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Solution !*

Address : - B/8. MADHURAM ESTATE, KATHWADA G.I.D.C., AHMEDABAD.  
Contact :- +91 99041 52222 / 97234 77790  
E-Mail : - sales@mescovalves.com / marketing@mescovalves.com  
Website : -www.mescovalves.com

# BALL VALVES

BOLTED SIDE PIECE CAST CARBON , STAINLESS OR ALLOY STEEL

SIZE:- 2" -12", ASME CLASS:- 150# - 600#



## STANDARD MATERIALS :

PART	MATERIAL		
	BODY & SIDE PIECE	WCB	CF8
BALL	WCB + ENP / CF8 / CF8M	CF8 / CF8M	CF8M
STEM	SS 410 / 17-4 PH / SS 304 / SS 316	SS 304	SS316
SEAT SEAL	PTFE / CFT / GFT / VITON		
GASKET	PTFE / CFT / GFT / VITON / SPIRAL WOUND		
PACKING FLANGED	PTFE / CFT / GFT / VITON / SPIRAL WOUND		
TRUNNION MOC	AISI 410 / SS 304 / SS 316	SS 304 / SS 316	SS 316
BODY/SIDE PIECE NUT	GR. 2H	GR. 8	GR. 8M
BODY/SIDE PIECE STUD	GR. B7	GR. B8	B8M
LEVER	SS		
NAME PLATE	STAINLESS STEEL / ALLUMINIUM		

## DESIGN FEATURES :

2 & 3-Piece, Side Entry / Split Body, Fire Safe, Anti-static & Blow-out Proof Stem, Floating & Trunnion type Ball design.

Ball:- Full bore or reduced bore.

End Connection:- A choice of Flat flanged, RF flanged, RTJ & Butt Welding end fas per piping flexibility.

Operation:- Lever upto 6" Size & Gear for above size

Packing:- Std packing multiple V-teflon packing. combined with live loading, maintains packing compression under high-cycle and severe service applications. Graphite packing is used for high-temperature situation.

## DESIGN SPECIFICATIONS

ITEM	APPLICABLE STD.
Design Standard	API 6D / BS 5351
Fire Safe Standard	API 607 / API 6FA
Pressure-temperature rating	ASME B16.34
Face-to-face dimensions	ASME B16.10
Testing Standard	API 598 / BS 6755
Flange design	ASME B16.5
Butt welding design	ASME B16.25
Materials	ASTM

## BALL VALVE DIMENSIONS

SIZE	ASME CLASS 300						
DN	F TO F	FLANGE DIA	RFD	THK	PCD	HOLE DIA	NO OF HOLE
15	108	90	35	9.6	60.30	15.90	4
20	117	100	43	11.2	69.90	15.90	4
25	127	110	51	12.7	79.40	15.90	4
32	140	115	64	14.3	88.90	15.90	4
40	165	125	73	15.9	98.40	15.90	4
50	178	150	92	17.5	120.70	19.05	4
65	190	180	105	20.7	139.70	19.05	4
80	203	190	127	22.3	152.40	19.05	4
100	229	230	157	22.3	190.50	19.05	8
150	267	280	216	23.9	241.30	22.22	8
200	292	345	270	27.0	298.50	22.22	8
250	330	405	324	28.6	362.00	25.4	12
300	356	485	381	30.2	431.80	25.4	12

SIZE	ASME CLASS 300							ASME CLASS 600						
DN	F TO F	FLANGE DIA	RFD	THK	PCD	HOLE DIA	NO OF HOLE	F TO F	FLANGE DIA	RFD	THK	PCD	HOLE DIA	NO OF HOLE
15	140	95	35	12.7	66.70	15.90	4	165	95	35	14.3	66.70	15.90	4
20	152	115	43	14.3	82.60	19.05	4	190	115	43	15.9	82.60	19.05	4
25	165	125	51	15.9	88.90	19.05	4	216	125	51	17.5	88.90	19.05	4
32	178	135	64	17.5	98.40	19.05	4	229	135	64	20.7	98.40	19.05	4
40	190	155	73	19.1	114.30	22.22	4	241	155	73	22.3	114.30	22.22	4
50	216	165	92	20.7	127.00	19.05	8	292	165	92	25.4	127.00	19.05	8
65	241	190	105	23.9	149.20	22.22	8	330	190	105	28.6	149.20	22.22	8
80	282	210	127	27.0	168.30	22.22	8	356	210	127	31.8	168.30	22.22	8
100	305	255	157	30.2	200.00	22.22	8	432	275	157	38.1	215.90	25.40	8
150	403	320	216	35.0	269.90	22.22	12	559	355	216	47.7	292.10	28.57	12
200	502	380	270	39.7	330.20	25.40	12	660	420	270	55.6	349.20	31.75	12
250	568	445	324	46.1	387.40	28.57	12	787	510	324	63.5	431.80	34.92	16
300	648	520	381	49.3	450.80	31.75	12	838	560	381	66.7	489.00	34.92	20

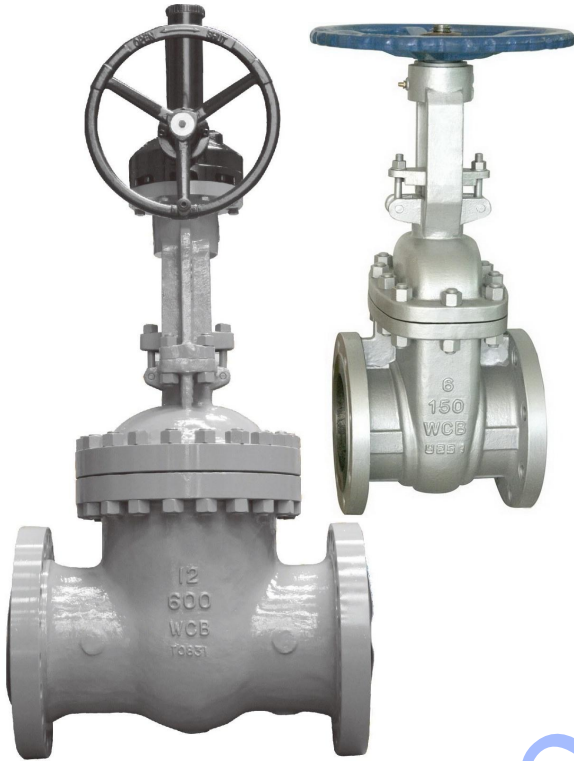
# GATE VALVES

## BOLTED BONNET CAST CARBON , STAINLESS OR ALLOY STEEL

SIZE:- 2" -24", ASME CLASS:- 150# - 600#

### STANDARD MATERIALS :

PART	MATERIAL		
BODY	WCB	CF8	CF8M
BONNET	WCB	CF8	CF8M
STEM	SS 410	SS 304	SS316
WEDGE	CA15 OR 13CR FACED	CF8	CF8M
SEAT	13% CR. OR STL.	COCR ALLOY FACED	COCR ALLOY FACED
PACKING FLANGED	CARBON STEEL	STAINLESS STEEL	STAINLESS STEEL
GLAND BUSHING	CARBON STEEL	STAINLESS STEEL	STAINLESS STEEL
PACKING RING	GRAPHITE		
GLAND STUD	GR. B7	GR. B8	B8M
GLAND NUT	GR. 2H	GR. 8	GR. 8M
BODY/BONNET NUT	GR. 2H	GR. 8	GR. 8M
BODY/BONNET STUD	GR. B7	GR. B8	B8M
BACK SEAT	SS 410	SS 304	SS 316
GASKET	CLASS 150 : CORRUGATED STEEL/GRAPHITE CLASS 300-1500 : SPIRAL WOUND STAINLESS STEEL/GRAPHITE		
KEY	CARBON STEEL		
YOKE BUSHING	CARBON STEEL	STAINLESS STEEL	STAINLESS STEEL
HANDWHEEL NUT	MALLEABLE IRON OR STEEL		
HANDWHEEL	MALLEABLE IRON OR DUCTILE IRON		
NAME PLATE	STAINLESS STEEL		
STEM NUT	A 439 AUSTENITIC DUCTILE IRON GR.D-2C		



### DESIGN FEATURES :

Trims:- 13% Cr Stem, Wedge in CA 15 or 13 Cr faced, and CoCr alloy Faced Seat API Trip 8 Suitable for Applications up to 850 F (454 C).

Flexible wedge with center stem-wedge contact in solid CA15 (13Cr) or Handfaced with 13 Cr, SS 316 Monel or CoCr alloy. Wedge is Ground and Lapped to a Mirror finish and Tightly Guided to prevent Dragging and seat Damage.

Non-Rotating stem with precision acme Threads and Burnished finish. Double Acme For Faster Operation

Body and Bonnet Joint accurately Machined.  
Spiral Wound with Different Grade of Material.

Body and Bonnet casting are precision Machined. one-piece bonnet up to NPS 12 (DN 300) for better alignment and fewer parts

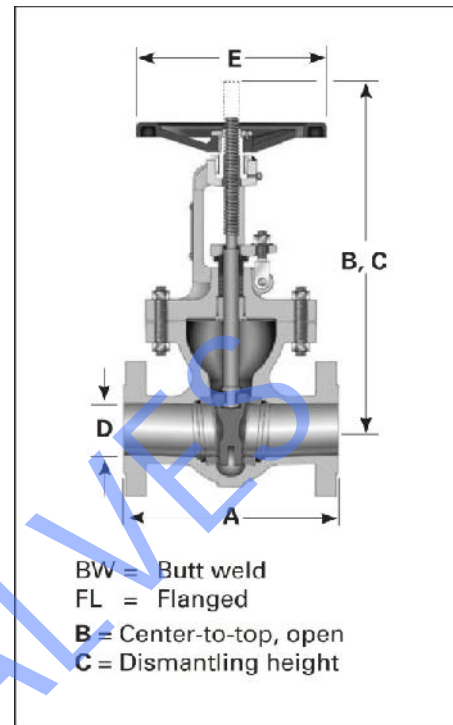
Flanges : Finish 125-250 AARH for all Valves.  
ASME Classes 150-300 : 2 mm raised face  
ASME Classes 600-up : 7 mm Raised faced

RTJ available on client requirement

Rotating stem nut is austenitic Ductile iron Gr.D-2C renewable in line.

# DESIGN SPECIFICATIONS

ITEM	APPLICABLE STD.
Wall thickness and general design ≤ NPS 24	API 600, ISO 10434
Wall thickness and general design > NPS 24	ASME B16.34
Pressure-temperature rating	ASME B16.34
Face-to-face dimensions for butt weld and flanged valves	ASME B16.10
Testing Standard	API 598
Flange design	ASME B16.5
Butt welding design	ASME B16.25
Materials	ASTM



## GATE VALVE DIMENSIONS

SIZE	ASME CLASS 150					ASME CLASS 300					ASME CLASS 600				
	DN	A	B	C	D	E	A	B	C	D	E	A	B	C	D
50	178	397	518	51	203	216	397	518	51	203	292	398	521	51	203
65	191	429	562	64	203	241	430	564	64	203	330	472	614	64	254
80	203	471	616	76	254	283	514	670	76	254	356	549	706	76	254
100	229	565	719	102	254	305	607	786	102	254	432	654	832	102	356
150	267	792	965	152	356	403	821	1026	152	356	559	922	1122	152	508
200	292	970	1172	203	457	419	1040	1274	203	457	660	1110	1353	200	610
250	330	1198	1430	254	508	457	1249	1521	254	508	787	1246	1521	248	762
300	356	1420	1695	305	508	502	1499	1763	305	508	838	1553	1848	298	762
350	381	1562	1918	337	610	762	1559	1975	337	610	889	1842	2121	327	-
400	406	1746	2159	387	610	838	1746	2172	387	762	991	2089	2311	375	-
450	432	1861	2286	438	610	914	1978	2388	432	-	1092	2211	2946	419	-
500	457	2108	2540	489	762	991	2197	2540	483	-	1194	2616	3124	464	-
600	508	2464	2921	591	762	1143	2572	3175	584	-	1397	2921	3353	559	-

# GLOBE VALVES

## BOLTED BONNET CAST CARBON , STAINLESS OR ALLOY STEEL

SIZE:- 2" -24", ASME CLASS:- 150# - 600#



### STANDARD MATERIALS :

PART	MATERIAL		
BODY	WCB	CF8	CF8M
BONNET	WCB	CF8	CF8M
STEM	SS 410	SS 304	SS316
PLUG	CA15 OR 13CR FACED	CF8	CF8M
SEAT	13% CR. OR STL.	COCR ALLOY FACED	COCR ALLOY FACED
PACKING FLANGED	CARBON STEEL	STAINLESS STEEL	STAINLESS STEEL
GLAND BUSHING	CARBON STEEL	STAINLESS STEEL	STAINLESS STEEL
PACKING RING	GRAPHITE		
GLAND STUD	GR. B7	GR. B8	B8M
GLAND NUT	GR. 2H	GR. 8	GR. 8M
BODY/BONNET NUT	GR. 2H	GR. 8	GR. 8M
BODY/BONNET STUD	GR. B7	GR. B8	B8M
BACK SEAT	SS 410	SS 304	SS 316
GASKET	CLASS 150 : CORRUGATED STEEL/GRAPHITE CLASS 300-1500 : SPIRAL WOUND STAINLESS STEEL/GRAPHITE		
HINGE PIN	AISI 410	SS 304	SS 316
YOKE BUSHING	CARBON STEEL	STAINLESS STEEL	STAINLESS STEEL
STEM NUT	A 439 AUSTENITIC DUCTILE IRON GR.D-2C		
HANDWHEEL NUT	MALLEABLE IRON OR STEEL		
HANDWHEEL	MALLEABLE IRON OR DUCTILE IRON		
NAME PLATE	STAINLESS STEEL		

### DESIGN FEATURES :

Trims:- 13% Cr Stem, 13 Cr faced Plug and CoCr alloy faced Seat  
API Trip 8 Suitable for Applications up to 850° F (454° C).

Tapered Disc accurately mates the hardfaced surface of the disc with the surface of the seat, Hardfaced with 13% Cr., CoCr alloy, SS 316 or Monel, Ground and lapped with seat.

Non-Rotating stem with precision acme Threads and Burnished finish. Double Acme For Faster Operation

Body and Bonnet Joint accurately Machined.  
Spiral Wound with Different Grade of Material.

Body and Bonnet casting are precision Machined. one-piece bonnet for better alignment and fewer parts.

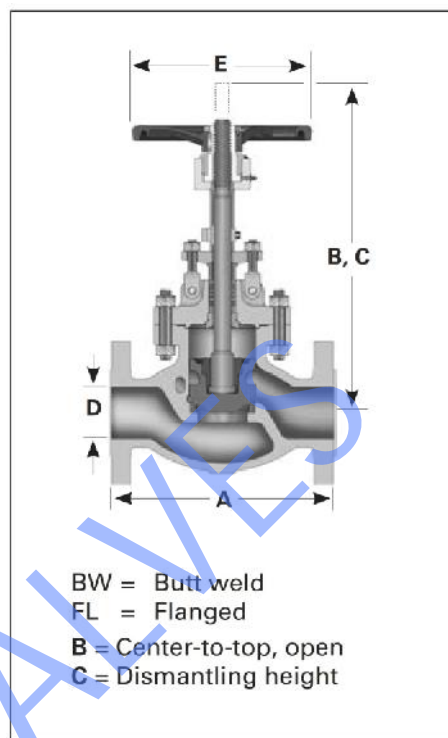
Flanges : Finish 125-250 AARH for all Valves.  
ASME Classes 150-300 : 2 mm raised face  
ASME Classes 600-up : 7 mm Raised faced

RTJ available on client requirement

Rotating stem nut is austenitic Ductile iron Gr.D-2C renewable in line.

# DESIGN SPECIFICATIONS

ITEM	APPLICABLE STD.
Wall thickness and general design $\leq$ NPS 24	API 600, BS 1873
Wall thickness and general design $>$ NPS 24	ASME B16.34
Pressure-temperature rating	ASME B16.34
Face-to-face dimensions for butt weld and flanged valves	ASME B16.10
Testing Standard	API 598
Flange design	ASME B16.5
Butt welding design	ASME B16.25
Materials	ASTM



# GLOBE VALVE DIMENSIONS

SIZE	ASME CLASS 150					ASME CLASS 300					ASME CLASS 600				
	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
50	203	428	530	51	203.2	267	428	530	51	203	292	434	537	51	254
65	216	434	540	64	254	292	434	540	64	254	330	474	581	64	254
80	241	468	578	76	254	318	468	578	76	254	356	513	613	76	356
100	292	530	665	102	356	356	530	665	102	356	432	607	743	102	610
150	406	654	813	152	610	445	670	835	152	610	559	793	962	152	610
200	495	780	975	203	610	559	813	988	203	610	660	1060	1470	200	-
250	622	997	1187	254	610	622	1075	1325	254	610	787	1198	1499	248	-
300	699	1080	1346	305	610	711	1173	1594	305	-	-	-	-	-	-
350	787	1377	1662	337	-	838	1377	1829	337	-	-	-	-	-	-
400	914	1522	1845	387	-	863	1522	1930	387	-	-	-	-	-	-
450	978	1514	1905	444	-	978	1514	1905	444	-	-	-	-	-	-
600	1295	2159	3023	533	-	1397	2159	3023	533	-	-	-	-	-	-

# SWING CHECK VALVE

BOLTED COVER CAST CARBON , STAINLESS OR ALLOY STEEL

SIZE:- 2" -24", ASME CLASS:- 150# - 600#



## STANDARD MATERIALS :

PART	MATERIAL		
BODY	WCB	CF8	CF8M
COVER	WCB	CF8	CF8M
HINGE PIN	SS 410	SS 304	SS316
DISC	CA15 OR 13CR FACED WCB	CF8	CF8M
SEAT	13% CR. OR STL. FACED	CoCr ALLOY FACED CF8	CoCr ALLOY FACED CF8M
GASKET	CLASS 150 : CORRUGATED STEEL/GRAPHITE CLASS 300-1500 : SPIRAL WOUND STAINLESS STEEL/GRAPHITE		
BODY/COVER NUT	GR. 2H	GR. 8	GR. 8M
BODY/COVER STUD	GR. B7	GR. B8	B8M
NAME PLATE	STAINLESS STEEL		

## DESIGN FEATURES

Trims:- 13% Cr Hinge Pine, 13 Cr faced Disc and CoCr alloy faced Seat API Trip 8 Suitable for Applications up to 850° F (454° C).

Disc Assembly:- Non-rotating disc is fastened securely to disc hanger with a lock nut and cotter pin. Disc hanger is supported on a sturdy disc carrier hinge pin of excellent bearing qualities. All parts accessible from the top for easy servicing.

Disc:- One piece Construction to withstand the severe shock of check valve service. Hardfaced with 13% Cr., CoCr alloy, SS 316 or Monel, Ground and lapped with seat.

Body and Bonnet Joint accurately Machined.  
Spiral Wound with Different Grade of Material.

Body and Cover casting are precision Machined.

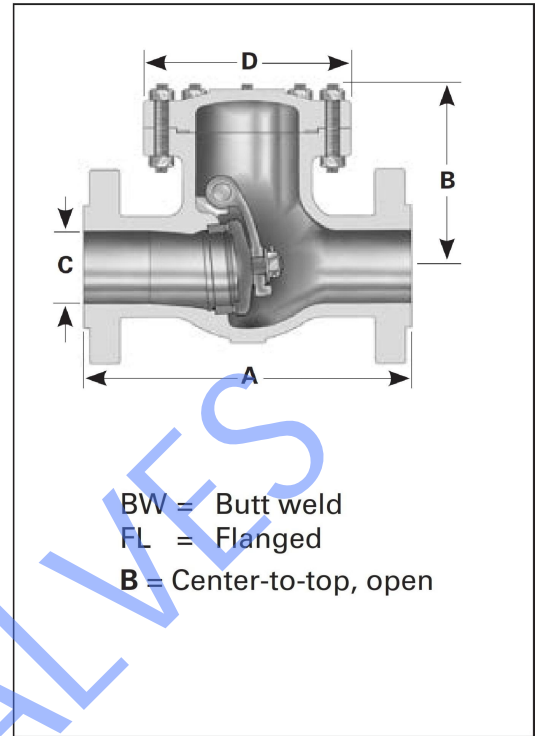
Flanges : Finish 125-250 AARH for all Valves.  
ASME Classes 150-300 : 2 mm raised face  
ASME Classes 600-up : 7 mm Raised faced

RTJ available on client requirement



# DESIGN SPECIFICATIONS

ITEM	APPLICABLE STD.
Wall thickness and general design $\leq$ NPS 24	API 600, BS 1873
Wall thickness and general design $>$ NPS 24	ASME B16.34
Pressure-temperature rating	ASME B16.34
Face-to-face dimensions for butt weld and flanged valves	ASME B16.10
Testing Standard	API 598
Flange design	ASME B16.5
Butt welding design	ASME B16.25
Materials	ASTM



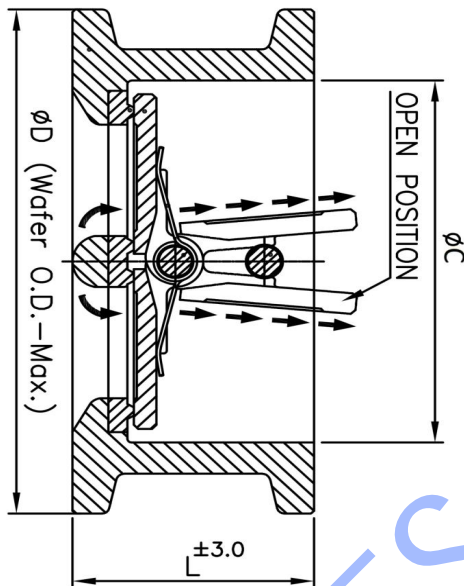
## CHECK VALVE DIMENSIONS

SIZE	ASME CLASS 150				ASME CLASS 300				ASME CLASS 600			
	A	B	C	D	A	B	C	D	A	B	C	D
50	203	146	51	171	267	152	51	171	292	159	51	171
65	216	159	64	171	292	159	64	171	330	165	64	191
80	241	197	76	216	318	197	76	216	356	222	76	248
100	292	222	102	260	356	222	102	260	432	235	102	305
150	365	273	152	318	445	273	152	318	559	292	152	400
200	495	324	203	400	533	324	203	400	660	343	200	400
250	622	394	254	470	622	413	254	470	787	425	248	495
300	699	432	305	521	711	432	305	521	838	470	298	572
350	787	499	337	584	838	499	337	584	889	532	327	667
400	864	559	387	673	864	572	387	673	991	594	375	718
450	978	635	435	724	978	635	435	724	1092	728	419	800
500	978	673	483	800	1016	673	483	800	1194	689	464	895
600	1295	794	591	940	1346	794	591	940	1397	907	559	1022

# DUAL PLATE CHECK VALVE

CAST CARBON , STAINLESS OR ALLOY STEEL

SIZE:- 2" -24", ASME CLASS:- 150# - 600#



## DESIGN SPECIFICATION :

ITEM	APPLICABLE STD.
Design standard	API 594
Wall thickness and general design	ASME B16.34
Pressure-temperature rating	ASME B16.34
Testing Standard	API 598
Fire Safe Design	API 609
Flange design	ASME B16.5
Materials	ASTM

## DESIGN FEATURES :

Retainerless design is supplied as standard

API 594 Face-to-face dimension

To suit ANSI B16.5 flanges, NPS 2-24 (DN 50-60)

## STANDARD MATERIALS :

PART	MATERIAL		
BODY	WCB	CF8	CF8M
CLOSURE PLATE	WCB / SS 304 / SS 316	CF8	CF8M
SEAT RING	PTFE / METAL TO METAL	PTFE / METAL TO METAL	PTFE / METAL
SPRING	SS 202 / SS 304 / SS 316	SS 304 / SS 316	SS 316
HINGE PIN	AISI 410 / SS 304 / SZS 316	SS 304 / SS 316	SS 316

## DCV DIMENSIONS :

SIZE	ASME CLASS 150			ASME CLASS 300			ASME CLASS 600		
	L	$\phi C$	$\phi D$	L	$\phi C$	$\phi D$	L	$\phi C$	$\phi D$
50	60	60	101	60	60	107	60	60	107
65	67	73	120	67	73	127	67	73	127
80	73	89	133	73	89	145	73	89	145
100	73	114	171	73	114	177	79	114	190
125	86	141	193	86	141	212	105	141	238
150	98	168	218	98	168	247	137	168	263
200	127	219	276	127	219	304	165	219	317
250	146	273	336	146	273	358	213	273	396
300	181	324	406	181	324	419	229	324	453
350	184	356	447	222	356	482	273	356	488
400	191	406	511	232	406	536	305	406	562
450	203	457	546	264	457	593	362	457	609
500	219	508	603	292	508	650	368	508	679
600	222	610	714	318	610	771	-	-	-

# SINGLE PLATE CHECK VALVE



## Product Specification

Single plate check valve DN32-600  
 Working pressure PN10/16  
 Maximum temperature -10° C to +80°C  
 Suitable for water, Sewage and Natural liquid

## Standards

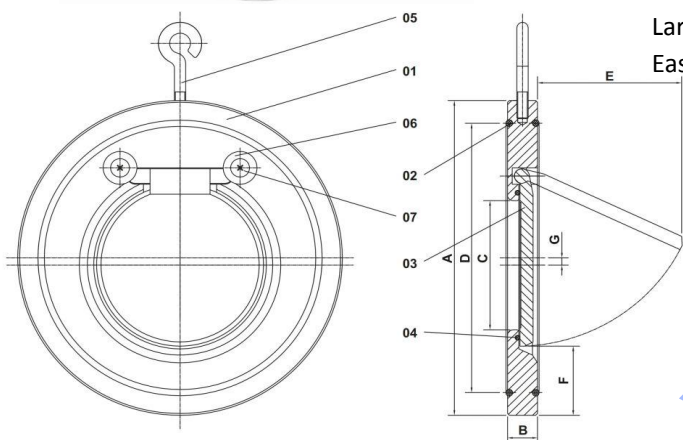
Design: - EN1074-3  
 Flange: - EN1092-1  
 Face to face: - EN558-1  
 Test: - EN12266-1

## Features

With or w/o spring design  
 Large angle of opening  
 Easy maintenance and long life

## Material Description

ITEM	DESCRIPTION	MATERIAL	STANDARD
1	BODY	SS304	ASTM A276
2	O RING	EPDM	EN681
3	DISC	SS316	ASTM A276
4	O RING	EPDM	EN681
5	EYE BOLT	SS304	ASTM A276
6	GASKET	SS304	ASTM A276
7	SCREW	SS304	ASTM A276



## CHECK VALVE DIMENSIONS

DN	A	B	C	D	E	F	G
32	85	15	18	57	20.5	26	2
40	95	16	22	69.35	26	28.5	1.5
50	109	14	32	82.8	38	28.8	3.2
65	129	14	40	105.8	46	31	3.5
80	144	14	54	115.8	56	32.5	3.5
100	164	18	70	143.3	75	31	6
125	194.5	18	92	170.3	96	35.25	7.5
150	220	20	112	194.3	113	35.5	8
200	275	22	154	252.3	151	38.5	11
250	330	26	192	308.3	195	41	12.5
300	380	32	227	359.3	229	41	20
350	440	38	266	411	253.7	55	16
400	491	44	310	462	291	55.5	19
450	541	52	350	515	325	61	19
500	596	58	400	545	545	58	54.5
600	698	62	486	655	446	60	28

# BUTTERFLY VALVES

HIGH PERFORMANCED,CAST CARBON , STAINLESS OR ALLOY STEEL

SIZE:- 1 1/2" -28", ASME CLASS:- PN10 - PN 25



## STANDARD MATERIALS :

PART	MATERIAL			
BODY	CI	WCB	CF8	CF8M
DISC	CI / WCB / CF8 / CF8M	WCB / CF8 / CF8M	CF8 / CF8M	CF8M
STEM	SS 410 / 17-4 PH / SS 304 / SS 316	SS 410 / 17-4 PH / SS 304 / SS 316	SS 304	SS316
LINNING	EPDM / NITRILE / VITON / PTFE / PFA			
STEM PACKING	NBR / VITON / PTFE			
LEVER	IC CASTED, IN ALL MOC			
STUD - NUT	GR. B7 / 2H	GR. B7 / 2H	GR. 8	GR. 8M
NAME PLATE	STAINLESS STEEL / ALLUMINIUM			

## DESIGN FEATURES

Slim Seal, Wafer Type, Double Flanged Type Double Eccentric, Tripple Eccentric

100% tight shut off in both flow directions.

REPLACEBAL/ Molded rubber seat in various material.

A fully universal body design ensures suitable for mounting between all popular standards (VIZ: - ANSI, BS, DIN, IS, JIS, etc.)

The notch disc & band lever ensures locking of the valves in 8 intermediate positions in addition to close and open position

Face to face water short dimensions conform to BS 5155 / API 609 / IS 13095 / AWWA C 504.

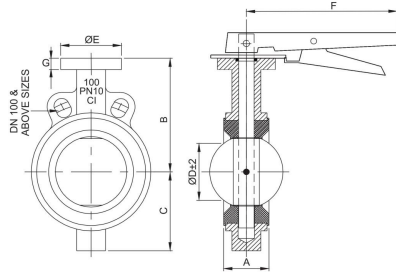
Lever Operated, Gear Operated, Pneumatic and Electrical Actuator operated.

## DESIGN SPECIFICATIONS

ITEM	APPLICABLE STD.
Design Standard	API 6D / BS 5351
Fire Safe Standard	API 607 / API 6FA
Pressure-temperature	ASME B16.34
Face-to-face dimensions	ASME B16.10
Testing Standard	API 598 / BS 6755
Flange design	ASME B16.5
Materials	ASTM

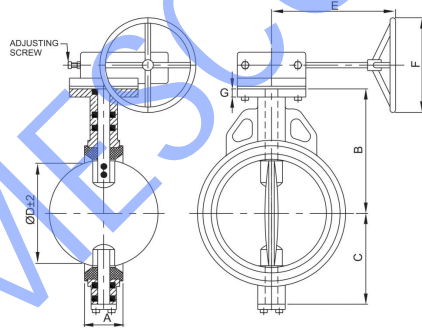


### GEAR OPERATED BUTTERFLY VALVE---PN 10 / PN 16



SIZE DN	A	B	C	D	E	F	G
50	43	104	61	28	65	185	15
65	46	111	68	48	65	185	15
80	46	124	75	67	65	230	15
100	52	140	89	88	65	230	15
125	56	158	105	114	65	230	15
150	56	180	120	142	65	265	15
200	60	230	156	194	75	325	15
250	68	566	196	243	75	385	18
300	78	300	230	292	75	385	18

### GEAR OPERATED BUTTERFLY VALVE---PN 10 / PN 16



SIZE DN	A	B	C	D	E	F	G	FLANGE STD. ISO 5211
100	52	157	100	88	180	200	15	F07
125	56	164	115	114	180	200	15	F07
150	56	181	133	142	240	250	15	F07
200	60	230	165	194	285	350	15	F10
250	68	266	196	243	285	350	18	F10
300	78	300	230	292	285	350	18	F10
350	92	320	272	330	300	350	22	F12
400	102	385	302	375	305	350	22	F14
450	114	405	325	425	305	450	24	F14
500	127	465	405	470	350	500	26	F16
600	154	540	460	570	370	600	26	F16

# KNIFE EDGE GATE VALVE

"MESCO" Knife Edge Gate Valve design ensures minimum contact between the parts of the valve, Reduces the Wear & Tear. Valve design is Non Sliding Motion, Avoid Sliding Contact between Body & Gate allow flushing of media from the valve interior. A wide variety of hardened trim options are available on Gate, Seat and Wear Ring. Batten edge of the Gate (Knife-Edge) allows the tight shut off even when solid particles settles at the bottom of the Body.

"MESCO" Knife Gate Valve are Unidirectional Valves, Excellent Hopper Isolation Valves with their ability to cut through flowing media and closed by dislodging any material in the seating area.

Knife-Edge Gate Valves are widely use in Mining, Power, Steel, Chemical, Paper and withstand high Temperature & Abrasive Slurries in Industries Ideal for high-density Slurry Lines.



<b>Edge Gate Valves.</b>		Uni-directional / Bi-directional Knife Edge Gate Valve
<b>Body/Gate/Seat</b>		Cast Steel / Cast Iron / S.G.Iron/SS 304 / 316 / 316L.
<b>M.O.C.</b>	<b>Body:</b>	Cast Corrosion resistant steel or cast iron to provide receptivity against corrosion for all wetted parts
	<b>Stem:</b>	Stainless steel or as desire, having double start thread rising / non-rising spindle, For fast closing and opening.
	<b>Gate:</b>	The Stainless steel knife gate plate is precision-buffed on both sides, to enhance Packing life and ensure positive shut off even heavy or high-viscous fluid.
	<b>Seat:</b>	Renewable Metal-to-Metal, replaceable type, soft seat and other Suitable to application.
<b>Port Type :</b>		Round Port, Lugged Type.
<b>Valve End Connection :</b>		Flanged End / Uni Lugged, Wafer , Two Lug, Wafer Flangeless.
<b>Sizes :</b>		50mm TO 600mm
<b>Rating :</b>		Pressure Rating Up to PN 10 Class
<b>Drilling :</b>		Option Include ANSI, DIN, BS, JIS and AS standard; others on request
<b>Operation Available :</b>		Manual, Cylinder Operated, Electrical Actuator, Pneumatic Actuator with Manual Override.



No.	Body Parts Name	M.O.C. of Parts
1	Body	WCB/CF8/CF8M
2	Yoke	WCB/CF8/CF8M
3	Yoke Bush / Sleeve	C.S.
4	Disc	S.S. 304 / 316
5	Gland	WCB/CF8/CF8M
6	Gland Stud & Nut	ASTM A193 B7 / A194 2H
7	Gland Packing	Graphite / PTFE
8	Seat	Soft / Metal
9	Seat Ring	CF8 / CF8M
10	Seam / Spindle	S.S. 304 / 316
11	Spindle Pind / Stud & Nut	S.S. 304 / 316
12	Wheel / Nut	C.S.
13	Wheel / Nut	C.I.

## PULP VALVE

MESCO offers pulp valve (Plate Valve) Which Are Carefully Design To Offer Unrestricted Smooth Flow Of Viscous Fluids, Recesses Free Straight Passage Orifice Offers Minimum Body Contact Of Line Fluid, Avoids Accumulation Of Viscous Fluid In The Orifice Ensures Unaltered Velocity.

Our Pulp Valve Are Widely Used In Sugar Industries For Handling Molasses, Isolation Of Pulp & And Fibrous Material In Paper Industries. Our Pulp Valve Are Ideally Suitable For Hopper Isolation In The Cement Industries. For Corrosive Slurries In The Chemical Industries, Powder Application Minerals & Metal Industries, Coal Ash With Abrasive Particle In The Coal & Mining Industries.

**SIZE:-** DN 50 TO DN 400

### Standard Flange Connection:-

Table "E", "D" Pulp Valves For Slurry Lines, Sludge And Viscous Media Handling, Pulp And Paper Stock Lines, Dry Solid, Powder Handling And Many More.

### Valve Operation:-

Hand Weel Operation, pneumatic Operation, Hydraulic Operation ,chain Wheel Operation Electric Motor Operation , Bevel Gear Operation, lever Operation

PART	CAST IRON : STAINLESS STEEL LIST :
1- BODY	C.I, WCB, CF8, CF8M
2- GATE	AISI 304 AISI 316
3- SEAT	Metal To Metal
4- PACKING	PTFE Impreg. Synth. Fibre
5- GLAND FOLLOWER	Ductile Iron
6- STEM	AISI 304
7- STEM NUT	Gun Metal
8- YOKE	Carbon Steel
9- SEAT RING	AISI 304 AISI 316
10- HANDWHEEL	310 : Ductile Iron / > 410: Gjl 250 (gg25)
11- FASTNERS	Zinc Plated Carbon Steel



## FORGED GATE VALVE

### CLASS 800 #

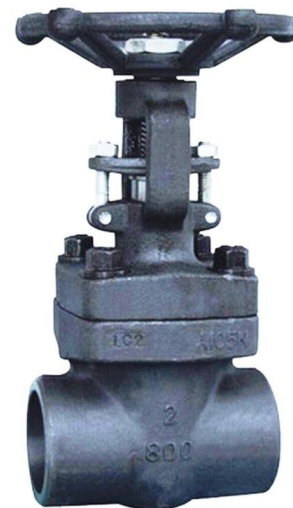
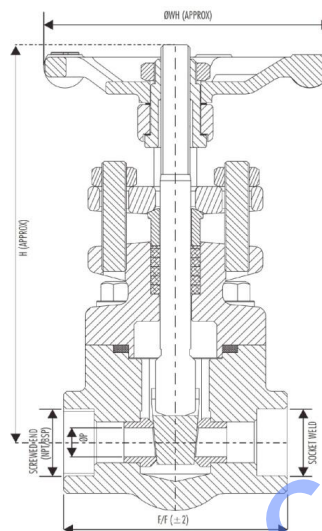
SIZE	F/F	øP	H(O)	H(C)	ØWH	WT (Kg)
15 mm	87	9.5	152	130	86	1.6
20 mm	92	12.7	158	133	86	1.9
25 mm	106	17.5	189	155	116	3.1
32 mm	127	23.8	239	200	150	6.3
40 mm	127	28.6	239	200	150	6.4
50 mm	142	36.5	288	235	150	9.8

### CLASS 1500 #

SIZE	F/F	øP	H(O)	H(C)	ØWH	WT (Kg)
15 mm	92	12.7	158	133	86	2.2
20 mm	106	17.5	189	155	116	3.6
25 mm	127	23.8	239	200	150	7.3
32 mm	127	28.6	239	200	150	7.0
40 mm	142	36.5	288	235	150	11.3

### CLASS 2500 #

SIZE	F/F	øP	H(O)	H(C)	ØWH	WT (Kg)
15 mm	106	17.5	189	155	116	4.1
20 mm	127	23.8	239	200	150	8.4
25 mm	142	36.5	288	235	150	13.0



## FLANGED END GATE VALVE

### CLASS 150 #

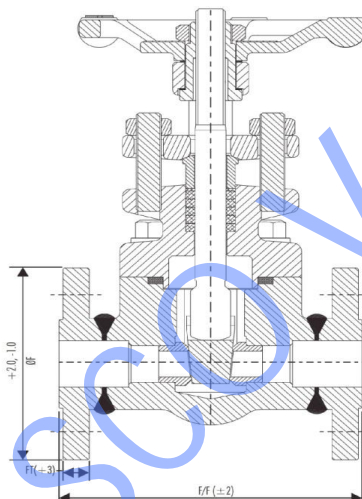
SIZE	F/F	ØF	FT	WT (Kg)
15 mm	108	90	9.6	2.6
20 mm	117	100	11.2	3.5
25 mm	127	110	12.7	5.1
32 mm	140	115	14.3	8.7
40 mm	165	125	15.9	9.3
50 mm	178	150	17.5	15.0

### CLASS 300 #

SIZE	F/F	ØF	FT	WT (Kg)
15 mm	140	95	12.7	3.2
20 mm	152	115	14.3	4.7
25 mm	165	125	15.9	6.5
32 mm	178	135	17.5	10.5
40 mm	190	155	19.1	12.1
50 mm	216	165	20.7	17.2

### CLASS 600 #

SIZE	F/F	ØF	FT	WT (Kg)
15 mm	165	95	14.3	3.6
20 mm	190	115	15.9	5.1
25 mm	216	125	17.5	7.3
32 mm	229	135	20.7	11.5
40 mm	241	155	22.3	13.7
50 mm	292	165	25.4	20.0



## APPLICATION STANDARDS

1. Design & Manufacture confirm to API 602
2. End Connection Confirm to
1). Socket weld Standard:- ASME B16.11
2). Screwed end standard:- ASME B1.20.1
3). Butt-weld standard:- ASME B16.25
4). Flange End Standard:- ASME B16.5
5). Face to Face standard:- ASME B16.10 / mfg.
3. Testing Standard: API 598
4. Pressure & Temp. Rating Standard:- ASME B16.34
5. Structure Features
Bolted Bonnet / Welded Bonnet
6. Material Confirms to ANSI / ASTM
Carbon Steel:- A105, LF2
Alloy Steel:- F5, F9, F11, F22, F91
Stainless Steel:- F304L, F316L
Duplex Steel:- F51, F53, F55
Special Grades:- INCONEL 625, MONEL K400, ALLOY 20



## FORGED GLOBE VALVE

### CLASS 800 #

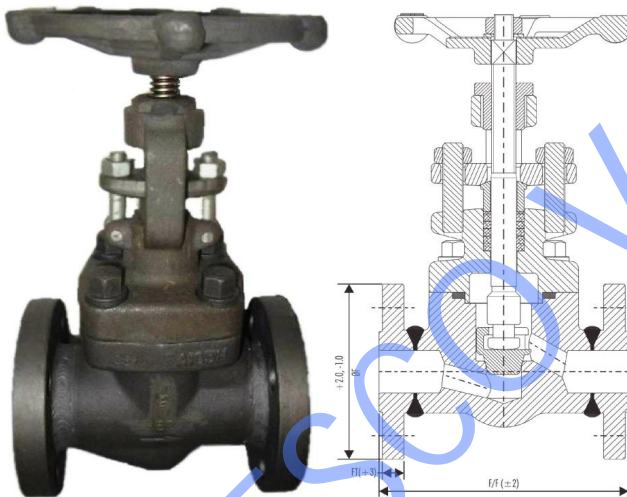
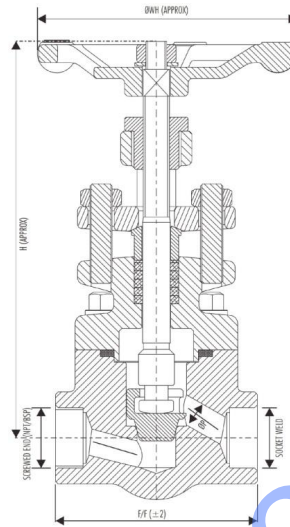
SIZE	F/F	øP	H(O)	H(C)	ØWH	WT (Kg)
15 mm	87	9.0	153	147	86	1.6
20 mm	92	12.0	158	149	86	1.9
25 mm	106	17.0	194	182	116	3.0
32 mm	127	23.0	222	208	150	6.5
40 mm	127	25.0	222	208	150	6.3
50 mm	142	29.0	263	245	150	10.1

### CLASS 1500 #

SIZE	F/F	øP	H(O)	H(C)	ØWH	WT (Kg)
15 mm	92	8.0	158	149	86	2.2
20 mm	106	9.0	194	182	116	3.5
25 mm	127	14.0	222	208	150	7.5
32 mm	127	20.0	222	208	150	7.3
40 mm	142	25.0	263	245	150	11.6

### CLASS 2500 #

SIZE	F/F	øP	H(O)	H(C)	ØWH	WT (Kg)
15 mm	106	7.0	194	182	116	4.0
20 mm	127	8.0	222	208	150	8.6
25 mm	142	12.0	263	245	150	13.3



## FLANGED END GLOBE VALVE

### CLASS 150 #

SIZE	F/F	ØF	FT	WT (Kg)
15 mm	108	90	9.6	2.6
20 mm	117	100	11.2	3.5
25 mm	127	110	12.7	5.0
32 mm	140	115	14.3	8.9
40 mm	165	125	15.9	9.5
50 mm	178	150	17.5	15.3

### CLASS 300 #

SIZE	F/F	ØF	FT	WT (Kg)
15 mm	140	95	12.7	3.4
20 mm	152	115	14.3	4.7
25 mm	165	125	15.9	6.8
32 mm	178	135	17.5	10.9
40 mm	190	155	19.1	12.5
50 mm	216	165	20.7	17.9

### CLASS 600 #

SIZE	F/F	ØF	FT	WT (Kg)
15 mm	165	95	14.3	3.6
20 mm	190	115	15.9	5.1
25 mm	216	125	17.5	7.2
32 mm	229	135	20.7	11.5
40 mm	241	155	22.3	13.5
50 mm	292	165	25.4	19.9

## APPLICATION STANDARDS

1. Design & Manufacture confirm to API 602 / ISO 15761
2. End Connection Confirm to <ol style="list-style-type: none"> <li>1). Socket weld Standard:- ASME B16.11</li> <li>2). Screwed end standard:- ASME B1.20.1</li> <li>3). Butt-weld standard:- ASME B16.25</li> <li>4). Flange End Standard:- ASME B16.5</li> <li>5). Face to Face standard:- ASME B16.10 / mfg.</li> </ol>
3. Testing Standard: API 598
4. Pressure & Temp. Rating Standard:- ASME B16.34
5. Structure Features Bolted Bonnet / Welded Bonnet
6. Material Confirms to ANSI / ASTM <ul style="list-style-type: none"> <li>Carbon Steel:- A105, LF2</li> <li>Alloy Steel:- F5, F9, F11, F22, F91</li> <li>Stainless Steel:- F304L, F316L</li> <li>Duplex Steel:- F51, F53, F55</li> <li>Special Grades:- INCONEL 625, MONEL K400, ALLOY 20</li> </ul>

# FORGED CHECK VALVE

## CLASS 800 #

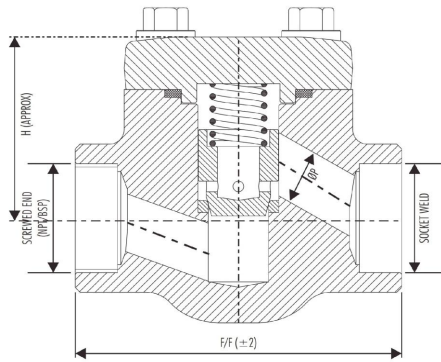
SIZE	F/F	øP	H	WT (Kg)
15 mm	87	9.5	53	1.0
20 mm	92	12.7	56	1.3
25 mm	106	17.5	66	2.2
32 mm	127	23.8	86	4.9
40 mm	127	28.6	86	4.7
50 mm	142	36.5	104	8.2

## CLASS 1500 #

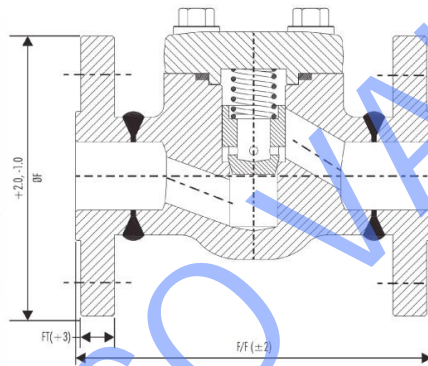
SIZE	F/F	øP	H(O)	WT (Kg)
15 mm	92	8.0	56	1.5
20 mm	106	9.0	66	2.5
25 mm	127	14.0	86	5.6
32 mm	127	20.0	401	5.4
40 mm	142	25.0	104	9.4

## CLASS 2500 #

SIZE	F/F	øP	H(O)	WT (Kg)
15 mm	106	7.0	66	2.9
20 mm	127	12.5	86	6.4
25 mm	142	15.5	104	10.8



## FLANGED END CHECK VALVE



## CLASS 150 #

SIZE	F/F	ØF	FT	WT (Kg)
15 mm	108	90	9.6	2.0
20 mm	117	100	11.2	2.9
25 mm	127	110	12.7	4.2
32 mm	140	115	14.3	7.3
40 mm	165	125	15.9	7.9
50 mm	178	150	17.5	13.4

## CLASS 300 #

SIZE	F/F	ØF	FT	WT (Kg)
15 mm	140	95	12.7	2.8
20 mm	152	115	14.3	4.1
25 mm	165	125	15.9	6.0
32 mm	178	135	17.5	9.3
40 mm	190	155	19.1	10.9
50 mm	216	165	20.7	16.0

## CLASS 600 #

SIZE	F/F	ØF	FT	WT (Kg)
15 mm	165	95	14.3	3.0
20 mm	190	115	15.9	4.2
25 mm	216	125	17.5	6.4
32 mm	229	135	20.7	10.1
40 mm	241	155	22.3	11.9
50 mm	292	165	25.4	18.0

## APPLICATION STANDARDS

1. Design & Manufacture confirm to API 602 / ISO 15761

2. End Connection Confirm to

- 1). Socket weld Standard:- ASME B16.11
- 2). Screwed end standard:- ASME B1.20.1
- 3). Butt-weld standard:- ASME B16.25
- 4). Flange End Standard:- ASME B16.5
- 5). Face to Face standard:- ASME B16.10 / mfg.

3. Testing Standard: API 598

4. Pressure & Temp. Rating Standard:- ASME B16.34

5. Structure Features

Bolted Cover / Welded Cover

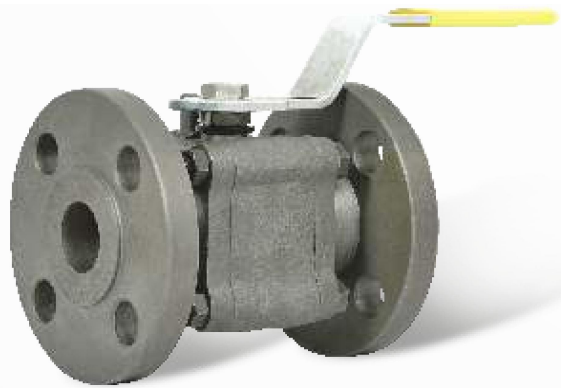
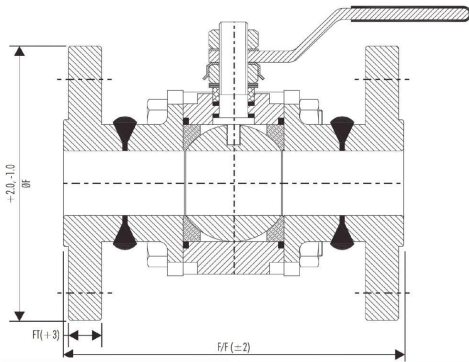
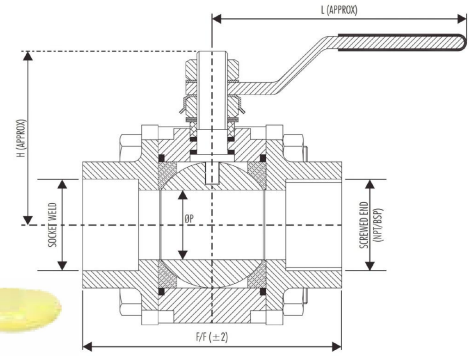
6. Material Confirms to ANSI / ASTM

- Carbon Steel:- A105, LF2
- Alloy Steel:- F5, F9, F11, F22, F91
- Stainless Steel:- F304L, F316L
- Duplex Steel:- F51, F53, F55
- Special Grades:- INCONEL 625, MONEL K400, ALLOY 20

## 3-PC BALL VALVE

### CLASS 800 #

SIZE	F/F	ØP	H	L	WT (Kg)
15 mm	68	10.0	38	128	0.7
20 mm	73	14.0	40	128	1.0
25 mm	96	20.0	53	155	1.9
32 mm	103	25.0	56	165	2.5
40 mm	116	30.5	75	200	3.3
50 mm	128	37.3	80	200	4.7



## FLANGED END BALL VALVE

### CLASS 150 #

SIZE	F/F	ØF	FT	WT (Kg)
15 mm	108	90	9.6	1.7
20 mm	117	100	11.2	2.6
25 mm	127	110	12.7	3.9
32 mm	140	115	14.3	4.9
40 mm	165	125	15.9	6.5
50 mm	178	150	17.5	9.9

### CLASS 300 #

SIZE	F/F	ØF	FT	WT (Kg)
15 mm	140	95	12.7	2.5
20 mm	152	115	14.3	3.8
25 mm	165	125	15.9	5.7
32 mm	178	135	17.5	6.9
40 mm	190	155	19.1	9.5
50 mm	216	165	20.7	12.5

### CLASS 600 #

SIZE	F/F	ØF	FT	WT (Kg)
15 mm	165	95	14.3	2.7
20 mm	190	115	15.9	4.2
25 mm	216	125	17.5	6.1
32 mm	229	135	20.7	7.7
40 mm	241	155	22.3	10.5
50 mm	292	165	25.4	14.5

### APPLICATION STANDARDS

- Design & Manufacture confirm to ISO 17292
- End Connection Confirm to
  - Socket weld Standard:- ASME B16.11
  - Screwed end standard:- ASME B1.20.1
  - Butt-weld standard:- ASME B16.25
  - Flange End Standard:- ASME B16.5
  - Face to Face standard:- ASME B16.10 / mfg.
- Testing Standard: API 598 / EN 12266-1
- Pressure & Temp. Rating Standard:- ASME B16.34
- Structure Features
  - Bolted Cover / Welded Cover
- Material Confirms to ANSI / ASTM
  - Carbon Steel:- A105, LF2
  - Alloy Steel:- F5, F9, F11, F22, F91
  - Stainless Steel:- F304L, F316L
  - Duplex Steel:- F51, F53, F55
  - Special Grades:- INCONEL 625, MONEL K400, ALLOY 20



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## SHREE GANESH ENGINEERING WORKS

- Regd. Office & Factory:  
B-8, Madhuram Eastate, Nr. Kathwada G.I.D.C.,  
Opp. Nikol S.P. Ring Road, Kathwada,  
Ahmedabad- 382 415. Gujarat, INDIA.
- Mobile : +91-99041 52222 / +91-97234 77796
- email : [marketing@mescovalves.com](mailto:marketing@mescovalves.com)  
[sales@mescovalves.com](mailto:sales@mescovalves.com)
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