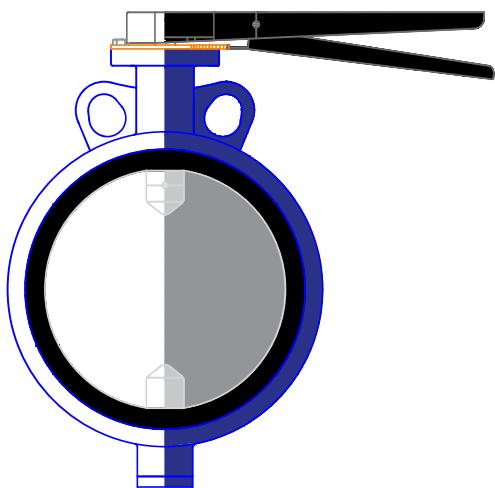




MANUFACTURER OF INDUSTRIAL VALVES



"To be Develop Better Operating Efficiency, Cost Effective Methods & Quality"

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PRODUCT RANGE



Sr. No.	Valve Type	150#	300#	600#	900#	1500#
1	Ball Valve	15NB-900NB	15NB-600NB	40NB-400NB	40NB-400NB	40NB-300NB
2	Butterfly Valve	PN-10/16	50NB-1200NB	-	-	-
3	Plug Valve	15NB-200NB	15NB-200NB	-	-	-
4	Gate Valve	15NB-200NB	15NB-200NB	40NB-400NB	40NB-400NB	40NB-300NB
5	Globe Valve	15NB-200NB	15NB-200NB	40NB-400NB	40NB-400NB	40NB-300NB
6	Swing Check Valve	15NB-200NB	15NB-200NB	40NB-400NB	40NB-400NB	40NB-300NB
7	Dual Plate Check Valve	50NB-900NB	50NB-900NB	50NB-900NB	-	-
8	Single Plate Check Valve	40NB-900NB	40NB-900NB	40NB-900NB	-	-
9	Diaphragm Valve	15NB-300NB	-	-	-	-
10	Needle Valve	6NB-25NB	6NB-32NB	6NB-32NB	6NB-32NB	-
11	Srainer 'Y' Type	25NB-600NB	25NB-600NB	-	-	-

BILL OF MATERIAL

BALL VALVE				
Sr. No.	Description	Material		
1	Body	C.I. IS 210 Gr. FG200	ASTM A216 Gr. WCB	ASTM A351 Gr. CF8
		Cast Iron	Carbon Steel	S.S. 304
2	Body Connector	C.I. IS 210 Gr. FG200	ASTM A216 Gr. WCB	ASTM A351 Gr. CF8
		Cast Iron	Carbon Steel	S.S. 316
3	Ball	ASTM A240 Gr. TP202	ASTM A351 Gr. CF8	ASTM A351 Gr. CF8
		S.S. 202	S.S. 304	S.S. 316
4	Stem	ASTM A240 Gr. TP202	ASTM A351 Gr. CF8	ASTM A351 Gr. CF8
		S.S. 202	S.S. 304	S.S. 316
5	Seat Ring	PTFE / GFT / CARBON		

BUTTERFLY VALVE					
Sr. No.	Description	Material			
1	Body	SG Iron EN 1563-400/18	C.I. IS 210 Gr. FG200	ASTM A216 Gr. WCB	ASTM A351 Gr. CF8
		Ductile Iron	Cast Iron	Carbon Steel	S.S. 304
2	Disc	SG Iron EN 1563-400/18	C.I. IS 210 Gr. FG200	ASTM A351 Gr. CF8	ASTM A351 Gr. CF8
		Ductile Iron	Cast Iron	S.S. 304	S.S. 316
3	Stem	ASTM A240 Gr. TP202	S.S 13% Chrome.	ASTM A351 Gr. CF8	ASTM A351 Gr. CF8
		S.S. 202	S.S. 410	S.S. 304	S.S. 316
4	Seat	Nitrile / EPDM / Silicon / Viton / Hypalon			

PLUG VALVE				
Sr. No.	Description	Material		
1	Body	C.I. IS 210 Gr. FG200	ASTM A216 Gr. WCB	ASTM A351 Gr. CF8
		Cast Iron	Carbon Steel	S.S. 304
2	Plug	ASTM A216 Gr. WCB	ASTM A216 Gr. WCB	ASTM A351 Gr. CF8
		Carbon Steel	Carbon Steel	S.S. 304
3	Sleeve	PTFE / RTFE / GFT / Metal		
4	Jacket	M.S. / C.S. / S.S. 202		

BILL OF MATERIAL



GATE VALVE					
Sr. No.	Description	Material			
1	Body	ASTM A216 Gr. WCB	ASTM A351 Gr. CF8	ASTM A351 Gr. CF8M	ASTM A351 Gr. CN-7M
		Carbon Steel	S.S. 304	S.S. 316	ALLOY - 20
2	Bonnet	ASTM A216 Gr. WCB	ASTM A351 Gr. CF8	ASTM A351 Gr. CF8M	ASTM A351 Gr. CN-7M
		Carbon Steel	S.S. 304	S.S. 316	ALLOY - 20
3	Solid Wedge	S.S 13% Chrome.	ASTM A351 Gr. CF8	ASTM A351 Gr. CF8M	ASTM A351 Gr. CN-7M
		S.S. 410	S.S. 304	S.S. 316	ALLOY - 20
4	Stem	S.S 13% Chrome.	ASTM A351 Gr. CF8	ASTM A351 Gr. CF8M	ASTM A351 Gr. CN-7M
		S.S. 410	S.S. 304	S.S. 316	ALLOY - 20
5	Seat Ring	S.S 13% Chrome.	ASTM A351 Gr. CF8	ASTM A351 Gr. CF8M	ASTM A351 Gr. CN-7M

GLOBE VALVE					
Sr. No.	Description	Material			
1	Body	ASTM A216 Gr. WCB	ASTM A351 Gr. CF8	ASTM A351 Gr. CF8M	ASTM A351 Gr. CN-7M
		Carbon Steel	S.S. 304	S.S. 316	ALLOY - 20
2	Bonnet	ASTM A216 Gr. WCB	ASTM A351 Gr. CF8	ASTM A351 Gr. CF8M	ASTM A351 Gr. CN-7M
		Carbon Steel	S.S. 304	S.S. 316	ALLOY - 20
3	Disc	S.S 13% Chrome.	ASTM A351 Gr. CF8	ASTM A351 Gr. CF8M	ASTM A351 Gr. CN-7M
		S.S. 410	S.S. 304	S.S. 316	ALLOY - 20
4	Stem	S.S 13% Chrome.	ASTM A351 Gr. CF8	ASTM A351 Gr. CF8M	ASTM A351 Gr. CN-7M
		S.S. 410	S.S. 304	S.S. 316	ALLOY - 20
5	Seat Ring	S.S 13% Chrome.	ASTM A351 Gr. CF8	ASTM A351 Gr. CF8M	ASTM A351 Gr. CN-7M

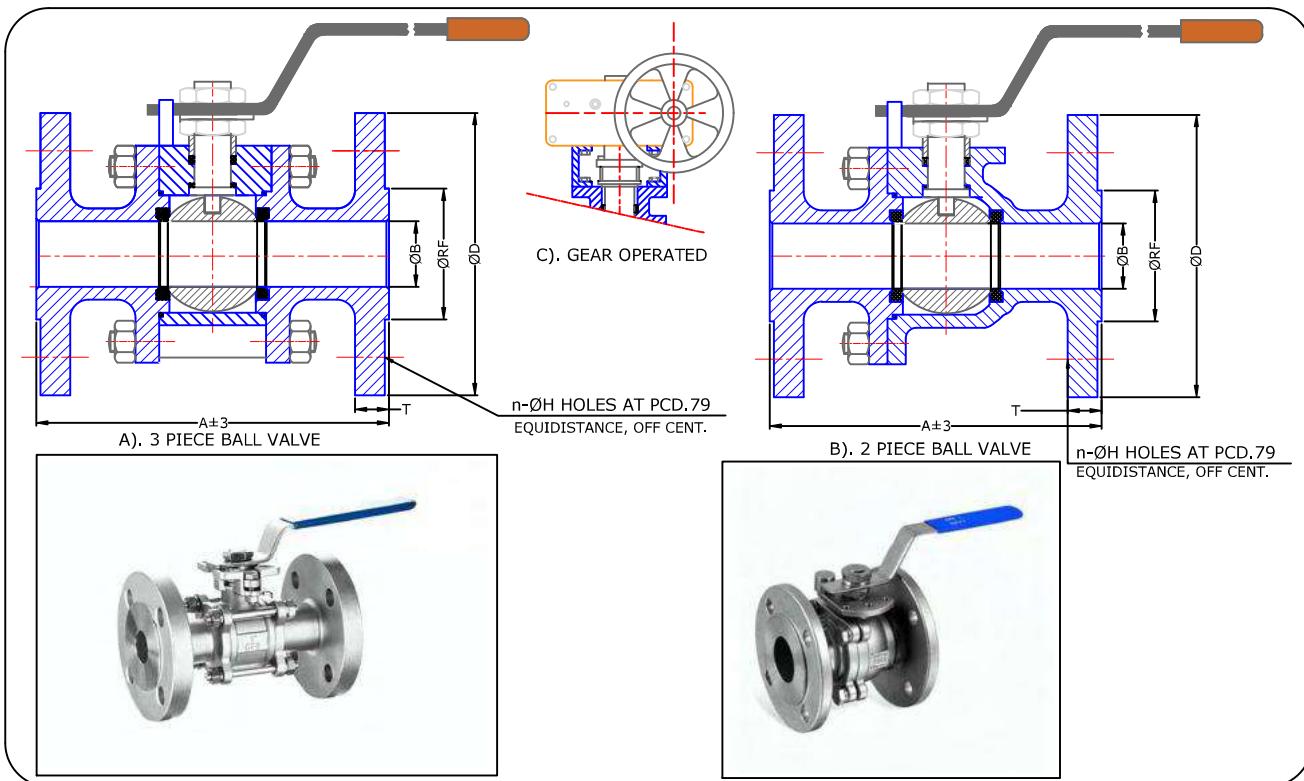
SWING CHECK VALVE					
Sr. No.	Description	Material			
1	Body	ASTM A216 Gr. WCB	ASTM A351 Gr. CF8	ASTM A351 Gr. CF8M	ASTM A351 Gr. CN-7M
		Carbon Steel	S.S. 304	S.S. 316	ALLOY - 20
2	Cover	ASTM A216 Gr. WCB	ASTM A351 Gr. CF8	ASTM A351 Gr. CF8M	ASTM A351 Gr. CN-7M
		Carbon Steel	S.S. 304	S.S. 316	ALLOY - 20
3	Disc	S.S 13% Chrome.	ASTM A351 Gr. CF8	ASTM A351 Gr. CF8M	ASTM A351 Gr. CN-7M
		S.S. 410	S.S. 304	S.S. 316	ALLOY - 20
4	Seat Ring	S.S 13% Chrome.	ASTM A351 Gr. CF8	ASTM A351 Gr. CF8M	ASTM A351 Gr. CN-7M

DUAL PLATE CHECK VALVE					
Sr. No.	Description	Material			
1	Body	C.I. IS 210 Gr. FG200	ASTM A216 Gr. WCB	ASTM A351 Gr. CF8	ASTM A351 Gr. CF8M
		Cast Iron	Carbon Steel	S.S. 304	S.S. 316
2	Disc	ASTM A351 Gr. CF8	ASTM A351 Gr. CF8	ASTM A351 Gr. CF8	ASTM A351 Gr. CF8M
		S.S. 304	S.S. 304	S.S. 304	S.S. 316
3	Stem	S.S 13% Chrome.	ASTM A351 Gr. CF8	ASTM A351 Gr. CF8	ASTM A351 Gr. CF8M
		S.S. 410	S.S. 304	S.S. 304	S.S. 316
4	Seat	Nitrile / EPDM / Silicon / Viton / Hypalon			

BALL VALVE - IC, FULL BORE, FLANGED ENDS

TECHNICAL DATA	
DESIGN & MANUFACTURING STANDARD	BS EN ISO 17292 / BS 5351 / API 6D
TESTING STANDARD	API 598 / BS 6755
END CONNECTION	FLANGED AS PER ASME B16.5 150# / 300# RF
FACE TO FACE STANDARD	ASME B16.10
PRESSURE RATING	CLASS - 150# / 300#

TEST PRESSURE (Bar) TO API 598		
CLASS-150#	SHELL TEST	30
	SEAT TEST	21
CLASS-300#	SHELL TEST	77
	SEAT TEST	57



CLASS-150#							
ALL DIMENSIONS ARE IN MM							
SIZE	A	ØB	ØRF	ØD	T	E-PCD	n X ØH
15	108	12.5	34.9	90	8	60.5	4 X 16
20	118	18	42.9	98.5	8.9	70	4 X 16
25	127	25	50.8	108	9.6	79.5	4 X 16
32	140	32	63.5	117	11.2	89	4 X 16
40	165	38	73	127	12.7	98.5	4 X 16
50	178	50	92.1	152	14.3	120.7	4 X 19
65	190	65	104.8	178	15.9	140	4 X 19
80	203	76	127	191	17.5	152.4	4 X 19
100	229	102	157.2	229	22.3	190.5	8 X 19
125	254	127	186	254	22.3	216	8 X 22
150	267	152	216	279	23.9	241.3	8 X 22

ALTERSOL Ball Valves are available in 3 Piece, 2 Piece & Single Piece Design. Floating Or Trunnion Mounted Ball Configuration in both 2 and 3 Piece designs are in regular production. Our range is starts from 15NB through 150NB Or Higher as required and Class-150# through Class-600# in pressure rating and all in materials shown in the Material of construction chart.

CLASS-300#							
ALL DIMENSIONS ARE IN MM							
SIZE	A	ØB	ØRF	ØD	T	E-PCD	n X ØH
15	140	12.7	35.1	95.3	14.3	66.5	4 X 16
20	151	19	43	117.4	15.8	82.6	4 X 19
25	165	25.4	50.8	124	17.5	88.9	4 X 19
40	190	38	73.2	155.5	20.6	114.3	4 X 22
50	216	50.5	92.1	165.1	22.4	127	8 X 19
65	241	63.5	104.8	190.5	25.4	149.4	8 X 22
80	282	76.2	127	209.6	28.5	168.1	8 X 22
100	305	101	157.2	254	31.8	200.2	8 X 22
125	381	125	186	280	35	235	8 X 22
150	403	152	216	317.5	36.6	267	8 X 22

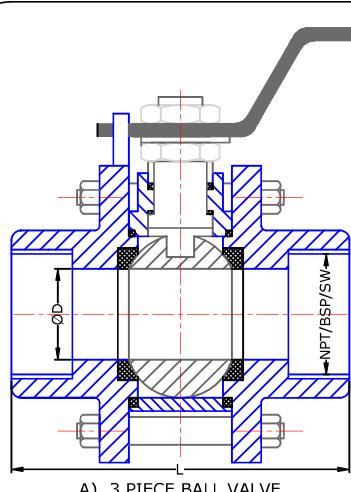
GENERAL NOTES:

- Higher Sized & Classed valves are available on demand.
- Pneumatic, Electric Actuated valves are also available on demand.
- Fire Safe Design & Metal Seated Valves are available on special demand.
- For Material of Construction, Refer Material Chart in Page 2.

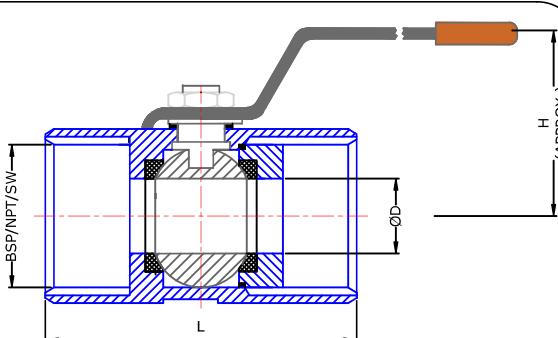
BALL VALVE - IC, FULL BORE, SCREWED / SOCKET WELD ENDS

TECHNICAL DATA	
DESIGN & MANUFACTURING STANDARD	BS EN ISO 17292 / BS 5351 / API 6D
TESTING STANDARD	API 598 / BS 6755
END CONNECTION	FLANGED AS PER ASA 150# / 300#
FACE TO FACE STANDARD	ASME B16.10
PRESSURE RATING	CLASS - 150# / 300#

TEST PRESSURE (Bar) TO API 598		
CLASS-150#	SHELL TEST	30
	SEAT TEST	21



A). 3 PIECE BALL VALVE



B). SINGLE PIECE BALL VALVE



3PC BALL VALVE, CLASS-150#						
ALL DIMENSIONS ARE IN MM						
SIZE	ØD	SW	BSPT-F	NPT-F	L	H
15	11	22.1	14	14	66	51
20	11.6	27.5	14	14	68	55
25	17	34.2	11	11.5	89	58
32	24	42.5	11	11.5	97	65
40	27	49.2	11	11.5	103	66
50	37	61.4	11	11.5	122	83
80	62	90.2	11	8	185	199
100	73	115.3	11	8	212	223

GENERAL NOTES:

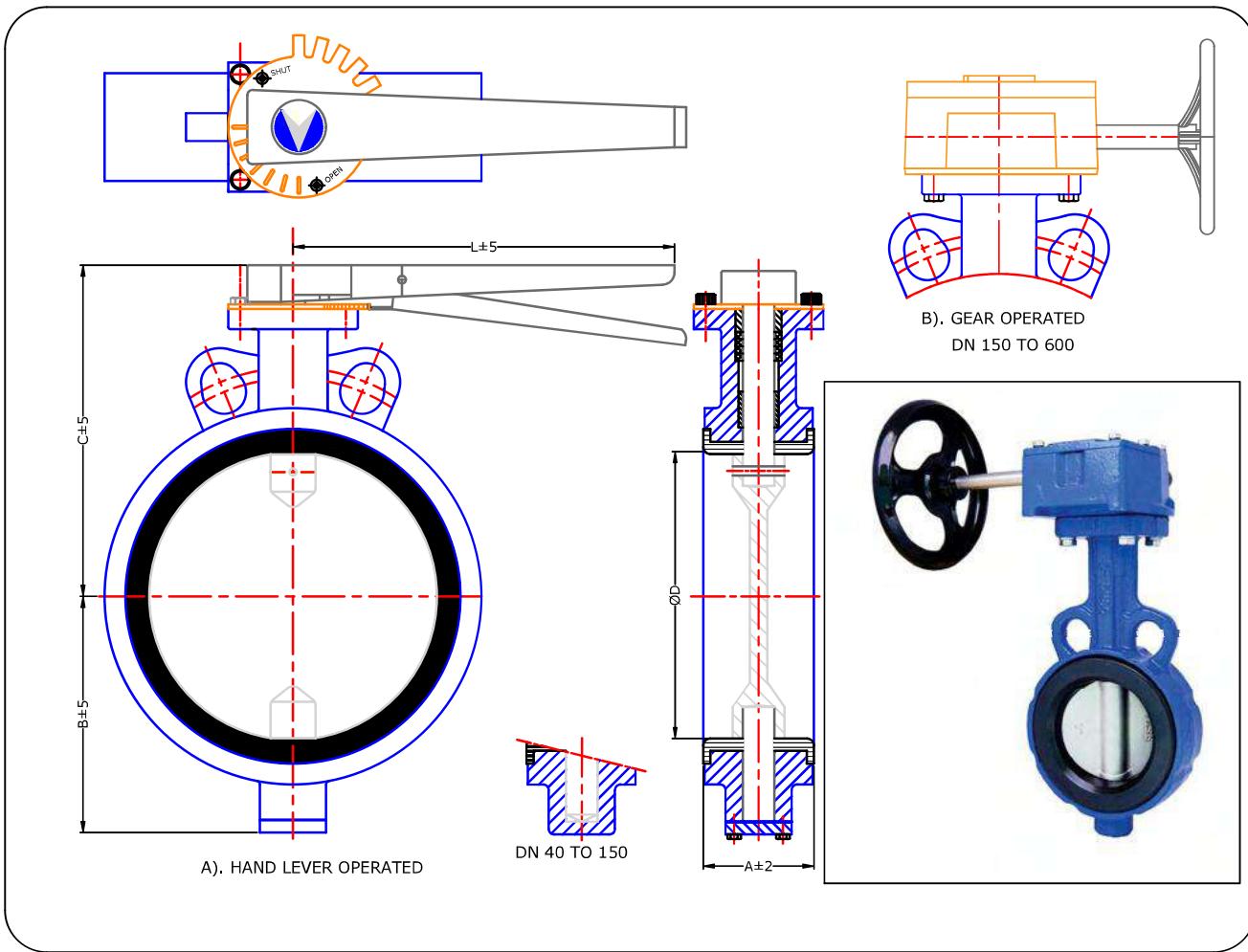
- Higher Sized & Classed valves are available on demand.
- Pneumatic, Electric Actuated valves are also available on demand.
- For Material of Construction, Refer Material Chart in Page 2.

1PC BALL VALVE, CLASS-150#						
ALL DIMENSIONS ARE IN MM						
SIZE	ØD	SW	BSPT-F	NPT-F	L	H
15	11.5	22.1	14	14	62.5	48.3
20	17.3	27.5	14	14	71.8	57.2
25	24	34.2	11	11.5	80.5	57.8
32	30.2	42.5	11	11.5	90.5	72.5
40	39	49.2	11	11.5	102.3	86
50	49	61.4	11	11.5	119	94.5
65	64	72.3	11	11.5	136.2	125
80	78	90.2	11	8	151	135

BUTTERFLY VALVE - WAFER TYPE, LEVER/GEAR OPERATED

TECHNICAL DATA	
DESIGN & MANUFACTURING STANDARD	BS 5155 / API 609
TESTING STANDARD	API 598 / BS 6755
END CONNECTION	WAFER TYPE TO SUIT ASA 150# FLANGES
FACE TO FACE STANDARD	BS 2080
PRESSURE RATING	PN-10/16

TEST PRESSURE (Bar) TO API 598		
PN-10	SHELL TEST	15
	SEAT TEST	10
PN-16	SHELL TEST	24
	SEAT TEST	16



ALL DIMENSIONS ARE IN MM							
SIZE	40	50	65	80	100	125	150
A	33	43	46	46	52	56	56
B	54.5	58	67.5	74.5	94.5	108	120
C	102.5	114	122	129	146	158	174
ØD	40	50	65	80	100	125	150
L	185	235	235	235	235	265	265
							340

ALTERSOL Offers Butterfly Valves are meticulously designed & provided with replaceable Or integral moulded elastomer body seat are designed for longer life & trouble free performance. The integrally seat performance completely isolates & ensures perfect resistance against friction between the disc & sleeve. It also ensures replacement during maintenance & reuse of body.

ALL DIMENSIONS ARE IN MM						
SIZE	250	300	350	400	450	500
A	68	78	78	102	114	127
B	215	250	255	310	330	360
C	245	275	G.O.	G.O.	G.O.	G.O.
ØD	248	302	350	400	450	500
L	375	375	G.O.	G.O.	G.O.	G.O.

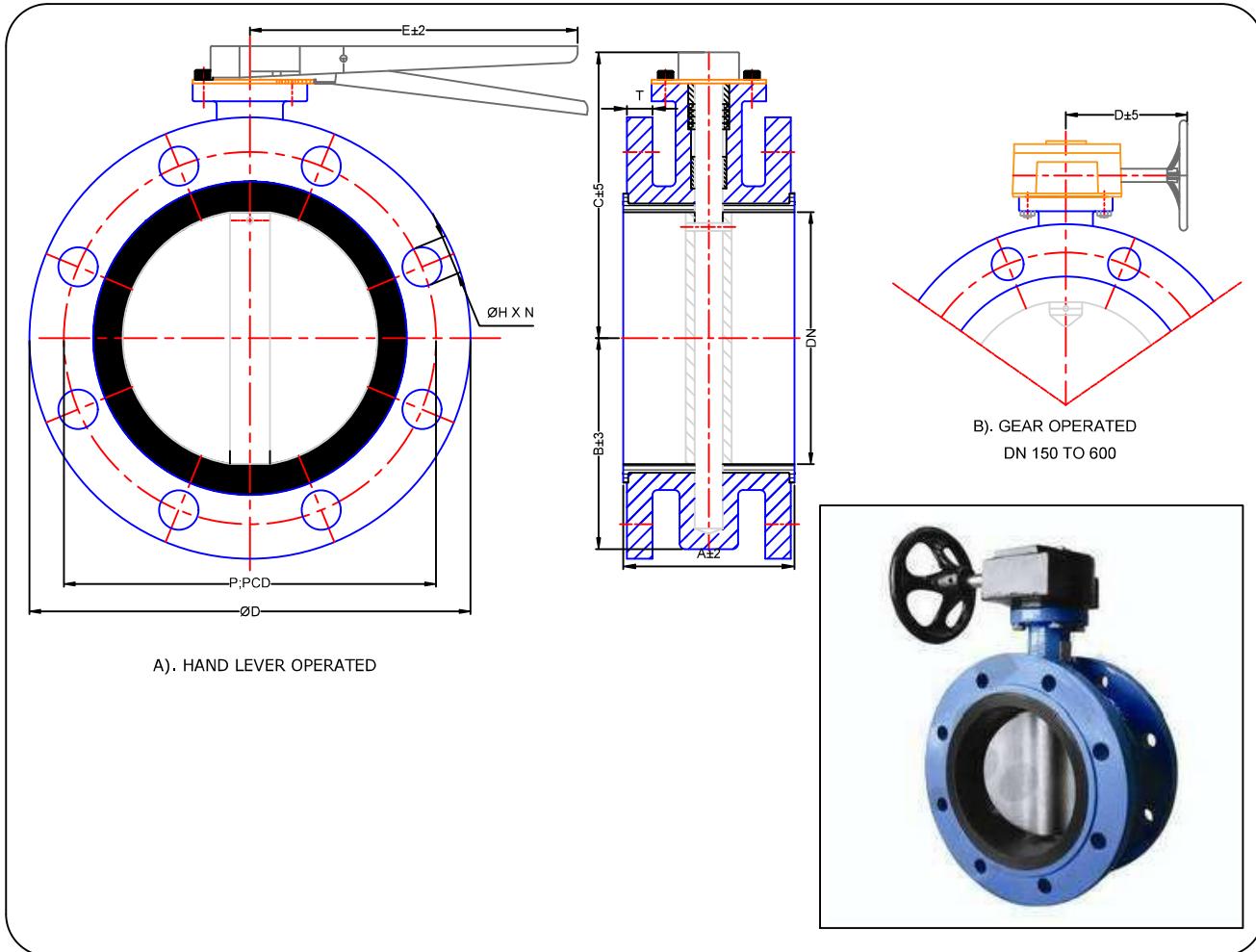
GENERAL NOTES:

- Higher Sized valves are available on demand.
- Pneumatic, Electric Actuated valves are also available on demand.
- Small sized valves are also available in Gear
- For Material of Construction, Refer Material Chart in Page 2.

BUTTERFLY VALVE - DOUBLE FLANGED, LEVER/GEAR OPERATED

TECHNICAL DATA	
DESIGN & MANUFACTURING STANDARD	BS 5155 / API 609
TESTING STANDARD	API 598 / BS 6755
END CONNECTION	FLANGED AS PER ASME B16.5, CLASS-150#
FACE TO FACE STANDARD	AS PER ASME B16.10
PRESSURE RATING	PN-10/16

TEST PRESSURE (Bar) TO API 598		
PN-10	SHELL TEST	15
	SEAT TEST	10
PN-16	SHELL TEST	24
	SEAT TEST	16



ALL DIMENSIONS ARE IN MM											
SIZE	50	100	150	200	250	300	350	400	450	500	600
A	108	127	140	152	165	178	190	216	222	229	267
B	65	100	135	165	200	230	255	310	330	360	425
C	140	175	200	300	350	365	355	470	555	650	700
ØD	152	216	280	280	405	485	535	595	635	700	815
E	180	220	265	265	G.O.	G.O.	G.O.	G.O.	G.O.	G.O.	G.O.
ØH	19	19	22.2	25.4	25.4	25.4	28	28	32	32	35
N	4	8	8	8	12	12	12	16	16	20	20
P;PCD	120.6	190.5	241.3	298.5	362	431.8	476.3	539.8	577.9	635	749.3
T	16	24	25.4	28.5	31	33	36	37	40	44	48

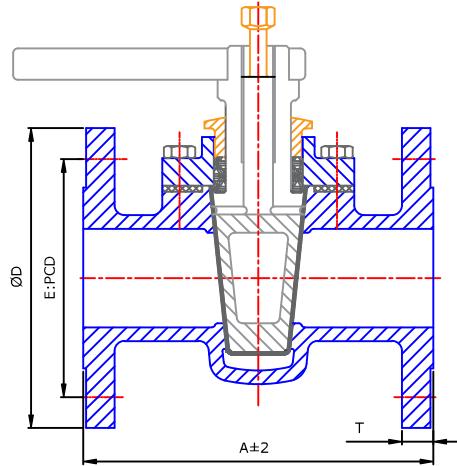
GENERAL NOTES:

1. Higher Sized & Classed valves are available on demand.
2. Pneumatic, Electric Actuated valves are also available on demand.
3. Triple-Offset Designs are available on higher sized valves.
4. For Material of Construction, Refer Material Chart in Page 2.

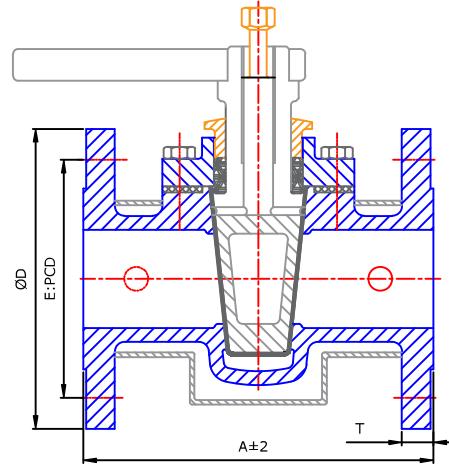
TECHNICAL DATA	
DESIGN & MANUFACTURING STANDARD	BS 5353 / MSS SP 78
TESTING STANDARD	BS 6755 - 1
END CONNECTION	FLANGED AS PER ASME B16.5 - 150# RF
FACE TO FACE STANDARD	BS 2080
PRESSURE RATING	CLASS - 150#

TEST PRESSURE (bar) TO BS 6755 - 1

CLASS - 150#	SHELL TEST	22
	SEAT TEST	16



A). NON JACKETED



A). FULL JACKETED



PLUG VALVE - NON JACKETED				
ALL DIMENSIONS ARE IN MM				
SIZE	A	ØD	E-PCD	T
15	121	90	60	11
25	140	108	79	11
40	165	127	98	14
50	178	152	121	16
65	190	178	140	17
80	203	191	152	19
100	229	229	191	24
150	267	279	241	25

ALTERSOL Offers Plug Valve in Jacketed & without Jacketed as per BS 5353 Or MSS SP 78 Standardization & End Connections suitable for ASME B16.5 / 16.25, BS 4504: Section-3. 2, BS 10 Table D / E. The Range is starts from 15NB through 150NB Or Higher as required and pressure class from 150# through Class-300#.

PLUG VALVE - FULL JACKETED				
ALL DIMENSIONS ARE IN MM				
SIZE	A	ØD	E-PCD	T
25 X 50	141	152	121	11
50 X 80	178	191	152	16
65 X 100	190	229	191	17
80 X 100	203	229	191	19
100 X 150	229	279	241	24
150 X 200	267	343	298	24

GENERAL NOTES:

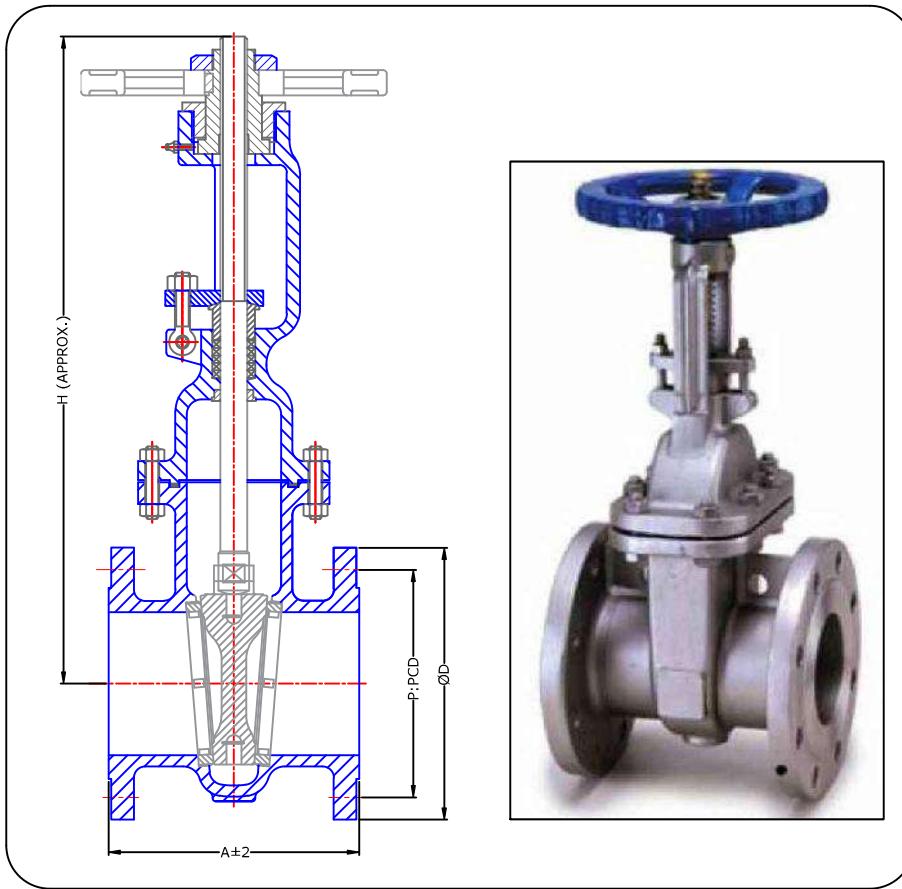
1. Higher Sized valves are available on demand.
2. CLASS-300# Rated valves are available on demand.
3. Forged Steel Valves are available from $\frac{1}{2}$ " to $\frac{3}{4}$ " in fabricated flanges, butt weld, socket weld & screwed ends.
4. Self Lubricating Valves are available on demand.

GATE VALVE

 **FLOWMAX**
TECHNICALLY SERVE EXCELLENCE

TECHNICAL DATA	
DESIGN & MANUFACTURING STANDARD	API 600
TESTING STANDARD	API 598
END CONNECTION	FLANGED AS PER ASME B16.5 150# / 300# RF
FACE TO FACE STANDARD	API 600
PRESSURE RATING	CLASS - 150# / 300#

TEST PRESSURE (bar) TO API 598		
CLASS-150#	SHELL TEST	30
	SEAT TEST	21
CLASS-300#	SHELL TEST	77
	SEAT TEST	57



ALTERSOL Gate Valves confirm to API 600 and 6D provided with smooth machined full bore. Full opening of wedge eliminates additional pressure drop across the valve. Long screwed-in replaceable seat rings ensure perfect tightness for a longer period of service. In case of high temperature and high pressure valves seat rings are either integral with body or seal-welded for maximum perfection and safety.

ALTERSOL Gate Valves are provided with properly machined and lapped backseat to facilitate replacing of gland packing in stream while fully open. Availability of solid wedge, flexible wedge, split wedge and parallel wedge designs offer maximum option to clients for suitable selection.

GENERAL NOTES:

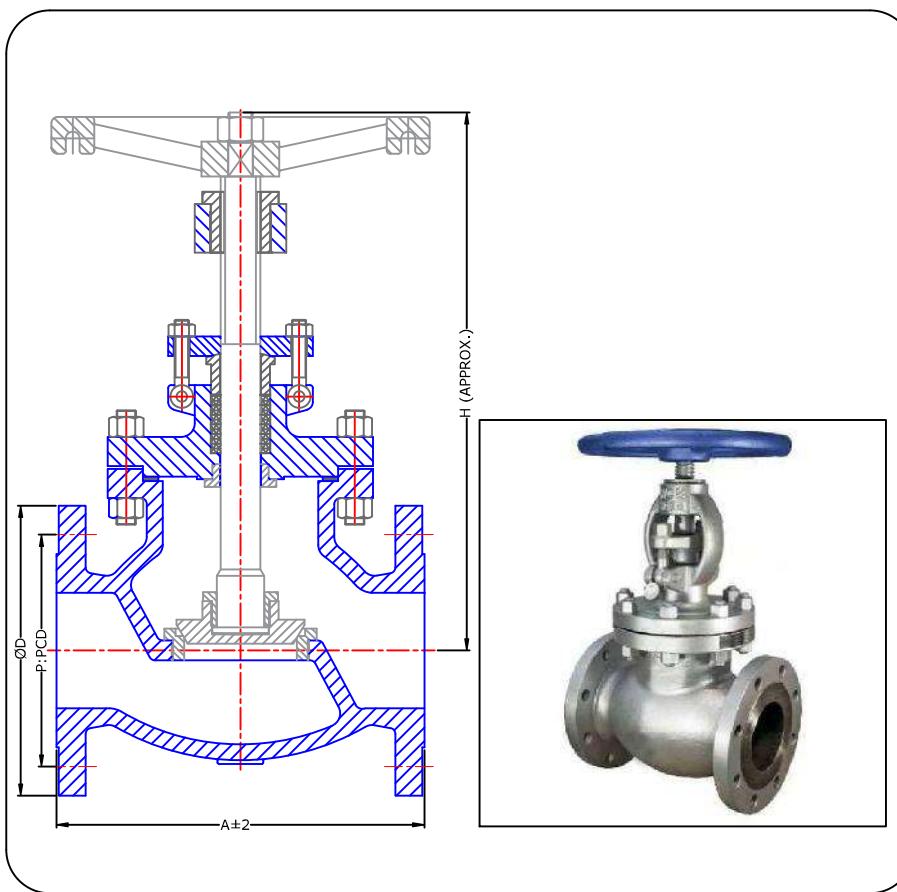
- Higher Sized valves are available on demand.
- Available with varied operation options like Hand Wheel, Manual Gear and Electric Actuator.
- Sizes up to 40NB shall be available in Forged with various End Connections like Screwed, Socket Weld & Fabricated Flanges as per B16.5.
- For Material of Construction, Refer Material Chart in Page 3.

CLASS-150#				
ALL DIMENSIONS ARE IN MM				
SIZE	A	ØD	P:PCD	H
15	108	88.9	60.5	260
20	117.5	98.6	69.9	265
25	127	108	79.3	275
40	165.1	127	98.5	364
50	177.8	152.4	120.7	410
65	190.5	177.8	139.7	470
80	203.2	190.5	152.4	526
100	228.6	228.6	190.5	618
125	255	254	215.9	765
150	266.7	279.4	241.3	861
200	292.1	342.9	298.5	950
250	330.2	406.4	362	1050
300	355.6	482.6	431.8	1200
350	381	533.4	476	1210
400	407	597	540	1364

CLASS-300#				
ALL DIMENSIONS ARE IN MM				
SIZE	A	ØD	P:PCD	H
15	140	95	66.7	260
20	152	115	82.6	265
25	165	125	88.9	275
40	190	155	114.3	350
50	215	165	127	390
65	241	190	149	430
80	283.2	210	168	450
100	305	254	200	525
125	380.5	279.4	235	605
150	403	318	270	750
200	420	380	330	855
250	457	445	388	950
300	502	521	451	1290
350	572	585	515	1350
400	610	647.5	572	1440

TECHNICAL DATA	
DESIGN & MANUFACTURING STANDARD	BS 1873
TESTING STANDARD	BS 6755 PART 1 / API 598
END CONNECTION	FLANGED AS PER ASME B16.5 150# / 300# RF
FACE TO FACE STANDARD	ANSI B16.10
PRESSURE RATING	CLASS - 150# / 300#

TEST PRESSURE (bar) TO API 598		
CLASS-150#	SHELL TEST	30
	SEAT TEST	21
CLASS-300#	SHELL TEST	77
	SEAT TEST	57



ALTERSOL Globe Valves are meticulously designed and provided with threaded replaceable seat having full flow area ensures smooth flow and reduce pressure drop across the valve to minimum. Weld deposited seat and high temperature packing materials are provided for superheated steam and high temperature oil and fluids to ensure trouble free service and longer life. A properly machined and lapped backseat facilities replacement of gland packing when valve is in full stream.

ALTERSOL Globe Valves are available with on-off Disc, Control Disc and Parabolic Disc Designs

GENERAL NOTES:

1. Higher Sized valves are available on demand.
2. Available with varied operation options like Hand Wheel, Manual Gear and Electric Actuator.
3. Sizes up to 40NB shall be available in Forged with various End Connections like Screwed, Socket Weld & Fabricated Flanges as per B16.5.
4. For Material of Construction, Refer Material Chart in Page 3.

CLASS-150#				
ALL DIMENSIONS ARE IN MM				
SIZE	A	ØD	P:PCD	H
15	108	90	60.5	206
20	117	100	69.8	232
25	127	110	79.2	248
40	165	125	98.5	282
50	203	150	120.6	330
65	216	180	139.7	340
80	241	190	152.4	350
100	292	230	190.5	435
125	356	254	215.9	440
150	406	280	241.3	475
200	495	345	298.5	530
250	622	405	361.9	740
300	699	485	431.8	780
350	788	535	476	815
400	864	597	540	890

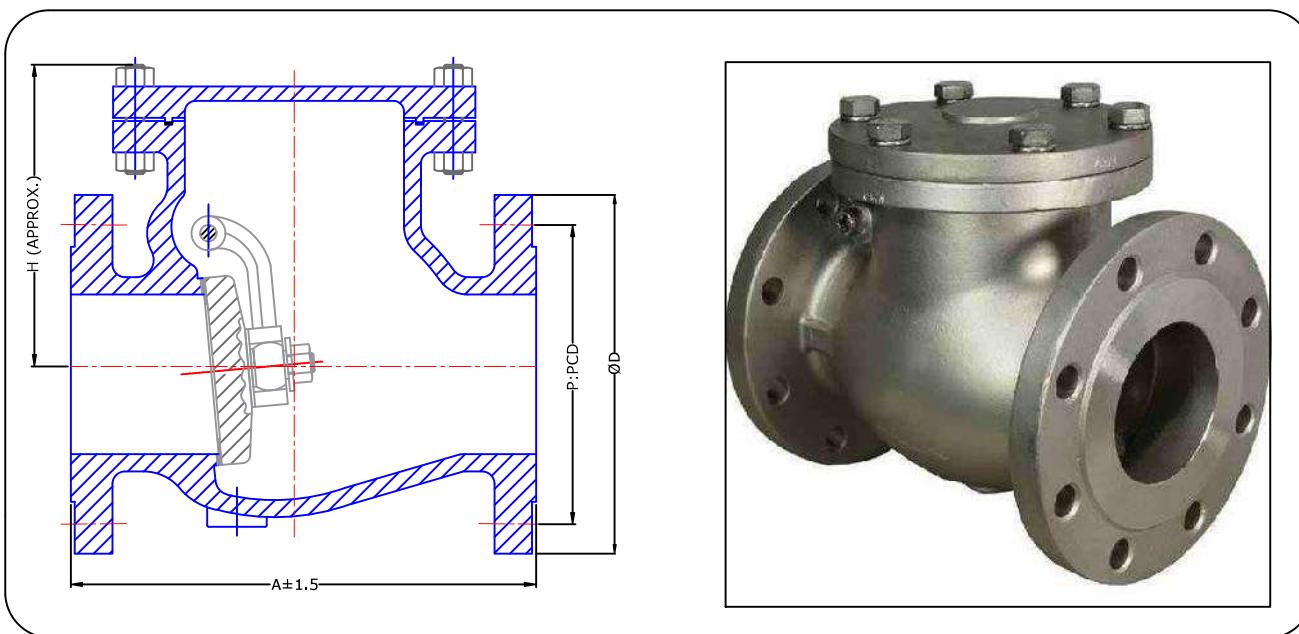
CLASS-300#				
ALL DIMENSIONS ARE IN MM				
SIZE	A	ØD	P:PCD	H
15	152	95	66.7	215
20	178	115	82.6	240
25	203	125	88.9	220
40	229	155	114.3	290
50	267	165	127	300
65	292	191	149	315
80	318	210	168	345
100	356	254	200	420
125	400	279	235	475
150	445	318	270	510
200	558	381	330	595
250	622	445	387	680
300	711	521	451	770
350	838	584	515	815
400	864	648	571	890

SWING CHECK VALVE

 **FLOWMAX**
TECHNICALLY SERVE EXCELLENCE

TECHNICAL DATA	
DESIGN & MANUFACTURING STANDARD	BS 1868 / API 6D
TESTING STANDARD	BS 6755 - 1 / API 598
END CONNECTION	FLANGED AS PER ASME B16.5 150# / 300# RF
FACE TO FACE STANDARD	ASME B16.10 / API 6D
PRESSURE RATING	CLASS - 150# / 300#

TEST PRESSURE (Kg/cm ²) TO API 598		
CLASS-150#	SHELL TEST	30
	SEAT TEST	21
CLASS-300#	SHELL TEST	77
	SEAT TEST	57



CLASS-150#				
ALL DIMENSIONS ARE IN MM				
SIZE	A	ØD	P:PCD	H
25	127	108	79.3	100
40	165.1	127	98.5	130
50	203.2	152.4	120.7	150
65	215.9	177.8	139.7	175
80	241.3	190.5	152.4	185
100	292	228.6	190.5	225
125	330	254	215.9	250
150	355.5	279.4	241.3	270
200	495.3	342.9	298.5	325
250	622.3	406.4	362	400
300	698	482.6	431.8	480
350	787	533.4	476	530
400	864	597	540	600

ALTERSOL Swing Check Valves are provided with properly guided swing disc through a hinge. The hinge and swivel disc are connected maintaining sufficient flexibility for smooth and efficient sealing. ALTERSOL Swing Check Valves are available with Metal to Metal sealing for high temperature & pressure, Soft sealing for Pneumatic & Vacuum applications. Designed to ensure full flow, efficient functions and minimum pressure drop across the valve.

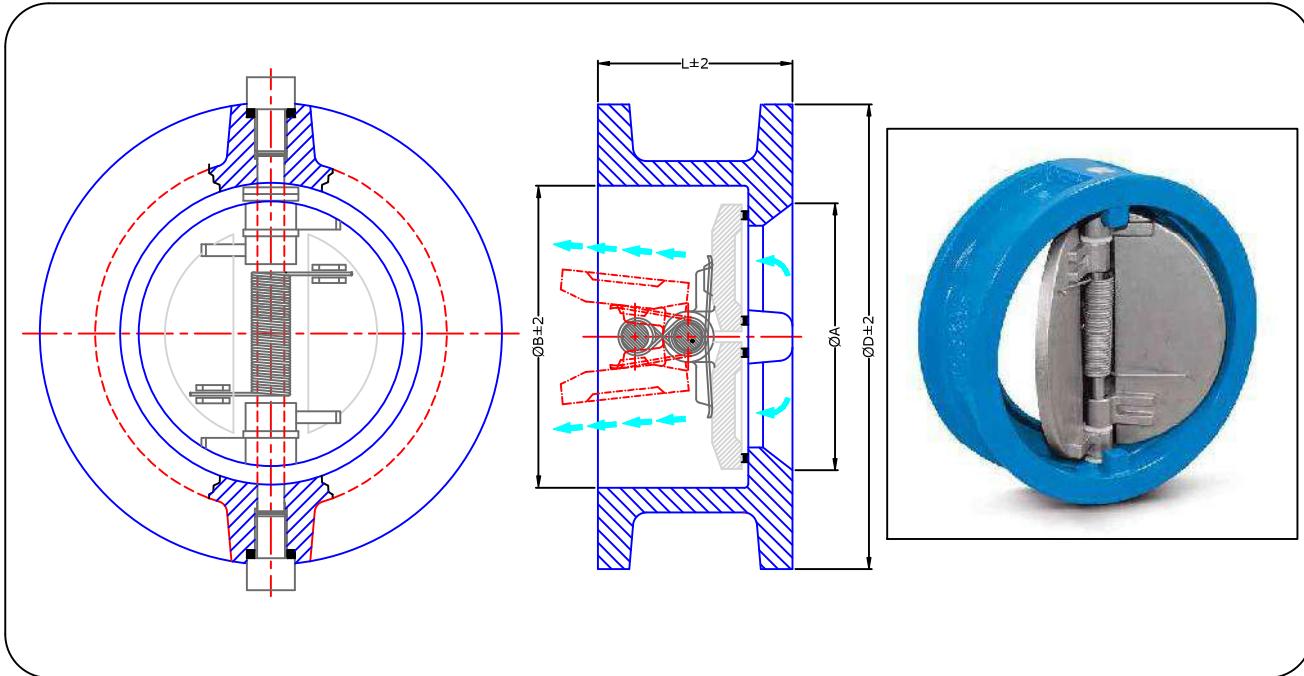
CLASS-300#				
ALL DIMENSIONS ARE IN MM				
SIZE	A	ØD	P:PCD	H
25	165	95	88.9	110
40	241	156	114.3	142
50	267	165	127	150
65	292	191	149	175
80	318	210	168	185
100	356	254	200	225
125	400	279	235	250
150	445	318	270	270
200	534	381	330	325
250	622	445	387	375
300	711	521	451	425
350	838	584	515	475
400	864	648	572	520

GENERAL NOTES:

- Higher Sized valves are available on demand.
- Sizes up to 40NB shall be available in Forged with various End Connections like Screwed, Socket Weld & Fabricated Flanges as per B16.5.
- For Material of Construction, Refer Material Chart in Page 3.

TECHNICAL DATA	
DESIGN & MANUFACTURING STANDARD	API 594
TESTING STANDARD	API 598
END CONNECTION	WAFER TO SUIT ASME B16.5, 150# / 300#
FACE TO FACE STANDARD	API 6D
PRESSURE RATING	CLASS - 150# / 300#

TEST PRESSURE (bar) TO API 598		
CLASS-150#	SHELL TEST	30
	SEAT TEST	21
CLASS-300#	SHELL TEST	77
	SEAT TEST	57



CLASS-150#				
ALL DIMENSIONS ARE IN MM				
SIZE	L	ØA	ØB	ØD
50	60	51	65	101
65	67	65	76	120
80	73	80	92	132
100	73	100	113	173
125	86	127	135	193
150	98.5	152	163	218
200	127	203	204	275
250	146	254	262	337
300	181	305	315	407

ALTERSOL Dual Plate Check Valves are designed & manufactured according to API 594 and available with Soft Sealing, Metal to Metal Sealing and totally lined wet area with Rubber of all varieties, PTFE / PFE. Dual Plate design ensures minimum pressure drop across the valve. Spring loaded disc ensures mounting of the valve in Horizontal Or Vertical direction

CLASS-300#				
ALL DIMENSIONS ARE IN MM				
SIZE	L	ØA	ØB	ØD
50	60	51	65	108
65	67	65	76	127
80	73	80	92	147
100	73	100	113	178
125	86	127	135	213
150	98.5	152	163	248
200	127	203	204	305
250	146	254	262	359
300	181	305	315	419

GENERAL NOTES:

1. Higher Sized & Classed valves are available on demand.
2. Available with Flanged Ends as well.
3. For Material of Construction, Refer Material Chart in Page 2.

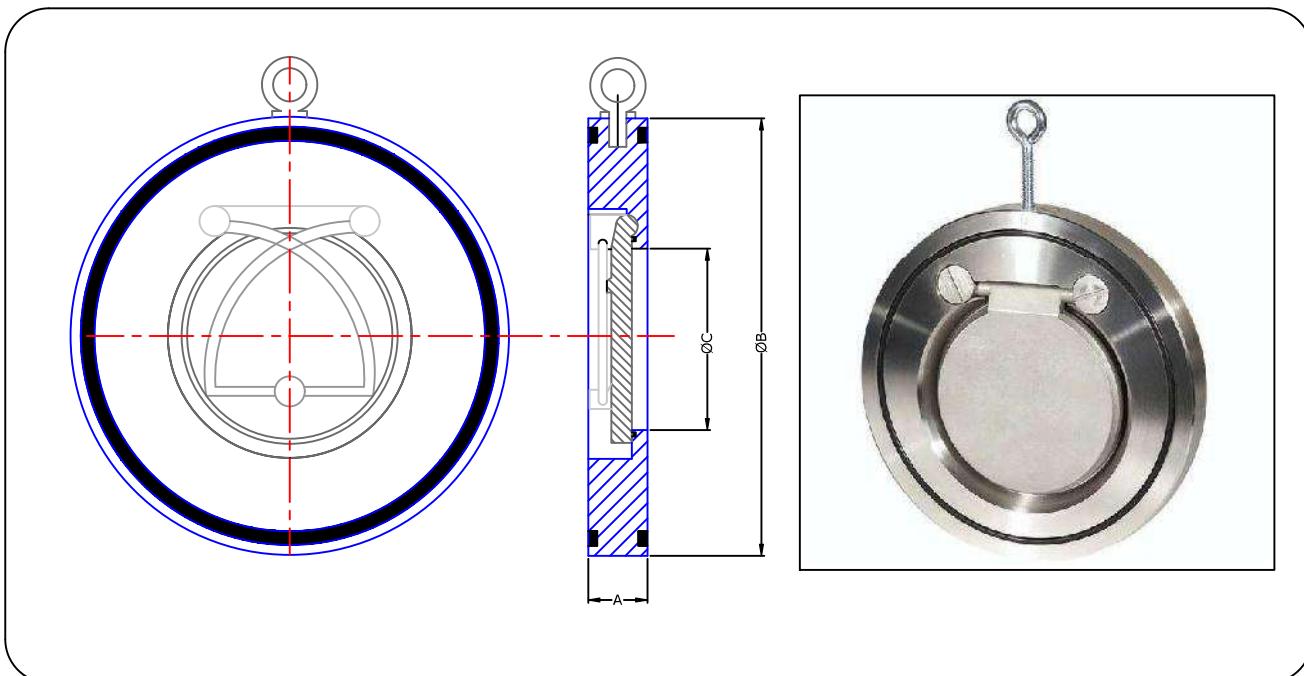
SINGLE PLATE CHECK VALVE WAFER TYPE FLOWMAX



TECHNICALLY SERVE EXCELLENCE

TECHNICAL DATA	
DESIGN & MANUFACTURING STANDARD	API 6D
TESTING STANDARD	API 598
END CONNECTION	WAFER TO SUIT ASME B16.5 / 16.25 / BS 4504
FACE TO FACE STANDARD	API 6D
PRESSURE RATING	PN-10/16

TEST PRESSURE (bar) TO API 598		
PN-10	SHELL TEST	15
	SEAT TEST	11
PN-16	SHELL TEST	24
	SEAT TEST	16



BILL OF MATERIAL					
Sr. No.	Description	Material			
1	Body	C.I. IS 210 Gr. FG200	ASTM A216 Gr. WCB	ASTM A351 Gr. CF8	ASTM A351 Gr. CF8M
		Cast Iron	Carbon Steel	S.S. 304	S.S. 316
2	Disc	ASTM A216 Gr. WCB	ASTM A216 Gr. WCB	ASTM A351 Gr. CF8	ASTM A351 Gr. CF8M
		Carbon Steel	Carbon Steel	S.S. 304	S.S. 316
3	Seat	Nitrile / EPDM / Silicon / Viton / Hypalon			

ALL DIMENSIONS ARE IN MM			
SIZE	A	ØB	ØC
50	19	109	30
65	19	129	38
80	19	144	52
100	19	164	72
125	22	194	90
150	22	220	115
200	29	275	158
250	38	330	196
300	38	380	242

GENERAL NOTES:

- Higher Sized valves are available on demand.
- PN-6/25/40 & CLASS-150#/300# Rated valves are available on demand.
- Without Spring Loaded Valves are available on demand.

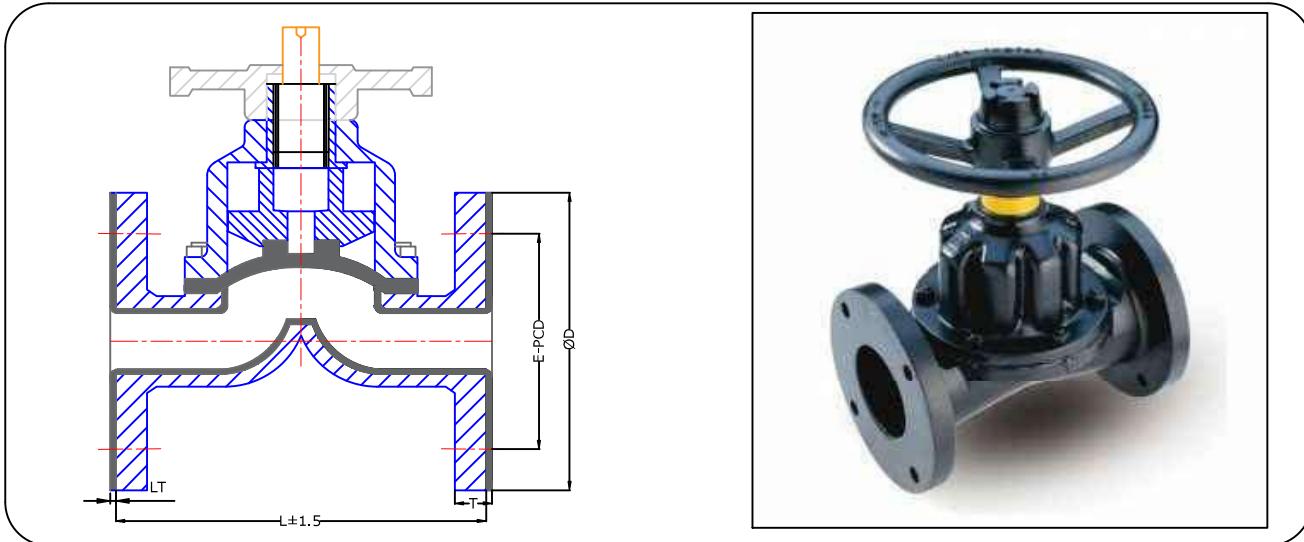
ALTERSOL Produces Wafer type Single Plate Check Valves as per API 6D Standardization & End Connections suitable for ASME B16.5 / 16.25, BS 4504: Section-3.2, BS 10 Table D / E. The Range is starts from 50NB through 300NB Or Higher as required and pressure rating from PN-6 through PN-40, Class-150# through Class-300#.

DIAPHRAGM VALVE - WEIR TYPE



TECHNICAL DATA	
DESIGN & MANUFACTURING STANDARD	BS 5156
TESTING STANDARD	API 598 / BS 6755
END CONNECTION	FLANGED AS PER ASME B16.5 - 150#
FACE TO FACE STANDARD	BS 5156
PRESSURE RATING	CLASS - 125# / 150#

TEST PRESSURE (bar) TO API 598		
CLASS-125# / 150#	SHELL TEST	14
	SEAT TEST	9.5



BILL OF MATERIAL					
Sr. No.	Description	Material			
1	Body	C.I. IS 210 Gr. FG200	ASTM A216 Gr. WCB	ASTM A351 Gr. CF8	ASTM A351 Gr. CF8M
		Cast Iron	Carbon Steel	S.S. 304	S.S. 316
2	Bonnet	Cast Iron	ASTM A216 Gr. WCB	ASTM A351 Gr. CF8	ASTM A351 Gr. CF8M
		C.I. IS 210 Gr. FG200	Carbon Steel	S.S. 304	S.S. 316
3	Stem	ASTM A240 Gr. TP202	S.S 13% Chrome.	ASTM A351 Gr. CF8	ASTM A351 Gr. CF8M
		S.S. 202	S.S. 410	S.S. 304	S.S. 316
4	Compressor	C.I. IS 210 Gr. FG200	ASTM A216 Gr. WCB	ASTM A351 Gr. CF8	ASTM A351 Gr. CF8M
		Cast Iron	Carbon Steel	S.S. 304	S.S. 316
5	Diaphragm	Nitrile / EPDM / Neoprene / PTFE Lined			

CLASS-125# / 150#					
ALL DIMENSIONS ARE IN MM					
SIZE	L	ØD	E-PCD	T	LT
15	102	89	60.6	11	3.0
20	117	98	70	12.7	3.0
25	127	108	79.2	14.2	3.0
32	146	117	88.9	15.9	3.0
40	159	127	98.5	17.5	3.0
50	190	152	120.6	19	3.0
65	216	178	139.7	22.3	3.0
80	254	190	152.4	24	4.0
100	305	229	190.5	24	4.0
125	356	254	216	24	5.0
150	406	279	241	25	5.0
200	520	343	298	29	6.0
250	635	406	362	29	6.0
300	750	483	432	32	6.0

ALTERSOL Diaphragm Valves are suitable for positive pressure & high vacuum applications. Due to wide range of material options it is suitable to handle almost all applications. Total wet area and working parts are isolated from the working media by the sustainable lining with various qualities of rubber, PTFE / PFE etc. ensures handling of high corrosive fluids.

GENERAL NOTES:

1. Straight type valves are available on demand.
2. Pneumatic & Electric Actuator operated valves are available on demand.

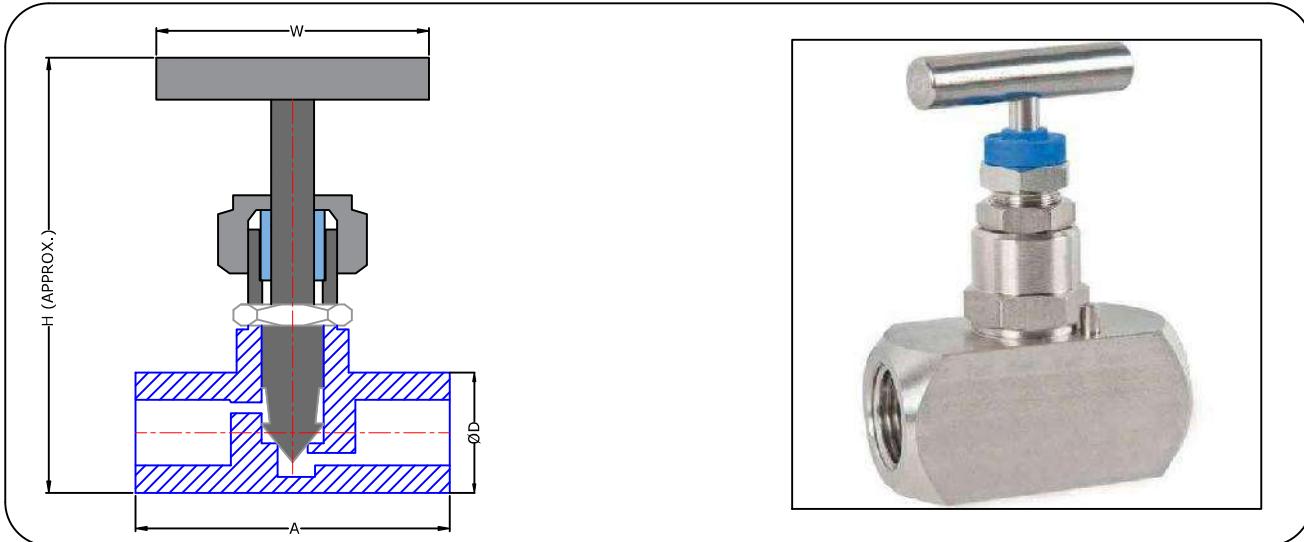
NEEDLE VALVE - 3000 / 6000 SPI


FLOWMAX
TECHNICALLY SERVE EXCELLENCE

TECHNICAL DATA	
DESIGN & MANUFACTURING STANDARD	ASME B16.34
TESTING STANDARD	API 598
END CONNECTION	FEMALE NPT AS PER ASME B16.11
FACE TO FACE STANDARD	AS PER MANUFACTURING STANDRAD
PRESSURE RATING	PSI - 3000 / 5000 / 6000 / 10000

TEST PRESSURE (bar) TO API 598

3000 PSI	TEST	207
5000 PSI	TEST	345
6000 PSI	TEST	415
10000 PSI	TEST	690



BILL OF MATERIAL				
Sr. No.	Description	Material		
1	Body	ASTM A216 Gr. WCB	ASTM A240 Gr. TP202	ASTM A351 Gr. CF8
		Carbon Steel	S.S. 202	S.S. 304
2	Bonnet	ASTM A216 Gr. WCB	ASTM A240 Gr. TP202	ASTM A351 Gr. CF8
		Carbon Steel	S.S. 202	S.S. 304
3	Spindle	ASTM A351 Gr. CF8	ASTM A351 Gr. CF8	ASTM A351 Gr. CF8
		S.S. 304	S.S. 304	S.S. 304
4	Gland	ASTM A351 Gr. CF8	ASTM A351 Gr. CF8	ASTM A351 Gr. CF8
		S.S. 304	S.S. 304	S.S. 304
5	Packing	PTFE / AISI 304 / AISI 316		

PSI - 3000 / 5000				
ALL DIMENSIONS ARE IN MM				
SIZE	A	ØD	W	H
6	54	28	45	90
10	54	28	45	90
15	66	30	50	95
20	72	38	60	120
25	77	42	60	125

PSI - 6000 / 10000				
ALL DIMENSIONS ARE IN MM				
SIZE	A	ØD	W	H
6	65	30	55	115
10	65	30	60	118
15	70	32	60	118
20	75	39	60	128
25	75	44	70	140
32	91	53	70	150

ALTERSOL offers Needle Valves for start, stop, regulation of flow & shutoff applications with the smooth effort on key and suitable for various application media like air, water, oil & gas. Needle Valves are available in different pressure ratings up to 10000 PSI and suitable for Service Temperature from 200°C to 360°C

GENERAL NOTES:

- Available with different MOCs like Forged Carbon Steel, Forged Stainless Steel.
- Body available in both Round Bar and Square type shapes.

STRAINER 'Y' TYPE

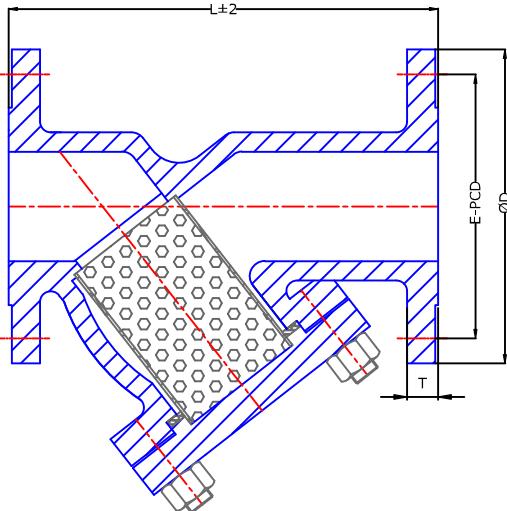


FLOWMAX
TECHNICALLY SERVE EXCELLENCE

TECHNICAL DATA	
DESIGN & MANUFACTURING STANDARD	ANSI B16.34
TESTING STANDARD	API 598
END CONNECTION	FLANGED AS PER ASME B16.5 - 150# / 300# RF
FACE TO FACE STANDARD	ANSI B16.10
PRESSURE RATING	CLASS - 150# / 300#

TEST PRESSURE (bar) TO BS 6755 - 1

CLASS - 150#	SHELL TEST	31
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BILL OF MATERIAL

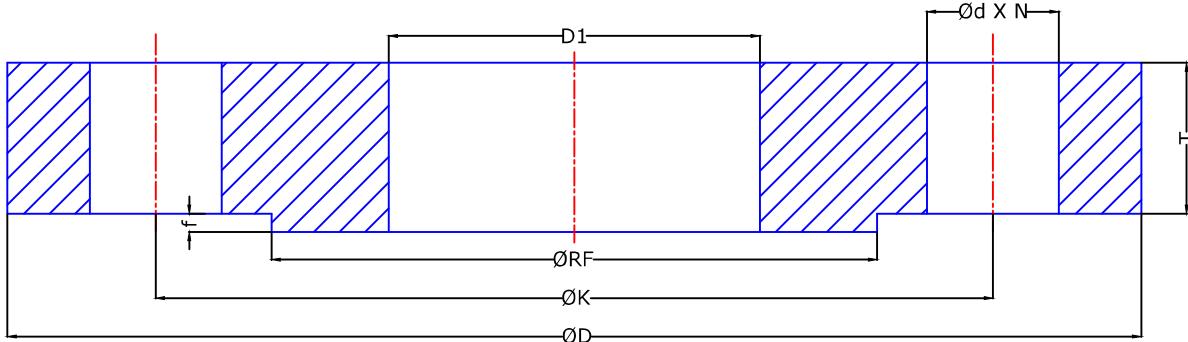
Sr. No.	Description	Material			
1	Body	C.I. IS 210 Gr. FG200	ASTM A216 Gr. WCB	ASTM A351 Gr. CF8	ASTM A351 Gr. CF8M
		Cast Iron	Carbon Steel	S.S. 304	S.S. 316
2	Screen	ASTM A240 Gr. TP202	ASTM A240 Gr. TP202	ASTM A351 Gr. CF8	ASTM A351 Gr. CF8M
		S.S. 202	S.S. 202	S.S. 304	S.S. 316
3	Gasket	Nitrile / EPDM / Graphite Filled SS			
4	Blind Flange	M.S. / C.S. / S.S. 202			

CLASS-150#				
ALL DIMENSIONS ARE IN MM				
SIZE	L	ØD	E-PCD	T
25	127	108	79	12
40	165	127	98.5	14.5
50	203	152	120.6	16
65	216	178	140	17.5
80	241	191	152	19.1
100	292	229	191	24
125	330	252.4	216	24
150	356	279.5	241.3	25.4
200	495	343	298.5	28.5
250	622	406.5	362	30.2
300	698	483	432	32
350	787	533.5	476	35
400	864	597	540	36.5
450	978	635	578	40
500	978	698.5	635	43
600	1295	813	749.3	47.5

ALTERSOL Offers Strainers - 'Y'
Type as per B16.34 & End
Connections suitable for ASME
B16.5 / 16.25, BS 4504: Section-3.
2, BS 10 Table D / E.
The Range is starts from 25NB
through 600NB Or Higher as
required and pressure class from
150# through Class-300#.

GENERAL NOTES:

- Higher Sized valves are available on demand.
- Flange Drilling as per BS - 10 Table D, Table E are considerable on request



CLASS - 150#								
SIZE	ØD	ØK	ØRF	D1	T	f	Ød	N
15	90	60.3	34.9	21.3	8	2	5/8"	4
20	100	69.9	42.9	26.6	8.9	2	5/8"	4
25	110	79.4	50.8	33.4	9.6	2	5/8"	4
32	115	88.9	63.5	42.14	11.2	2	5/8"	4
40	125	98.4	73	48.26	12.7	2	5/8"	4
50	150	120.7	92.1	60.3	14.3	2	3/4"	4
65	180	139.7	104.8	73	15.9	2	3/4"	4
80	190	152.4	127	88.9	17.5	2	3/4"	4
100	230	190.5	157.2	114.3	22.3	2	3/4"	8
125	255	215.9	185.7	141.3	23.9	2	7/8"	8
150	280	241.3	215.9	168.3	27	2	7/8"	8
200	345	298.5	269.9	219	28.6	2	7/8"	8
250	405	362	323.8	273.1	30.2	2	1"	12
300	485	431.8	381	323.9	33.4	2	1"	12
350	535	476.3	412.8	355.6	35	2	1-1/8"	12
400	595	539.8	469.9	406.4	38.1	2	1-1/8"	16

CLASS - 300#								
SIZE	ØD	ØK	ØRF	D1	T	f	Ød	N
15	95	66.7	34.9	21.3	12.7	2	5/8"	4
20	115	82.6	42.9	26.6	14.3	2	3/4"	4
25	125	88.9	50.8	33.4	15.9	2	3/4"	4
32	135	98.4	63.5	42.14	17.5	2	3/4"	4
40	155	114.3	73	48.26	19.1	2	7/8"	4
50	165	127	92.1	60.3	20.7	2	7/8"	8
65	190	149.2	104.8	73	23.9	2	7/8"	8
80	210	168.3	127	88.9	27	2	7/8"	8
100	255	200	157.2	114.3	30.2	2	7/8"	8
125	280	235	185.7	141.3	33.4	2	7/8"	8
150	320	269.9	215.9	168.3	35	2	7/8"	12
200	380	330.2	269.9	219	39.7	2	1"	12
250	445	387.4	323.8	273.1	46.1	2	1-1/8"	16
300	520	450.8	381	323.9	49.1	2	1-1/4"	16
350	585	514.4	412.8	355.6	52.4	2	1-1/4"	20
400	650	571.5	469.9	406.4	55.6	2	1-3/8"	20

CLASS - 600#								
SIZE	ØD	ØK	ØRF	D1	T	f	Ød	N
15	95	66.7	34.9	21.3	14.3	7	5/8"	4
20	115	82.6	42.9	26.6	15.9	7	3/4"	4
25	125	88.9	50.8	33.4	17.5	7	3/4"	4
32	135	98.4	63.5	42.14	20.7	7	3/4"	4
40	155	114.3	73	48.26	22.3	7	7/8"	4
50	165	127	92.1	60.3	25.4	7	7/8"	8
65	190	149.2	104.8	73	28.6	7	7/8"	8
80	210	168.3	127	88.9	31.8	7	7/8"	8
100	275	215.9	157.2	114.3	38.1	7	1"	8
125	330	266.7	185.7	141.3	44.5	7	1-1/8"	8
150	355	292.1	215.9	168.3	47.7	7	1-1/8"	12
200	420	349.2	269.9	219	55.6	7	1-1/4"	12
250	510	431.8	323.8	273.1	63.5	7	1-3/8"	16
300	560	489	381	323.9	66.7	7	1-3/8"	16
350	605	527	412.8	355.6	69.9	7	1-1/2"	20
400	685	603.2	469.9	406.4	76.2	7	1-5/8"	20

CLASS - 900#								
SIZE	ØD	ØK	ØRF	D1	T	f	Ød	N
15	120	82.6	34.9	21.3	22.3	7	7/8"	4
20	130	88.9	42.9	26.6	25.4	7	7/8"	4
25	150	101.6	50.8	33.4	28.6	7	1"	4
32	160	111.1	63.5	42.14	28.6	7	1"	4
40	180	123.8	73	48.26	31.8	7	1-1/8"	4
50	215	165.1	92.1	60.3	38.1	7	1"	8
65	245	190.5	104.8	73	41.3	7	1-1/8"	8
80	240	190.5	127	88.9	38.1	7	1"	8
100	290	235	157.2	114.3	44.5	7	1-1/4"	8
125	350	279.4	185.7	141.3	50.8	7	1-3/8"	8
150	380	317.5	215.9	168.3	55.6	7	1-1/4"	12
200	470	393.7	269.9	219	63.5	7	1-1/2"	12
250	545	469.9	323.8	273.1	69.9	7	1-1/2"	16
300	610	533.4	381	323.9	79.4	7	1-1/2"	20
350	640	558.8	412.8	355.6	85.8	7	1-5/8"	20
400	705	616	469.9	406.4	88.9	7	1-3/4"	20

CLASS - 1500#								
SIZE	ØD	ØK	ØRF	D1	T	f	Ød	N
15	120	82.6	34.9	21.3	22.3	7	7/8"	4
20	130	88.9	42.9	26.6	25.4	7	7/8"	4
25	150	101.6	50.8	33.4	28.6	7	1"	4
32	160	111.1	63.5	42.14	28.6	7	1"	4
40	180	123.8	73	48.26	31.8	7	1-1/8"	4
50	215	165.1	92.1	60.3	38.1	7	1"	8
65	245	190.5	104.8	73	41.3	7	1-1/8"	8
80	265	203.2	127	88.9	47.7	7	1-1/4"	8
100	310	241.3	157.2	114.3	54	7	1-3/8"	8
125	375	292.1	185.7	141.3	73.1	7	1-5/8"	8
150	395	317.5	215.9	168.3	82.6	7	1-1/2"	12
200	485	393.7	269.9	219	92.1	7	1-3/4"	12
250	585	482.6	323.8	273.1	108	7	2"	12
300	675	571.5	381	323.9	123.9	7	2-1/8"	16
350	750	635	412.8	355.6	133.4	7	2-3/8"	16
400	825	704.8	469.9	406.4	146.1	7	2-5/8"	16

CLASS - 2500#								
SIZE	ØD	ØK	ØRF	D1	T	f	Ød	N
15	135	88.9	34.9	21.3	30.2	7	7/8"	4
20	140	95.2	42.9	26.6	31.8	7	7/8"	4
25	160	108	50.8	33.4	35	7	1"	4
32	185	130.2	63.5	42.14	38.1	7	1-1/8"	4
40	205	146	73	48.26	44.5	7	1-1/4"	4
50	235	171.4	92.1	60.3	50.9	7	1-1/8"	8
65	265	196.8	104.8	73	57.2	7	1-1/4"	8
80	305	228.6	127	88.9	66.7	7	1-3/8"	8
100	355	273	157.2	114.3	76.2	7	1-5/8"	8
125	420	323.8	185.7	141.3	92.1	7	1-7/8"	8
150	485	368.3	215.9	168.3	108	7	2-1/8"	8
200	550	438.2	269.9	219	127	7	2-1/8"	12
250	675	539.8	323.8	273.1	165.1	7	2-5/8"	12
300	760	619.1	381	323.9	184.2	7	2-7/8"	12
350	-	-	-	355.6	-	7	-	-
400	-	-	-	406.4	-	7	-	-

"To be Develop Better Operating Efficiency, Cost Effective Methods & Quality"



FLOWMAX
TECHNICALLY SERVE EXCELLENCE

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