 800# / 1500#	15MM to 50MM

BILL OF MATERIALS

Sr No	Description	Material
1	Body	A105/ F304/ F316
2	Bonnet	A105/ F304/ F316
3	Wedge	CA-15/ CF8/ CF8M
4	Stem	SS410/ F304/ F316
5	Seat Ring	SS410/ SS304/ SS316
6	Gasket	SS304-SPW/ GRAPHITE
7	Hex Bolt	ASTM A193 GR B7
8	Eye Bolt	SS410/ SS304/ SS316
9	Gland Bush	SS410/ SS304/ SS316
10	Gland Flange	A105/ F304/ F316
11	Yoke Sleeve	EN8
12	Stem nut	ASTM A194 GR 2H
13	Gland Packing	GRAPHITE
14	Hand Wheel	MI/ SG IRON
15	Back Seat	INTEGRAL

DIMENSIONS

800#					1500#			
Size	F/F	Wh (Aprox)	H Open	H Close	F/F	Wh (Aprox)	H Open	H Close
15 MM	73.00	86.00	151.00	135.00	80.00	86.00	151.00	138.00
20 MM	80.00	86.00	157.00	137.00	100.00	116.00	178.00	162.00
25 MM	100.00	116.00	186.00	162.00	120.00	150.00	227.00	207.00
40 MM	120.00	150.00	237.00	201.00	130.00	150.00	256.00	224.00
50 MM	130.00	150.00	268.00	223.00	140.00	225.00	303.00	263.00



Globe Valve

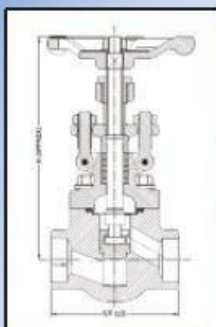
Design STD.	As Per BS1873
End Connection	Flanged End
Testing STD	As Per ISO 17292/ API 598
Size 150#	25MM to 300MM
Size 300#	50MM to 300MM

BILL OF MATERIALS

Sr No	Description	Material
1	Body	WCB/ CF8/ CF8M
2	Bonnet	WCB/ CF8/ CF8M
3	Wedge	WCB (13% CR)/ CF8/ CF8M
4	Seat Ring	SS410 (13% CR)/ CF8/ CF8M
5	Stem	SS410/ SS304/ SS316
6	Back Seat Bush	SS410/ SS304/ SS316
7	Gland Bush	SS410/ SS304/ SS316
8	Gland Flange	CS/ CF8/ CF8M
9	Yoke Sleeve	EN8
10	Yoke Nut	MS/ SS
11	Hand Wheel	MALLEABLE IRON
12	Hand Wheel Nut	MS
13	Gasket	SPW SS304 FILLED WITH GRAPHITE
14	Gland Packing	GRAPHITE
15	Stud	ASTM A193 GR. B7
16	Nut	ASTM A194 GR. B2H
17	Eye Bolt	MS/ SS
18	Eye Bolt Nut	MS/ SS

DIMENSIONS

150#				300#		
Size	ØD	PCD	F/F	ØD	PCD	F/F
25 MM	110.00	79.50	127.00	--	--	--
40 MM	125.00	98.50	165.00	--	--	--
50 MM	150.00	120.50	203.00	165.00	127.00	267.00
65 MM	180.00	139.50	216.00	190.00	149.00	292.00
80 MM	190.00	152.50	241.00	210.00	168.50	318.00
100 MM	230.00	190.50	292.00	255.00	200.00	356.00
150 MM	280.00	241.50	406.00	320.00	270.00	444.00
200 MM	345.00	298.50	495.00	380.00	330.00	559.00
250 MM	405.00	362.00	622.00	445.00	387.50	622.00
300 MM	485.00	432.00	698.00	520.00	451.00	711.00



Forged Steel Globe Valve



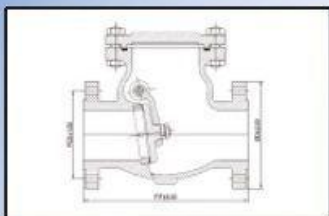
Design STD.	As Per ISO 15761
End Connection	Screwed/ Socket Weld
Testing STD	As Per API 598
Size 800#/ 1500#	15MM to 50MM

BILL OF MATERIALS

Sr No	Description	Material
1	Body	A105/ F304/ F316
2	Bonnet	A105/ F304/ F316
3	Wedge	CA-15/ CF8/ CF8M
4	Stem	SS410/ F304/ F316
5	Seat Ring	SS410/ SS304/ SS316
6	Gasket	SS304-SPW/ GRAPHITE
7	Hex Bolt	ASTM A193 GR B7
8	Eye Bolt	SS410/ SS304/ SS316
9	Gland Bush	SS410/ SS304/ SS316
10	Gland Flange	A105/ F304/ F316
11	Yoke Sleeve	EN8
12	Stem Nut	ASTM A194 GR 2H
13	Gland Packing	GRAPHITE
14	Hand Wheel	MI/ SG IRON
15	Back Seat	INTEGRAL

DIMENSIONS

800#					1500#			
Size	F/F	Wh (Aprox)	H Open	H Close	F/F	Wh (Aprox)	H Open	H Close
15 MM	73.00	86.00	159.00	143.00	80.00	86.00	160.00	148.00
20 MM	80.00	86.00	162.00	146.00	100.00	116.00	174.00	187.00
25 MM	100.00	116.00	191.00	171.00	145.00	150.00	224.00	204.00
40 MM	145.00	150.00	228.00	199.00	160.00	150.00	239.00	261.00
50 MM	160.00	150.00	265.00	236.00	172.00	225.00	318.00	290.00



Swing Check Valve



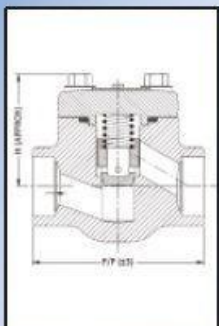
DIMENSIONS

150#				300#		
Size	ØD	PCD	F/F	ØD	PCD	F/F
50 MM	150.00	120.50	203.00	165.00	127.00	267.00
65 MM	180.00	139.50	216.00	190.00	149.00	292.00
80 MM	190.00	152.50	241.00	210.00	168.50	318.00
100 MM	230.00	190.50	292.00	255.00	200.00	356.00
150 MM	280.00	241.50	356.00	320.00	270.00	444.00
200 MM	345.00	298.50	495.00	380.00	330.00	533.00
250 MM	405.00	362.00	622.00	445.00	387.50	622.00
300 MM	485.00	432.00	698.00	520.00	451.00	711.00

Design STD.	As Per BS1868
End Connection	Flanged End
Testing STD	As Per ISO 17292/ API 598
Size 150#	50MM to 300MM
Size 300#	50MM to 300MM

BILL OF MATERIALS

Sr No	Description	Material
1	Body	WCB/ CF8/ CF8M
2	Disc	WCB (13% CR)/ CF8/ CF8M
3	Seat Ring	WCB(13% CR)/ SS304/ SS316
4	Washer	MS/SS
5	Disc Nut/ Bolt Nut	MS/ SS304/ SS316
6	Hinge Pin	SS410/ SS304/ SS316
7	Hinge	WCB/ CF8/ CF8M
8	Guide Bush	SS410/ SS304/ SS316
9	Body Gasket	SPW SS304 FILLED WITH GRAPHITE
10	Cover	WCB/ CF8/ CF8M
11	Stud/ Nut	ASTM 193 GR. B7/ ASTM 194 2H



Forged Steel Check Valve



DIMENSIONS

800#			1500#	
Size	F/F	H	F/F	H
15 MM	73.00	53.00	80.00	56.00
20 MM	80.00	56.00	100.00	66.00
25 MM	100.00	66.00	145.00	86.00
40 MM	145.00	86.00	160.00	104.00
50 MM	160.00	104.00	172.00	127.00

Design STD.	As Per ISO 15761
End Connection	Screwed/ Socket Weld
Testing STD	As Per API 598
Size 800#/ 1500#	15MM to 50MM

BILL OF MATERIALS

Sr No	Description	Material
1	Body	A105/ F304/ F316
2	Bonnet	A105/ F304/ F316
3	Plug	CA-15/ CF8/ CF8M
4	Spring	SS304/ SS316
5	Seat Ring	13% Cr/ SS304/ INTEGRAL
6	Gasket	SS304-SPW/ GRAPHITE
7	Hex Bolt	ASTM A193 GR B7/ GR B8/ B8M

Sight Glass



**Disc Type Wafer Check Valve
Non Slam Check Valve**



**High Performance
Offset Disc Butterfly Valve**



Wafer Type Check Valve



Valve Flange Dimensions

CLASS 150# Valve Flanges

Size NPS(")	1/2"	3/4"	1"	1-1/2"	2"	2-1/2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
Size DN(MM)	15.00	20.00	25.00	40.00	50.00	65.00	80.00	100.00	150.00	200.00	250.00	300.00	350.00	400.00	450.00	500.00	600.00
RF Rasied Face Dia	35.00	43.00	51.00	73.00	92.00	105.00	127.00	157.50	216.00	270.00	324.00	381.00	413.00	470.00	533.50	584.50	692.50
B Bore Dia	12.50	19.00	25.40	38.00	51.00	64.00	76.00	102.00	152.00	203.00	254.00	305.00	336.00	387.00	438.00	489.00	591.00
OD Outside Dia	90.00	100.00	110.00	125.00	150.00	180.00	190.00	230.00	280.00	345.00	405.00	485.00	533.50	597.00	635.00	698.50	813.00
C Thickness	10.00	10.90	11.60	14.70	16.30	17.90	19.50	24.30	25.90	29.00	30.60	32.20	35.00	36.50	40.00	43.00	47.50
P PCD	60.50	70.00	79.50	98.50	120.50	139.50	152.50	190.50	241.50	298.50	362.00	432.00	476.50	540.00	578.00	635.00	749.50
N No. Of holes	4.00	4.00	4.00	4.00	4.00	4.00	4.00	8.00	8.00	8.00	12.00	12.00	12.00	16.00	16.00	20.00	20.00
D Drill Dia	16.00	16.00	16.00	16.00	19.00	19.00	19.00	19.00	22.00	22.00	25.00	25.00	28.00	28.00	32.00	32.00	35.00

CLASS 300# Valve Flanges

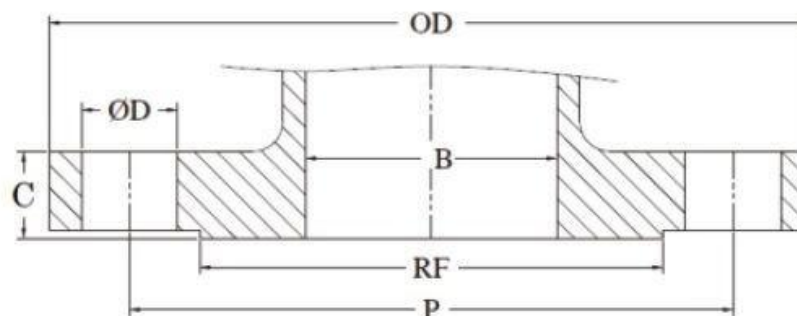
Size NPS(")	1/2"	3/4"	1"	1-1/2"	2"	2-1/2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
Size DN(MM)	15.00	20.00	25.00	40.00	50.00	65.00	80.00	100.00	150.00	200.00	250.00	300.00	350.00	400.00	450.00	500.00	600.00
RF Rasied Face Dia	35.00	43.00	51.00	73.00	92.00	105.00	127.00	157.50	216.00	270.00	324.00	381.00	413.00	470.00	533.50	584.50	692.50
B Bore Dia	12.50	19.00	25.40	38.00	51.00	64.00	76.00	102.00	152.00	203.00	254.00	305.00	336.00	387.00	438.00	489.00	591.00
OD Outside Dia	95.00	115.00	125.00	155.00	165.00	190.00	210.00	255.00	320.00	380.00	445.00	520.00	584.0	648.00	711.00	775.00	914.50
C Thickness	14.70	16.30	17.90	21.10	22.70	25.90	29.00	32.20	37.00	41.70	48.10	51.30	54.00	57.50	60.50	63.50	70.00
P PCD	66.50	82.50	89.00	114.50	127.00	149.00	168.50	200.00	270.00	330.00	387.50	451.00	514.50	571.50	571.50	686.00	813.00
N No. Of holes	4.00	4.00	4.00	4.00	8.00	8.00	8.00	8.00	12.00	12.00	16.00	16.00	20.00	20.00	20.00	24.00	24.00
D Drill Dia	16.00	19.00	19.00	22.00	19.00	22.00	22.00	22.00	22.00	25.00	28.00	32.00	32.00	35.00	35.00	35.00	41.00

CLASS 600# Valve Flanges

Size NPS(")	1/2"	3/4"	1"	1-1/2"	2"	2-1/2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
Size DN(MM)	15.00	20.00	25.00	40.00	50.00	65.00	80.00	100.00	150.00	200.00	250.00	300.00	350.00	400.00	450.00	500.00	600.00
RF Rasied Face Dia	35.00	43.00	51.00	73.00	92.00	105.00	127.00	157.50	216.00	270.00	324.00	381.00	413.00	470.00	533.50	584.50	692.50
B Bore Dia	12.50	19.00	25.40	38.00	51.00	64.00	76.00	102.00	152.00	203.00	254.00	305.00	336.00	387.00	432.00	483.00	584.00
OD Outside Dia	95.00	115.00	125.00	155.00	165.00	190.00	210.00	275.00	355.00	420.00	510.00	560.00	603.50	686.00	743.00	775.00	914.00
C Thickness	21.30	22.90	24.50	29.30	32.40	35.60	38.80	45.10	54.70	62.60	70.50	73.70	76.50	82.50	89.50	63.50	70.00
P PCD	66.50	82.50	89.00	114.50	127.00	149.00	168.50	216.00	292.00	349.00	432.00	489.00	527.00	603.50	654.00	686.00	813.00
N No. Of holes	4.00	4.00	4.00	4.00	8.00	8.00	8.00	8.00	12.00	12.00	16.00	20.00	20.00	20.00	20.00	24.00	24.00
D Drill Dia	16.00	19.00	19.00	22.00	19.00	22.00	22.00	25.00	28.00	32.00	35.00	35.00	38.00	41.00	42.00	35.00	41.00

CLASS 1500# Valve Flanges

Size NPS(")	1/2"	3/4"	1"	1-1/2"	2"
Size DN(MM)	15.00	20.00	25.00	40.00	50.00
RF Rasied Face Dia	35.00	43.00	51.00	73.00	92.00
B Bore Dia	12.50	19.00	25.40	38.00	51.00
OD Outside Dia	120.00	130.00	150.00	180.00	215.00
C Thickness	29.30	32.40	35.60	38.80	45.10
P PCD	82.50	89.00	102.00	124.00	165.00
N No. Of holes	4.00	4.00	4.00	4.00	8.00
D Drill Dia	22.00	22.00	25.00	28.00	25.00



CHEMICAL PROPERTIES										MECHANICAL PROPERTIES			
Element, % (max, ex-cept where range is given)	C%	Mn%	Si %	S %	P %	Cr %	Ni%	Mo %	Cu %	Yield Strength, min [Mpa]	Tensile Strength, min, [MPa]	Elongatio n in min, %	Hardness
ASTM A351 Gr CF8	0.08	1.5	2	0.04	0.04	18.0 - 21.0	8.0 - 11.0	0.5	—	[205]	[485]	35	220 Max
ASTM A351 Gr CF8M	0.08	1.5	1.5	0.04	0.04	18.0 - 21.0	9.0 - 12.0	2.0-3.0	—	[205]	[485]	30	220 Max
ASTM A890 Gr CD4MCU	0.04	1	1	0.04	0.04	24.5 - 26.5	4.750- 6.00	1.750- 2.250	2.750- 3.250	485	690	16	237 Max
ASTM A216 Gr WCB	0.3	1	0.6	0.035	0.035	0.5	0.5	0.2	0.3	250	485- 655	22	237 Max
ASTM A105 NACE	0.35	0.6-1.05	0.1-0.35	0.04	0.035	0.3	0.4	0.12	0.4	250	485	22	187 Max

Test Pressure Chart						
Test Parameters	Class 150#		Class 300#		Class 600#	
Seat (Hydro)	23 kg./cm ²	325 PSI	58 kg./ cm ²	825 PSI	80 kg./cm ²	1135 PSI
Backseat (Hydro)	23 kg./cm ²	325 PSI	58 kg./ cm ²	825 PSI	80 kg./cm ²	1135 PSI
Shell (Hydro)	32 kg./cm ²	450 PSI	80 kg./ cm ²	1130 PSI	153 kg./cm ²	2175 PSI
Seat (Pneumatic)	07 kg./cm ²	100 PSI	07 kg./ cm ²	100 PSI	07 kg./cm ²	100 PSI

TABLE 02 Duration of Test

Valve Size (mm)	Minimum Test Duration (Seconds)				
	SHELL		Backseat	Closure	
	Check Valves	Other Valves		Check Valves	Other Valves
≤50mm	60	15	15	60	15
65MM-150MM	60	60	60	60	60
200MM-300MM	60	120	60	60	120
≤350MM	120	300	60	120	120

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Plot No. G-1996,
Almighty Gate No. 2, Opp. Jyoti CNC,
Lodhika G.I.D.C., Metoda, Rajkot - 360 021
Gujarat, INDIA.

+91 2827 296007
+91 92276 55583
sagarvalve@gmail.com
marketing@sagarvalve.com
www.sagarvalve.com