



**FOCET**®

AN ISO 9001-2015 Certified Company



**OUR CONCERN IS QUALITY  
NOT QUANTITY**



Mfg. & Mkt by :

**FOCET VALVES PVT. LTD.**

[www.focetvalves.com](http://www.focetvalves.com)

## COMPANY PROFILE



We **FOCET VALVES PVT LTD** also known as **VISHAL ENGINEERS** the valve manufacturer 30 years experience supplying of Industrial valves. **FOCET VALVES PVT LTD** is a Professional manufacturer of industrial valves located in Ahmedabad as a famous hometown of valves in India **FOCET VALVES PVT LTD** are concentrating on Industrial valves and Production to trust you will enjoy to be partner of us to win on valve business with the support of Trustable Quality, Better Delivery and Competitive price.

- We Have Been An Established And Popular Company With An Excellent Track Record For The Best Customer Satisfaction.
- We Have Never Compromised On The Quality And The Services Provided To The Customer.
- We Believe In Keeping The Customers Happy And Providing Them With Products At A Very Competent Price.
- We Have An Excellent Staffs Who Will Guide You With Their Best Ideas By Keeping In Constant Touch With Your Company And Informing About The Product.

**FOCET VALVES PVT LTD** mainly produce casting with material of Cast Iron, Carbon Steel, Stainless Steel, and Alloy Steel. We also Manufacture All Types of Industrial Valves as per sample and Drawings provided by the Client.

The Industrial Valves Produces by **FOCET VALVES PVT LTD** can be used in Refineries & Petro Chemicals, Drugs & Pharmaceuticals, Steam, Food & Oil Industry, Process & Chemicals, Thermal Power Station, Textiles, Steel Plants, Water Works, Pulp & Paper, Gas, Oil, Paints & Varnishes, Fertilizers, Mining Industry, Slurry, Sugar Industry, Salt & Soda Plants, Ash Handling etc.

**FOCET VALVES PVT LTD** Manufacturing Equipped With Machinery. State Of The Art Technology Is Used In This Manufacturing Unit. The Company Has Sophisticates Testing Facilities For Raw Materials And Hydro Testing Unit For Final Products That Assure High Quality Standards For The Products Of The Company.

- We Invite Your Inquiries As Well As The Future Opportunity To Assist You With Our Products And We Look Forward To Work With You.

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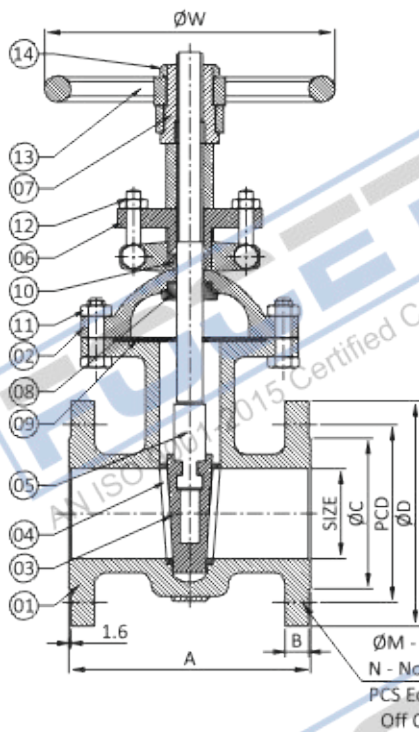
# GATE VALVE (150# / 300#)



“FOCET” make Gate Valves are primarily designed to start or stop flow & when a straight line flow of fluid & minimum flow restriction are needed. In service this valve generally are either fully open or fully closed.

### Technical Data

- ✓ Design & Manufacturing Std. : BS - 1414 / API 600
- ✓ Testing & Inspection Std. : API 598
- ✓ End Connection : Flanged as per ANSI B 16.5
- ✓ Seal Wall Thickness : ANSI B 16.34
- ✓ Face to Face Dimensions : As per ANSI / B 16.10



### Primary Service Rating & Test Pressure

CLASS	WORKING PRESSURE	TEMPERATURE	HYD. TEST PRESSURE	
			BODY	SEAT
150	150 PSIG	500 °F	425 PSIG	300 PSIG
300	300 PSIG	800 °F	1100 PSIG	800 PSIG

Air Test - Seat 80 PSIG + 10 PSIG

Sr. No.	Parts Name	Material	Qty.
01	Body	ASTM A216 Gr. WCB / CF8 / CF8M	1
02	Bonnet	ASTM A216 Gr. WCB / CF8 / CF8M	1
03	Wedge	ASTM A216 Gr. WCB / CF8 / CF8M	1
04	Seat Ring	AISI 410 (13% CR) / S. S. 304 / 316	2
05	Stem	AISI 410 (13% CR) / S. S. 304 / 316	1
06	Gland	Carbon Steel	1
07	Yoke Sleeve	Ni - Resist - Nodular Cast Iron	1
08	Back Seat	AISI 410 (13% CR) / S. S. 304 / 316	1
09	Gasket	Sprrial Wound Metallic	1
10	Gland Packing	Metalic Wire Reinforced Graphoil Asbestos	----
11	Bonnet Stud & Nut	ASTM A193 Gr. B7 / ASTM A194 Gr. 2H	----
12	Eye Bolt & Nut	ASTM A193 Gr. B7 / ASTM A194 Gr. 2H	2 Set
13	Hand Wheel	S. G. Iron	1
14	Hand Wheel Nut	Carbon Steel	1

#### Dimensions 150#

(All Dimensions are in MM)

SIZE		A	B	ØC	ØD	ØM	N	PCD	ØW
Inch	MM								
1"	25	127	11	51	108	16	4	79.2	123
1.1/2"	40	165.1	14.2	73	127	16	4	98.5	152
2"	50	177.8	15.7	92	152	19	4	120.6	203
2.1/2"	65	190.5	17.5	105	178	19	4	139.7	203
3"	80	203.2	19	127	190.5	19	4	152.4	254
4"	100	228.6	24	157	229	19	8	190.5	305
5"	125	254	24	186	254	22	8	215.9	305
6"	150	266.7	25	216	279	22	8	241.3	356
8"	200	292.1	28.5	270	343	22	8	298.4	356
10"	250	330.2	30	324	406	25	12	362	406
12"	300	356	32	381	483	25	12	431.8	457
14"	350	381	35	413	534	28	12	476.2	508
16"	400	406.4	36.5	470	597	28	16	539	508
18"	450	432	40	533	635	32	16	578	----
20"	500	457	43	524	698	32	20	635	----
24"	600	508	47	692	812	35	20	749	----

#### Dimensions 300#

(All Dimensions are in MM)

SIZE		A	B	ØC	ØD	ØM	N	PCD	ØW
Inch	MM								
1.1/2"	40	190.5	20.5	73	155.4	22	4	114.3	152
2"	50	215.9	22	92	165	19	8	127	203
2.1/2"	65	241.3	25	105	190.5	22	8	149.3	203
3"	80	282.5	28.5	127	209.5	22	8	168.1	254
4"	100	304.8	32	157	254	22	8	200.1	305
5"	125	381	35	186	279.4	22	8	234.9	356
6"	150	403.2	36.5	216	317.5	22	12	269.7	356
8"	200	419.1	41	270	381	25	12	330.2	406
10"	250	457.2	48	324	444.5	29	16	387.3	457
12"	300	501.6	51	381	520.7	32	16	450.8	508
14"	350	762	54	413	584.2	32	20	514.3	508
16"	400	838.2	57	470	647.7	35	20	571.5	508



“FOCET” make Globe Valves is a linear motion valve and are primarily designed to stop, start and regulate flow. The disc of a globe valve can be totally removed from the flowpath or it can completely close the flowpath.

### Technical Data

- ✓ Design & Manufacturing Std. : BS - 1873
- ✓ Testing & Inspection Std. : API 598 / BS - 5146
- ✓ End Connection : Flanged as per ANSI B 16.5
- ✓ Shell Wall Thickness : ANSI B 16.34
- ✓ Face to Face Dimensions : As per ANSI / B 16.10

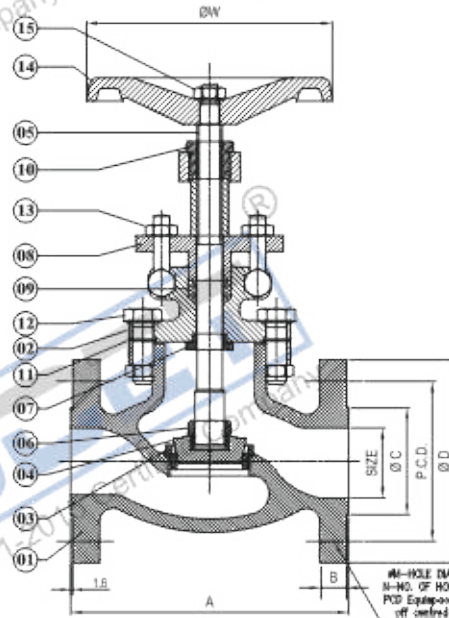
### Primary Service Rating & Test Pressure

CLASS	WORKING PRESSURE	TEMPERATURE	HYD. TEST PRESSURE	
			BODY	SEAT
150	150 PSIG	500 °F	425 PSIG	300 PSIG
300	300 PSIG	800 °F	1100 PSIG	800 PSIG

Air Test - Seat 80 PSIG ±10 PSIG



Sr. No.	Parts Name	Material	Qty.
01	Body	ASTM A216 Gr. WCB / CF8 / CF8M	1
02	Bonnet	ASTM A216 Gr. WCB / CF8 / CF8M	1
03	Seat Ring	AISI 410 (13% CR) / S. S. 304 / 316	1
04	Disc	AISI 410 (13% CR) / S. S. 304 / 316	1
05	Stem	AISI 410 (13% CR) / S. S. 304 / 316	1
06	Stem Nut	AISI 410 (13% CR) / S. S. 304 / 316	1
07	Back Seat	AISI 410 (13% CR) / S. S. 304 / 316	1
08	Gland	Carbon Steel	1
09	Gland Packing	Metalic Wire Reinforced Graphoil Asbestos	---
10	Yoke Sleeve	S. G. Iron	1
11	Bonnet Gasket	Asbestos Filter S. S. 304 / Spiral Wounded / CAF	1
12	Bonnet Stud & Nut	ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H	---
13	Eye Bolt & Nut	ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H	2 Set
14	Hand Wheel	S. G. Iron	1
15	Hand Wheel Nut	Carbon Steel	1



### Dimensions 150#

(All Dimensions are in MM)

SIZE		A	B	ØC	ØD	ØM	N	PCD	ØW
Inch	MM								
1"	25	127	11	51	108	16	4	79.2	100
1.1/2"	40	165	14.2	73	127	16	4	98.5	135
2"	50	203	15.7	92	152	19	4	120.6	200
2.1/2"	65	216	17.5	105	178	19	4	139.7	250
3"	80	241	19	127	190.5	19	4	152.4	250
4"	100	292	24	157	229	19	8	190.5	300
5"	125	356	24	186	254	22	8	215.9	350
6"	150	406	25	216	279	22	8	241.3	350
8"	200	495	28.5	270	343	22	8	298.4	400
10"	250	622	30	324	406	25	12	362	450
12"	300	698	32	381	483	25	12	431.8	500

### Dimensions 300#

(All Dimensions are in MM)

SIZE		A	B	ØC	ØD	ØM	N	PCD	ØW
Inch	MM								
1"	25	203	17.5	51	124	19	4	89	135
1.1/2"	40	229	20.5	73	155.5	22	4	114.3	200
2"	50	267	22	92	165	19	8	127	200
2.1/2"	65	292	25	105	190.5	22	8	149.3	200
3"	80	317.5	28.5	127	209.5	22	8	168	300
4"	100	356	32	157	254	22	8	200	350
5"	125	400	35	186	279.4	22	8	235	350
6"	150	444.5	36.5	216	317.5	22	12	269.7	400
8"	200	559	41	270	381	25	12	330.2	550
10"	250	622	47.5	324	444.5	28	16	387.4	600
12"	300	711	51	381	521	32	16	450	600

# GLOBE VALVE (ND-40)



“FOCET” make Globe Valve is used for throttling flow control. The flow pattern through a globe valve, inslove changed in direction, Resulting in greater resistance to flow causing high pressure drop.

### Technical Data

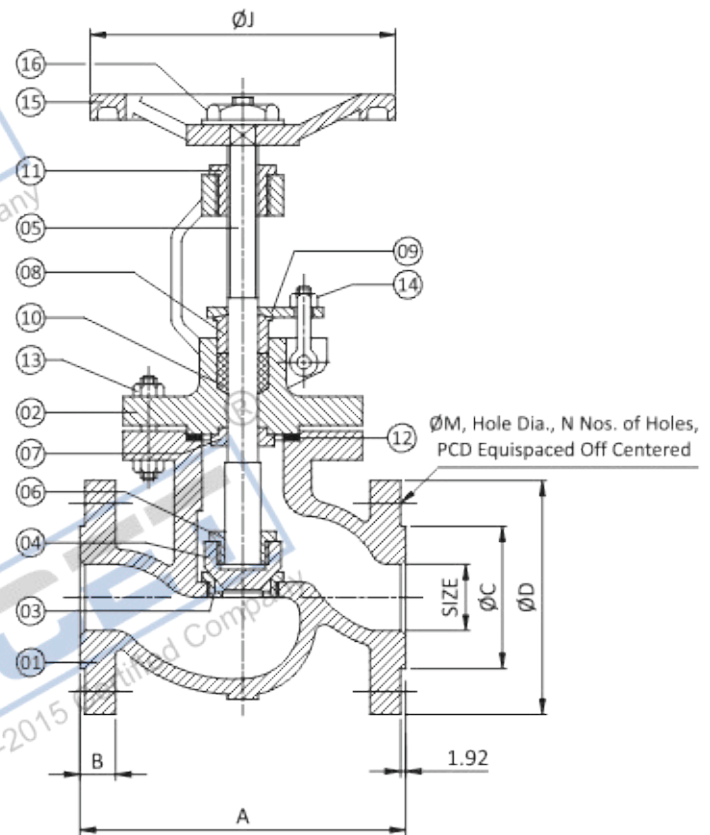
- ✓ Design & Manufacturing Std. : BS - 1873
- ✓ Testing & Inspection Std. : API 598
- ✓ End Connection : Flanged as per DIN 2533 / 2543 / 2535 / 2545
- ✓ Shell Wall Thickness : ANSI B 16.34
- ✓ Face to Face Dimensions : As per DIN ND - 16 / ND - 40

### Primary Service Rating & Test Pressure

ND - 16	16 Kg/cm <sup>2</sup>	220 °C
ND - 40	40 Kg/cm <sup>2</sup>	400 °C

### Hydraulic Test Pressure

STD	BODY	SEAT	AIR
ND - 16	32 Kg/cm <sup>2</sup>	16 Kg/cm <sup>2</sup>	06 Kg/cm <sup>2</sup>
	464 PSIG	232 PSIG	80 PSIG
ND - 40	80 Kg/cm <sup>2</sup>	40 Kg/cm <sup>2</sup>	06 Kg/cm <sup>2</sup>
	1160 PSIG	580 PSIG	80 PSIG



Sr. No.	Parts Name	Material	Qty.
01	Body	ASTM A216 Gr. WCB	1
02	Bonnet	ASTM A216 Gr. WCB	1
03	Seat Ring	AISI 304 / AISI 316 / 13% CR. S. S.	1
04	Disc	AISI 304 / AISI 316 / 13% CR. S. S.	1
05	Stem	AISI 304 / AISI 316 / 13% CR. S. S.	1
06	Disc Nut	AISI 304 / AISI 316 / 13% CR. S. S.	1
07	Back Seat Bush	AISI 410 / AISI 316	1
08	Gland Bush	AISI 410 / AISI 316	1
09	Gland Flange	Carbon Steel	1
10	Gland Packing	Metallic Wire Reinforced Graphited Asbestos	----
11	Yoke Sleeve	Al. Bronze / Hi - Resist	1
12	Bonnet Gasket	Compressed Asbestos / Fiber / Soft Steel	1
13	Bonnet Stud & Nut	ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H	----
14	Eye Bolt & Nut	ASTM A 193 Gr. B7 / ASTM A 194 Gr. 2H	2 SET
15	Hand Wheel	Cast Iron	1
16	Hand Wheel Nut	Carbon Steel	1

### Dimensions

(All Dimensions are in MM)

SIZE		A	B	ØC	ØD	ØM	N	PCD	ØJ
Inch	MM								
1"	25	160	18	68	115	14	4	85	125
1.1/2"	40	200	20	88	150	18	4	110	175
2"	50	230	20	102	165	18	4	125	175
2.1/2"	65	290	22	122	185	18	8	145	225
3"	80	310	24	138	200	18	8	160	225
4"	100	350	26	162	235	22	8	190	250
5"	125	400	28	188	270	26	8	220	250
6"	150	480	30	218	300	26	8	260	312
8"	200	600	34	285	375	30	12	320	375
10"	250	730	42	345	450	33	12	385	500



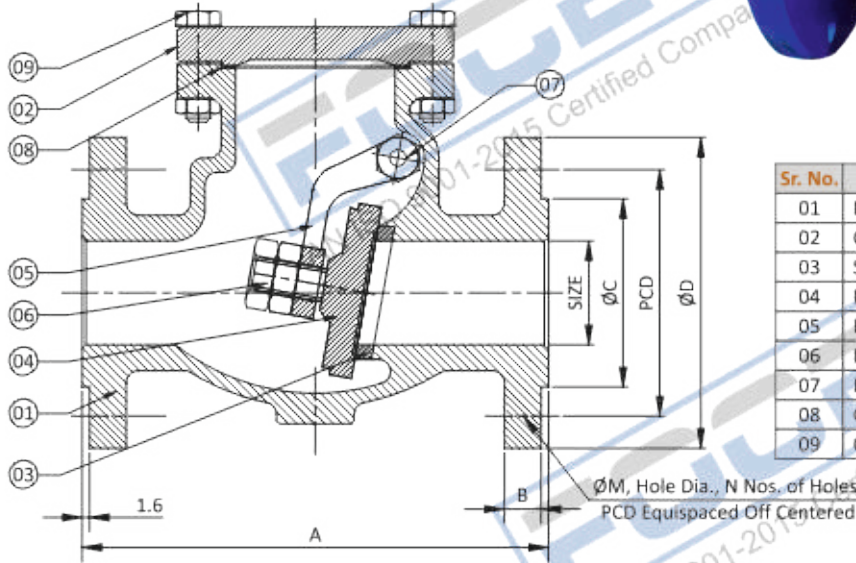
“FOCET” make Swing type check valve are “Automatic” valve that open with forward flow and close with reverse flow. The pressure of the fluid passing through a system open the valve, While and reversal of flow will close the valve.

### Technical Data

- ✓ Design & Manufacturing Std. : ANSI B 16.35 / BS 1868
- ✓ Testing & Inspection Std. : API 598 / BS - 5146
- ✓ End Connection : Flanged as per ANSI B 16.5
- ✓ Shell Wall Thickness : ANSI B 16.34
- ✓ Face to Face Dimensions : As per ANSI / B 16.10

### Primary Service Rating & Test Pressure

CLASS	WORKING PRESSURE	TEMPERATURE	HYD. TEST PRESSURE	
			BODY	SEAT
150	150 PSIG	500 °F	425 PSIG	300 PSIG
300	300 PSIG	800 °F	1100 PSIG	800 PSIG



Sr. No.	Parts Name	Material	Qty.
01	Body	WCB / S. S. 304 / S. S. 316	1
02	Cover	C. S. / S. S. 304 / S. S. 316	1
03	Seat Ring	S. S. 410 / S. S. 304 / S. S. 316	1
04	Disc	S. S. 410 / S. S. 304 / S. S. 316	1
05	Hinge	WCB / S. S. 304 / S. S. 316	1
06	Disc Nut	Carbon Steel	1
07	Hinge Pin	S. S. AISI 410	1
08	Gasket	Spiral Wound S. S. 304	1
09	Cover Stud & Nut	B7 - 2H	1

#### Dimensions 150#

(All Dimensions are in MM)

SIZE		A	B	ØC	ØD	ØM	N	PCD
Inch	MM							
1.1/2"	40	165	14.2	73	127	16	4	98.5
2"	50	203	15.7	92	152	19	4	120.6
2.1/2"	65	216	17.5	105	178	19	4	139.7
3"	80	241	19	127	190.5	19	4	152.4
4"	100	292	24	157	229	19	8	190.5
5"	125	330	24	186	254	22	8	215.9
6"	150	356	24	216	279	22	8	241.3
8"	200	495	28.5	270	343	22	8	298.4
10"	250	622	30	324	406	25	12	362
12"	300	699	32	381	483	25	12	431.8
14"	350	787	35	413	533	28	12	476.2
16"	400	864	36.5	470	597	28	16	539.8

#### Dimensions 300#

(All Dimensions are in MM)

SIZE		A	B	ØC	ØD	ØM	N	PCD
Inch	MM							
1.1/2"	40	241.3	20.5	73	156	22	4	114.3
2"	50	266.7	22	92	165	19	8	127
2.1/2"	65	292	25	105	190.5	22	8	149.3
3"	80	317.5	28.5	127	209.5	22	8	168
4"	100	355.6	32	157	254	22	8	200
5"	125	400	35	186	279.4	22	8	235
6"	150	444.5	36.5	216	317.5	22	12	269.7
8"	200	533.4	41	270	381	25	12	330.2
10"	250	622.3	47.5	324	444.5	28	16	387.4
12"	300	711.2	51	381	521	32	16	450.8
14"	350	838	54	413	584	32	20	514.3
16"	400	863.6	57	470	648	35	20	571.5

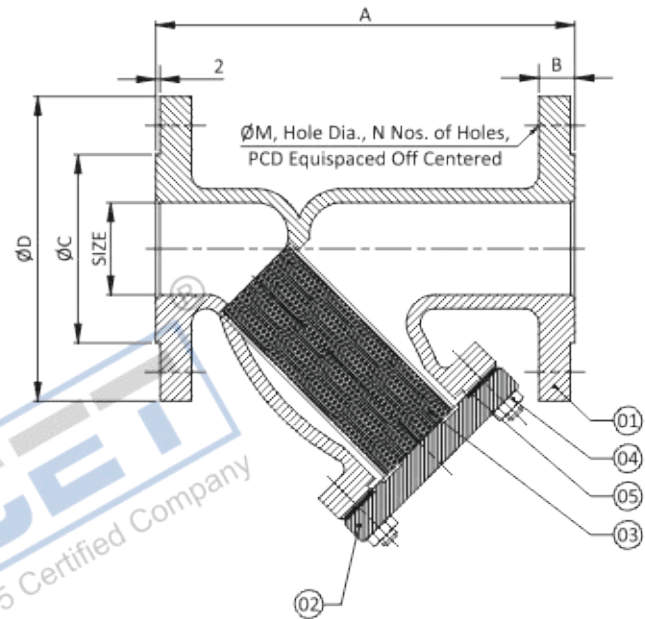
# Y TYPE STRAINER



“FOCET” make “Y” type strainer is very useful when it comes to protecting pumps and compressor because the dirt and debris present in the latter is collected in the strainer are suitable for horizontal and vertical pipeline where the debris is difficult to be removed from the liquid or gas.

### Technical Data

- ✓ Design & Manufacturing Std. : ---
- ✓ Testing & Inspection Std. : ---
- ✓ End Connection : Flanged as per ANSI B - 16.5
- ✓ Shell Wall Thickness : ANSI B 16.34
- ✓ Face to Face Dimensions : ANSI B - 16.10



Sr. No.	Parts Name	Material	Qty.
01	Body	ASTM A 216 Gr. WCB	1
02	Cover	ASTM A 216 Gr. WCB	1
03	Screen	(S. S. 304 40 Mesh)	1
04	Cover Stud & Nut	B7 - 2H	---
05	Gasket	Spiral Wound	1

### Dimensions Class 150 :

(All Dimensions are in MM)

SIZE		NB	A	B	øC	øD	øM	N	PCD
Inch	MM								
1"	25	25	127	11	51	108	16	4	79.2
1.1/2"	40	38	165	14.2	73	127	16	4	98.5
2"	50	51	203	15.7	92	152	19	4	120.6
2.1/2"	65	64	216	17.5	105	178	19	4	139.7
3"	80	76	241	19	127	190.5	19	4	152.4
4"	100	102	292	24	157	229	19	8	190.5
5"	125	126	356	24	186	254	22	8	215.9
6"	150	152	406	25	216	279	22	8	241.3
8"	200	203	495	28.5	270	343	22	8	298.4
10"	250	254	622	30	324	406	25	12	362
12"	300	300	698	32	381	483	25	12	431.8
14"	350	350	787.5	35	413	533.5	28	12	476.3
16"	400	400	914.5	36.5	470	597	28	16	538.8

### Dimensions Class 300 :

(All Dimensions are in MM)

SIZE		NB	A	B	C	D	M	N	PCD
Inch	MM								
1"	25	25	162	17.5	51	124	19	4	88.9
1.1/2"	40	38	229	21	73	155.5	22.2	4	114.3
2"	50	51	267	22.5	92	165	19	8	127
2.1/2"	65	64	292	25.4	105	190.5	22.2	8	149.2
3"	80	76	317.5	29	127	210	22.2	8	168.3
4"	100	102	356	32	157	254	22.2	8	200
5"	125	126	400	35	186	279.5	22.2	8	235
6"	150	152	444.5	36.5	216	317.5	22.2	12	269.9
8"	200	203	559	41.5	270	381	25.4	12	330.2
10"	250	254	622	48	324	444.5	28.6	16	387.4
12"	300	300	711.5	51	381	521	32	16	450.9



“FOCET” make Ball valve is a form of quarter - turn valve which uses a hollow, perforated and pivoting ball to control flow through it. It is open when the balls hole in line with the flow and closed when it is pivoted 90 degree by the valve handle.

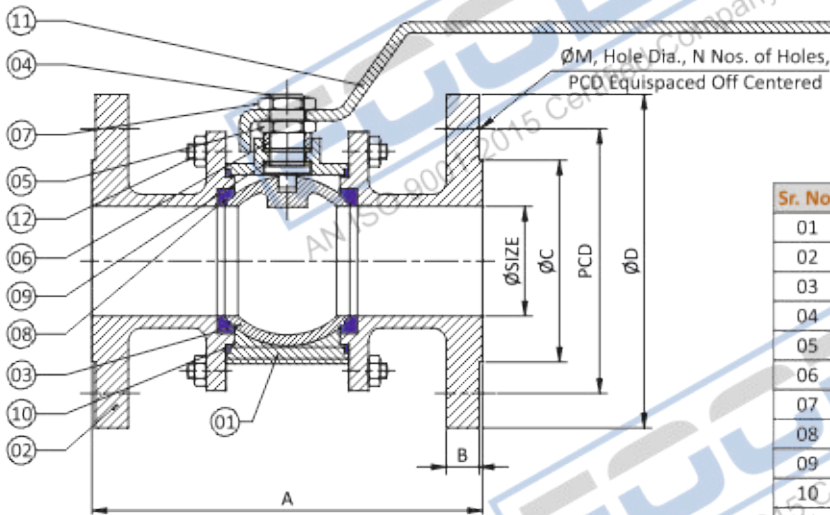
### Technical Data

- ✓ Design & Manufacturing Std. : BS 5351 / API 602
- ✓ Testing & Inspection Std. : API 598 / BS 5146
- ✓ End Connection : Flanged as per ANSI B - 16.5
- ✓ Socket Weld Ends : ANSI B 16.34
- ✓ Face to Face Dimensions : As per ANSI B - 16.10

### Primary Service Rating & Test Pressure

CLASS	WORKING PRESSURE	TEMPERATURE	HYD. TEST PRESSURE	
			BODY	SEAT
150	150 PSIG	180 °C	425 PSIG	300 PSIG
300	300 PSIG	180 °C	1100 PSIG	800 PSIG

Air Test - Seat 80 PSIG ±10 PSIG



Sr. No.	Parts Name	Material	Qty.
01	Body	WCB / S. S. 304 / S. S. 316	1
02	Body Connector	WCB / S. S. 304 / S. S. 316	2
03	Ball	S. S. 202 / S. S. 304 / S. S. 316	1
04	Stem	S. S. 202 / S. S. 304 / S. S. 316	1
05	Gland Nut	S. S. 202 / S. S. 304 / S. S. 316 / M. S.	1
06	Gland Bush	S. S. 202 / S. S. 304 / S. S. 316 / M. S.	1
07	Lock Nut	S. S. 202 / S. S. 304 / S. S. 316 / M. S.	1
08	Seat Ring	PTFE	2
09	Stem Seal	PTFE	2
10	Body Sealent Ring	PTFE	2
11	Lever	C. S. / S. S. 304 / S. S. 316	1
12	Stud & Nut	C. S. / S. S.	---

### Dimensions 150#

(All Dimensions are in MM)

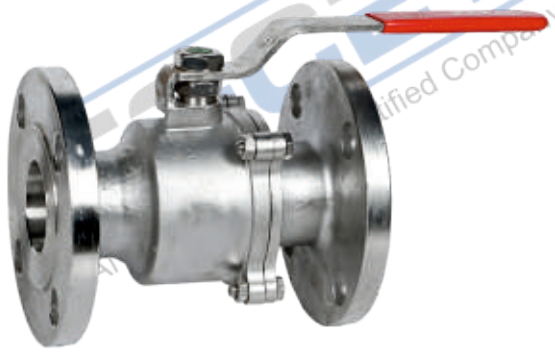
SIZE		A	B	ØC	ØD	ØM	N	PCD
Inch	MM							
1/2"	15	108	10	35	89	16	4	60.4
3/4"	20	118	10.5	43	98	16	4	69.8
1"	25	127	11	51	108	16	4	79.2
1.1/4"	32	140	12.7	64	117	16	4	88.9
1.1/2"	40	165	14.2	73	127	16	4	98.5
2"	50	178	15.7	92	152	19	4	120.6
2.1/2"	65	191	17.5	105	178	19	4	139.7
3"	80	203	19	127	190.5	19	4	152.4
4"	100	229	24	157	229	19	8	190.5
5"	125	254	24	186	254	22	8	215.9
6"	150	267	25.5	216	279	22	8	241.3
8"	200	292	29	270	343	22	8	298.4
10"	250	330	30	324	406	25	12	362

### Dimensions 150#

(All Dimensions are in MM)

SIZE		A	B	ØC	ØD	ØM	N	PCD
Inch	MM							
1/2"	15	140	14.2	35	95	16	4	66.5
3/4"	20	152	15.7	43	117	19	4	82.5
1"	25	165	17.5	51	124	19	4	88.9
1.1/4"	32	178	19	64	133	19	4	98.5
1.1/2"	40	190.5	20.5	73	155.5	22	4	114.3
2"	50	216	22	92	165	19	8	127
2.1/2"	65	241	25	105	190.5	22	8	149.3
3"	80	282.5	28.5	127	209.5	22	8	168
4"	100	305	32	157	254	22	8	200

# 2 PC. BALL VALVE FLANGE END(150# / 300#)



“FOCET” make Ball valve is a form of quarter - turn valve which uses a hollow, perforated and pivoting ball to control flow through it. It is open when the balls hole in line with the flow and closed when it is pivoted 90 degree by the valve handle.

### Technical Data

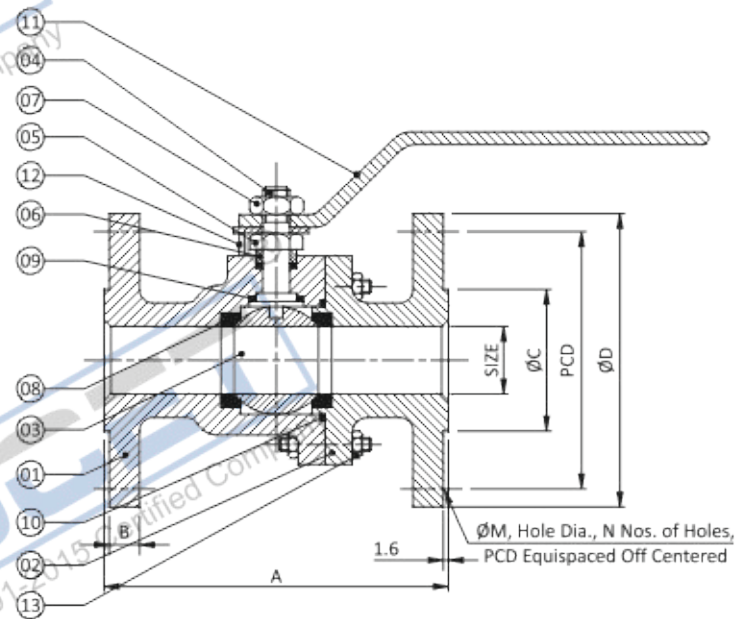
- ✓ Design & Manufacturing Std. : BS - 5351 / API - 6D
- ✓ Testing & Inspection Std. : API 598 / BS - 5146
- ✓ End Connection : Flanged As Per ANSI B 16.5
- ✓ Face to Face Dimensions : As per ANSI / B 16.10

### Primary Service Rating & Test Pressure

CLASS	WORKING PRESSURE	TEMPERATURE	HYD. TEST PRESSURE	
			BODY	SEAT
150	150 PSIG	180 °C	425 PSIG	300 PSIG
300	300 PSIG	180 °C	1100 PSIG	800 PSIG

Air Test - Seat 80 PSIG ±10 PSIG

Sr. No.	Parts Name	Material	Qty.
01	Body	WCB / CF8 / CF8M	1
02	Body Connector	WCB / CF8 / CF8M	1
03	Ball	S. S. 202 / S. S. 304 / S. S. 316	1
04	Stem	S. S. 202 / S. S. 304 / S. S. 316	1
05	Gland Nut	S. S. 202 / S. S. 304 / S. S. 316 / M. S.	1
06	Gland Bush	S. S. 202 / S. S. 304 / S. S. 316 / M. S.	1
07	Lock Nut	S. S. 202 / S. S. 304 / S. S. 316 / M. S.	1
08	Seat Ring	PTFE	2
09	Stem Seal	PTFE	2
10	Body Sealent Ring	PTFE	1
11	Lever	M. S. / S. S. 304 / S. S. 316	1
12	Stopper Pin	M. S. / S. S. 304 / S. S. 316	1
13	Stud & Nut	M. S. / S. S.	----



### Dimensions 150#

(All Dimensions are in MM)

SIZE		A	B	ØC	ØD	ØM	N	PCD
Inch	MM							
1/2"	15	108	10	35	89	16	4	60.4
3/4"	20	118	10.5	43	98	16	4	69.8
1"	25	127	11	51	108	16	4	79.2
1.1/4"	32	140	12.7	64	117	16	4	88.9
1.1/2"	40	165	14.2	73	127	16	4	98.5
2"	50	178	15.7	92	152	19	4	120.6
2.1/2"	65	191	17.5	105	178	19	4	139.7
3"	80	203	19	127	190.5	19	4	152.4
4"	100	229	24	157	229	19	8	190.5
5"	125	254	24	186	254	22	8	215.9
6"	150	267	25.5	216	279	22	8	241.3
8"	200	292	29	270	343	22	8	298.4
10"	250	330	30	324	406	25	12	362

### Dimensions 300#

(All Dimensions are in MM)

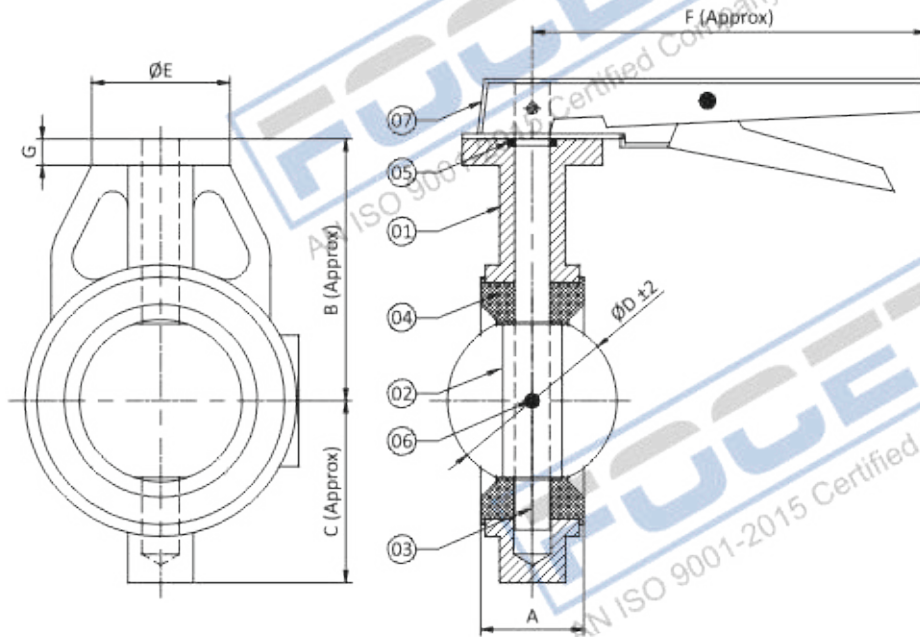
SIZE		A	B	ØC	ØD	ØM	N	PCD
Inch	MM							
1"	25	165	17.5	51	124	19	4	88.9
1.1/4"	32	178	19	64	133	19	4	98.5
1.1/2"	40	190.5	20.5	73	155.5	22	4	114.3
2"	50	216	22	92	165	19	8	127
2.1/2"	65	241	25	105	190.5	22	8	149.3
3"	80	282.5	28.5	127	209.5	22	8	168
4"	100	305	32	157	254	22	8	200
5"	125	381	35	186	279.4	22	8	235
6"	150	403	36.5	216	317.5	22	12	269.7
8"	200	419	41	270	381	25	12	330.2
10"	250	457	47.5	324	444.5	28	16	387.4

“FOCET” make Butterfly Valve is a quarter turn, rotary motion valve that is used to stop, regulate, and start fluid (air, water, gas) flow in pipes. BFV are easily and quickly operated because of a 90 rotation of disc from a fully closed to fully opened position.

### Technical Data

- ✓ Design & Manufacture : BS 5155 / API 609 / EN 593 / IS 13095
- ✓ Face to Face Dimensions : BS - 5155 / ISO 5792 / API 609
- ✓ Top Flange Drilling : ISO 5211
- ✓ Inspection & Testing : BS 6755 Part - 1 / API 598 / EN 1266 - 1
- ✓ Flange Standard Conformity : ANSI 150 / ANSI 125 / BS 10 Tab D & E  
IS 6392 NP 0.6 / 1.0 / 1.6

PRESSURE RATING	HYDROSTATIC		HYDROSTATIC	
	SHELL Kg/cm <sup>2</sup>	TEST PSI	SHELL Kg/cm <sup>2</sup>	TEST PSI
PN 16	22	310	16	225
PN 10	15	210	10	140



SEAT TYPE	TEMPERATURE RANGE	
	MINIMUM	MAXIMUM
NITRILE	-13 °F (-25 °C)	212 °F (100 °C)
EPDM	-13 °F (-25 °C)	250 °F (120 °C)
SILICON	-58 °F (-50 °C)	356 °F (180 °C)
VITON	-23 °F (-5 °C)	392 °F (200 °C)
HYPALON	-4 °F (-20 °C)	250 °F (120 °C)

### Dimensions

(All Dimensions are in MM)

SIZE		A	B	C	D	E	F	G	Top Flange Mounting (ISO 5211)
Inch	MM								
1.1/2"	40	36	92	52	40	65	180	15	F05
2"	50	43	103	70	50	65	180	15	F05
2.1/2"	65	46	110	76	63	65	180	15	F05
3"	80	46	118	85	76	65	215	15	F05
4"	100	52	148	102	100	65	215	15	F05
5"	125	56	164	115	125	65	215	15	F05
6"	150	56	176	130	150	65	265	15	F05
8"	200	60	230	156	200	75	325	15	F07

Sr. No.	Parts Name	Material	Qty.
01	Body	Cast Iron / Cast Steel / S. S. 304 / S. S. 316	1
02	Disc	Cast Iron / Cast Steel / S. S. 304 / S. S. 316	1
03	Spindle	S. S. 410 / S. S. 304 / S. S. 316	1
04	Body Lining	NITRILE / EPDM / SILICON / VITON / HYPALON	1
05	'O' - Ring	NITRILE / EPDM	1
06	Pin	S. S. 304 / S. S. 316	1
07	Lever	MS Fabricated	1

# BUTTERFLY VALVE GEAR OPERATED



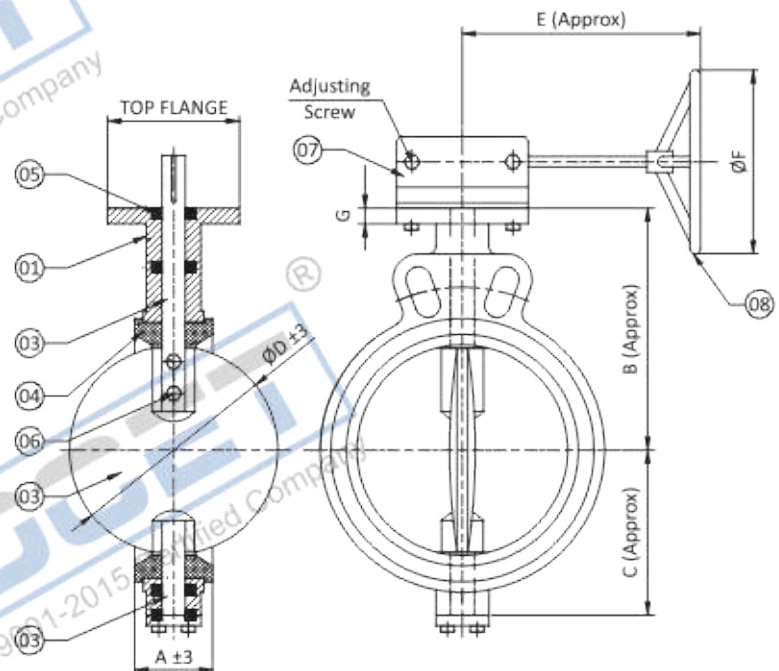
“FOCET” make Butterfly Valve is a quarter turn, rotary motion valve that is used to stop, regulate, and start fluid (air, water, gas) flow in pipes. BFV are easily and quickly operated because of a 90 rotation of disc from a fully closed to fully opened position.

### Technical Data

- ✓ Design & Manufacture : BS - 5155 / API 609 / EN 593 / IS 13095
- ✓ Face to Face Dimensions : BS - 5155 / ISO 5792 / API 609
- ✓ Top Flange Drilling : ISO 5211
- ✓ Inspection & Testing : BS 6755 Part - 1 / API 598 / EN 1266 - 1
- ✓ Flange Standard Conformity : ANSI 150 / ANSI 125 / BS 10 Tab D & E  
IS 6392 NP 0.6 / 1.0 / 1.6

PRESSURE RATING	HYDROSTATIC		HYDROSTATIC	
	SHELL Kg/cm <sup>2</sup>	TEST PSI	SHELL Kg/cm <sup>2</sup>	TEST PSI
PN 16	22	310	16	225
PN 10	15	210	10	140

SEAT TYPE	TEMPERATURE RANGE	
	MINIMUM	MAXIMUM
NITRILE	-13 °F (-25 °C)	212 °F (100 °C)
EPDM	-13 °F (-25 °C)	250 °F (120 °C)
SILICON	-58 °F (-50 °C)	356 °F (180 °C)
VITON	-23 °F (-5 °C)	392 °F (200 °C)
HYPALON	-4 °F (-20 °C)	250 °F (120 °C)



### Dimensions

(All Dimensions are in MM)

SIZE		A	B	C	D	E	F	G	Top Flange Mounting (ISO 5211)
Inch	MM								
8"	200	60	230	156	200	285	300	15	F10
10"	250	68	266	196	250	285	350	18	F10
12"	300	78	300	230	298	285	350	18	F10
14"	350	92	320	272	348	300	350	22	F12
16"	400	102	385	302	394	305	500	22	F14
18"	450	114	405	325	433	305	500	24	F14

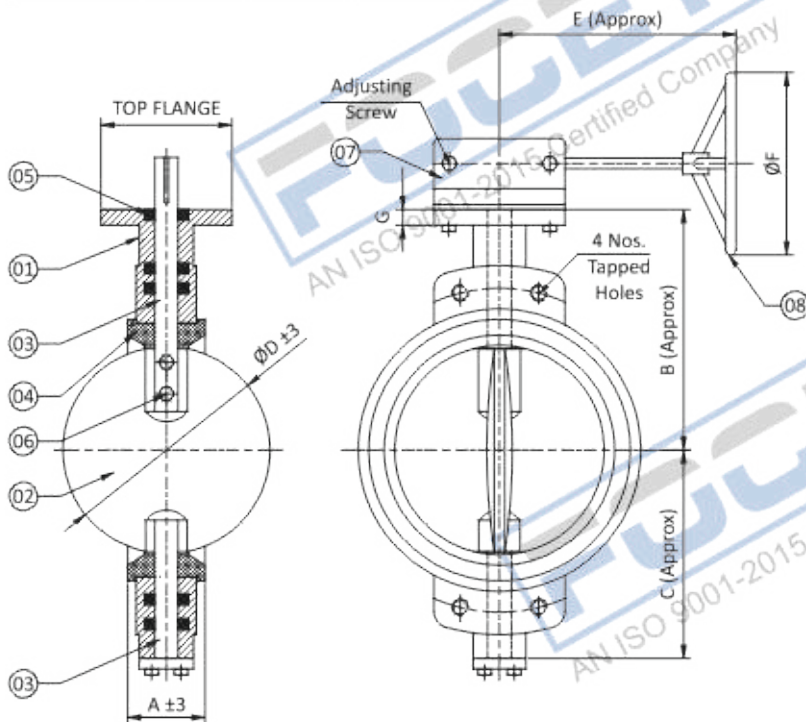
Sr. No.	Parts Name	Material	Qty.
01	Body	Cast Iron / Cast Steel / S. S. 304 / S. S. 316	1
02	Disc	Cast Iron / Cast Steel / S. S. 304 / S. S. 316	1
03	Spindle	S. S. 410 / S. S. 304 / S. S. 316	1
04	Body Lining	NITRILE / EPDM / SILICON / VITON / HYPALON	1
05	'O' - Ring	NITRILE / EPDM	1
06	Pin	S. S. 304 / S. S. 316	1
07	Gear Box	Cast Iron	1
08	Hand Wheel	MS Fabricated	1

"FOCET" make Butterfly Valve is a quarter turn, rotary motion valve that is used to stop, regulate, and start fluid (air, water, gas) flow in pipes. BFV are easily and quickly operated because of a 90 rotation of disc from a fully closed to fully opened position.

### Technical Data

- ✓ Design & Manufacture : BS - 5155 / API 609 / EN 593 / IS 13095
- ✓ Face to Face Dimensions : BS - 5155 / ISO 5792 / API 609
- ✓ Top Flange Drilling : ISO 5211
- ✓ Inspection & Testing : BS 6755 Part - 1 / API 598 / EN 1266 - 1
- ✓ Flange Standard Conformity : ANSI 150 / ANSI 125 / BS 10 Tab D & E  
IS 6392 NP 0.6 / 1.0 / 1.6

PRESSURE RATING	HYDROSTATIC		HYDROSTATIC	
	SHELL	TEST	SHELL	TEST
	Kg/cm <sup>2</sup>	PSI	Kg/cm <sup>2</sup>	PSI
PN 16	22	310	16	225
PN 10	15	210	10	140



SEAT TYPE	TEMPERATURE RANGE	
	MINIMUM	MAXIMUM
NITRILE	-13 °F (-25 °C)	212 °F (100 °C)
EPDM	-13 °F (-25 °C)	250 °F (120 °C)
SILICON	-58 °F (-50 °C)	356 °F (180 °C)
VITON	-23 °F (-5 °C)	392 °F (200 °C)
HYPALON	-4 °F (-20 °C)	250 °F (120 °C)

### Dimensions

(All Dimensions are in MM)

SIZE		A	B	C	D	E	F	G	Top Flange Mounting (ISO 5211)
Inch	MM								
20"	500	127	465	405	470	370	500	26	F16
22"	550	127	490	415	525	370	500	26	F16
24"	600	154	540	460	570	350	600	26	F16
28"	700	229	565	515	660	380	600	28	F16
30"	750	229	590	540	740	380	600	28	F25
32"	800	241	588	650	760	396	600	28	F25
36"	900	241	720	660	890	396	600	28	F25

Sr. No.	Parts Name	Material	Qty.
01	Body	Cast Iron / Cast Steel / S. S. 304 / S. S. 316	1
02	Disc	Cast Iron / Cast Steel / S. S. 304 / S. S. 316	1
03	Spindle	S. S. 410 / S. S. 304 / S. S. 316	1
04	Body Lining	NITRILE / EPDM / SILICON / VITON / HYPALON	1
05	'O' - Ring	NITRILE / EPDM	1
06	Pin	S. S. 304 / S. S. 316	1
07	Gear Box	Cast Iron	1
08	Hand Wheel	MS Fabricated	1

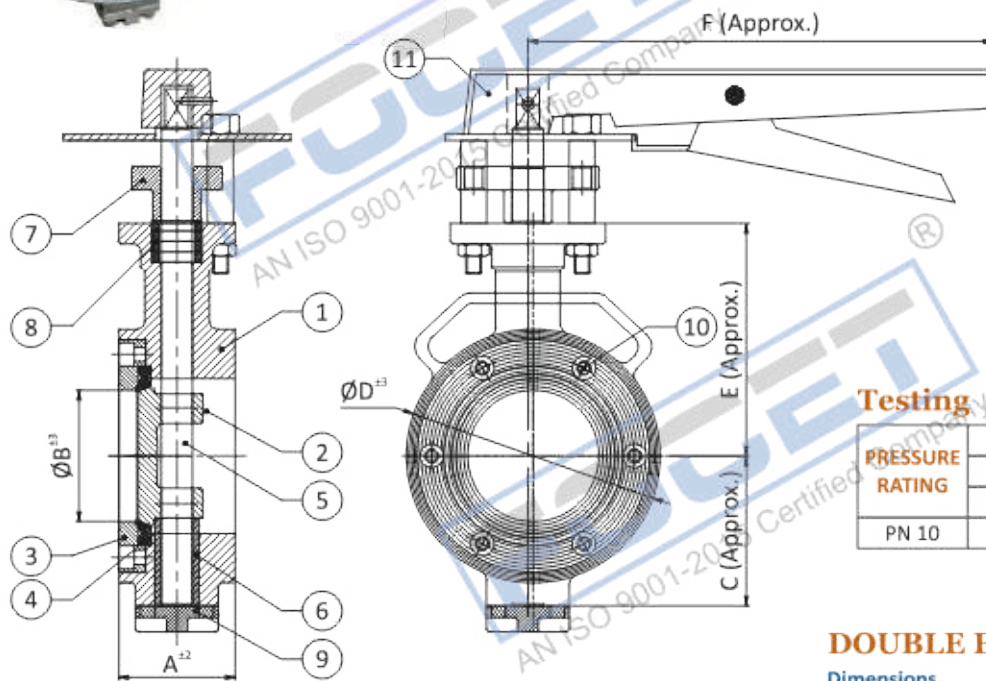
# SPHERICAL DISC BUTTERFLY VALVE



“FOCET” Make Spherical Disc Type Butterfly Valves are giving extremely high performance at very lower operating torque with some significant features like lower weight, compact design, replaceable seat and easy maintenance. PTFE seat ensures smooth working life under temperature Upto 210° centigrade. For higher size these valves are strongly recommended.

### Technical Data

- ✓ Design & Manufacture : API 609
- ✓ Valve Face to Face Dimension : BS 5155 / API 609 Category B
- ✓ Top Flange Drilling : ISO 5211
- ✓ Valve Inspection & Testing : BS 6755 Part - 1 / API 598 / EN 12266 - 1
- ✓ Flange Standard Conformity : ANSI 150 / IS 6392 NP 1.0 / 1.6



### Testing

PRESSURE RATING	HYDROSTATIC		HYDROSTATIC	
	SHELL	TEST	SEAT	TEST
	Kg/cm <sup>2</sup>	PSI	Kg/cm <sup>2</sup>	PSI
PN 10	15	210	10	140

Sr. No.	Parts Name	Material
01	Body	WCB / CF8 / CF8M
02	Disc	CF8 / CF8M
03	Retainer	WCB / CF8 / CF8M
04	Seat Ring	PTFE / GFT / VITON
05	Shaft	AISI 410 / 304 / 316
06	Shaft Bearing Bush	AISI 410 / 304 / 316
07	Gland	WCB / CF8
08	Gland Packing	PTFE
09	Bottom Cover	WCB / CF8
10	L. N. Bolt	S. S. 202 / S. S. 304
11	Lever	M. S.

### DOUBLE ECCENTRIC DISC DESIGN

Dimensions (All Dimensions are in MM)

SIZE		A	ØB	C	ØD	E	F
Inch	MM						
1.1/2"	40	42	40	51	85	85	180
2"	50	45	51	58	98	90	180
2.1/2"	65	48	61	63	115	102	180
3"	80	48	72	70	131	120	215
4"	100	54	100	86	159	134	215
5"	125	57	123	105	188	154	265
6"	150	57	143	120	219	170	265
8"	200	63	192	145	272	200	325
10"	250	72	240	175	325	230	---
12"	300	83	290	215	385	270	---



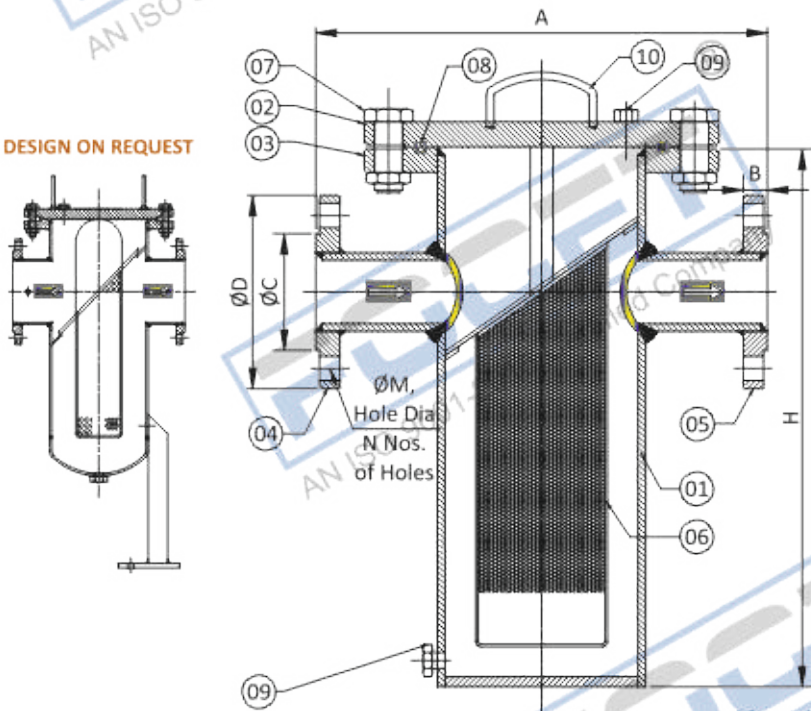
“FOCET” make Fabricated Basket Type Strainer designed remove foreign matter from pipelines and provides protection for pumps, meters and other mechanical equipments. Basket strainer feature top removal of the screen.

### Technical Data

- ✓ Design & Manufacturing Std. : Manufacturing
- ✓ Testing & Inspection Std.
- ✓ End Connections : Flange As Per ANSI B 16.5 - 150#
- ✓ Shell Wall Thickness : As Per Pipe Standard
- ✓ Face to Face Dimensions : As Per ANSI B 16.10 Shown



DESIGN ON REQUEST



### Primary Service Rating & Test Pressure

CLASS	WORKING PRESSURE	TEMPERATURE	HYD. TEST PRESSURE	
			BODY	SEAT
150	---	---	225 PSIG	150 PSIG

Sr. No.	Parts Name	Material	Qty.
01	Body	IS 2062	1
02	Top Cover	IS 2062	1
03	Body Cover	IS 2062	1
04	Inlet Flange	IS 2062	1
05	Outlet Flange	IS 2062	1
06	Screen	S. S. 304 (40 Mesh)	1
07	Cover Bolt & Nut	Carbon Steel	---
08	Gasket	Nitrile	1
09	Drain Plug & Vent Plug	ASTM A 105	1
10	Lifting Handle	Carbon Steel	1

Dimensions 150#

(All Dimensions are in MM)

SIZE	Inch	MM	A	H	B	ØC	ØD	ØM	N	PCD
1.1/2"	40	260	330	14	73	127	16	4	98.5	
2"	50	260	335	16	92	152	19	4	120.5	
2.1/2"	65	260	350	17.5	105	178	19	4	140	
3"	80	300	365	19	127	190.5	19	4	152.4	
4"	100	330	420	24	157	229	19	8	190.5	
5"	125	400	455	24	186	254	19	8	216	
6"	150	400	480	25	216	279	22	8	241	
8"	200	465	620	28.5	270	343	22	8	298.4	
10"	250	515	770	30	324	406	25	12	362	
12"	300	575	940	32	381	483	25	12	432	
14"	350	680	1040	35	412.7	533.4	28.6	12	476.2	
16"	400	750	1085	36.5	469.9	596.9	28.6	16	539.7	
18"	450	850	1200	40	533.4	635	31.7	16	577.8	
20"	500	1000	1300	43	584.2	698.5	31.7	20	635	
24"	600	1200	1400	47.6	692.1	812.8	34.9	20	749.3	

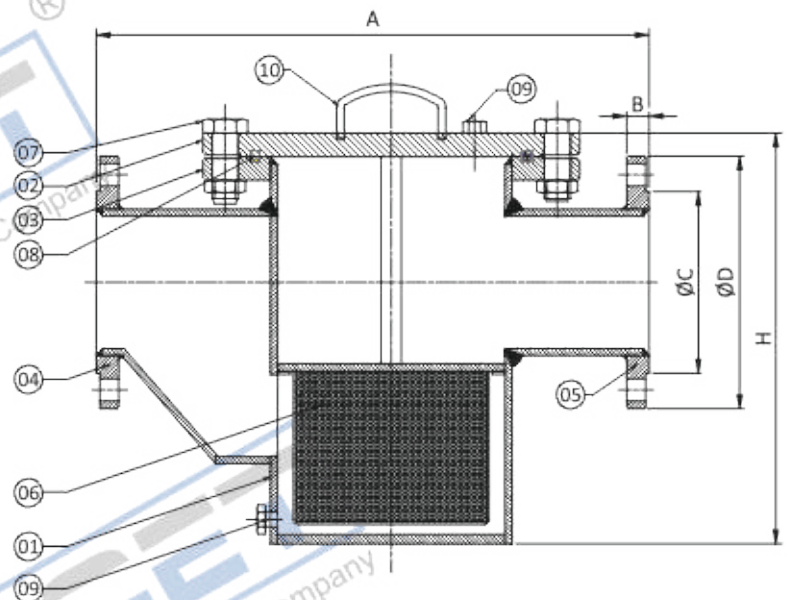
# FABRICATED "POT" TYPE STRAINER



"FOCET" make Fabricated POT type strainer remove damage causing particulate matter from the process media, protecting system components, such as meter, pumps etc. These strainer reduce downtime for cleaning due to their construction of bolted cover and easy removal of screen.

### Technical Data

- ✓ Design & Manufacturing Std. : As Per Manufacturer Std.
- ✓ Testing & Inspection Std. : ---
- ✓ End Connection : Flanged as per ANSI B - 16.5 - 150#
- ✓ Shell Wall Thickness : As Per Pipe Standard
- ✓ Face to Face Dimensions : As Per Manufacturer Std.



### Primary Service Rating & Test Pressure

CLASS	WORKING PRESSURE	TEMPERATURE	HYD. TEST PRESSURE	
			BODY	SEAT
150	----	----	225 PSIG	150 PSIG

Sr. No.	Parts Name	Material	Qty.
01	Body	IS 2062	1
02	Top Cover	IS 2062	1
03	Body Cover	IS 2062	1
04	Inlet Flange	IS 2062	1
05	Outlet Flange	IS 2062	1
06	Screen	S. S. 304 (40 Mesh)	1
07	Cover Bolt & Nut	Carbon Steel	----
08	Gasket	Nitrile	1
09	Drain Plug & Vent Plug	ASTM A 105	1
10	Lifting Handle	Carbon Steel	1

### Dimensions 150#

(All Dimensions are in MM)

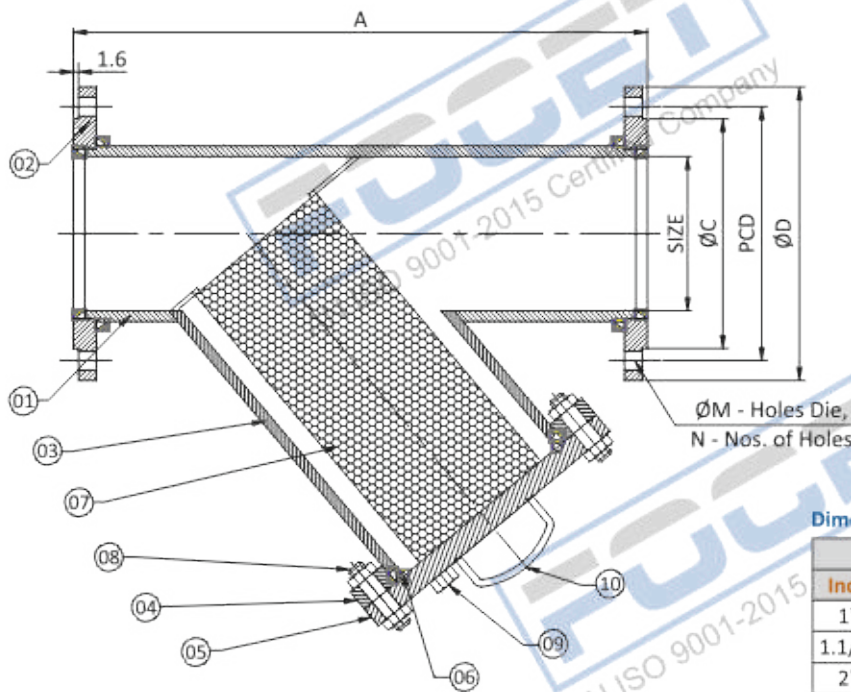
SIZE		A	H	B	ØC	ØD	ØM	N	PCD
Inch	MM								
1"	25	250	250	11	51	108	16	4	79
1.1/2"	40	310	290	14	73	127	16	4	98.5
2"	50	310	300	16	92	152	19	4	120.5
2.1/2"	65	310	300	17.5	105	178	19	4	140
3"	80	350	315	19	127	190.5	19	4	152.4
4"	100	380	350	24	157	229	19	8	190.5
5"	125	450	400	24	186	254	19	8	216
6"	150	450	425	25	216	279	22	8	241
8"	200	515	550	28.5	270	343	22	8	298.4
10"	250	600	700	30	324	406	25	12	362
12"	300	700	850	32	381	483	25	12	432
14"	350	800	900	35	412.7	533.4	28.6	12	476.2
16"	400	900	1000	36.5	469.9	596.9	28.6	16	539.7
18"	450	1000	1100	40	533.4	635	31.7	16	577.8
20"	500	1100	1200	43	584.2	698.5	31.7	20	635
24"	600	1300	1300	47.6	692.1	812.8	34.9	20	749.3



"FOCET" make "Y" Type Strainer is very useful when it comes to protecting pumps and compressor because the dirt and debris present in the latter is collected in the strainer are most suitable for horizontal and vertical pipelines where the debris is difficult to be removed from the liquid or gas.

### Technical Data

- ✓ Design & Manufacturing Std. : ASME B 16.34
- ✓ End Connection : Flanged as per ANSI B - 16.5 - 150#
- ✓ Shell Wall Thickness : As Per Pipe Standard
- ✓ Face to Face Dimensions : As Per ANSI B 16.10



### Primary Service Rating & Test Pressure

CLASS	HYD. TEST PRESSURE	SERVICE RATING
150	10 Kg/cm <sup>2</sup>	----

### Dimensions 150#

(All Dimensions are in MM)

SIZE	SIZE		A	B	ØC	ØD	ØM	N	PCD
	Inch	MM							
1"	25	160	11	51	108	16	4	79	
1.1/2"	40	200	14	73	127	16	4	98.5	
2"	50	230	16	92	152	19	4	120.5	
2.1/2"	65	290	17.5	105	178	19	4	140	
3"	80	310	19	127	190.5	19	4	152.4	
4"	100	350	24	157	229	19	8	190.5	
5"	125	400	24	186	254	19	8	216	
6"	150	480	25	216	279	22	8	241	
8"	200	600	28.5	270	343	22	8	298.4	
10"	250	730	30	324	406	25	12	362	
12"	300	850	32	381	483	25	12	432	
14"	350	980	35	412.7	533.4	28.6	12	476.2	
16"	400	1100	36.5	469.9	596.9	28.6	16	539.7	
18"	450	1200	40	533.4	635	31.7	16	577.8	
20"	500	1250	43	584.2	698.5	31.7	20	635	
24"	600	1450	47.6	692.1	812.8	34.9	20	749.3	

Sr. No.	Parts Name	Material	Qty.
01	Main Pipe	IS 2062	1
02	Side Flange	IS 2062	1
03	Pipe	IS 2062	1
04	Top Flange	IS 2062	1
05	Top Cover	IS 2062	1
06	Gasket	Nitrile	1
07	Screen	S. S. 304 (40 Mesh)	----
08	Cover Stud & Nut	Carbon Steel	1
09	Drain Plug	ASTM A 105	1
10	Lifting Handle	Carbon Steel	1

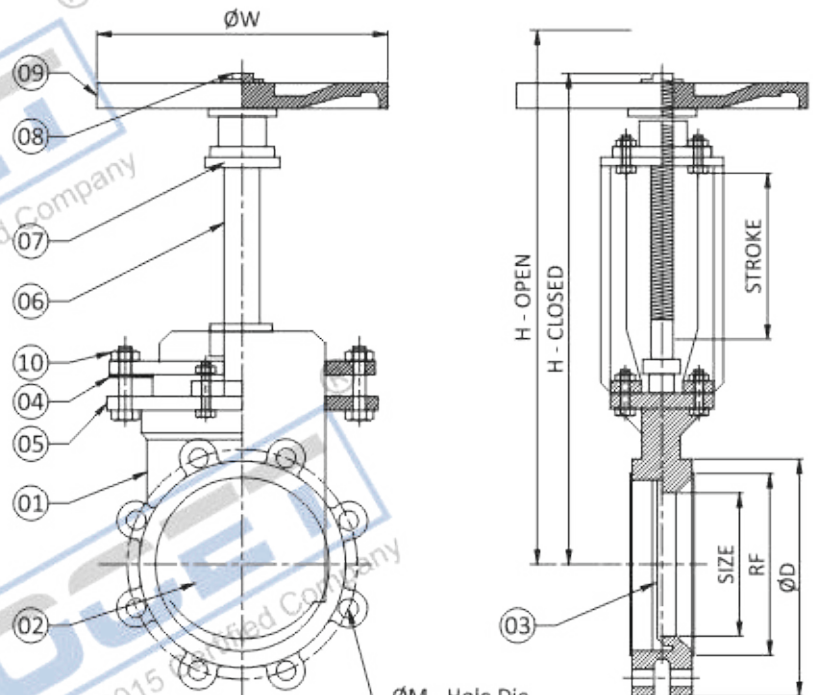
# KNIFE EDGE GATE VALVE



“FOCET” make Knife Edge Gate Valves are advantageous in sledge and slurry applications because their blades cut right through thick liquids easily. They are generally specified in larger sizes for handling thick flows of heavy Oils, Light Grease, Slurry, Paper & Pulp, Varnish and Wastewater to name but a few Knife Gate Valve applications.

### Technical Data

- ✓ Design & Manufacturing Std. : MSS - SP - 81
- ✓ Face to Face Dimensions : ---
- ✓ End Connections : ---
- ✓ Testing Std. : MSS - SP - 81



### Primary Service Rating & Test Pressure

CLASS	WORKING PRESSURE	TEMPERATURE	HYD. TEST PRESSURE	
			BODY	SEAT
150	150 PSIG (21 Kg/cm <sup>2</sup> )	220 °F	425 PSIG	40 PSIG

NOTE : 2" TO 14" LUGGED TYPE  
16" TO ABOVE FLANGE END 150#

### Dimensions 150#

(All Dimensions are in MM)

SIZE		A	ØD	ØC	ØM	N	PCD	ØW	H OPEN	H CLOSED
Inch	MM									
2"	50	47.6	152	92	16	4	120	203	406.4	346
3"	80	50.8	184	152	16	4	152	203	501	406.4
4"	100	50.8	228.6	156	16	8	190.5	203	549	450
6"	150	57.15	279	216	19	8	241.3	305	705	549
8"	200	69.85	343	270	19	8	298.5	305	882	680
10"	250	69.85	406	324	22	12	362	381	1085	816
12"	300	76.20	482	381	22	12	432	381	1235	924
14"	350	76.20	533	413	25	12	476	381	1403	1066.8
16"	400	82.50	597	470	25	16	540	508	1603	1187
18"	457	82.50	635	533	28.5	16	578	508	1790	1330
20"	508	108	698.5	584	28.5	20	635	508	2457	1936
24"	610	108	813	693	31.75	20	750	508	2949	2317

Sr. No.	Parts Name	Material	Qty.
01	Body	WCB / CF8 / CF8M	1
02	Gate	S. S. 410 / S. S. 304 / S. S. 316	1
03	Seat	Metal to Metal / EPDM / PTFE	1
04	Gland Packing	PTFE / Graphite	1
05	Gland	C. I. / WCB / CF8 / CF8M	1
06	Stem	S. S. 410 / S. S. 304	1
07	Yoke Sleeve	Gun Metal	1
08	Steam Nut	S. G. Iron	1
09	Hand Wheel	S. G. Iron	4
10	Nut & Bolts	C. S. / M. S.	4



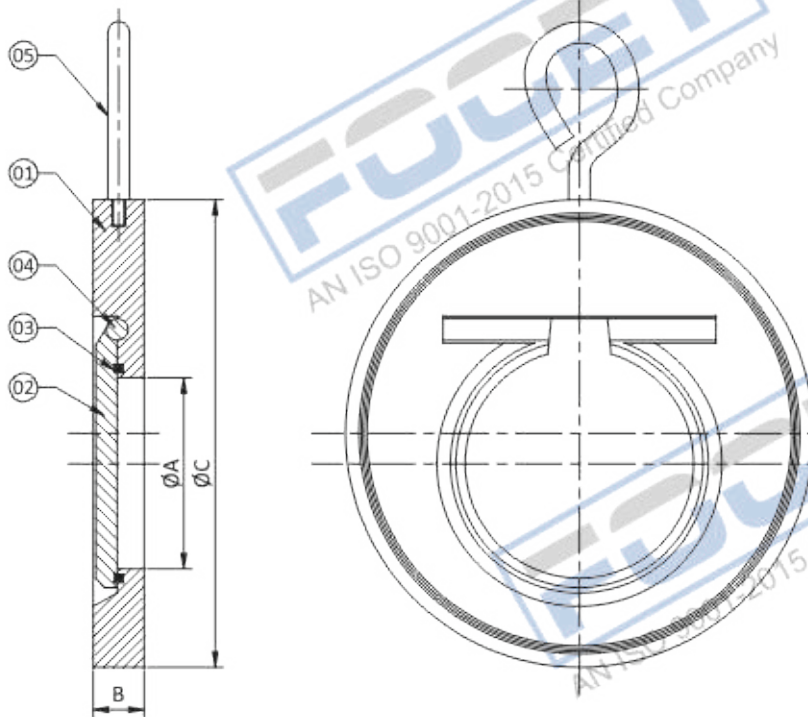
“FOCET” make Wafer Type Check Valve primarily single plate swing check valve with a short pattern wafer body. The low internal disc design enables the valve to open or close with a very low differential pressure.

### Technical Data

- ✓ Design & Manufacturing Std. : API 6D / ANSI B 16.34
- ✓ Testing & Inspection Std. : API 598
- ✓ Pressure Class : 150#

### Primary Service Rating & Test Pressure

CLASS	WORKING PRESSURE	TEMPERATURE	HYD. TEST PRESSURE	
			BODY	SEAT
150	----	20 °C to 180 °C	225 PSIG	150 PSIG



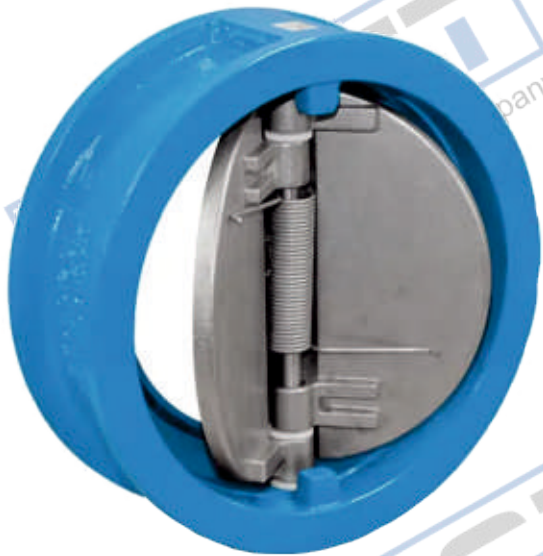
Dimensions 150#

SIZE		ØA	B	ØC
Inch	MM			
1"	25	14	16	64
1.1/2"	40	22	19	86
2"	50	30	19	104
2.1/2"	65	40	19	123
3"	80	52	19	136
4"	100	71	19	174
5"	125	93	19	196
6"	150	114	19	221
8"	200	157	28	278
10"	250	195	28	339
12"	300	230	38	409
14"	350	270	44	449
16"	400	310	50	512
18"	450	360	60	545
20"	500	406	63	605
24"	600	490	70	714

(All Dimensions are in MM)

Sr. No.	Parts Name	Material	Qty.
01	Body	C. I. / M. S. / CF8 / CF8M / CF3 / CF3M	1
02	Disc	C. I. / M. S. / CF8 / CF8M / CF3 / CF3M	1
03	'O' - Ring	NITRILE / EPDM / VITON / SILICON / PTFE	1
04	Hinge Pin	AISI 304 / AISI 316 / M. S.	1
05	Lifting Hook	M. S. / S. S.	1

# DUAL PLATE CHECK VALVE



“FOCET” make Dual Plate Check Valve is a spring loaded check valve uniquely designed for application. The construction feature makes the valve much smaller in size, lighter in weight & makes its operation as compared to conventional swing check valve.

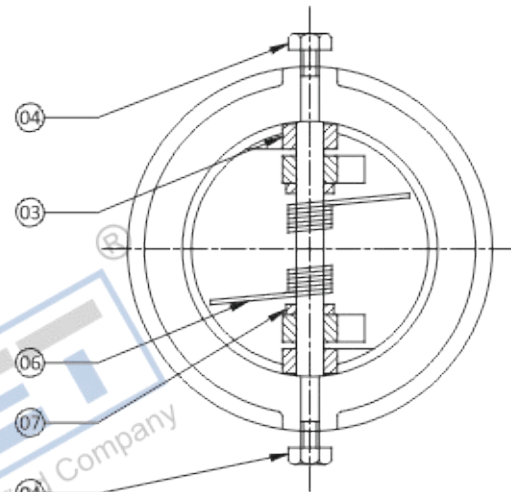
### Technical Data

- ✓ Design & Manufacturing Std. : API 594
- ✓ Testing & Inspection Std. : API 598
- ✓ End Connections : Wafer Type Suit to ANSI B 16.5 (150#)
- ✓ Face to Face Dimensions : API 594

### Primary Service Rating & Test Pressure

CLASS	WORKING PRESSURE	TEMPERATURE	HYD. TEST PRESSURE	
			BODY	SEAT
150	----	----	21 PSIG	11 PSIG

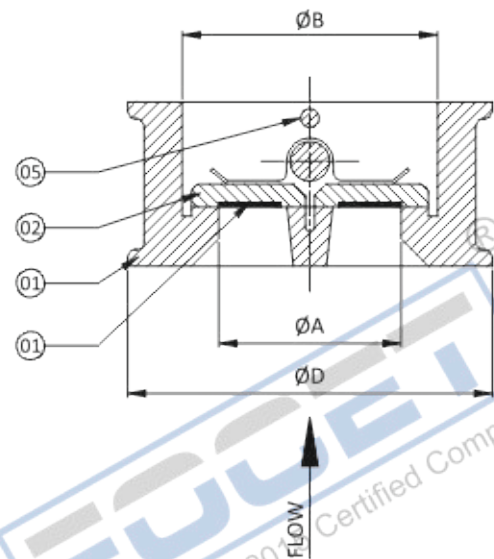
Sr. No.	Parts Name	Material	Qty.
01	Body	C. I. / IS : 210 Gr. FG 200 / ASTM-A216 Gr. WCB	1
02	Disc	ASTM A351 Gr. CF8 / Gun Metal	2
03	Hinge Pin	AISI 304 / AISI 316	1
04	Plug	AISI 304 / AISI 316	2
05	Stop Pin	AISI 304 / AISI 316	1
06	Spring	AISI 304 / AISI 316	2
07	Bearing	AISI 304 / AISI 316	1
08	Seat	NBR / EPDM / VITON	1



### Dimensions 150#

SIZE		ØA	ØB	ØC
Inch	MM			
2"	50	50	60	105
2.1/2"	65	65	75	124
3"	80	76	90	134
4"	100	100	115	172
5"	125	125	135	196
6"	150	150	165	220
8"	200	200	220	276
10"	250	250	265	338
12"	300	300	320	407
14"	350	350	350	448
16"	400	400	400	514
18"	450	450	450	549
20"	500	500	500	603
24"	600	600	600	718

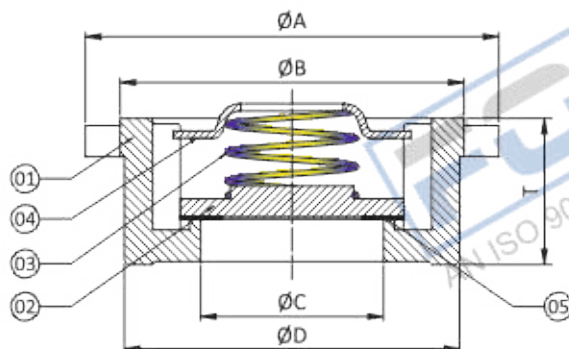
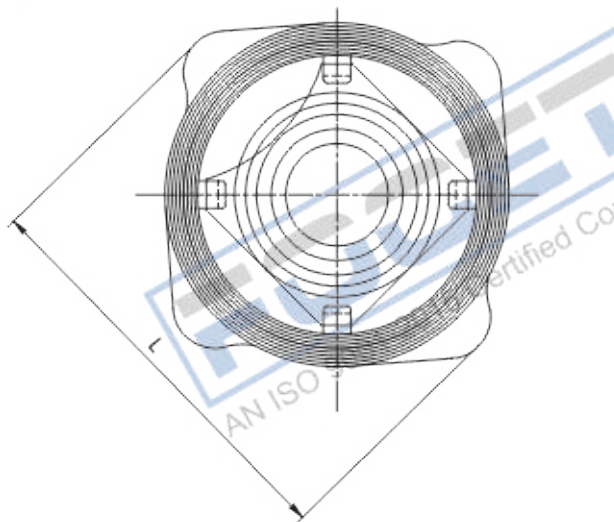
(All Dimensions are in MM)



“FOCET” make Wafer Type Non Slam Disc Check Valve Manufactured from stainless steel material. DCV is designed for handling Water, Steam & Condensate. Its Spring Loaded designed permit flow only in one direction and prevent flow in the reverse direction.

### Technical Data

- ✓ Design & Manufacturing Std. : BS 7438
- ✓ Testing & Inspection Std. : ---
- ✓ Rating : PN 40



Sr. No.	Parts Name	Material	Qty.
01	Body	ASTM A 351 Gr. CF8 / CF8M	1
02	Disc	AISI 304 / AISI 316	1
03	Spring	AISI 304 / AISI 316	1
04	Cover Plate	AISI 304 / AISI 316	1
05	Disc Seat	Metal to Metal	1

### Primary Service Rating & Test Pressure

CLASS	PRESSURE RATING	TEMPERATURE
---	PN 40	300°C

Air Test - Seat 80 PSIG ±10 PSIG

### Dimensions 150#

(All Dimensions are in MM)

SIZE		ØA	ØB	ØC	ØD	T	L
Inch	MM						
1/2"	15	43	29	15	38	16	60
3/4"	20	53	36	20	45	19	70
1"	25	63	44	25	56	22	80
1.1/4"	32	55	32	65	28	90	46
1.1/2"	40	83	66	40	74	31	98
2"	50	93	77	50	85	40	112
2.1/2"	65	114	98	65	107	46	141
3"	80	132	111	80	122	50	151
4"	100	153	130	100	142	60	181
5"	125	185	161	125	170	90	215
6"	150	212	190	150	202	105	255
8"	200	277	250	200	261	140	320
10"	250	340	306	246	340	144	340

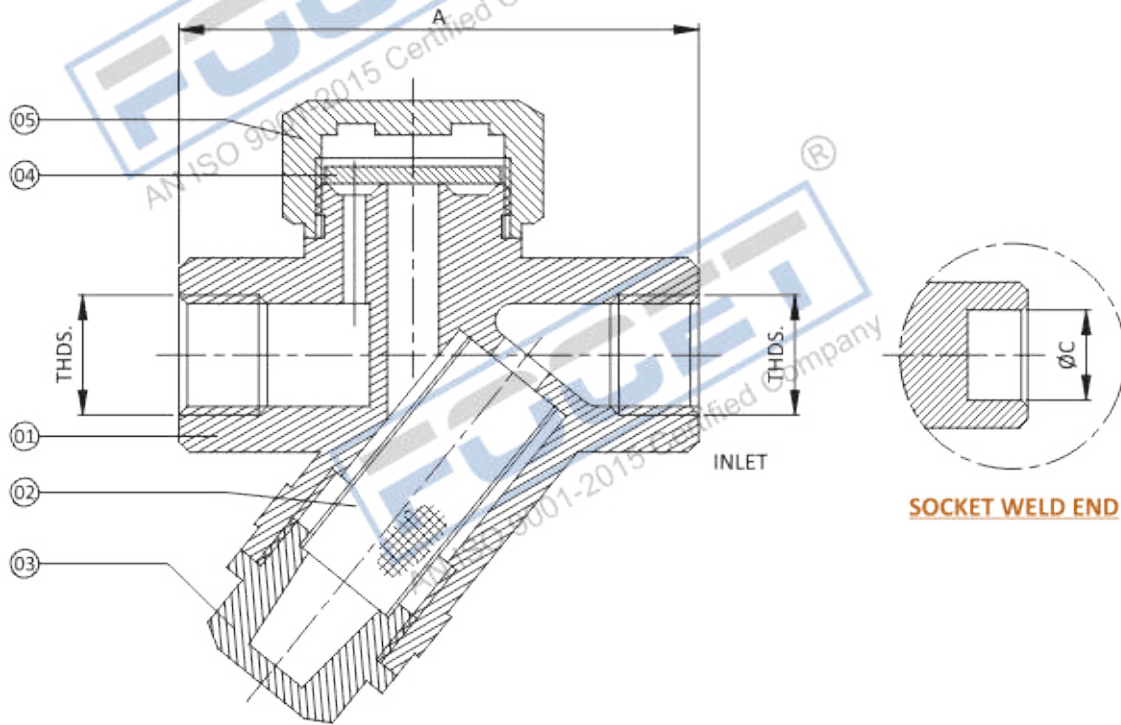
# THERMODYNAMIC (TD-3) STEAM TRAP



“FOCET” make TD-3 is an extremely robust steam trap with simple mode of operation. The trap operated by means of the dynamics effect of flash steam as it passes through the trap. The only moving part is there disc above the flat face inside the control chamber or cap. On star up, Incoming pressure raises the disc and cool condensate plus air is immediately discharged from the inner ring under the disc and out through the peripheral outlets.

### Technical Data

- ✓ Design & Manufacturing Std. : ---
- ✓ Testing & Inspection Std. : ---
- ✓ End Connections : ANSI B 1.20.1
- ✓ Socket Weld End : ANSI B 16.11



Sr. No.	Parts Name	Material	Qty.
01	Body	IC 410	1
02	Screen	S. S. 304	1
03	Plug	IC 410	1
04	Disc	S. S. 410	1
05	Body Cover	IC 410	1

Dimensions 150#

(All Dimensions are in MM)

SIZE		A	THDS.	ØC
Inch	MM			
1/2"	15	79	1/2" BSP / BSPT / NPT	22
3/4"	20	79	1/2" BSP / BSPT / NPT	27.5
1"	25	92	1/2" BSP / BSPT / NPT	34



## BUCKET TYPE STEAM TRAP

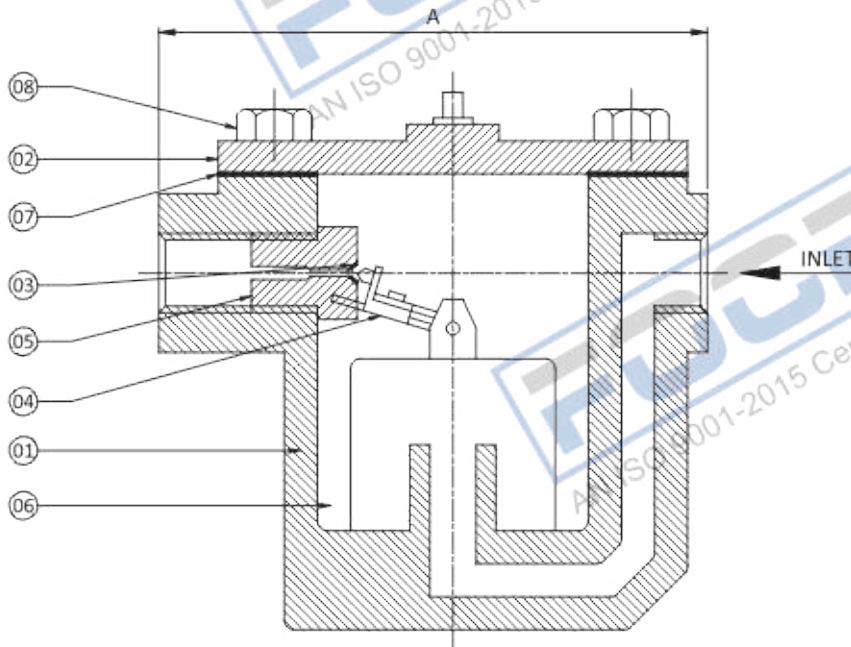
“FOCET” make Horizontal Inverted Bucket type Steam Trap have on inverted bucket inside. Then as condensate enters the trap. It forms a water seal inside the body. The weight of the bucket keeps the valve off its seat and so condensate can flow around the bottom of the bucket and out of the trap.

### Technical Data

- ✓ Design & Manufacturing Std. : IS 12268
- ✓ Testing & Inspection Std. : IS 12268
- ✓ End Connections : Screwed BSP (F)

### Primary Service Rating & Test Pressure

CLASS	WORKING PRESSURE	TEMPERATURE	HYD. TEST PRESSURE	
			BODY	SEAT
150	150 PSIG	220 °C	300 PSIG	----



Sr. No.	Parts Name	Material	Qty.
01	Body	C. I. / IS : 210 Gr. 220	1
02	Cover	C. I. / IS : 210 Gr. 290	1
03	Seat	S. S. 304	1
04	Valve	Gun Metal	1
05	Nipple	Gun Metal	1
06	Bucket	S. S.	1
07	Gasket	Graphite	1
08	Nut & Bolt	Carbon Steel	----

### Dimensions

SIZE		A
Inch	MM	
1/2"	15	177
3/4"	20	177
1"	25	188
1.1/2"	40	252
2"	50	252

(All Dimensions are in MM)

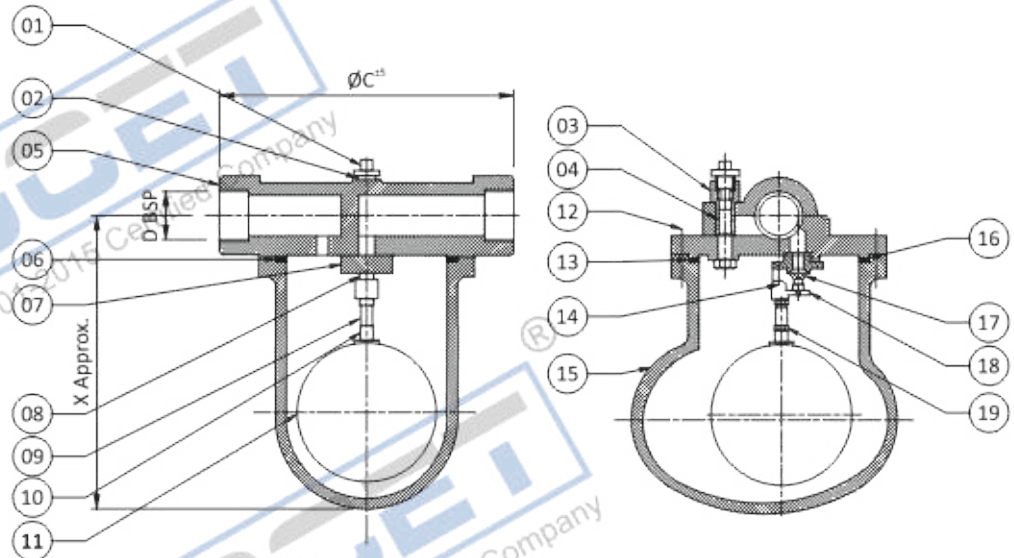
# BALL FLOAT STEAM TRAP HORIZONTAL



“FOCET” Make Ball float steam trap is a kind of mechanical steam trap which rely on the difference in density between steam and condensate in order to operate. These steam traps can continuously pass large volumes of condensate and are suitable for a wide range of process applications. The ball float type trap operates by sensing the difference in density between steam and condensate.

### Technical Data

- ✓ Body : 370 PSIG Hyd.
- ✓ Max. Working Pressure : 185 PSIG Steam
- ✓ Max. Working Temperature : 220 °C



Dimensions (All Dimensions are in MM)

SIZE		øC	D	X
Inch	MM			
1/2"	15	131	1/2" BSP	154
3/4"	20	131	3/4" BSP	154
1"	25	134	1" BSP	200
1.1/2"	40	273	1.1/2" BSP	254
2"	50	306	2" BSP	275

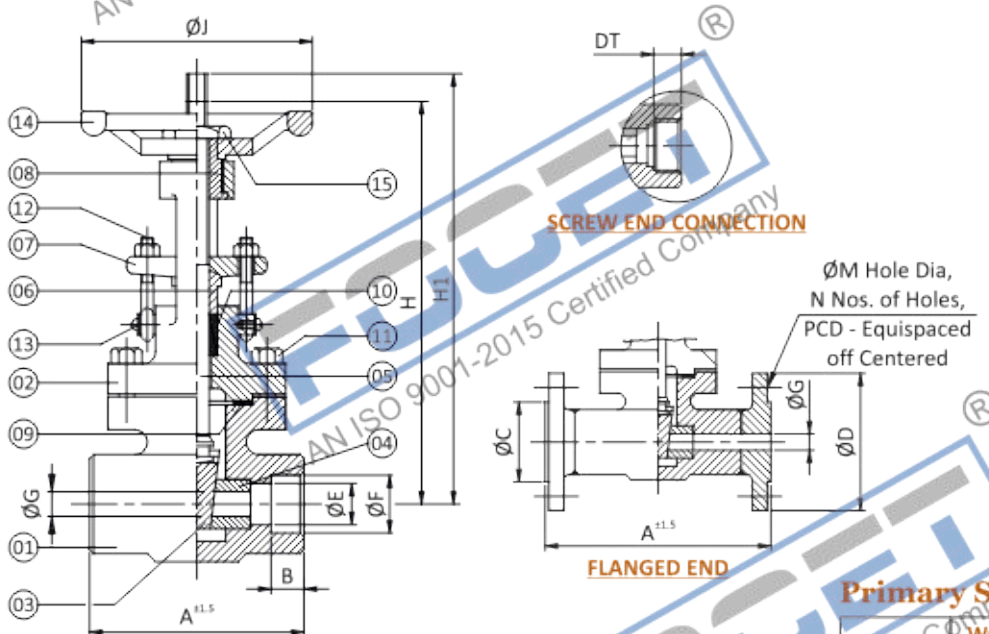
Sr. No.	Parts Name	Material	Qty.
01	Spindle	S. S. 18/8% Cr. / Ni.	1
02	Air Vent Gland	Bronze	1
03	Stuffing Box	S. S. 18/8% Cr. / Ni.	1
04	Washer	Copper / Carbon Filled Teflon (PTFE)	1
05	Body	C. I.	1
06	Gasket	C. A. F.	1
07	Valve Bracket	S. S. 18/8% Cr. / Ni.	1
08	Bolts	M. S.	4
09	Ball Float Lever Rod	S. S. 18/8% Cr. / Ni.	1
10	Ball Bush	S. S. 18/8% Cr. / Ni.	1
11	Ball	S. S. 18/8% Cr. / Ni.	1
12	Bolts & Nuts	M. S.	4
13	Air Vent Valve Seat	S. S. 18/8% Cr. / Ni.	1
14	Pin	M. S.	1
15	Float Chamber	C. I.	1
16	Gasket	C. A. F.	1
17	Main Valve Seat	S. S. 18/8% Cr. / Ni.	1
18	Main Valve Lever	S. S. 18/8% Cr. / Ni.	1
19	Check Nut	S. S. 18/8% Cr. / Ni.	2



"FOCET" make Forged Steel Gate Valves are compact, sturdy & ideal for high pressure & high temperature applications. These valves are outside screw & yoke type (OS & Y) with rising stem & non rising handwheel. These valves shall be bolted bonnet or welded bonnet type with full or standard bore options.

### Technical Data

- ✓ Design & Manufacturing Std. : API 602
- ✓ Testing & Inspection Std. : API 598
- ✓ Socket Weld & Threaded To : ANSI B 16.11 / ANSI B 1.20.1
- ✓ Flanged to : ANSI B 16.5
- ✓ Face to Face Distance : ANSI B 16.10



### Primary Service Rating & Test Pressure

CLASS	WORKING PRESSURE	TEMPERATURE	HYD. TEST PRESSURE	
			BODY	SEAT
800	---	---	3000 PSIG	2000 PSIG

Air Test - Seat 80 PSIG ±10 PSIG

### Dimensions SCREWED / SOCKET WELD

(All Dimensions are in MM)

SIZE		A	B	ØE	ØF	ØG	H	H1	DT	ØJ
Inch	MM									
1/2"	15	85	10	13	22	9	154	174	13	94
3/4"	20	90	13	15	27.5	14	160	185	13	94
1"	25	105	13	22	34	18	168	198	15	98
1.1/2"	40	128	13	36	48.6	32	231	274	25	142
2"	50	142	16	45	61.1	42	242	287	25	142

### Dimensions 150#

(All Dimensions are in MM)

SIZE		A	ØC	ØD	ØG	ØM	N	PCD
Inch	MM							
1/2"	15	108	35	89	11	16	4	60.4
3/4"	20	118	43	98	13	16	4	70
1"	25	127	51	108	14	16	4	79
1.1/2"	40	165	73	127	14	16	4	98.5
2"	50	178	92	152	16	19	4	120.6

Sr. No.	Parts Name	Material	Qty.
01	Body	Forge Steel A105 / F304 / F316	1
02	Bonnet	Forge Steel A105 / F304 / F316	1
03	Wedge	AISI 304 / AISI 316 / 13% CR. S. S.	1
04	Seat Ring	AISI 304 / AISI 316 / 13% CR. S. S.	2
05	Stem	AISI 304 / AISI 316 / AISI 410	1
06	Gland Bush	AISI 304 / AISI 316 / AISI 410	1
07	Gland Flange	Forge Steel A105 / F304 / F316	1
08	Yoke Sleeve	Al. Bronze / Ni - Resist	1
09	Bonnet Gasket	Spiral Wound S. S. 304 with CAF	1
10	Gland Packing	S. S. Metal Wire Braided Asbestos	---
11	Bonnet Stud & Nut	ASTM A193 Gr. B7	4 Set
12	Eye Bolt & Nut	ASTM A194 Gr. 2H	2 Set
13	Screw & Washer	Forged C. S.	2 Set
14	Hand Wheel	Cast Iron / C. S.	1
15	Hand Wheel Nut	Carbon Steel	1

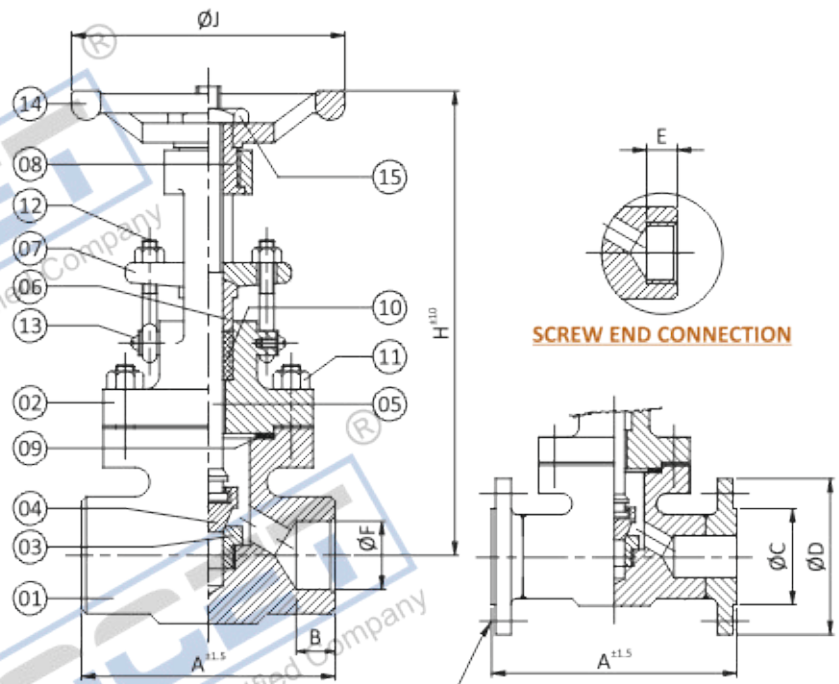
# FORGED STEEL GLOBE VALVE (800#)



“FOCET” make Globe Valves is a liner motion valve and are primarily designed to stop, start and regulate flow. The disc of a globe valve can be totally removed from the flowpath or it can completely close the flowpath.

### Technical Data

- ✓ Design & Manufacturing Std. : BS - 5352
- ✓ Testing & Inspection Std. : API 598
- ✓ Socket Weld & Threaded To : ANSI B 16.11 / ANSI B 1.20.1
- ✓ Flanged to : ANSI B 16.5
- ✓ Face to Face Distance : ANSI B 16.10



SCREW END CONNECTION

FLANGE END CONNECTION

ØM Hole Dia, N Nos. of Holes,  
PCD - Equispaced off Centered

### Primary Service Rating & Test Pressure

CLASS	WORKING PRESSURE	TEMPERATURE	HYD. TEST PRESSURE	
			BODY	SEAT
800	---	---	3000 PSIG	2000 PSIG

Air Test - Seat 80 PSIG ±10 PSIG

### Dimensions SCREWED / SOCKET WELD (All Dimensions are in MM)

SIZE		A	B	E	ØF	ØG	H	ØJ
Inch	MM							
1/2"	15	85	10	13	22	9	150	78
3/4"	20	90	13	13	27.5	12	165	78
1"	25	105	13	15	34	17.5	185	100
1.1/2"	40	128	13	25	48.6	29.5	239	142
2"	50	142	16	25	61.1	35	248	142

### Dimensions 150# (All Dimensions are in MM)

SIZE		A	ØC	ØD	ØM	N	PCD
Inch	MM						
1/2"	15	108	35	89	16	4	60.4
3/4"	20	118	43	98	16	4	70
1"	25	127	51	108	16	4	79
1.1/2"	40	165	73	127	16	4	98.5
2"	50	203	92	152	19	4	120.6

Sr. No.	Parts Name	Material	Qty.
01	Body	Forge Steel A105 / F304 / F316	1
02	Bonnet	Forge Steel A105 / F304 / F316	1
03	Seat Ring	AISI 304 / AISI 316 / 13% CR. S. S.	1
04	Disc	AISI 304 / AISI 316 / 13% CR. S. S.	2
05	Stem	AISI 304 / AISI 316 / 13% CR. S. S.	1
06	Gland Bush	AISI 304 / AISI 316 / 13% CR. S. S.	1
07	Gland Flange	ASTM A105 / F304 / F316	1
08	Yoke Sleeve	Al. Bronze / Ni - Resist	1
09	Bonnet Gasket	Spiral Wound S. S. 304 with CAF	1
10	Gland Packing	S. S. Metal Wire Braided Asbestos	---
11	Bonnet Stud & Nut	ASTM A193 Gr. B7	4 Set
12	Eye Bolt & Nut	ASTM A194 Gr. 2H	2 Set
13	Screw & Washer	Forged C. S.	2 Set
14	Hand Wheel	Cast Iron / C. S.	1
15	Hand Wheel Nut	Carbon Steel	1



“FOCET” make Ball valve is a form of quarter - turn valve which uses a hollow, perforated and pivoting ball to control flow through it. It is open when the balls hole in line with the flow and closed when it is pivoted 90 degree by the valve handle.

### Technical Data

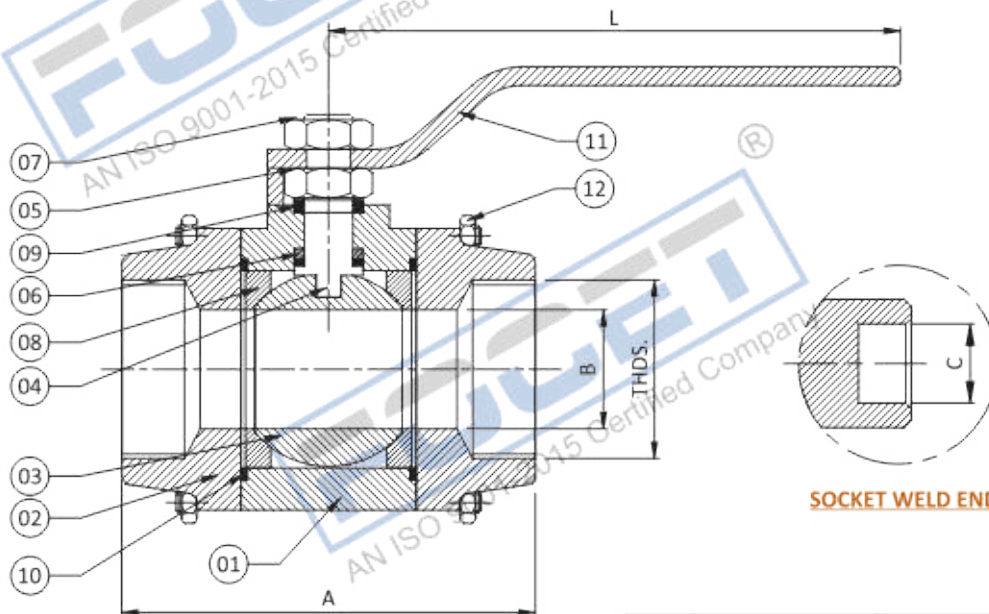
- ✓ Design & Manufacturing Std. : BS 5351 / API 602
- ✓ Testing & Inspection Std. : API 598 / BS 5146
- ✓ End Connection : BSP / BSPT / NPT
- ✓ Socket Weld Ends : ANSI B 16.11
- ✓ Face to Face Dimensions : ----



### Primary Service Rating & Test Pressure

CLASS	WORKING PRESSURE	TEMPERATURE	HYD. TEST PRESSURE	
			BODY	SEAT
800	800 PSIG	180 °C	3000 PSIG	2000 PSIG

Air Test - Seat 80 PSIG ±10 PSIG



### Dimensions 800#

SIZE		A	B	L	C	Thds. Require
Inch	MM					
1/2"	15	72	12	115	21.7	1/2"
3/4"	20	76	13.5	122	27.05	3/4"
1"	25	92	20	153	33.80	1"
1.1/2"	40	115	32	178	48.65	1.1/2"
2"	50	127	37	178	61.10	2"

(All Dimensions are in MM)

Sr. No.	Parts Name	Material	Qty.
01	Body	A-105 / F-304 / F-316	1
02	Body Connector	A-105 / F-304 / F-316	2
03	Ball	S. S. 202 / S. S. 304 / S. S. 316	1
04	Stem	S. S. 202 / S. S. 304 / S. S. 316	1
05	Gland Nut	S. S. 202 / S. S. 304 / S. S. 316	1
06	Gland Bush	PTFE	1
07	Lock Nut	S. S. 304 / S. S. 316 / M. S.	1
08	Seat Ring	PTFE	2
09	Stem Seal	PTFE	2
10	Body Sealent Ring	PTFE	2
11	Lever	M. S. / S. S.	1
12	Stud & Nut	Carbon Steel / S. S.	4

# DOUBLE WINDOW SIGHT GLASS VALVE



“FOCET” Make Double Window Sight Glass Valve are designed to provide the means of visual inspection for process operations and plant protection. The straight through windows allow the operator to view immediate flow and to monitor the colour and condition of pipeline applications.

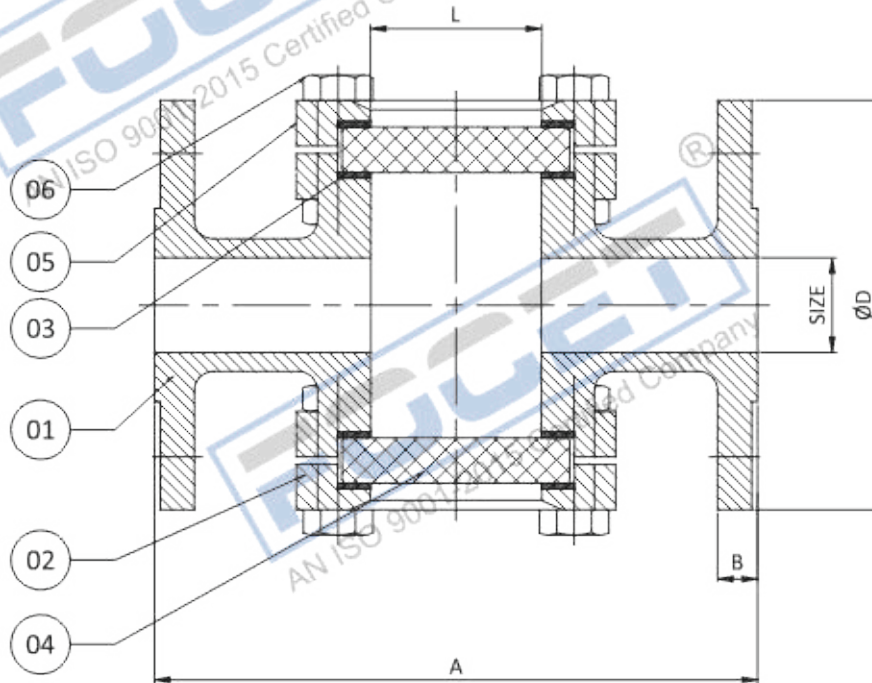
### Technical Data

- ✓ Design & Manufacturing Std. : ASME 16.34
- ✓ Testing & Inspection Std. : API 598
- ✓ End Connections : Flanged As Per ANSI B 16.5
- ✓ Socket Weld Ends : ---
- ✓ Face to Face Dimensions : As Per ANSI B 16.10

### Primary Service Rating & Test Pressure

CLASS	WORKING PRESSURE	TEMPERATURE	HYD. TEST PRESSURE	
			BODY	SEAT
150	---	180 °C	10 Kg/cm <sup>2</sup>	---

Air Test - Seat 80 PSIG ±10 PSIG



### Dimensions 150#

SIZE		A	L	ØD	B
Inch	MM				
1"	25	127	42	108	11
1.1/2"	40	165	50	127	14
2"	50	178	50	152	16
3"	80	203	87	191	19
4"	100	229	110	229	24

(All Dimensions are in MM)

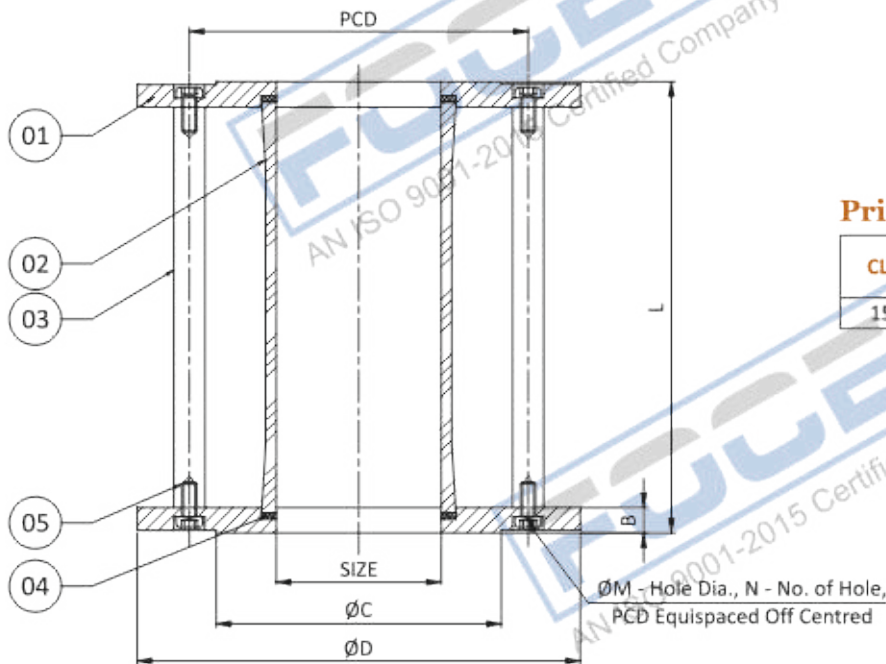
Sr. No.	Parts Name	Material	Qty.
01	Body	WCB / CF8 / CF8M	1
02	Flange Cover	WCB / CF8 / CF8M	1
03	Gasket (Body)	PTFE	4
04	Glass	Toughened Sodalime	2
05	Gasket (Cover)	PTFE / CAF	2
06	Stud & Nut	Zinc Plated Steel / S. S. 304	4



“FOCET” Make Sight Glass Valve enable operators to visually observe processes inside tanks, pipes, reactors and vessels. Sight Glass is glass tube held between two flanges, Which are secured by bolts and gaskets, or the glass tube is fused to the flange during manufacture. The glass used for this purpose is either borosilicate glass, and the metal, usually a type of stainless steel, is chosen for desired properties of strength. Borosilicate glass is superior to other formulations in terms of chemical corrosion resistance and temperature tolerance, as well as transparency.

### Technical Data

- ✓ Design & Manufacturing Std. : ---
- ✓ Testing & Inspection Std. : ---
- ✓ End Connections : ASME B 165 RF
- ✓ Socket Weld Ends : ---
- ✓ Face to Face Dimensions : Manufacturing



### Primary Service Rating & Test Pressure

CLASS	WORKING PRESSURE	TEMPERATURE	HYD. TEST PRESSURE	
			BODY	SEAT
150 #	---	200 °F	70 PSIG	---

Dimensions 150# (All Dimensions are in MM)

SIZE		ØD	ØB	ØC	L	M	N	PCD
Inch	MM							
1"	25	108	11.1	51	175	16	4	79
1.1/2"	40	127	12.7	73	178	16	4	98.5
2"	50	152.4	14.2	92	180	19	4	120.5
2.1/2"	65	178	17.5	105	183	19	4	140
3"	80	190.5	19	127	189	19	4	152.4
4"	100	228.6	24	157	193	19	8	190.5
6"	150	278	25.4	216	196	22	8	241

Sr. No.	Parts Name	Material	Qty.
01	Flange	C. S. / S. S. 304 / S. S. 316	2
02	Glass Tube	Borosilicate	1
03	Stud	M. S. / S. S. 304	---
04	Glass Packing	PTFE	2
05	L N Bolt	M. S. / S. S.	---

# DIAPHRAGM OPERATED 3 WAY CONTROL VALVE 150#



“FOCET” make 2 & 3 way control valves with pneumatic-diaphragm actuator are specially desing for on-off application it is widely used control of air, water, gas, oil, steam in textile, chemical power generation, paper pulp, petrochemical industries.

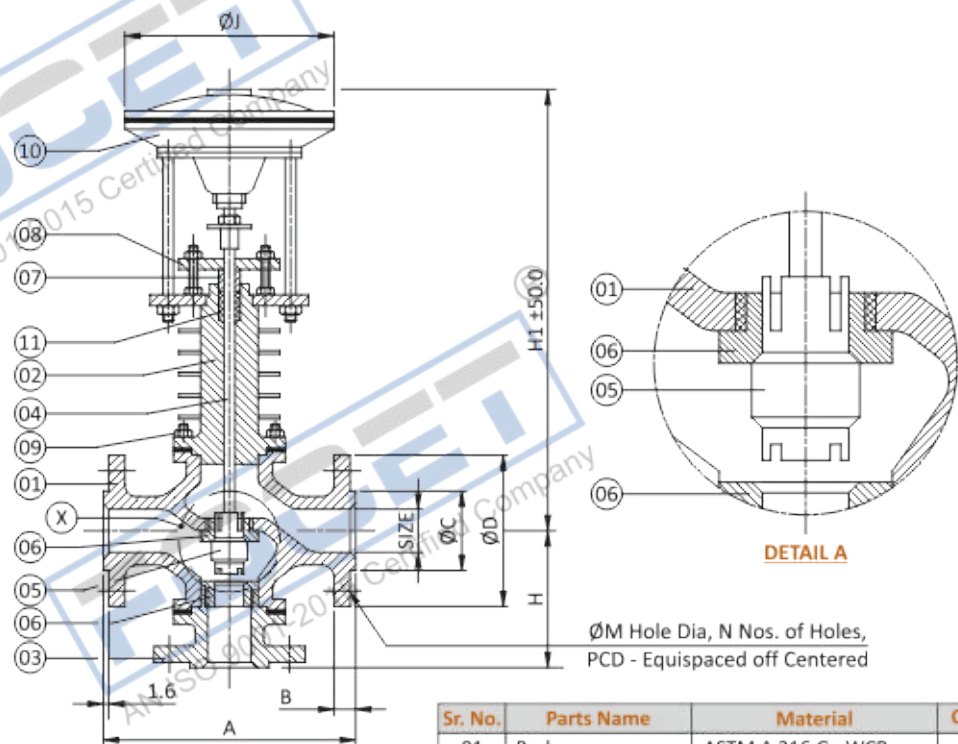
### Technical Data

- ✓ Design & Manufacturing Std. : ---
- ✓ Testing & Inspection Std. : ANSI B 16.37 / API 598
- ✓ Seat Leakage Std. : FCI - 70 - 2 / ISA - RP - 39.6
- ✓ End Connections : ANSI B 16.5

### Primary Service Rating & Test Pressure

CLASS	WORKING PRESSURE	TEMPERATURE	HYD. TEST PRESSURE	
			BODY	SEAT
150	150 PSIG	500 °F	425 PSIG	300 PSIG

Air Test - Seat 80 PSIG ±10 PSIG



### Dimensions 150#

(All Dimensions are in MM)

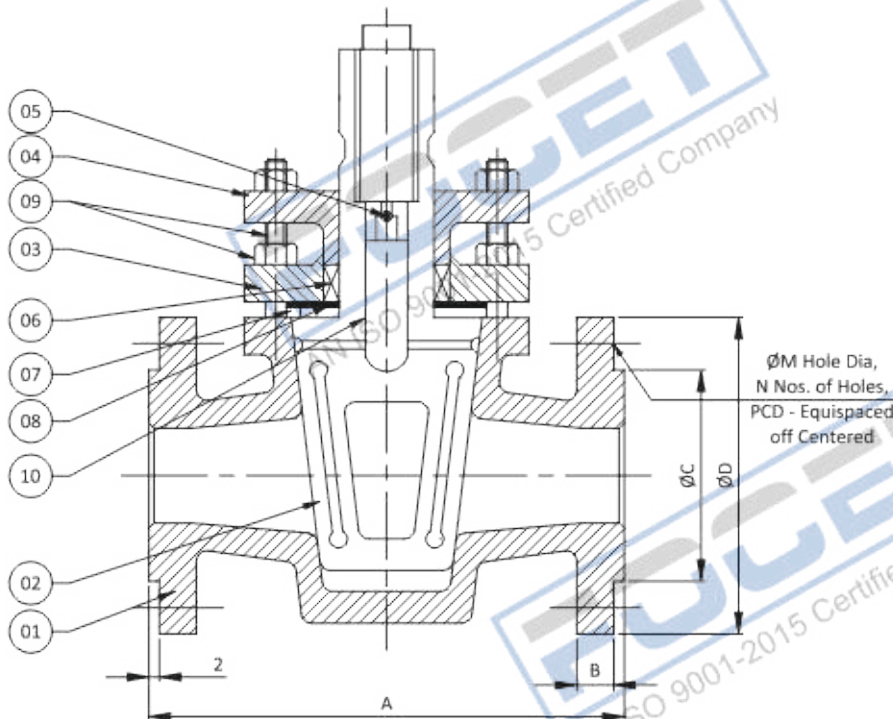
SIZE		A	B	ØC	ØD	H	H1	ØM	N	PCD	ØJ
Inch	MM										
1"	25	155	11	51	108	143	595	16	4	79	290
1.1/2"	40	205	14.2	73	127	200	595	16	4	98.5	290
2"	50	240	15.7	92	152	220	675	19	4	120.6	290
2.1/2"	65	247	17.5	105	178	250	695	19	4	139.7	290
3"	80	247	19	127	190.5	265	700	19	4	152.4	380
4"	100	325	24	157	229	290	700	19	8	190.5	525

Sr. No.	Parts Name	Material	Qty.
01	Body	ASTM A 216 Gr. WCB	1
02	Bonnet	ASTM A 216 Gr. WCB	1
03	Bonnet Flange	ASTM A 216 Gr. WCB	1
04	Stem	AISI 304 / S. S. 410	1
05	Plug	AISI 304 / S. S. 410	1
06	Seat Ring	AISI 304 / S. S. 410	2
07	Gland Bush	AISI 304 / S. S. 410	1
08	Gland Plate	M. S.	1
09	Bonnet Stud & Nut	ASTM A193 Gr. B7 ASTM A 194 Gr. 2H	---
10	Actuator	Aluminium / M. S.	1
11	Gland Packing	Metalic Wire Reinforced Graphited Asbestos	---

“FOCET” make Plug Valve are cylindrical or conically tapered “PLUGS” which can be rotated inside the valve body to control flow through the valve. The plugs in plug valves have one or more hollows passageways going sideways through the plug when the valve is open. Plug valves are simple and often economical

### Technical Data

- ✓ Design & Manufacturing Std. : ----
- ✓ Testing & Inspection Std. : BS 5146
- ✓ End Connection : As Per ANSI B 16.10
- ✓ Face to Face Dimensions : Flanged As Per ANSI B 16.5



CLASS	HYD. TEST PRESSURE	
	BODY	SEAT
150	22 Kg/cm <sup>2</sup>	16 Kg/cm <sup>2</sup>

Sr. No.	Parts Name	Material	Qty.
01	Body	C. I. / C. S. / CF8 / CF8M	1
02	Plug	C. I. / C. S. / CF8 / CF8M	1
03	Cover	C. I. / C. S. / CF8 / CF8M	1
04	Gland	C. I. / C. S. / CF8 / CF8M	1
05	Non Return Valve	M. S. / S. S.	1
06	Gland Packing	Graphited Asbestos	1
07	Body Gasket	CAF / PTFE	1
08	Diaphragm	S. S. 304 / S. S. 316 / M. S.	1
09	Body Stud & Nut	ASTM B-7 / 1 S. S.	---
10	Stem	M. S. / S. S.	1

### Dimensions 150#

(All Dimensions are in MM)

SIZE		A	B	ØC	ØD	ØM	N	PCD
Inch	MM							
1/2"	15	121	11.1	35	88	16	4	59
3/4"	20	121	12.7	43	97	16	4	70
1"	25	141	14.2	51	108	16	4	78
1.1/2"	40	165	17.5	73	124	16	4	98
2"	50	178	19	92	149	19	4	119
2.1/2"	65	190	22.3	105	173	19	4	140
3"	80	203	24	127	189	19	4	150
4"	100	229	24	157	224	19	8	190
5"	125	267	24	186	250	22	8	208
6"	150	292	25	216	276	22	8	240
8"	200	330	28.5	270	340	22	8	298

# JACKETED BALL VALVE FLANGE END (150#)



“FOCET” make JACKETED Ball Valve is for heating or cooling purpose of media in process pipelines. 2 to 3 coupling are welded on Jacket for circulating external media & procuring desired temperature in matter of size, Jacketed ball valves are manufactured with bigger size of flange than body size.

### Technical Data

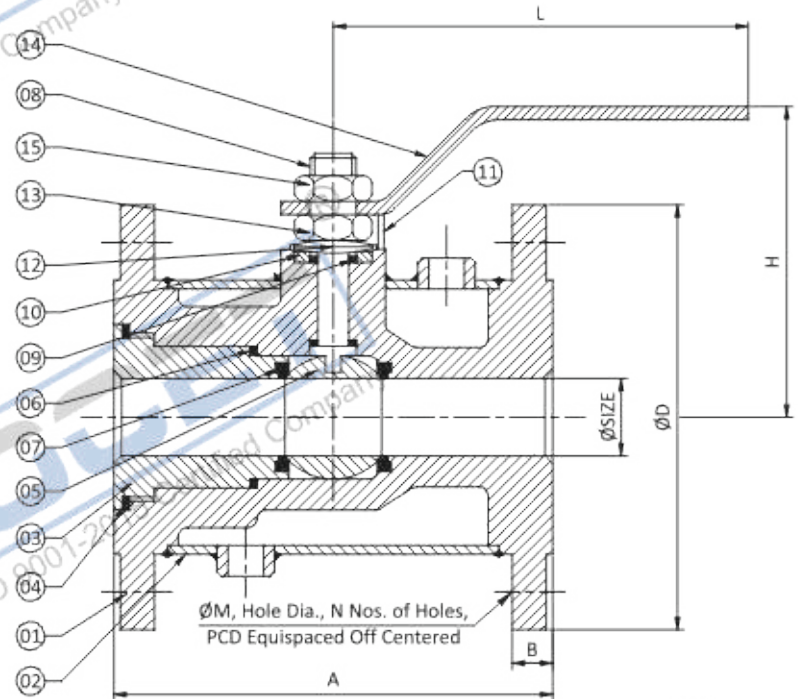
- ✓ Design & Manufacturing Std. : BS 5351
- ✓ Pneumatic Testing : BS 5145
- ✓ Face to Face Dimensions : As Per ANSI B 16.10
- ✓ Seat Air : 7 Kg/cm<sup>2</sup>
- ✓ Jacket Testing : 7 Kg/cm<sup>2</sup>
- ✓ Hydrostatic Testing : BS 6755 (1)
- ✓ Hydro Shell : 31 Kg/cm<sup>2</sup>
- ✓ Hydro Seat : 22 Kg/cm<sup>2</sup>

### Primary Service Rating & Test Pressure

CLASS	WORKING PRESSURE	TEMPERATURE	HYD. TEST PRESSURE	
			BODY	SEAT
150	150 PSIG	200 °F	425 PSIG	300 PSIG

Air Test - Seat 80 PSIG ±10 PSIG

Sr. No.	Parts Name	Material	Qty.
01	Body	ASTM A 216 Gr. WCB A 351 Gr. CF8 / AISI 304 A 351 Gr. CF8M / AISI 316	1
02	Jacket	Mild Steel / AISI 304 / AISI 316	1
03	Body Nut	ASTM A 216 Gr. WCB A 351 Gr. CF8 / AISI 304 A 351 Gr. CF8M / AISI 316	1
04	Body Seal	PTFE or Filled PTFE	1
05	Ball	AISI 304 / AISI 316	1
06	Seal	PTFE or Filled PTFE	1
07	Seat Seal	Glass Filled Teflon	2
08	Stem	AISI 304 / AISI 316	1
09	Gland Packing	PTFE or Filled PTFE	2
10	Gland	AISI 304 / AISI 316	1
11	Stopper Pin	Steel	1
12	Billville Spring	Steel	1
13	Gland Nut	AISI 304 / AISI 316	1
14	Lever	Carbon Steel / AISI 304	1
15	Lock Nut	Steel (Plated) / AISI 304	1



Dimensions 150#

(All Dimensions are in MM)

SIZE		A	B	ØC	ØD	ØM	N	PCD
Inch	MM							
1" X 1.1/2"	25 X 40	127	14.3	73	127	15.8	4	98.5
1.1/2" X 2"	40 X 50	165	15.8	92.1	152.4	19	4	120.6
2" X 2.1/2"	50 X 65	178	17.7	107.7	177.8	19	4	139.7
2" X 3"	50 X 80	178	19	127	190.5	19	4	152.4
2.1/2" X 3"	65 X 80	190	19	127	190.5	19	4	152.4
3" X 4"	80 X 100	203	23	157.2	228.6	19	8	190.5
4" X 6"	100 X 150	229	25.4	215.9	279	22	8	241.3



### 1PC/3PC BALL VALVE



MOC : CF8(304)/CF8M(316)/CI  
 DESIGN : 1PC,3PC  
 END : SCREWED END BSP, NPT  
 SIZE : 8 MM TO 100 MM

### NEEDLE VALVE



MOC : SS202/SS304/SS316  
 END : SCREWED END BSP,NPT  
 SIZE : 6 MM TO 50 MM

### DIAPHRAGM VALVE



MOC : CAST IRON  
 LINNING: EBONITE  
 END : FLANGED END  
 BS10/150#  
 SIZE : 15 MM TO 300 MM

### 2/2 ANGLE TYPE CONTROL VALVE



MOC : IC CF8(304)/IC CF8M(316)  
 SEAT : PTFE  
 ACT. TYPE : SINGLE ACTING  
 NORMALLY CLOSED  
 END : SCREWED END BSP,  
 TC END, FLANGED END  
 SIZE : 15 MM TO 50 MM

### PINCH VALVE



MOC : CI/ALUMINIUM  
 DESIGN : CLOSE BODY  
 SLEEV : NBR,NEOPRENE  
 SIZE : 25 MM TO 200 MM

### CYLINDER OPERATED CONTROL VALVE



MOC : ASTM A216 GR WCB  
 TYPE : 2/2 & 3/3 WAY  
 TRIMS : SS 410  
 END : FLANGED END ASA 150#  
 SIZE : 25 MM TO 150 MM

### FLUSH BOTTOM BALL VALVE



MOC : CF8(304)/CF8M(316)  
 SEAT : PTFE  
 END : FLANGED END  
 SIZE : 25x25MM TO 150x150MM

### "T" TYPE STRAINER



MOC : IC CF8(304) /  
 IC CF8M(316) / WCB  
 SCREEN : SS 304 / SS 316  
 END : FLANGED END ASA 150#  
 SIZE : 25 MM TO 200 MM

### FLUSH BOTTOM TANK VALVE



MOC : CF8(304)/CF8M(316)  
 TYPE : OPENING IN TANK  
 END : FLANGED END  
 SIZE : 25x25MM TO 150x150MM

### METTALIC FOOT VALVE



MOC : CAST IRON  
 TRIMS : GUN METAL  
 SCREEN : SS  
 END : FLANGED END  
 BS10 TABLE D  
 SIZE : 50 MM TO 350 MM

TECHNICAL NAME OF MATERIALS



CHEMICAL AND PHYSICAL PROPERTIES OF MATERIALS

METAL GENERAL NAME	TECHNICAL NAME			
	ASTM CAST SPECIFICATION	ASTM FORGE SPECIFICATION	DIN MATERIAL DESIGNATION	DIN NUMERICAL DESIGNATION
CS (CAST STEEL)	ASTM A 216 Gr. WCB	ASTM A 105	C22.8 DIN 17243	1.046
LCB	ASTM A 352 Gr. WCB	ASTM A 350 Lf2	TSTE 355 DIN 18103	1.0566
Wc6	ASTM A 217 Gr. Wc6	ASTM A 182 F11	13Cr Mo44	1.7335
Wc9	ASTM A 217 Gr. Wc9	ASTM A 182 F22	10 CrMo910	1.738
C5	ASTM A 217 Gr. C5	ASTM A 182 F5a	12Cr. Mo 195	1.7362
C12	ASTM A 217 Gr. C12	ASTM A 182 F9	X 12 Cr.Mo 9 1	1.7386
SS 304	ASTM A 351 Gr. Cf8	ASTM A 182 F304	DIN X5CrNi 18 9	1.4301
SS 304 L	ASTM A 351 Gr. Cf3	ASTM A 182 F 304L	X 2 CrNi 19 11	1.4306
SS 316	ASTM A 351 Gr. CF8M	ASTM A 182 F 316	DIN X5CrNiMo 18 10	1.4401
SS 316 L	ASTM A 351 Gr. CF3M	ASTM A 182 F 316L	X 5 CrNiMo 17 22 2	1.4404
SS 316 TI		ASTM A 182 F 316Ti	X 6 CrNiMoTi 17 22 2	1.4571
SS 321		ASTM A 182 F 321	X 6 CrNiTi 18 10	1.4571
ALLOY 20	ASTM A 351 Gr. CN7M	ASTM A 182 F 20	DIN 1.4500	2.466
DUPLEX 2205	ASTM A 351 CD3MN	ASTM A 182 F 51	X 2 CrNiMoN 22 5 3	1.4462
SUPER DUPLEX 2507	ASTM A 351 Gr. CD4MCu	ASTM A 182 F 53	X 2 CrNiMoN 27 7 4	1.4501
INCONEL 600	ASTM A494 Cy40	B564 N06600	DIN 17742	2.4816
INCONEL 625	ASTM A 494 CW 6MC	B564 N06625		2.4856
HASTELLOY C - 276	ASTM A 494 CW 2M	B564 N10276	NiMo 16 Cr 15 W	2.4819

Pressure Conversion Table

Unit	Kg. / Cm2	PSI	BAR	MPA	Pa (N/M2)	mmHg	Torr
1 Kg/cm2	1	14.22	0.98	0.098	98000	735	735
1 PSI	0.07	1	0.068	0.0068	6896	51	51
1 BAR	1.019	15.5	1	0.1	100000	750	750
1 MPA	10.19	145	10	1	1	7500	7500
1 Pa	101*10 <sup>-7</sup>	145*10 <sup>-6</sup>	1*10 <sup>-4</sup>	1*10 <sup>-6</sup>	133.322	0.0075	0.0075
1 MMHg	13.59*10 <sup>-4</sup>	19.6*10 <sup>-3</sup>	13.33*10 <sup>-5</sup>	13.33*10 <sup>-5</sup>	133.322	1	1
1 Torr	13.59*10 <sup>-4</sup>	19.6*10 <sup>-3</sup>	13.33*10 <sup>-5</sup>	13.33*10 <sup>-5</sup>		1	1



# FLANGES, TABLE STANDARD COMMON FOR BALL / GATE / GLOBE / CHECK VALVES, STRAINER ETC..

Nominal Bore Size (mm)	Various Flange Standards	Face to Face Globe Valve	Face to Face Ball & Gate Valve	O. D.	PCD	R. F. DLA	Thickness	Bolt Hole Dia	Nos. Of Holes
15	ASA-150	108	108	89	60.5	35	10	16	4
	ND-10,16,40	130	130	95	65	45	16	14	4
	BS TABLE - D, E	----	108	95.3	66.7	----	9.5	12.7	4
	BS TABLE - F	----	108	95.3	66.7	----	9.5	12.7	4
20	ASA-150	117.5	117	98	69.5	43	10.5	16	4
	ND-10,16,40	150	150	105	75	58	18	14	4
	BS TABLE - D, E	----	117	101.6	73	----	9.5	12.7	4
	BS TABLE - F	----	117	101.6	73	----	9.5	12.7	4
25	ASA-150	127	127	108	79.2	51	11.2	16	4
	ND-10,16,40	160	160	115	85	68	18	14	4
	BS TABLE - D, E	----	127	114.3	82.6	----	9.5	12.7	4
	BS TABLE - F	----	127	120	87.3	----	9.5	15.9	4
32	ASA-150	----	140	133	89	64	13	19	4
	ND-10,16,40	180	180	140	110	78	18	18	4
	BS TABLE - D, E	----	140	120.7	87.3	----	12.7	15.9	4
	BS TABLE - F	----	140	133	98.4	----	12.7	15.9	4
40	ASA-150	165	165	127	98.4	73	14.3	16	4
	ND-10,16,40	200	200	150	110	88	18	18	4
	BS TABLE - D, E	----	165	133.4	98.4	----	12.7	12.7	4
	BS TABLE - F	----	165	140	104.8	----	12.7	15.9	4
50	ASA-150	203	178	152.4	120.6	92	14.3	19	4
	ND-10,16,40	230	230	165	125	102	18	18	4
	BS TABLE - D, E	----	178	152.4	114.3	----	12.7	15.9	4
	BS TABLE - F	----	178	165	127	----	12.7	15.9	4
65	ASA-150	216	190	178	139.7	105	15.9	19	4
	ND-10,16,40	290	290	185	145	122	20	18	4
	BS TABLE - D, E	----	190	165	127	----	14.3	15.9	4
	BS TABLE - F	----	190	185	146	----	15.9	15.9	8
80	ASA-150	241	203	190.5	152.4	127	17.5	19	4
	ND-10,16,40	310	310	200	160	138	18,18,22	18	4,8
	BS TABLE - D, E	----	203	184	146.3	----	14.3	15.9	8
	BS TABLE - F	----	203	165	157	----	15.9	15.9	8
100	ASA-150	292	229	228.6	190.5	157	19.1	19	8
	ND-10,16,40	350	350	220	180	158	20,20,24	18,18,22	8
	BS TABLE - D, E	----	229	216	177.8	----	14.3	15.9	4,8
	BS TABLE - F	----	229	230	190.5	----	15.9	15.9	8
125	ASA-150	365	254	254	215.9	186	23.9	22.2	8
	ND-10,16,40	400	400	250	220	188	20,20,24	18,18,26	8
	BS TABLE - D, E	----	254	254	209	----	17.5	15.9	8
	BS TABLE - F	----	254	279.4	235	----	19	19.1	8
150	ASA-150	406	267	279.4	241.3	216	23.9	22.2	8
	ND-10,16,40	480	450	285	240	212	26,26,30	22,22,26	8
	BS TABLE - D, E	----	267	279	228.6	----	17.5	15.9,19	8
	BS TABLE - F	----	267	305	260	----	22	19.1	12
200	ASA-150	495	292	343	298.5	270	28.6	22.2	8
	ND-10,16,40	600	550	340,375	298	268	28,28,32	22,22,30	8,12
	BS TABLE - D, E	----	292	337	292	----	19	19,22.2	8
	BS TABLE - F	----	292	368	324	----	25.4	19.1	12
250	ASA-150	622	330	404.4	362	324	30.2	25.4	12
	ND-10,16,40	730	----	395,405,450	350,355,385	320,320,345	32,32,36	22,26,33	12
	BS TABLE - D, E	----	330	406	355.6	----	21	19.1	8,12
	BS TABLE - F	----	330	431.8	381	----	25.4	22.2	12
300	ASA-150	698.5	356	482.6	431.8	381	31.8	25.4	12
	ND-10,16,40	850	----	445,460,515	400,410,450	370,378,410	32,32,36	22,26,33	12,16
	BS TABLE - D, E	----	356	457	406.4	----	21	22.2	12
	BS TABLE - F	----	356	489	438	----	28.6	22.2	16



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