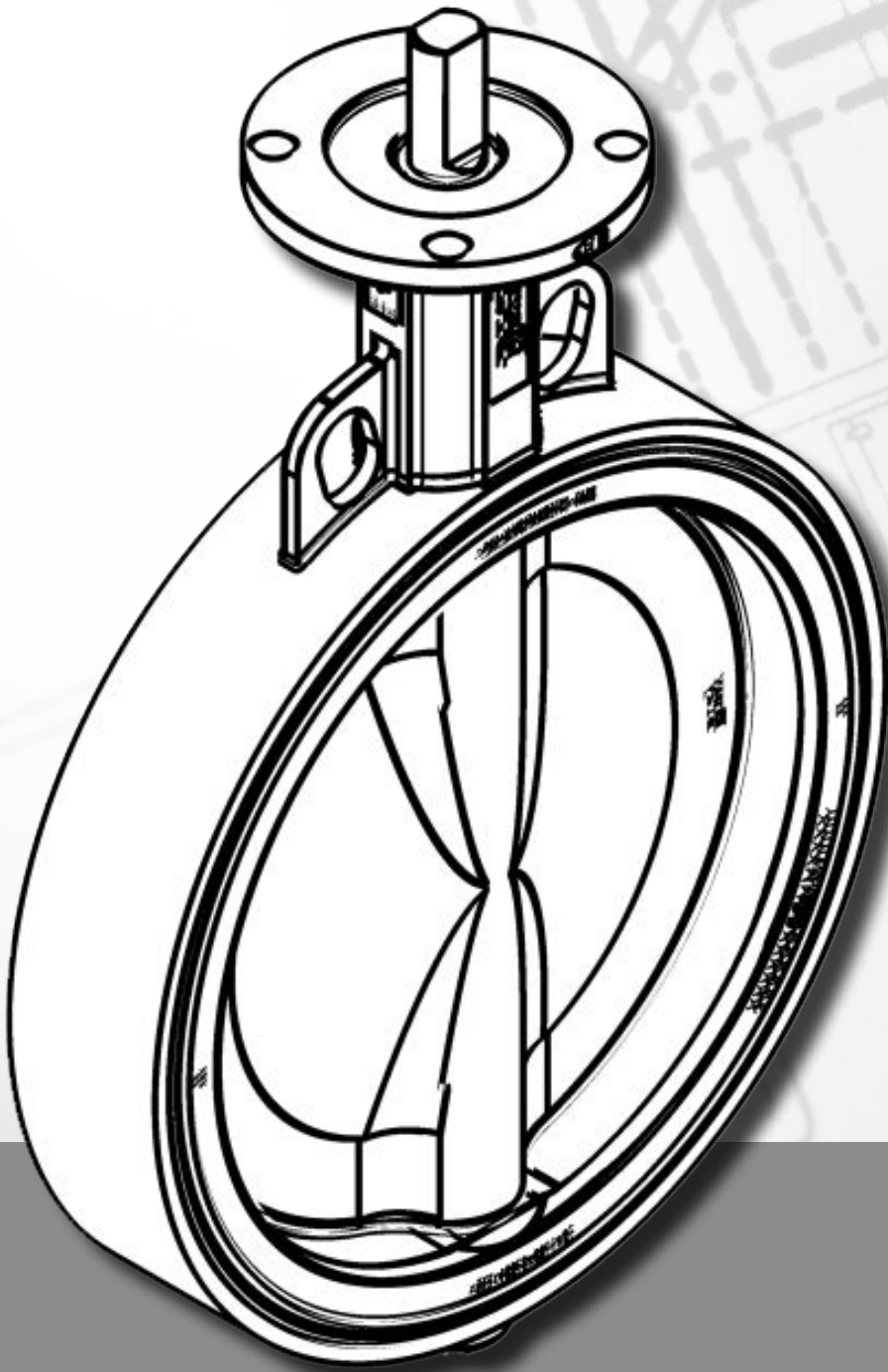


RESILIENT SEATED BUTTERFLY VALVES
SALES REFERENCE DRAWINGS



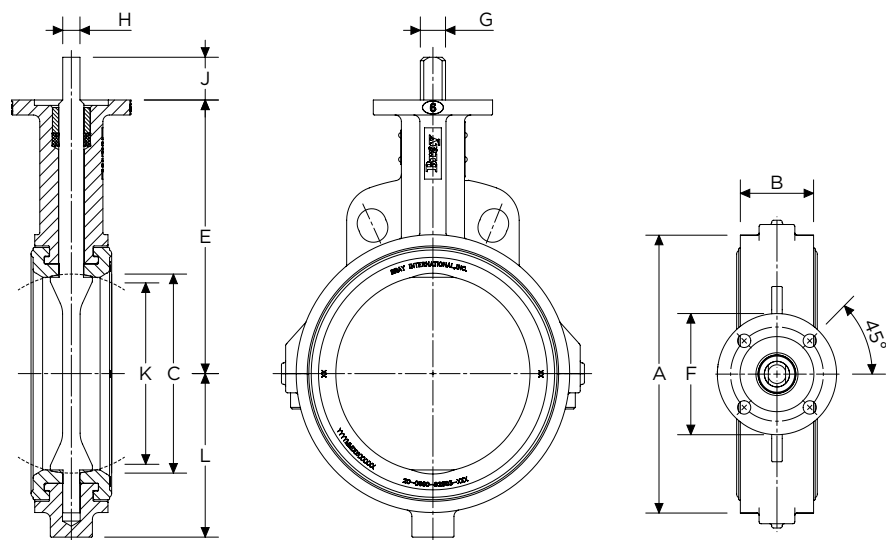
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THE HIGH PERFORMANCE COMPANY

SERIES	TYPE	SIZE RANGE	FLANGE ACCOMODATION
Series 20	Wafer	DN25 - 300	PN 6/10/16
Series 20	Wafer	DN350 - 500	PN 6/10/16
Series 21	Lug	DN25 - 300	PN 10/16
Series 21	Lug	DN350 - 500	PN 10/16
Series 22	Wafer	DN50 - 300	PN 10/16
Series 22	Wafer	DN350 - 500	PN 10/16
Series 23	Lug	DN50 - 300	PN 10/16
Series 23	Lug	DN350 - 600	PN 10/16

SERIES	TYPE	SIZE RANGE	FLANGE ACCOMODATION
Series 30	Wafer	DN50 - 300	PN 6/10/16
Series 30	Wafer	DN350 - 500	PN 10/16
Series 31/31H	Lug	DN50 - 300	PN 10/16
Series 31/31H	Lug	DN350 - 500	PN 10/16
Series 31U	Lug	DN50 - 300	PN 10/16/25/40
Series 31U	Lug	2" - 12"	PN 10/16/25/40
Series 31U	Lug	DN50 - 300	ASME Class 150
Series 31U	Lug	2" - 12"	ASME Class 150
Series 32	Wafer	DN600 - 900	PN 6/10/16
Series 33	Lug	DN600 - 900	PN 6/10/16
Series 35	Double Flange	DN600 - 3000	PN 10/16
Series 36/36H	Double Flange	DN600 - 3000	PN 10/16
Series 3A/H	Double Flange	DN50 - 600	PN 10/16


SIDE VIEW
FRONT VIEW
TOP VIEW
FLANGE ACCOMMODATION

DN	PN 6			PN 10			PN 16		
	Bolt Circle Ø	No of Holes	Threads	Bolt Circle Ø	No of Holes	Threads	Bolt Circle Ø	No of Holes	Threads
25	75	4	M10	85	4	M12	85	4	M12
32	90	4	M12	100	4	M16	100	4	M16
40	100	4	M12	110	4	M16	110	4	M16
50	110	4	M12	125	4	M16	125	4	M16
65	130	4	M12	145	4	M16	145	4	M16
80	150	4	M16	160	8	M16	160	8	M16
100	170	4	M16	180	8	M16	180	8	M16
125	200	8	M16	210	8	M16	210	8	M16
150	225	8	M16	240	8	M20	240	8	M20
200	280	8	M16	295	8	M20	295	12	M20
250	335	12	M16	350	12	M20	355	12	M24
300	395	12	M20	400	12	M20	410	12	M24

Above information according to EN 1092.
Contact factory for individual bolt information.

DIMENSIONS [MM]

DN	A	B	Ø C	E	Ø F	ISO	Top Plate Drilling			Ø G	H	J	K	L	Weight (Kg)
							Bolt circle Ø	No of Holes	Hole Ø						
25	60	30	30	90	65	F05	50	4	7.0	10	8	25	11	41	1.0
32	80	32	30	105	65	F05	50	4	7.0	10	8	25	35	51	1.5
40	80	32	45	105	65	F05	50	4	7.0	10	8	25	35	54	1.5
50	94	43	51	140	90	F07	70	4	10.0	14	10	32	31	56	2.5
65	106	46	64	152	90	F07	70	4	10.0	14	10	32	47	63	3.0
80	124	46	76	159	90	F07	70	4	10.0	14	10	32	63	71	3.5
100	154	52	102	178	90	F07	70	4	10.0	16	11	32	90	90	5.0
125	181	56	127	190	90	F07	70	4	10.0	19	13	32	116	109	6.5
150	206	56	146	203	90	F07	70	4	10.0	19	13	32	137	121	8.0
200	267	60	197	241	150	F12	125	4	14.0	22	16	32	190	153	14.5
250	324	68	248	273	150	F12	125	4	14.0	30	22	51	240	188	21.5
300	378	78	298	311	150	F12	125	4	14.0	30	22	51	290	214	31.0

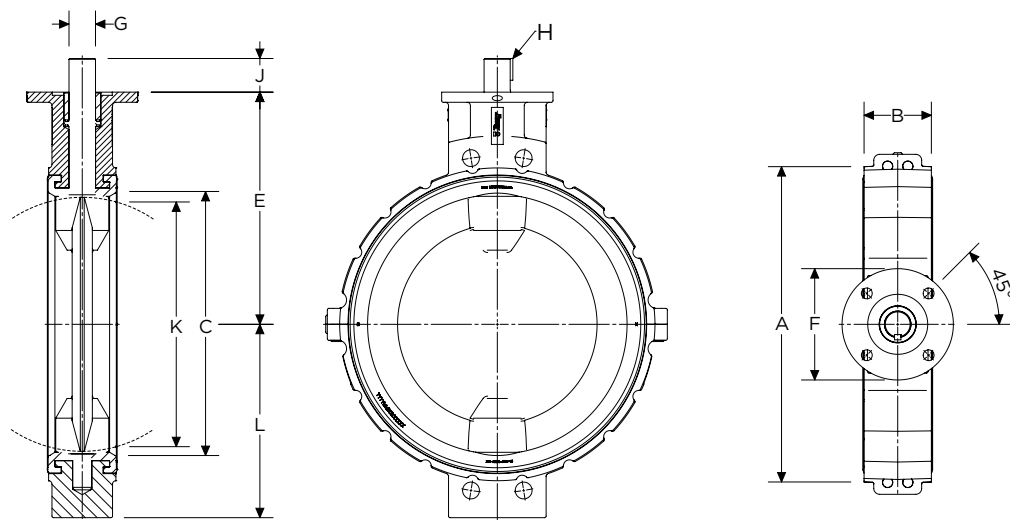
Note:

K is disc chordal dimension at face of valve.

Above drawing shows a Series 20 size DN150

Drawings are for reference only.

The right to change or modify product design or product without prior notice is reserved.


SIDE VIEW
FRONT VIEW
TOP VIEW
FLANGE ACCOMMODATION

DN	PN 6			PN 10			PN 16		
	Bolt Circle Ø	No of Holes	Threads	Bolt Circle Ø	No of Holes	Threads	Bolt Circle Ø	No of Holes	Threads
350	445	12	M20	460	16	M20	470	16	M24
400	495	16	M20	515	16	M24	525	16	M27
450	Consult Factory			565	20	M24	585	20	M27
500				620	20	M24	650	20	M30

Above information according to EN 1092.
Contact factory for individual bolt information.

DIMENSIONS [MM]

DN	A	B	Ø C	E	Ø F	Top Plate Drilling				Ø G	H Key Size [mm]	J	K	L	Weight (Kg)
						ISO	Bolt circle Ø	No of Holes	Hole Ø						
350	433	78	337	346	150	F12	125	4	14.0	35	10x10	51	331	238	44.0
400	488	102	387	375	150	F12	125	4	14.0	35	10x10	51	377	273	61.0
450	536	114	438	406	210	F16	165	4	20.0	50	10x12	64	428	305	92.0
500	591	127	489	438	210	F16	165	4	20.0	50	10x12	64	476	348	120.0

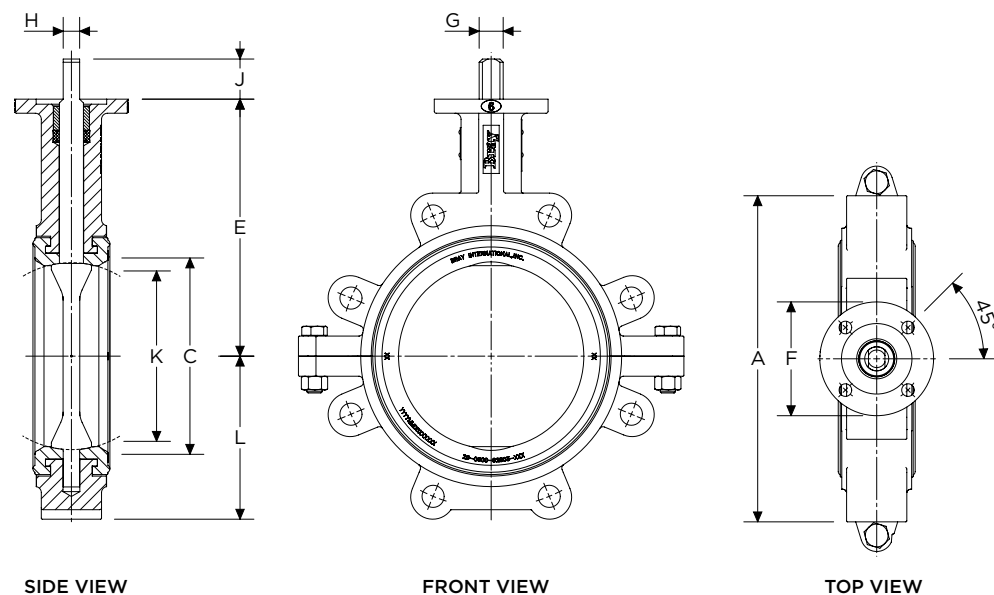
Note:

K is disc chordal dimension at face of valve.

Above drawing shows a Series 20 size DN500

Drawings are for reference only.

The right to change or modify product design or product without prior notice is reserved.



FLANGE ACCOMMODATION

DN	PN 10			PN 16		
	Bolt Circle Ø	No of Holes	Threads	Bolt Circle Ø	No of Holes	Threads
25	85	4	M12	85	4	M12
40	110	4	M16	110	4	M16
50	125	4	M16	125	4	M16
65	145	4	M16	145	4	M16
80	160	8	M16	160	8	M16
100	180	8	M16	180	8	M16
125	210	8	M16	210	8	M16
150	240	8	M20	240	8	M20
200	295	8	M20	295	12	M20
250	350	12	M20	355	12	M24
300	400	12	M20	410	12	M24

Above information according to EN 1092.
Contact factory for individual bolt information.

DIMENSIONS [MM]

DN	A	B	Ø C	E	Ø F	Top Plate Drilling				Ø G	H	J	K	L	Weight (Kg)
						ISO	Bolt circle Ø	No of Holes	Hole Ø						
25	60	30	30	90	65	F05	50	4	7.0	10	8	25	11	41	1.5
40	80	32	45	105	65	F05	50	4	7.0	10	8	25	35	55	2.0
50	94	43	51	140	90	F07	70	4	10.0	14	10	32	31	56	3.5
65	106	46	64	152	90	F07	70	4	10.0	14	10	32	47	63	4.0
80	124	46	76	159	90	F07	70	4	10.0	14	10	32	63	71	4.5
100	154	52	102	178	90	F07	70	4	10.0	16	11	32	90	90	7.5
125	181	56	127	190	90	F07	70	4	10.0	19	13	32	116	109	10.0
150	206	56	146	203	90	F07	70	4	10.0	19	13	32	137	121	11.5
200	267	60	197	241	150	F12	125	4	14.0	22	16	32	190	153	20.5
250	324	68	248	273	150	F12	125	4	14.0	30	22	51	240	188	30.0
300	378	78	298	311	150	F12	125	4	14.0	30	22	51	290	214	46.5

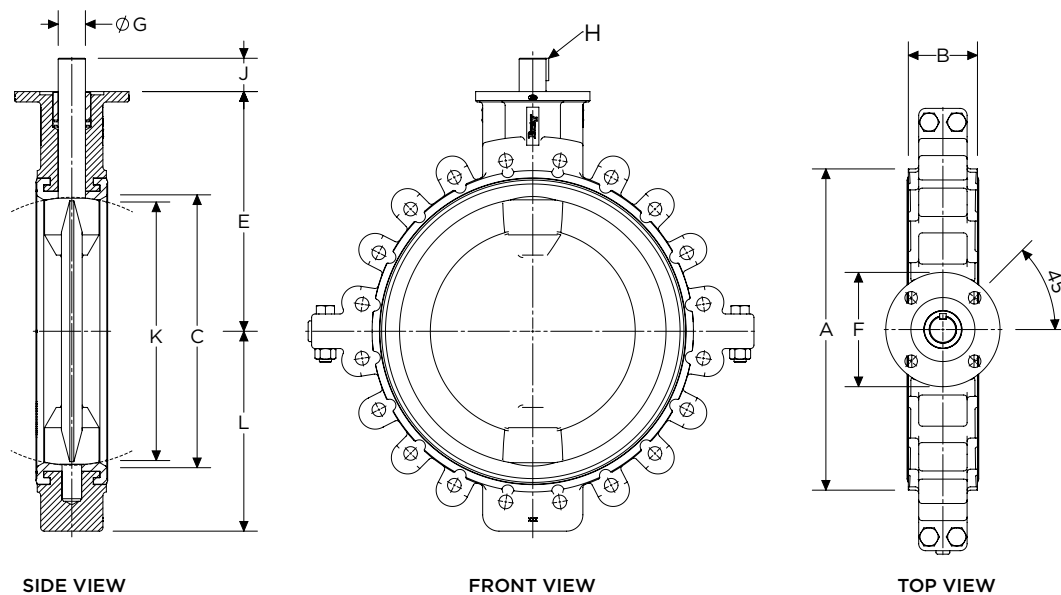
Note:

K is disc chordal dimension at face of valve.

Above drawing shows a Series 21 size DN150

Drawings are for reference only.

The right to change or modify product design or product without prior notice is reserved.



FLANGE ACCOMMODATION

DN	PN 10			PN 16		
	Bolt Circle ϕ	No of Holes	Threads	Bolt Circle ϕ	No of Holes	Threads
350	460	16	M20	470	16	M24
400	515	16	M24	525	16	M27
450	565	20	M24	585	20	M27
500	620	20	M24	650	20	M30

Above information according to EN 1092.
Contact factory for individual bolt information.

DIMENSIONS [MM]

DN	A	B	ϕC	E	ϕF	Top Plate Drilling				ϕG	H Key Size [mm]	J	K	L	Weight (Kg)
						ISO	Bolt circle ϕ	No of Holes	Hole ϕ						
350	433	76	336	346	150	F12	125	4	14.0	35	10x10	51	331	238	43.0
400	488	102	387	375	150	F12	125	4	14.0	35	10x10	51	377	273	61.0
450	536	108	438	406	210	F16	165	4	20.0	50	10x12	64	428	305	91.0
500	590	127	489	438	210	F16	165	4	20.0	50	10x12	64	476	348	118.0

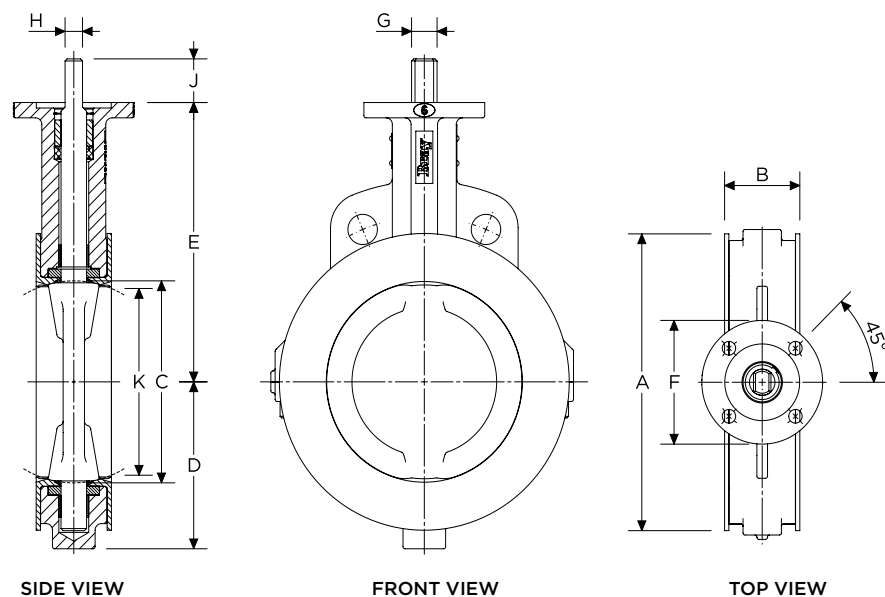
Note:

K is disc chordal dimension at face of valve.

Above drawing shows a Series 21 size DN500

Drawings are for reference only.

The right to change or modify product design or product without prior notice is reserved.



FLANGE ACCOMMODATION

DN	PN 10			PN 16		
	Bolt Circle Ø	No of Holes	Threads	Bolt Circle Ø	No of Holes	Threads
50	125	4	M16	125	4	M16
65	145	4	M16	145	4	M16
80	160	8	M16	160	8	M16
100	180	8	M16	180	8	M16
125	210	8	M16	210	8	M16
150	240	8	M20	240	8	M20
200	295	8	M20	295	12	M20
250	350	12	M20	355	12	M24
300	400	12	M20	410	12	M24

Above information according to EN 1092.
Contact factory for individual bolt information.

DIMENSIONS [MM]

DN	A	B	Ø C	E	Ø F	Top Plate Drilling				Ø G	H	J	K	L	Weight (Kg)
						ISO	Bolt circle Ø	No of Holes	Hole Ø						
50	98	43	51	140	90	F07	70	4	10.0	14	10	32	29	58	3.0
65	111	46	64	152	90	F07	70	4	10.0	14	10	32	45	63	3.5
80	127	46	76	159	90	F07	70	4	10.0	14	10	32	62	71	4.0
100	159	52	102	178	90	F07	70	4	10.0	16	11	32	88	104	6.0
125	187	56	127	190	90	F07	70	4	10.0	19	13	32	115	117	7.0
150	216	56	146	203	90	F07	70	4	10.0	19	13	32	136	129	9.0
200	270	60	197	241	150	F12	125	4	14.0	22	16	32	189	155	17.0
250	324	68	248	273	150	F12	125	4	14.0	30	22	51	239	195	28.0
300	378	78	298	311	150	F12	125	4	14.0	30	22	51	289	229	34.0

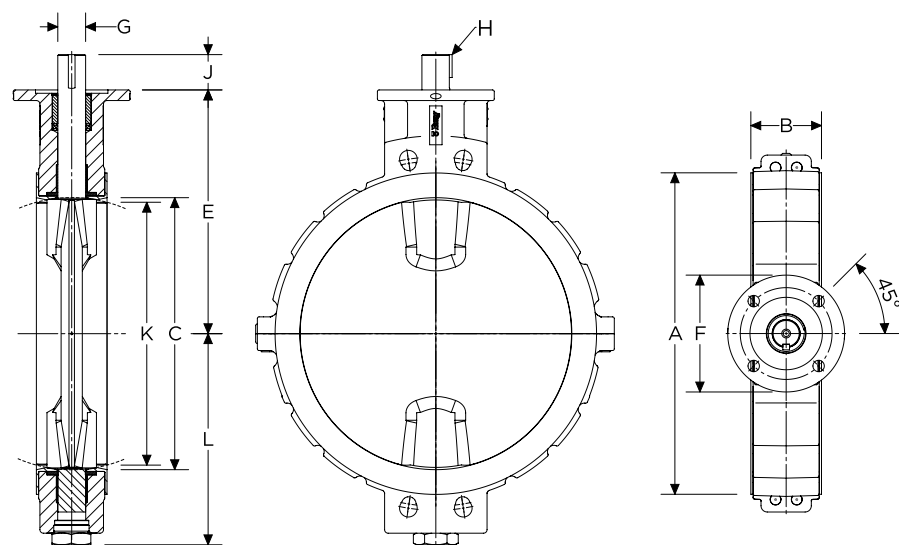
Note:

K is disc chordal dimension at face of valve.

Above drawing shows a Series 22 size DN150

Drawings are for reference only.

The right to change or modify product design or product without prior notice is reserved.


SIDE VIEW
FRONT VIEW
TOP VIEW
FLANGE ACCOMMODATION

DN	PN 10			PN 16		
	Bolt Circle Ø	No of Holes	Threads	Bolt Circle Ø	No of Holes	Threads
350	460	16	M20	470	16	M24
400	515	16	M24	525	16	M27
450	565	20	M24	585	20	M27
500	620	20	M24	650	20	M30
600	725	20	M27	770	20	M33

Above information according to EN 1092.
Contact factory for individual bolt information.

DIMENSIONS [MM]

DN	A	B	Ø C	E	Ø F	Top Plate Drilling				Ø G	H Key Size [mm]	J	K	L	Weight (Kg)
						ISO	Bolt circle Ø	No of Holes	Hole Ø						
350	433	78	337	346	150	F12	125	4	14.0	35	10x10	51	330	255	52.0
400	488	102	387	375	150	F12	125	4	14.0	35	10x10	51	375	305	82.0
450	536	114	438	406	210	F16	165	4	21.0	50	10x12	64	423	354	109.0
500	591	127	489	438	210	F16	165	4	21.0	50	10x12	64	476	379	145.0

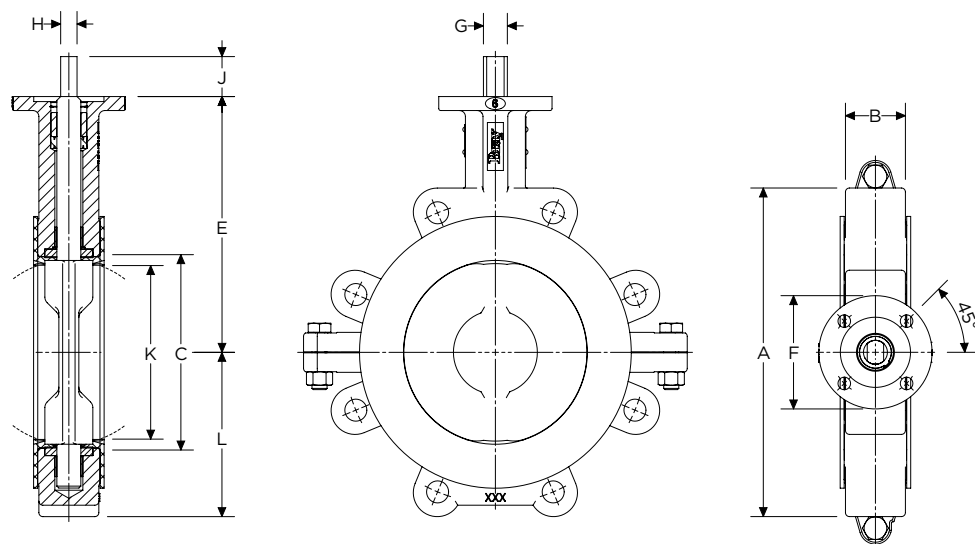
Note:

K is disc chordal dimension at face of valve.

Above drawing shows a Series 22 size DN500

Drawings are for reference only.

The right to change or modify product design or product without prior notice is reserved.


SIDE VIEW
FRONT VIEW
TOP VIEW
FLANGE ACCOMMODATION

DN	PN 10			PN 16		
	Bolt Circle Ø	No of Holes	Threads	Bolt Circle Ø	No of Holes	Threads
50	125	4	M16	125	4	M16
65	145	4	M16	145	4	M16
80	160	8	M16	160	8	M16
100	180	8	M16	180	8	M16
125	210	8	M16	210	8	M16
150	240	8	M20	240	8	M20
200	295	8	M20	295	12	M20
250	350	12	M20	355	12	M24
300	400	12	M20	410	12	M24

Above information according to EN 1092.
Contact factory for individual bolt information.

DIMENSIONS [MM]

DN	A	B	Ø C	E	Ø F	Top Plate Drilling				Ø G	H	J	K	L	Weight (Kg)
						ISO	Bolt circle Ø	No of Holes	Hole Ø						
50	98	43	51	140	90	F07	70	4	10.0	14	10	32	29	58	3.5
65	111	46	64	152	90	F07	70	4	10.0	14	10	32	45	63	4.5
80	127	46	76	159	90	F07	70	4	10.0	14	10	32	62	71	5.0
100	159	52	102	178	90	F07	70	4	10.0	16	11	32	88	104	8.0
125	187	56	127	190	90	F07	70	4	10.0	19	13	32	115	117	9.5
150	216	56	146	203	90	F07	70	4	10.0	19	13	32	136	129	13.0
200	270	60	197	241	150	F12	125	4	14.0	22	16	32	189	155	23.5
250	324	68	248	273	150	F12	125	4	14.0	30	22	51	239	195	34.5
300	378	78	298	311	150	F12	125	4	14.0	30	22	51	289	229	52.5

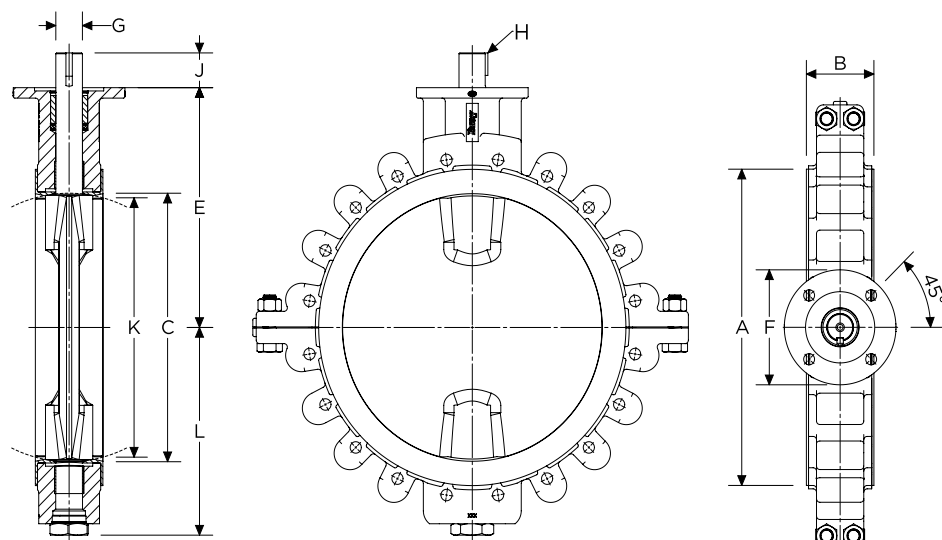
Note:

K is disc chordal dimension at face of valve.

Above drawing shows a Series 23 size DN150

Drawings are for reference only.

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SIDE VIEW

FRONT VIEW

TOP VIEW

FLANGE ACCOMMODATION

DN	PN 10			PN 16		
	Bolt Circle Ø	No of Holes	Threads	Bolt Circle Ø	No of Holes	Threads
350	460	16	M20	470	16	M24
400	515	16	M24	525	16	M27
450	565	20	M24	585	20	M27
500	620	20	M24	650	20	M30
600	725	20	M27	770	20	M33

Above information according to EN 1092.
Contact factory for individual bolt information.

DIMENSIONS [MM]

DN	A	B	Ø C	E	Ø F	Top Plate Drilling				Ø G	H Key Size [mm]	J	K	L	Weight (Kg)
						ISO	Bolt circle Ø	No of Holes	Hole Ø						
350	433	78	337	346	150	F12	125	4	14.0	35	10x10	51	330	255	67.0
400	488	102	387	375	150	F12	125	4	14.0	35	10x10	51	375	305	99.0
450	536	114	438	406	210	F16	165	4	21.0	50	10x12	64	423	354	124.0
500	591	127	489	438	210	F16	165	4	21.0	50	10x12	64	476	379	167.0
600*	838	154	591	495	210	F16	165	4	21.0	63.5	15.8x15.8	102	576	445	210.0

Note:

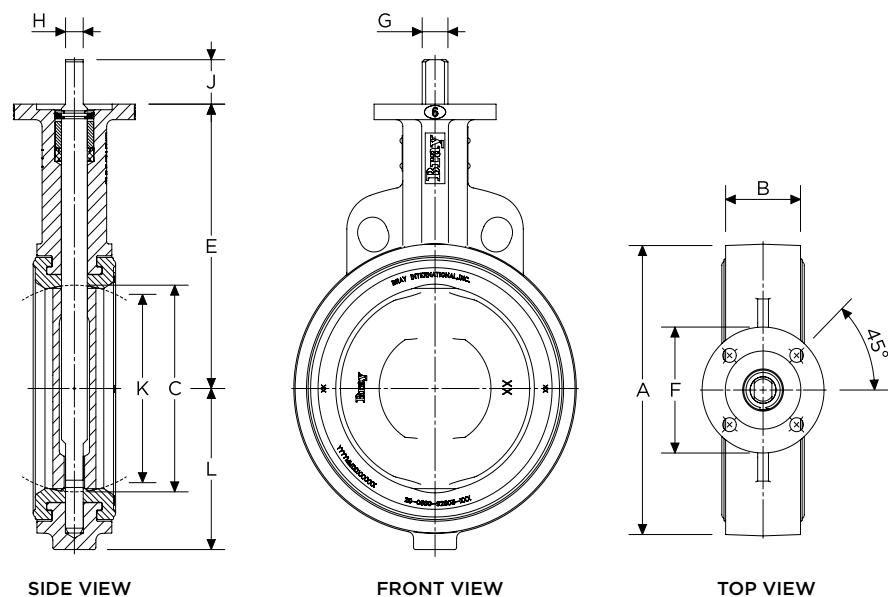
K is disc chordal dimension at face of valve.

* DN600: Double Flanged Body

Above drawing shows a Series 23 size DN500

Drawings are for reference only.

The right to change or modify product design or product without prior notice is reserved.



FLANGE ACCOMMODATION

DN	PN 6			PN 10			PN 16		
	Bolt Circle Ø	No of Holes	Threads	Bolt Circle Ø	No of Holes	Threads	Bolt Circle Ø	No of Holes	Threads
50	110	4	M12	125	4	M16	125	4	M16
65	130	4	M12	145	4	M16	145	4	M16
80	150	4	M16	160	8	M16	160	8	M16
100	170	4	M16	180	8	M16	180	8	M16
125	200	8	M16	210	8	M16	210	8	M16
150	225	8	M16	240	8	M20	240	8	M20
200	280	8	M16	295	8	M20	295	12	M20
250	335	12	M16	350	12	M20	355	12	M24
300	395	12	M20	400	12	M20	410	12	M24

Above information according to EN 1092.
Contact factory for individual bolt information.

DIMENSIONS [MM]

DN	A	B	Ø C	E	Ø F	Top Plate Drilling				Ø G	H	J	K	L	Weight (Kg)
						ISO	Bolt circle Ø	No of Holes	Hole Ø						
50	94	43	51	140	90	F07	70	4	10.0	14	10	32	34	36	2.5
65	106	46	64	152	90	F07	70	4	10.0	14	10	32	49	63	3.0
80	124	46	76	159	90	F07	70	4	10.0	14	10	32	65	71	3.5
100	154	52	102	178	90	F07	70	4	10.0	16	11	32	91	87	5.0
125	181	56	127	190	90	F07	70	4	10.0	19	13	32	118	102	6.0
150	206	56	146	203	90	F07	70	4	10.0	19	13	32	138	115	8.0
200	267	60	197	241	150	F12	125	4	14.0	22	16	32	189	146	15.0
250	324	68	248	273	150	F12	125	4	14.0	30	22	51	242	181	22.0
300	378	78	298	311	150	F12	125	4	14.0	30	22	51	291	206	30.0

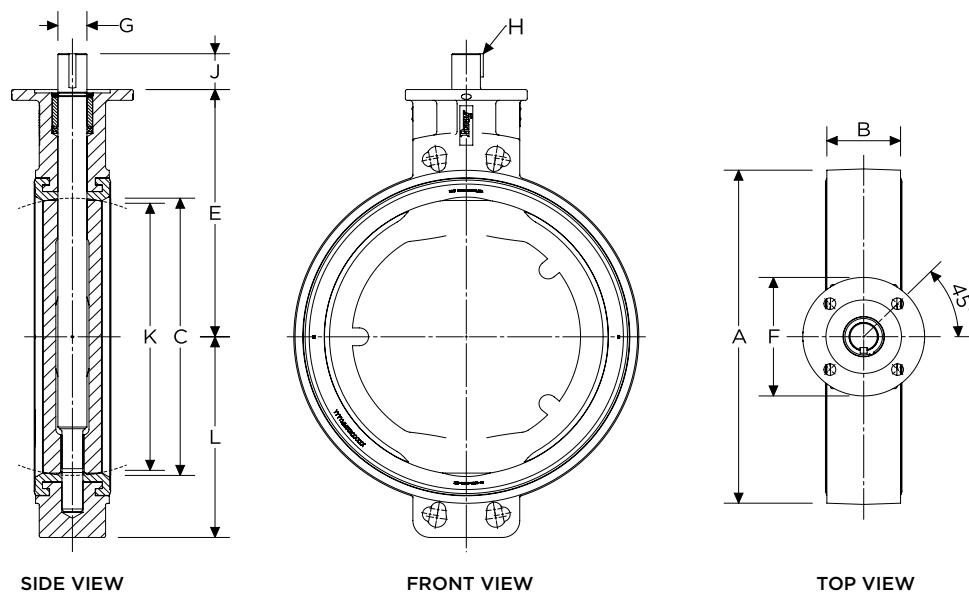
Note:

K is disc chordal dimension at face of valve.

Above drawing shows a Series 30 size DN150

Drawings are for reference only.

The right to change or modify product design or product without prior notice is reserved.



FLANGE ACCOMMODATION

DN	PN 6			PN 10			PN 16		
	Bolt Circle Ø	No of Holes	Threads	Bolt Circle Ø	No of Holes	Threads	Bolt Circle Ø	No of Holes	Threads
350	445	12	M20	460	16	M20	470	16	M24
400	495	16	M20	515	16	M24	525	16	M27
450	550	16	M20	565	20	M24	585	20	M27
500	600	20	M20	620	20	M24	650	20	M30

Above information according to EN 1092.
Contact factory for individual bolt information.

DIMENSIONS [MM]

DN	A	B	Ø C	E	Ø F	Top Plate Drilling				Ø G	H Key Size [mm]	J	K	L	Weight (Kg)
						ISO	Bolt circle Ø	No of Holes	Hole Ø						
350	433	78	337	346	150	F12	125	4	14.0	35	10x10	51	331	238	43.0
400	488	102	387	375	150	F12	125	4	14.0	35	10x10	51	377	273	61.0
450	536	114	438	406	210	F16	165	4	21.0	50	12x10	64	428	305	91.0
500	591	127	489	438	210	F16	165	4	21.0	50	12x10	64	476	348	118.0

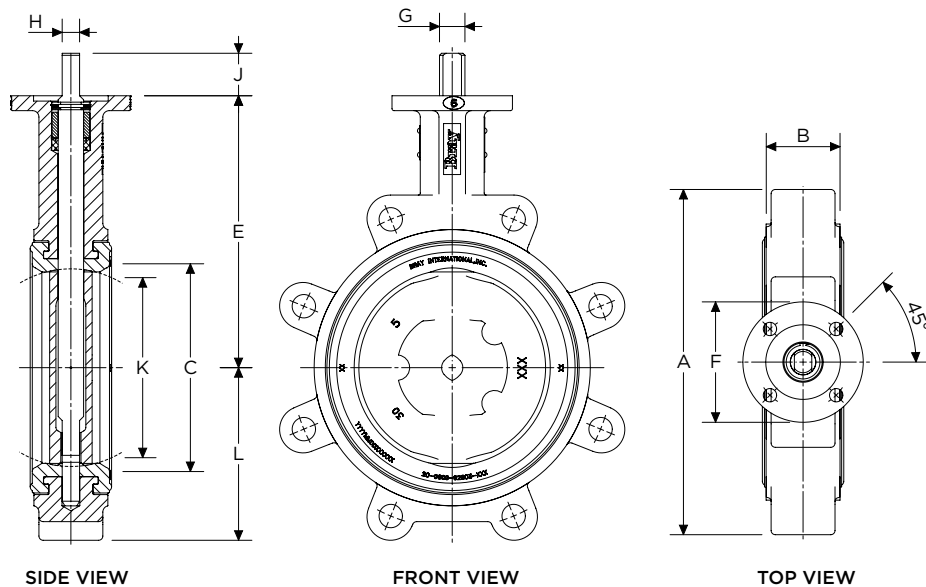
Note:

K is disc chordal dimension at face of valve.

Above drawing shows a Series 30 size DN500

Drawings are for reference only.

The right to change or modify product design or product without prior notice is reserved.



FLANGE ACCOMMODATION

DN	PN 10			PN 16		
	Bolt Circle Ø	No of Holes	Threads	Bolt Circle Ø	No of Holes	Threads
50	125	4	M16	125	4	M16
65	145	4	M16	145	4	M16
80	160	8	M16	160	8	M16
100	180	8	M16	180	8	M16
125	210	8	M16	210	8	M16
150	240	8	M20	240	8	M20
200	295	8	M20	295	12	M20
250	350	12	M20	355	12	M24
300	400	12	M20	410	12	M24

Above information according to EN 1092.
Contact factory for individual bolt information.

DIMENSIONS [MM]

DN	A	B	Ø C	E	Ø F	Top Plate Drilling				Ø G	H	J	K	L	Weight (Kg)
						ISO	Bolt circle Ø	No of Holes	Hole Ø						
50	94	43	51	140	90	F07	70	4	10.0	14	10	32	34	58	3.0
65	106	46	64	152	90	F07	70	4	10.0	14	10	32	49	65	3.5
80	124	46	76	159	90	F07	70	4	10.0	14	10	32	65	71	4.0
100	154	52	102	178	90	F07	70	4	10.0	16	11	32	91	104	7.0
125	181	56	127	190	90	F07	70	4	10.0	19	13	32	118	117	9.0
150	206	56	146	2	90	F07	70	4	10.0	19	13	32	138	129	10.0
200	267	60	197	241	150	F12	125	4	14.0	22	16	32	189	154	19.0
250	324	68	248	273	150	F12	125	4	14.0	30	22	51	242	195	30.0
300	378	78	298	311	150	F12	125	4	14.0	30	22	51	291	229	40.0

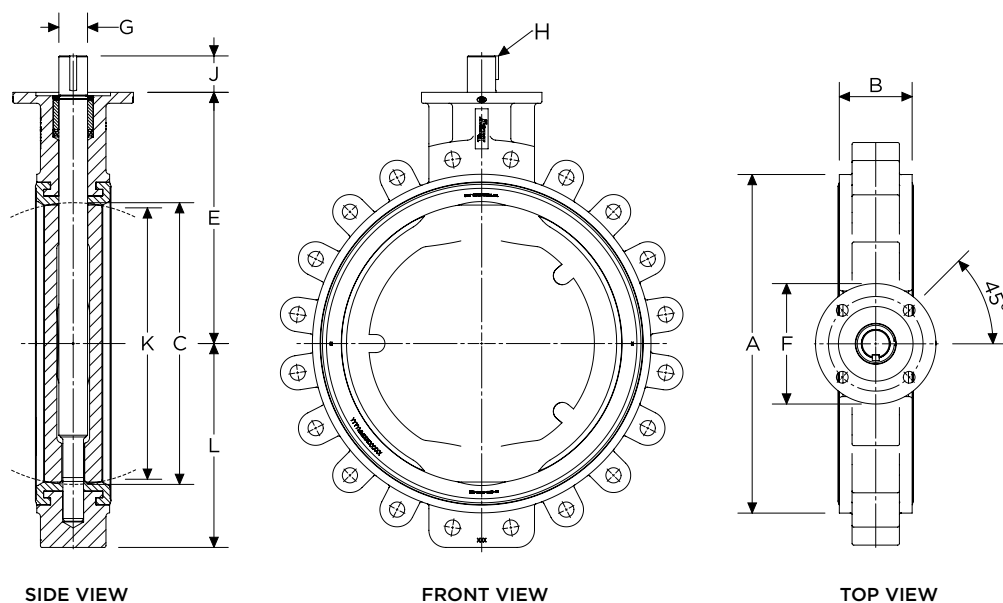
Note:

K is disc chordal dimension at face of valve.

Above drawing shows a Series 31 size DN150

Drawings are for reference only.

The right to change or modify product design or product without prior notice is reserved.



FLANGE ACCOMMODATION

DN	PN 10			PN 16		
	Bolt Circle Ø	No of Holes	Threads	Bolt Circle Ø	No of Holes	Threads
350	460	16	M20	470	16	M24
400	515	16	M24	525	16	M27
450	565	20	M24	585	20	M27
500	620	20	M24	650	20	M30

Above information according to EN 1092.
Contact factory for individual bolt information.

DIMENSIONS [MM]

DN	A	B	Ø C	E	Ø F	Top Plate Drilling				Ø G	H Key Size [mm]	J	K	L	Weight (Kg)
						ISO	Bolt circle Ø	No of Holes	Hole Ø						
350	433	78	337	346	150	F12	125	4	14.0	35	10x10	51	331	252	32.0
400	488	102	387	375	150	F12	125	4	14.0	35	10x10	51	377	287	75.0
450	536	114	438	406	210	F16	165	4	21.0	50	10x12	64	428	309	103.0
500	591	127	489	438	210	F16	165	4	21.0	50	10x12	64	476	356	138.0

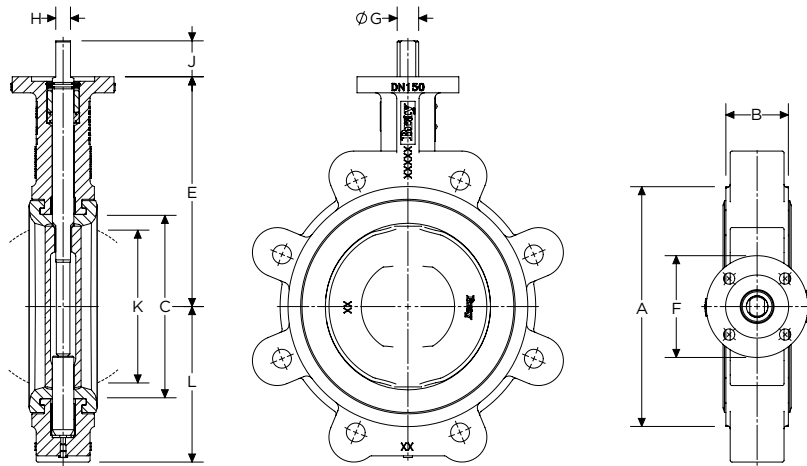
Note:

K is disc chordal dimension at face of valve.

Above drawing shows a Series 31 size DN500

Drawings are for reference only.

The right to change or modify product design or product without prior notice is reserved.



SIDE VIEW

FRONT VIEW

TOP VIEW

FLANGE ACCOMMODATION

DN	PN 10			PN 16			PN 25			PN 40		
	Bolt Circle Ø	No of Holes	Threads	Bolt Circle Ø	No of Holes	Threads	Bolt Circle Ø	No of Holes	Threads	Bolt Circle Ø	No of Holes	Threads
50	125	4	M16	125	4	M16	125	4	M16	125	4	M16
65	145	4	M16	145	4	M16	145	8	M16	145	8	M16
80	160	8	M16	160	8	M16	160	8	M16	160	8	M16
100	180	8	M16	180	8	M16	190	8	M20	190	8	M20
125	210	8	M16	210	8	M16	220	8	M24	220	8	M24
150	240	8	M20	240	8	M20	250	8	M24	250	8	M24
200	295	8	M20	295	12	M20	310	12	M24	320	12	M27
250	350	12	M20	355	12	M24	370	12	M27	385	12	M30
300	400	12	M20	410	12	M24	430	16	M27	450	16	M30

Above information according to EN 1092.
Contact factory for individual bolt information.

DIMENSIONS [MM]

DN	A	B	Ø C	E	Ø F	ISO	Top Plate Drilling			Ø G	H	J	K	L	Weight (Kg)
							Bolt circle Ø	No of Holes	Hole Ø						
50	100	43	51	140	90	F07	70	4	10.0	14	10	32	33	60	3.5
65	113	46	64	152	90	F07	70	4	10.0	14	10	32	49	83	4.0
80	130	46	76	159	90	F07	70	4	10.0	14	10	32	65	92	4.5
100	158	52	102	178	90	F07	70	4	10.0	16	11	32	91	108	8.0
125	187	56	127	190	90	F07	70	4	10.0	19	13	32	118	132	10.0
150	212	56	146	203	90	F07	70	4	10.0	19	13	32	138	137	11.0
200	273	60	197	241	150	F12	125	4	14.0	22	16	32	189	174	22.0
250	332	68	248	273	150	F12	125	4	14.0	30	22	50	242	212	34.5
300	386	78	298	311	150	F12	125	4	14.0	30	22	50	291	243	46.0

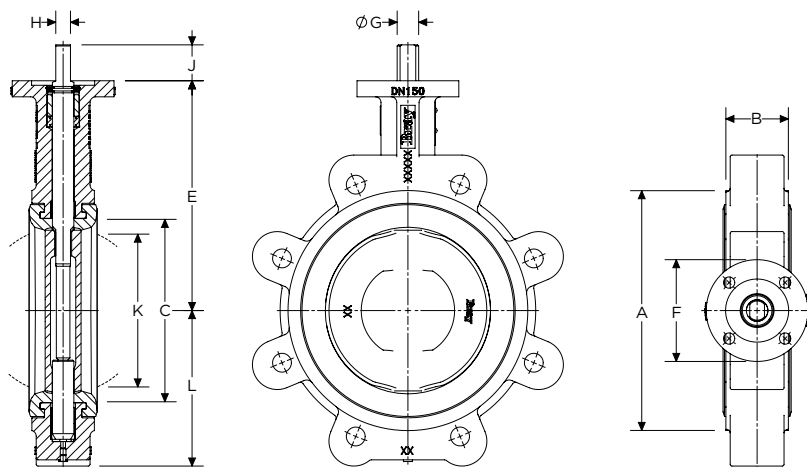
Note:

K is disc chordal dimension at face of valve.

Above drawing shows a Series 31U size DN150

Drawings are for reference only.

The right to change or modify product design or product without prior notice is reserved.



SIDE VIEW

FRONT VIEW

TOP VIEW

FLANGE ACCOMMODATION

Size	PN 10			PN 16			PN 25			PN 40		
	Bolt Circle Ø	No of Holes	Threads	Bolt Circle Ø	No of Holes	Threads	Bolt Circle Ø	No of Holes	Threads	Bolt Circle Ø	No of Holes	Threads
2"	4.92	4	M16	4.92	4	M16	4.92	4	M16	4.92	4	M16
2½"	5.70	4	M16	5.70	4	M16	5.70	8	M16	5.70	8	M16
3"	6.30	8	M16	6.30	8	M16	6.30	8	M16	6.30	8	M16
4"	7.08	8	M16	7.08	8	M16	7.48	8	M20	7.48	8	M20
5"	8.26	8	M16	8.26	8	M16	8.66	8	M24	8.66	8	M24
6"	9.44	8	M20	9.44	8	M20	9.84	8	M24	9.84	8	M24
8"	11.61	8	M20	11.61	12	M20	12.20	12	M24	12.20	12	M27
10"	13.77	12	M20	13.97	12	M24	14.56	12	M27	14.56	12	M30
12"	15.74	12	M20	16.14	12	M24	16.92	16	M27	16.92	16	M30

Above information according to EN 1092.
Contact factory for individual bolt information.

DIMENSIONS [INCH]

Size	A	B	Ø C	E	Ø F	ISO	Top Plate Drilling			Ø G	H	J	K	L	Weight (Lbs)
							Bolt circle Ø	No of Holes	Hole Ø						
2"	3.93	1.69	2.00	5.51	3.54	F07	2.75	4	0.39	0.55	0.39	1.25	1.29	2.36	7.5
2½"	4.44	1.81	2.51	5.98	3.54	F07	2.75	4	0.39	0.55	0.39	1.25	1.92	3.26	8.5
3"	5.11	1.81	2.99	6.25	3.54	F07	2.75	4	0.39	0.55	0.39	1.25	2.55	3.62	10.0
4"	6.22	2.04	4.01	7.00	3.54	F07	2.75	4	0.39	0.62	0.43	1.25	3.58	4.25	17.0
5"	7.36	2.20	5.00	7.48	3.54	F07	2.75	4	0.39	0.74	0.51	1.25	4.64	5.19	22.0
6"	8.34	2.20	5.74	7.99	3.54	F07	2.75	4	0.39	0.74	0.51	1.25	5.43	5.39	24.5
8"	10.74	2.36	7.75	9.48	5.90	F12	4.92	4	0.39	0.86	0.62	1.25	7.44	6.85	48.5
10"	13.07	2.67	9.76	10.74	5.90	F12	4.92	4	0.55	1.18	0.86	1.96	9.52	8.34	76.0
12"	15.19	3.07	11.73	12.24	5.90	F12	4.92	4	0.55	1.18	0.86	1.96	11.45	9.56	101.5

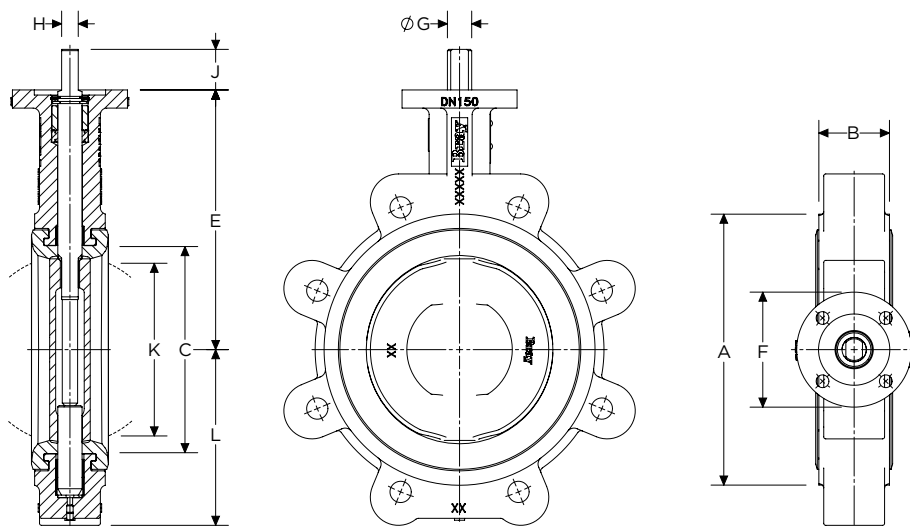
Note:

K is disc chordal dimension at face of valve.

Above drawing shows a Series 31U size 6".

Drawings are for reference only.

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SIDE VIEW
FRONT VIEW
TOP VIEW
FLANGE ACCOMMODATION
ASME Class 150

DN	Bolt Circle Ø	No of Holes	Threads
50	121	4	5/8 - 11 UNC
65	140	4	5/8 - 11 UNC
80	152	4	5/8 - 11 UNC
100	191	8	5/8 - 11 UNC
125	216	8	3/4 - 10 UNC
150	241	8	3/4 - 10 UNC
200	298	8	3/4 - 10 UNC
250	362	12	7/8 - 9 UNC
300	432	12	7/8 - 9 UNC

Above information according to ASME B16.5.
Contact factory for individual bolt information.

DIMENSIONS [MM]

DN	A	B	Ø C	E	Ø F	Top Plate Drilling				Ø G	H	J	K	L	Weight (Kg)
						ISO	Bolt circle Ø	No of Holes	Hole Ø						
50	100	43	51	140	90	F07	70	4	10.0	14	10	32	33	60	3.5
65	113	46	64	152	90	F07	70	4	10.0	14	10	32	49	83	4.0
80	130	46	76	159	90	F07	70	4	10.0	14	10	32	65	92	4.5
100	158	52	102	178	90	F07	70	4	10.0	16	11	32	91	108	8.0
125	187	56	127	190	90	F07	70	4	10.0	19	13	32	118	132	10.0
150	212	56	146	203	90	F07	70	4	10.0	19	13	32	138	137	11.0
200	273	60	197	241	150	F12	125	4	14.0	22	16	32	189	174	22.0
250	332	68	248	273	150	F12	125	4	14.0	30	22	50	242	212	34.5
300	386	78	298	311	150	F12	125	4	14.0	30	22	50	291	243	46.0

Note:

K is disc chordal dimension at face of valve.

Above drawing shows a Series 31U size DN150

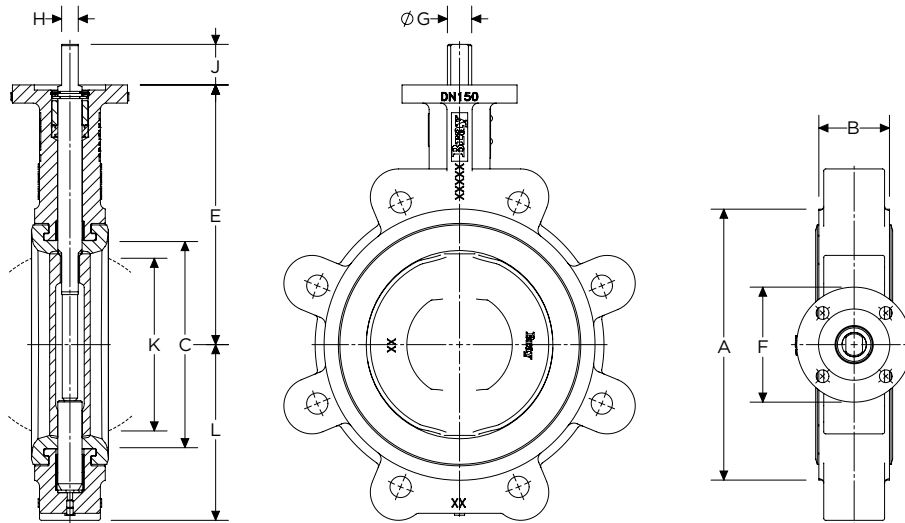
Drawings are for reference only.

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FLANGE ACCOMMODATION
ASME Class 150

DN	Bolt Circle Ø	No of Holes	Threads
50	121	4	5/8 - 11 UNC
65	140	4	5/8 - 11 UNC
80	152	4	5/8 - 11 UNC
100	191	8	5/8 - 11 UNC
125	216	8	3/4 - 10 UNC
150	241	8	3/4 - 10 UNC
200	298	8	3/4 - 10 UNC
250	362	12	7/8 - 9 UNC
300	432	12	7/8 - 9 UNC

Above information according to ASME B16.5.
Contact factory for individual bolt information.


SIDE VIEW
FRONT VIEW
TOP VIEW
DIMENSIONS [INCH]

Size	A	B	Ø C	E	Ø F	Top Plate Drilling				Ø G	H	J	K	L	Weight (Lbs)
						ISO	Bolt circle Ø	No of Holes	Hole Ø						
2"	3.93	1.69	2.00	5.51	3.54	F07	2.75	4	0.39	0.55	0.39	1.25	1.29	2.36	7.5
2½"	4.44	1.81	2.51	5.98	3.54	F07	2.75	4	0.39	0.55	0.39	1.25	1.92	3.26	8.5
3"	5.11	1.81	2.99	6.25	3.54	F07	2.75	4	0.39	0.55	0.39	1.25	2.55	3.62	10.0
4"	6.22	2.04	4.01	7.00	3.54	F07	2.75	4	0.39	0.62	0.43	1.25	3.58	4.25	17.0
5"	7.36	2.20	5.00	7.48	3.54	F07	2.75	4	0.39	0.74	0.51	1.25	4.64	5.19	22.0
6"	8.34	2.20	5.74	7.99	3.54	F07	2.75	4	0.39	0.74	0.51	1.25	5.43	5.39	24.5
8"	10.74	2.36	7.75	9.48	5.90	F12	4.92	4	0.55	0.86	0.62	1.25	7.44	6.85	48.5
10"	13.07	2.67	9.76	10.74	5.90	F12	4.92	4	0.55	1.18	0.86	1.96	9.52	8.34	76.0
12"	15.19	3.07	11.73	12.24	5.90	F12	4.92	4	0.55	1.18	0.86	1.96	11.45	9.56	101.5

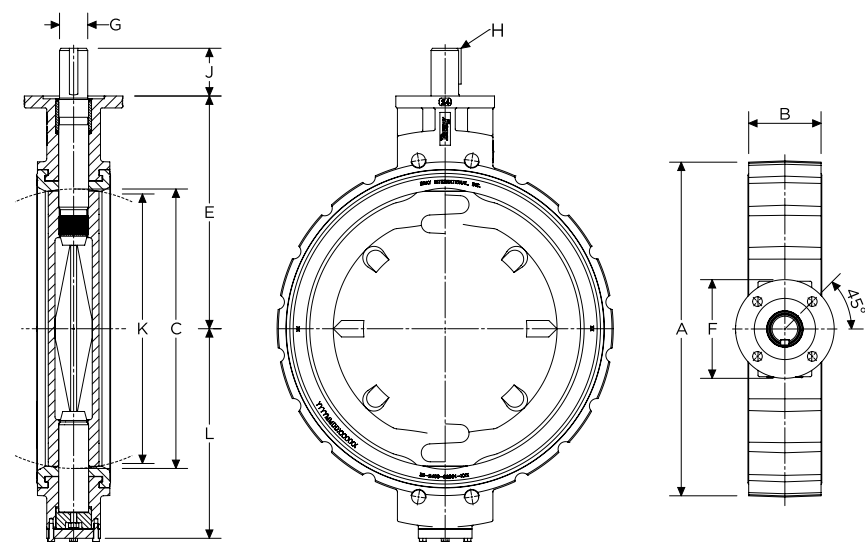
Note:

K is disc chordal dimension at face of valve.

Above drawing shows a Series 31U size 6".

Drawings are for reference only.

The right to change or modify product design or product without prior notice is reserved.


SIDE VIEW
FRONT VIEW
TOP VIEW
FLANGE ACCOMMODATION

DN	PN 6			PN 10			PN 16		
	Bolt Circle Ø	No of Holes	Threads	Bolt Circle Ø	No of Holes	Threads	Bolt Circle Ø	No of Holes	Threads
600	705	20	M24	725	20	M27	770	20	M33
700	810	24	M24	840	24	M27	840	24	M33
800	920	24	M27	950	24	M30	950	24	M36
900	1020	24	M27	1050	28	M30	1050	28	M36

Above information according to EN 1092.
Contact factory for individual bolt information.

DIMENSIONS [MM]

DN	A	B	Ø C	E	Ø F	Top Plate Drilling				Ø G	H Key Size [mm]	J	K	L	Weight (Kg)
						ISO	Bolt circle Ø	No of Holes	Hole Ø						
600	710	151	591	495	210	F16	165	4	21.0	60	18x11	106	574	446	190.0
700	790	165	672	580	300	F25	254	8	18.0	60	18x11	102	654	502	263.0
800	903	190	772	670	300	F25	254	8	18.0	60	18x11	100	751	556	356.0
900	1034	200	899	705	350	F30	298	8	21.0	75	20x12	130	877	633	479.0

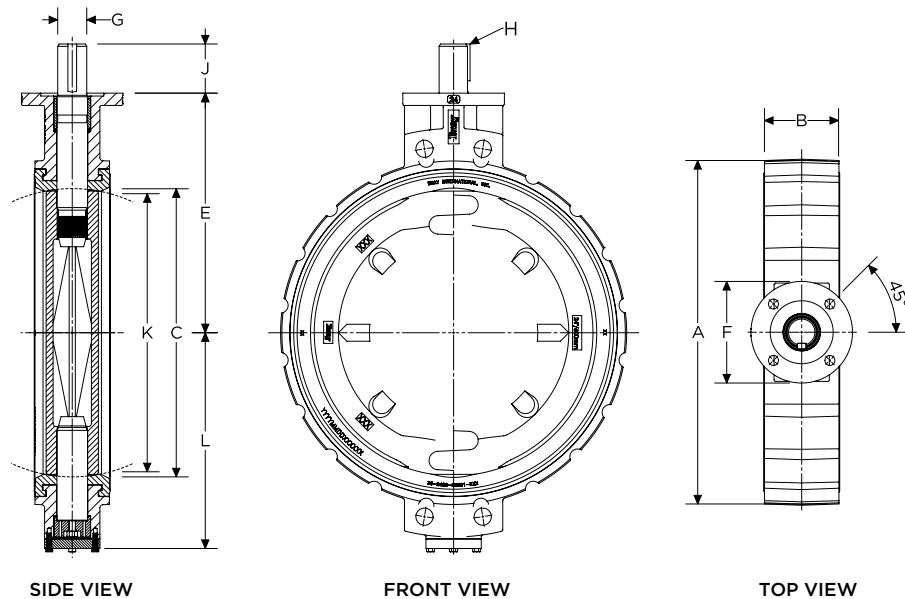
Note:

K is disc chordal dimension at face of valve.

Above drawing shows a Series 32 size DN600

Drawings are for reference only.

The right to change or modify product design or product without prior notice is reserved.



FLANGE ACCOMMODATION

DN	PN 6			PN 10			PN 16		
	Bolt Circle Ø	No of Holes	Threads	Bolt Circle Ø	No of Holes	Threads	Bolt Circle Ø	No of Holes	Threads
600	705	20	M24	725	20	M27	770	20	M33
700	810	24	M24	840	24	M27	840	24	M33
800	920	24	M27	950	24	M30	950	24	M36
900	1020	24	M27	1050	28	M30	1050	28	M36

Above information according to EN 1092.
Contact factory for individual bolt information.

DIMENSIONS [MM]

DN	A	B	Ø C	E	Ø F	Top Plate Drilling				Ø G	H Key Size [mm]	J	K	L	Weight (Kg)
						ISO	Bolt circle Ø	No of Holes	Hole Ø						
600	710	151	591	495	210	F16	165	4	21.0	60	18x11	106	574	446	190.0
700	790	165	672	580	300	F25	254	8	18.0	60	18x11	102	654	502	263.0
800	903	190	772	670	300	F25	254	8	18.0	75	20x12	102	751	556	356.0
900	1034	200	899	705	350	F30	298	8	21.0	85	22x14	130	877	633	479.0

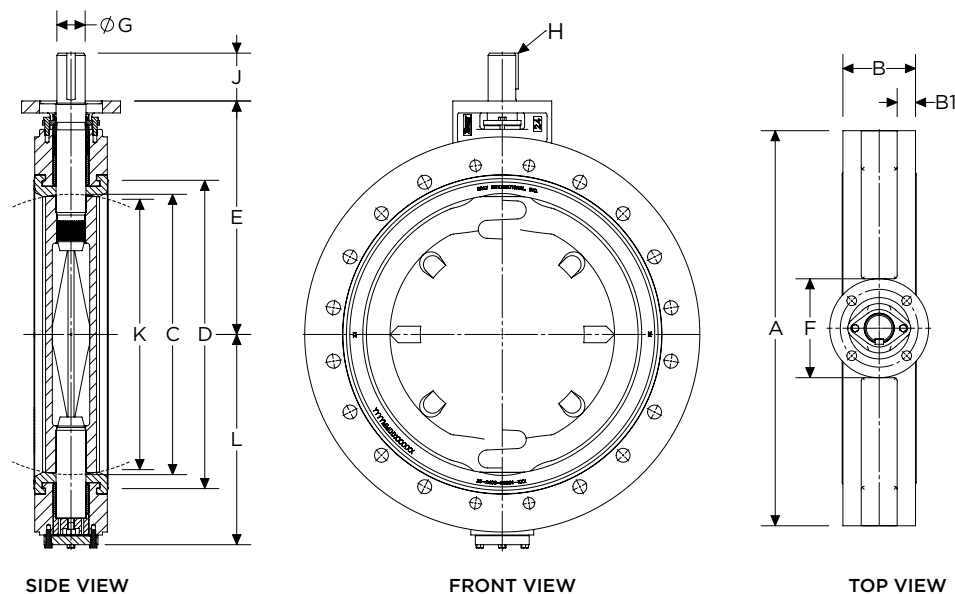
Note:

K is disc chordal dimension at face of valve.

Above drawing shows a Series 33 size DN600

Drawings are for reference only.

The right to change or modify product design or product without prior notice is reserved.



FLANGE ACCOMMODATION

DN	PN 10			PN 16		
	Bolt Circle Ø	No of Holes	Threads	Bolt Circle Ø	No of Holes	Threads
600	725	20	M27	770	20	M33
700	840	24	M27	840	24	M33
800	950	24	M30	950	24	M36
900	1050	28	M30	1050	28	M36
1000	1160	28	M35	1170	28	M39
1200	1380	32	M36	1390	32	M45
1400	1590	36	M39	1590	36	M45
1600 to 3000	Consult Factory					

Above information according to EN 1092.
Contact factory for individual bolt information.

DIMENSIONS [MM]

DN	A	B	B ₁	Ø C	E	Ø F	Top Plate Drilling				Ø G	H Key Size [mm]	J	K	L	Weight (Kg)
							ISO	Bolt circle Ø	No of Holes	Hole Ø						
600	838	154	38.9	591	495	210	F16	165	4	21.0	60	18x11	106	575	446	227.0
700	960	165	40.4	672	580	300	F25	254	8	18.0	60	18x11	102	654	502	333.0
800	1060	190	50.8	772	670	300	F25	254	8	18.0	60	18x11	100	751	556	458.0
900	1168	200	52.3	897	705	350	F30	298	8	21.0	75	20x12	130	878	633	613.0
1000	1289	216	50.0	972	782	350	F30	298	8	21.0	85	22x14	130	951	655	985.0
1200	1511	254	69.9	1200	914	415	F35	356	8	32.5	100	28x16	130	1172	789	1487.0
1400	1753	381	78.2	1372	1032	298	F35	356	8	32.5	127	32x22	133	1318	945	2268.0
1600 to 3000	Consult Factory															

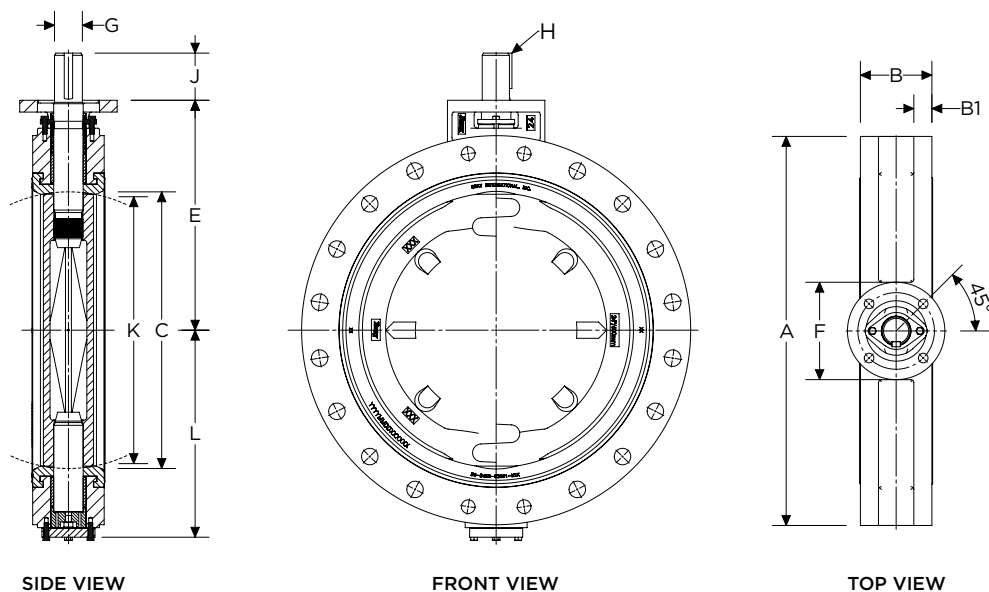
Note:

K is disc chordal dimension at face of valve.

Above drawing shows a Series 35 size DN600

Drawings are for reference only.

The right to change or modify product design or product without prior notice is reserved.



FLANGE ACCOMMODATION

DN	PN 10			PN 16		
	Bolt Circle Ø	No of Holes	Threads	Bolt Circle Ø	No of Holes	Threads
600	725	20	M27	770	20	M33
700	840	24	M27	840	24	M33
800	950	24	M30	950	24	M36
900	1050	28	M30	1050	28	M36
1000	1160	28	M33	1170	28	M39
1200	1380	32	M36	1390	32	M45
1400	1590	36	M39	1590	36	M45
1600 to 3000	Consult Factory					

Above information according to EN 1092.
Contact factory for individual bolt information.

DIMENSIONS [MM]

DN	A	B	B ₁	Ø C	E	Ø F	Top Plate Drilling				Ø G	H Key Size [mm]	J	K	L	Weight (Kg)
							ISO	Bolt circle Ø	No of Holes	Hole Ø						
600	838	154	38.9	591	495	210	F16	165	4	21.0	60	18x11	106	577	446	227.0
700	960	165	40.4	672	580	300	F25	254	8	18.0	60	18x11	102	655	502	333.0
800	1060	190	50.8	772	670	300	F25	254	8	18.0	75	20x12	102	753	556	458.0
900	1168	200	52.3	897	705	350	F30	298	8	21.0	85	22x14	130	879	633	613.0
1000	1289	216	50.0	972	782	350	F30	298	8	21.0	100	22x14	130	952	655	985.0
1200	1511	254	69.9	1200	914	415	F35	356	8	32.5	125	32x18	150	1174	789	1487.0
1400	1753	381	78.2	1372	1032	298	F35	356	8	32.5	152,4	32x22	150	1322	945	2268.0
1600 to 3000	Consult Factory															

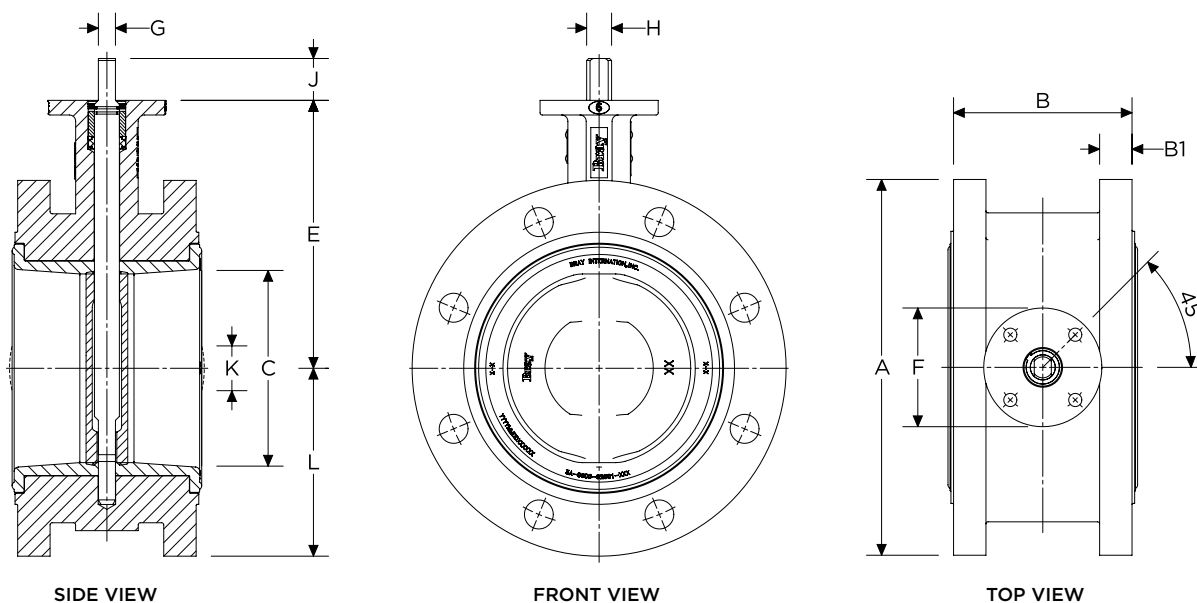
Note:

K is disc chordal dimension at face of valve.

Above drawing shows a Series 36 size DN600

Drawings are for reference only.

The right to change or modify product design or product without prior notice is reserved.


FLANGE ACCOMMODATION

DN	PN 10			PN 16		
	Bolt Circle Ø	No of Holes	Threads	Bolt Circle Ø	No of Holes	Threads
50	125	4	M16	125	4	M16
65	145	4	M16	145	4	M16
80	160	8	M16	160	8	M16
100	180	8	M16	180	8	M16
125	210	8	M16	210	8	M16
150	240	8	M20	240	8	M20
200	295	8	M20	295	12	M20
250	350	12	M20	355	12	M24
300	400	12	M20	410	12	M24
350	460	16	M20	470	16	M24
400	515	16	M24	525	16	M27
450	565	20	M24	585	20	M27
500	620	20	M24	650	20	M30
600	725	20	M27	770	20	M33

Above information according to EN 1092.
Contact factory for individual bolt information.

DIMENSIONS [MM]

DN	A	B	B ₁	Ø C	E	Ø F	Top Plate Drilling			ISO	Ø G	H	J	K	L	Weight (Kg)
							Bolt circle Ø	No of Holes	Hole Ø							
50	165	108	20.0	51	140	90	F07	70	4	10.0	14	10	32	-	20	10.0
65	185	112	20.0	64	152	90	F07	70	4	10.0	14	10	32	-	20	11.0
80	200	114	23.0	76	159	90	F07	70	4	10.0	14	10	32	-	22	12.0
100	220	127	24.5	102	178	90	F07	70	4	10.0	16	11	32	-	24	15.0
125	250	140	23.3	146	190	90	F07	70	4	10.0	19	13	32	-	26	20.0
150	285	140	26.0	146	203	90	F07	70	4	10.0	19	13	32	45	26	26.0
200	343	152	30.5	197	241	150	F12	125	4	14.0	22	16	32	127	30	30.0
250	405	165	32.7	248	273	150	F12	125	4	14.0	30	22	51	187	32	57.0
300	483	178	32.7	298	311	150	F12	125	4	14.0	30	22	51	242	32	77.0
350	533	190	36.5	337	346	150	F12	125	4	14.0	35	10x10	51	281	36	112.0
400	597	216	38.7	387	375	150	F12	125	4	14.0	35	10x10	51	325	38	136.0
450	640	222	42.7	438	406	210	F16	165	4	21.0	50	12x10	64	381	42	198.0
500	715	229	42.9	489	438	210	F16	165	4	21.0	50	12x10	64	436	42	227.0
600	Consult factory															

Note:

K is disc chordal dimension at face of valve.

Above drawing shows a Series 3A/H size DN150

Drawings are for reference only.

The right to change or modify product design or product without prior notice is reserved.