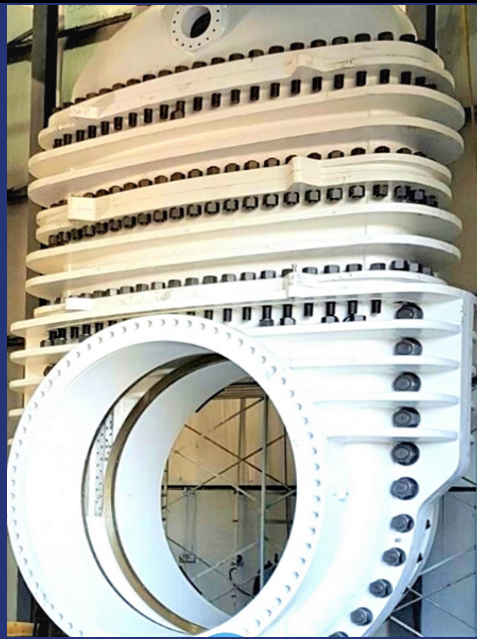


PRODUCTS FOR INDUSTRIAL PROCESSES

Engineered Valve Solutions



INVENT IMAGINATION

We have been committed to highest standard of business conduct since our founding in 2017. Performance culture based on trust & integrity. This is result of being open minded and strong believer. We listen to our coworkers' ideas, then add our thought to see if we can build that idea into a more valuable contribution; and we trust our suggestion will receive the same respectful treatment. At UNOAM CO, every new ideas are welcome, enriching the confidence and goodwill among employees and customers.

FROM THE MANAGING DIRECTOR

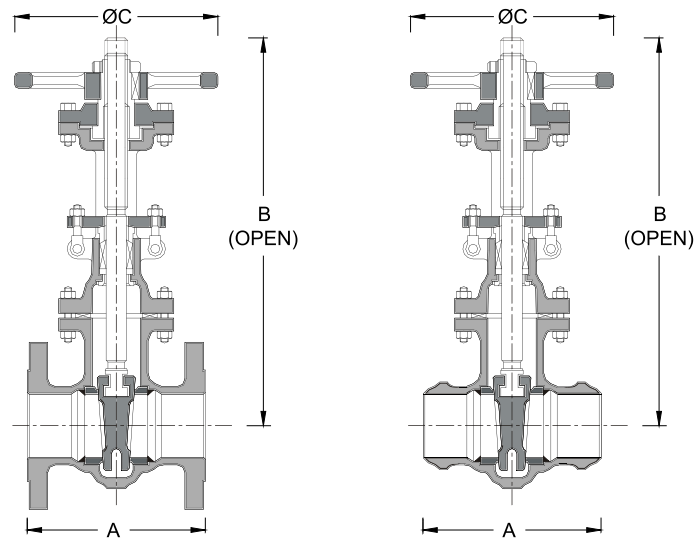
Welcome to UNOAM CO automation & metering solution ! Thanks you for the interest in our products. We are pleased to present you with this overview of our outstanding portfolio of products and services we offer. Inside these pages you will find products that solve your problems, provoke ideas, or raise your awareness of the broad range of products we have available to meet a myriad of applications and service conditions.

When you look inside UNOAM CO products you will find more than just iron & steel. There you will find the latest technology in design, metallurgy, casting & machining all founded on our operational excellence principles that drive out waste and increase repeatability. In the long run, we strive for competitive products that meet or exceed your specification, and are delivered to you on-time. Our formula of success has been quality and performance.

The people who design, manufacture, purchase, build, ship, quote, sell and support the products are dedicated to providing you with the best products at the lowest cost of ownership. We work hard, because we know your processes demand it. From simplest service to most critical process in your facility, UNOAM CO based on trust you instilled, technology desired as per latest innovation available in modern day market, we deliver solutions you entail.



Gorprit Singh
Managing Director, UNOAM CO



GATE VALVE

CLASS - 150 - 300 - 600

TESTING STANDARD	DESIGN STANDARD	OPERATING DATA	TESTING PRESSURE IN BAR	#150	#300	#600
API 598/ASME B16.34	API 600/API6D/ASME B 16.34	Pressure range up to 104 bar (1480 PSI) Temperature range up to +593° C/1100 F	HYDRO SHELL	30	77	155
			HYDRO SEAT	22	57	113
			AIR SEAT	7	7	7

SIZE	CLASS - 150				CLASS - 300				CLASS - 600			
mm.	A	B	ØC	WT.	A	B	ØC	WT.	A	B	ØC	WT.
15	108	210	100	4.5	140	210	100	5.1	--	--	--	--
20	117	215	100	5.0	152	215	100	6.5	--	--	--	--
25	127	250	150	6.7	165	250	150	8.0	--	--	--	--
40	165	300	200	11.7	190	300	200	14.7	--	--	--	--
50	178	345	200	17	216	345	200	19.6	292	405	250	31
65	190	410	200	26	241	425	250	29	330	420	250	41
80	203	435	250	28	282	460	250	44	356	460	300	53
100	229	550	250	44	305	550	300	76	432	595	450	98
125	254	650	300	56	381	685	450	99	508	690	450	138
150	267	750	300	79	403	790	450	135	559	825	600	216
200	292	960	450	128	419	990	450	218	660	1065	600	361
250	330	1155	450	193	457	1230	600	371	787	1280	750	603
300	356	1390	600	291	502	1475	600	478	838	1540	*	830
350	381	1575	600	318	762	1310	750	583	889	1750	*	1285
400	406	1710	750	423	838	1870	*	989	991	2075	*	1890
450	432	1950	750	653	914	2035	*	1191	1092	2215	*	2075
500	457	2225	*	730	991	2220	*	1550	--	--		
600	508	2560	*	1290	1143	2550	*	1812	--	--		
700	610	2945	*	1750								
800	711	3325	*	3290								
900	711	3750	*	4450								
1000	813	3995	*	4780								

* Bevel Gear Actuators Mandatory

COMPONENTS	MATERIALS
BODY & BONNET	ASTM A216 Gr. WCB, A217 Gr. WC6 / WC9 / C5 / C12, A352 Gr. LCB, A351, Gr. CF8 / CF8M / CF3 / CF3M
WEDGE & SEAT RING	ASTM A217 Gr. Ca15 or WCB + 13% Cr. Facing, WC6, + Stellite, A351 Gr. CF8 / CF8M / CF3 / CF3M
STEM, GLAND & BONNET BUSH	ASTM A276 TYPE 410 / 304 / 316
YOKE SLEEVE	Ni-Resist ASTM A439 Gr.D2
GLAND PACKING	Premoulded Grafoil rings / Braided Non asbestos rings / PTFE
GASKET	Spiral Wound 304 / 306 with CAF / Graphite / PTFE filled
STUD / NUT	ASTM A193 Gr. B7/ B16 / B8 / B8M / A194 Gr. 2H / 7 / 8 / 8M
HAND WHEEL	Carbon Steel / Malleable Iron
Surface Protection for	Prime Coat : Chlorine free with modified alkyd resin unobjectionable in physiological and
Carbon steel Valves	toxicological respects. Additional External Coating : Silver Streak aluminium Paint

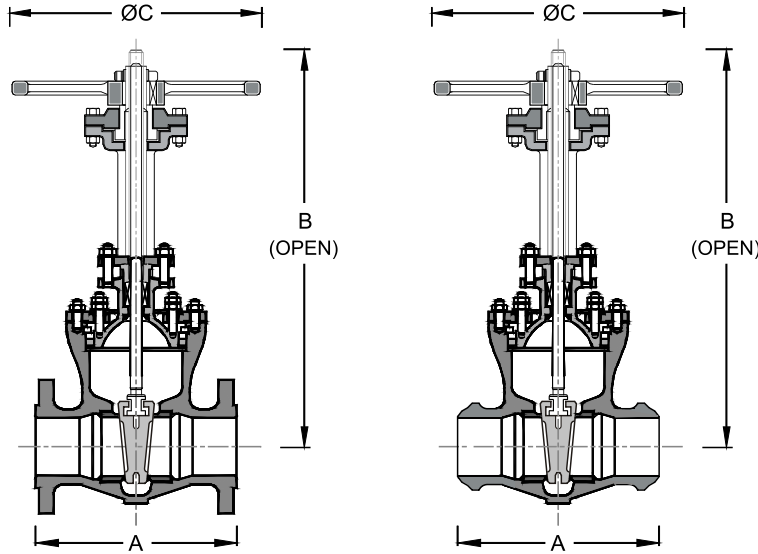
* All dimensions are in mm.

* CS/Alloy Steel wedges and Seatrings will be over layed with 13% Chrome or Stellite 6 As per customer specifications.

* Optional Features : Jacketed, Bypass arrangement, Locking arrangement, Stem extensions, IBR, Cryogenic & other as per customer requirement.

* Due to continuous developments we reserve the right to change specifications without notice.

* Above 600mm sizes are under development.



PRESSURE SEAL GATE VALVE

CLASS - 900-1500

TESTING STANDARD	DESIGN STANDARD	OPERATING DATA	TESTING PRESSURE IN BAR	#900	#1500
API 598/ASME B16.34	API 600/API6D/ASME B 16.34	Pressure range up to 104 bar (1480 PSI) Temperature range up to +593° C/1100 F	HYDRO SHELL	230	384
			HYDRO SEAT	169	282
			AIR SEAT	7.0	7.0

SIZE	CLASS - 900						CLASS - 1500									
mm.	A		B	ØC	Wt.		A		B	ØC	Wt.					
	FE	BWE			FE	BWE	FE	BWE			FE	BWE				
50	368	216	490	300	61	43	368	216	490	300	62	44				
65	419	254	545	450	89	58	419	254	545	450	90	59				
80	381	305	625	450	98	68	470	305	625	600	119	80				
100	457	356	680	600	133	90	546	406	680	750	144	124				
125	559	432	870	600	205	145	673	483	885	*	291	196				
150	610	508	1050	*	335	210	705	559	1090	*	446	286				
200	737	660	1310	*	601	420	832	711	1495	*	881	566				
250	838	787	1425	*	801	655	991	864	1595	*	1331	917				
300	965	914	1680	*	1116	866	1130	991	1850	*	2531	1958				

FE = Flanged End, BWE = Butt Weld End

* Bevel Gear Actuators Mandatory

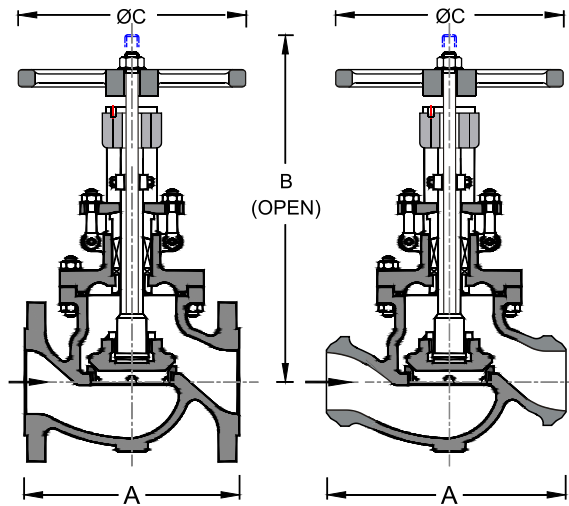
COMPONENTS	MATERIALS
BODY & BONNET	ASTM A216 Gr. WCB, A217 Gr. WC6 / WC9 / C5 / C12, A351 Gr. CF8 / CF8M / CF3 / CF3M
WEDGE & SEAT RING	ASTM A216 Gr. WCB, A217 Gr. WC6, A351 Gr. CF8 / CF8M / CF3 / CF3M, Seat faces are stellite
STEM & GLAND	ASTM A276 TYPE 410 / 304 / 316
YOKE SLEEVE	Ni-Resist ASTM A439 Gr.D2
GLAND PACKING	Premoulded Grafoil rings / Braided + non asbestos rings.
PRESSURE SEAL RING	Expanded Graphite
STUD / NUT	ASTMA193Gr. B7 / B16 / B8 / B8M / A194 Gr. 2H / 7 / 8 / 8M
HAND WHEEL	Carbon Steel / Malleable Iron
Surface Protection for	Prime Coat : Chlorine free with modified alkyd resin unobjectionable in physiological and
Carbon steel Valves	toxicological respects. Additional External Coating : Silver Streak aluminium Paint

* All dimensions are in mm.

* CS/Alloy Steel wedges and Seatrings will be over layed with Stellite 6.

* Optional Features : IBR, Bypass arrangement, Stem Extension, Locking arrangement & Other as per customer requirement.

* Due to continuous developments we reserve the right to change specifications without notice.



GLOBE VALVE

CLASS - 150 - 300 - 600

TESTING STANDARD	DESIGN STANDARD	OPERATING DATA	TESTING PRESSURE IN BAR	#150	#300	#600
BS EN 12266-1/ASME B16.34	BS 1873/ASME B16.34	Pressure range up to 104 bar (1480 PSI) Temperature range up to +593 ^o C/1100 F	HYDRO SHELL	30	77	155
			HYDRO SEAT	22	57	113
			AIR SEAT	7	7	7

SIZE	CLASS - 150				CLASS - 300				CLASS - 600			
mm.	A	B	ØC	WT.	A	B	ØC	WT.	A	B	ØC	WT.
15	108	205	100	4.6	152	205	100	5.0	--	--	--	--
20	117	210	100	5.1	178	210	100	6.7	--	--	--	--
25	127	230	150	6.6	203	230	150	8.0	--	--	--	--
40	165	260	200	9.7	229	260	200	13.5	--	--	--	--
50	203	295	200	15.1	267	295	200	17.7	292	330	250	41
65	216	290	200	31	292	351	250	36	330	347	300	56
80	241	345	250	37	318	360	300	47	356	408	450	71
100	292	349	300	53	356	413	450	74	432	480	600	122
125	356	410	300	78	400	471	450	111	508	595	*	271
150	406	450	450	93	444	567	600	167	559	1030	*	352
200	495	535	*	166	559	800	*	208	660	1150	*	628
250	622	815	*	245	622	1235	*	453	787	1255	*	853
300	698	900	*	383	711	1335	*	738	838	1330	*	1034
350	787	1415	*	529	838	1465	*	925	889	1490	*	1250

★ Bevel Gear Actuators Mandatory

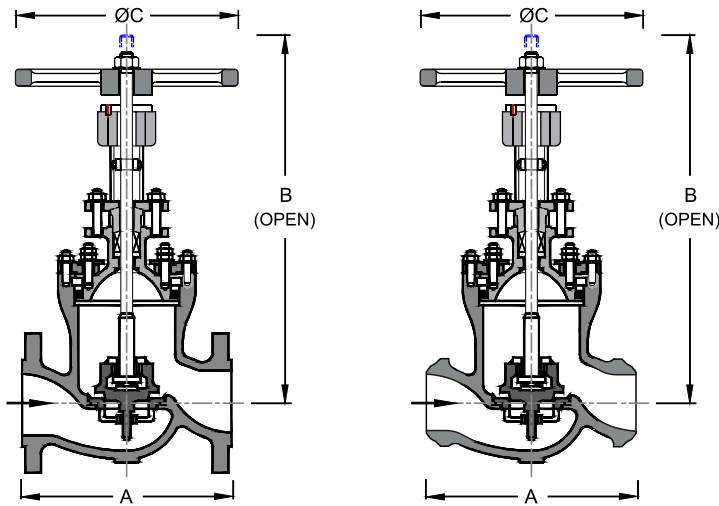
COMPONENTS	MATERIALS
BODY & BONNET	ASTM A216 Gr. WCB, A217 Gr. WC6 / WC9 / C5 / C12, A352 Gr. LCB, A351 Gr. CF8 / CF8M / CF3 / CF3M
DISK & SEAT RING	ASTM A217 Gr. Ca15 or WCB + 13% Cr. Facing, WC6 + Stellite, A351 Gr. CF8 / CF8M / CF8M / CF3 / CF3M
STEM, GLAND & BONNET BUSH	ASTM A276 TYPE 410 / 304 / 316
YOKE SLEEVE	Ni-Resist ASTMA-439 Gr.D2
GLAND PACKING	Premoulded Grafoil rings / Braided Non asbestos rings / PTFE
GASKET	Spiral Wound 304 / 316 with CAF / Graphite / PTFE filled
STUD / NUT	ASTMA193Gr. B7 / B16 / B8 / B8M / A194 Gr. 2H / 7 / 8 / 8M
HAND WHEEL	Carbon Steel / Malleable Iron
Surface Protection for	Prime Coat : Chlorine free with modified alkyd resin unobjectionable in physiological and
Carbon steel Valves	toxicological respects. Additional External Coating : Silver Streak aluminium Paint

* All dimensions are in mm.

* CS/Alloy Steel discs and Seatings will be over layed with 13% Chrome or Stellite 6.

* Optional Features : Additional soft seat, Bypass arrangement, Stem extension, cryogenic, IBR, Locking arrangement & Other as per customer requirement.

* Due to continuous developments we reserve the right to change specifications without notice.



PRESSURE SEAL GLOBE VALVE

CLASS - 900 - 1500

TESTING STANDARD	DESIGN STANDARD	OPERATING DATA	TESTING PRESSURE IN BAR	#900	#1500
API 598/ASME B16.34	API 600/API6D/ASME B 16.34	Pressure range up to 104 bar (1480 PSI) Temperature range up to +593 ^o C/1100 F	HYDRO SHELL	230	384
			HYDRO SEAT	169	282
			AIR SEAT	7	7

SIZE	CLASS - 900						CLASS - 1500									
mm.	A		B	ØC	Wt.		A		B	ØC	Wt.					
	FE	BWE			FE	BWE	FE	BWE			FE	BWE				
50	368	216	570	600	87	53	368	216	570	600	87	62				
65	419	254	580	600	102	55	419	254	580	600	102	55				
80	381	305	515	600	107	57	470	305	630	*	112	92				
100	457	356	715	*	142	127	546	406	715	*	237	112				
125	559	432	1010	*	228	205	673	483	1025	*	308	230				
150	610	508	1150	*	268	328	705	559	1115	*	469	358				
200	737	660	1230	*	683	631	832	711	1200	*	783	813				
250	838	787	1370	*	1304	831	991	864	1320	*	1504	1364				
300	965	914	1520	*	1905	1725	1130	991	1430	*	2306	1945				

FE = Flanged End, BWE = Butt Weld End

★ Bevel Gear Actuators Mandatory

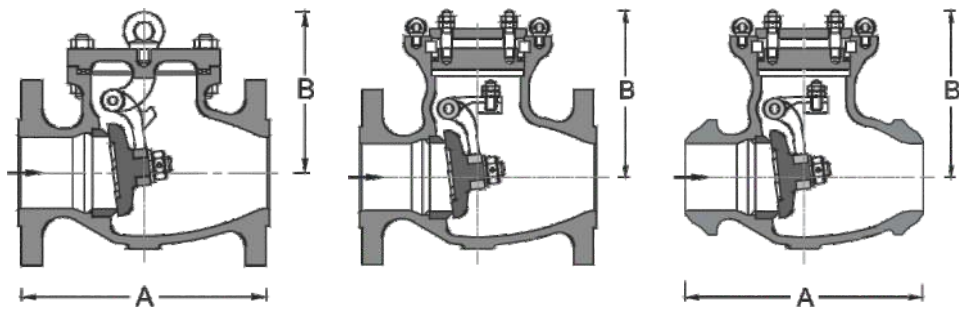
COMPONENTS	MATERIALS
BODY & BONNET	ASTM A216 Gr. WCB, A217 Gr. WC6 / WC9 / C5 / C12, A351 Gr. CF8 / CF8M / CF3 / CF3M
DISK & SEAT RING	ASTM A216 Gr. WCB, A217 Gr. WC6, A351 Gr. CF8 / CF8M / CF3 / CF3M, Seat faces are stellite
STEM & GLAND	ASTM A276 TYPE 410 / 304 / 316
YOKE SLEEVE	Ni-Resist ASTMA-439 Gr.D2
GLAND PACKING	Premoulded Grafoil rings / Braided + Moulded Grafoil rings
PRESSURE SEAL RING	Expanded Graphite
STUD / NUT	ASTMA193Gr. B7/B16/B8/B8M/A194Gr.2H/7/8/8M
HAND WHEEL	Carbon Steel, Alloy Steel
Surface Protection for	Prime Coat : Chlorine free with modified alkyd resin unobjectionable in physiological and
Carbon steel Valves	toxicological respects. Additional External Coating : Silver Streak aluminium Paint

* All dimensions are in mm.

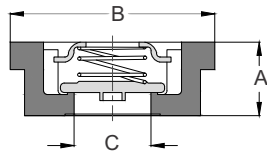
* CS/Alloy Steel discs and Seatings will be over layed with Stellite 6.

* Optional Features : Jacketed, IBR, Stem Extension, Bypass arrangement, Locking arrangement & Other as per customer requirement.

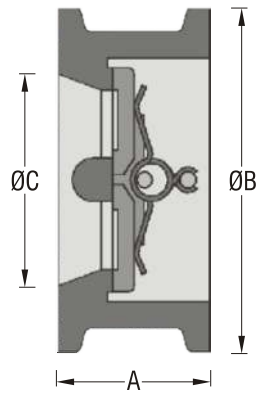
* Due to continuous developments we reserve the right to change specifications without notice.



CLASS - 150 - 300 - 600
900 - 1500



NON SLAM



DUAL PLATE

BOLTED COVER & PRESSURE SEAL SWING CHECK VALVES

TESTING STANDARD	DESIGN STANDARD	TESTING PRESSURE IN BAR	#150	#300	#600	#900	#1500	
API 6D, EN 12266-1 FOR CLASS 150,300 & 600 API 6D, API 598 FOR CLASS 900,1500,2500	API 6D, BS 186B FOR CLASS 150,300,600 API 6D, ASME B16.34 FOR CLASS 900,1500,2500	HYDRO SHELL	30	77	155	230	984	
		HYDRO SEAT	22	57	113	169	282	
		AIR SEAT	7	7	7	7	7	

BOLTED COVER							PRESSURE SEAL									
SIZE	CLASS - 150			CLASS - 300			CLASS - 600			CLASS - 900			CLASS - 1500			
mm.	A	B	Wt.	A	B	Wt.	A	B	Wt.	A	B	Wt.	A	B	Wt.	
40	165	95	7.3	241	95	11	--	--	--	--	--	--	--	--	--	
50	203	115	12	267	120	18.5	292	138	25.5	216	180	18.5	216	180	18.5	
65	216	120	17.5	292	132	21.5	330	145	32.5	254	195	29.5	254	195	26.5	
80	241	135	25.5	318	150	34.5	356	165	62.5	305	235	34.6	305	235	38.5	
100	292	150	41.5	356	170	54.6	432	190	116	356	265	48	406	265	84	
125	330	170	57	400	210	76	508	220	166	432	310	70	483	310	115	
150	356	195	74	444	210	107	559	255	211	508	325	107	559	325	146	
200	495	220	104	533	255	161	660	300	356	660	460	276	711	460	354	
250	622	260	161	622	305	255	787	335	481	787	535	471	864	535	603	
300	698	310	227	711	350	357	838	395	726	914	630	547	991	630	692	
350	787	365	353	838	390	623	--	--	--	--	--	--	--	--	--	
400	864	505	475	864	530	683	--	--	--	--	--	--	--	--	--	
450	978	565	538	978	590	1254	--	--	--	--	--	--	--	--	--	
500	978	610	873	1016	655	1464	--	--	--	--	--	--	--	--	--	
600	1295	740	1093	1346	790	2059	--	--	--	--	--	--	--	--	--	
700	1448	795	1585	1499	817	3120										
800	1651	820	2050	1778	970	3928										
900	1956	1050	2610	2083	1105	4410										
1000	2160	1280	3550	1900	1400	3990										

COMPONENTS	MATERIALS
BODY / COVER / HINGE / BRACKET	ASTM A216 Gr. WCB, A217 Gr. WC6 / WC9 / C5 / C12, A352 Gr. LCB, A351 Gr. CF8 / CF8M / CF3 / CF3M
DISK & SEAT RING	ASTM A216 Gr. WCB, A217 Gr. WCB, A351 Gr. CF8 / CF8M / CF3 / CF3M
GASKET	Spiral Wound 304 / 316 with CAF / Graphite / PTFE filled (Applicable for bolted cover Valves)
PRESSURE SEAL RING	Expanded Graphite (Applicable for Pressure Seal Check Valves)
STUD / NUT	ASTM A193 Gr. B7 / B16 / B8 / B8M / A194 Gr.2H / 7 / 8 / 8M
Surface Protection for	Prime Coat : Chlorine free with modified alkyd resin unobjectionable in physiological and
Carbon steel Valves	toxicological respects. Additional External Coating : Silver Streak aluminium Paint

* All dimensions are in mm.
* CS/Alloy Steel Disc and Seatrings will be over layed with 13% Chrome or Stellite 6
* Optional Features : Jacketed, IBR, Soft Seat & Others as per customer requirement.
* Due to continuous developments we reserve the right to change specifications without notice.

NON SLAM, DUAL PLATE CHECK VALVES

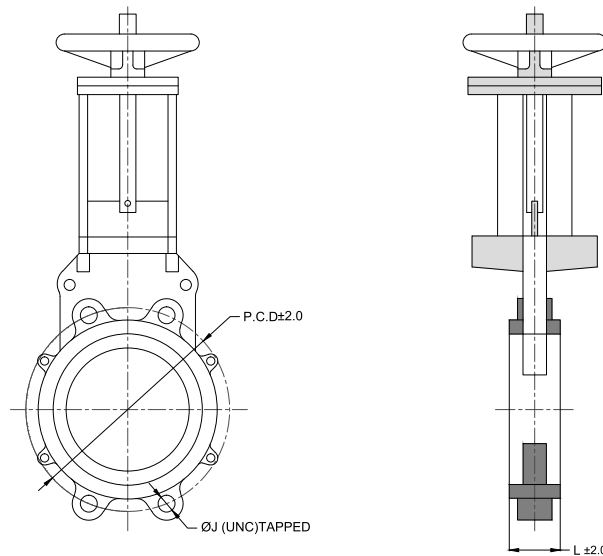
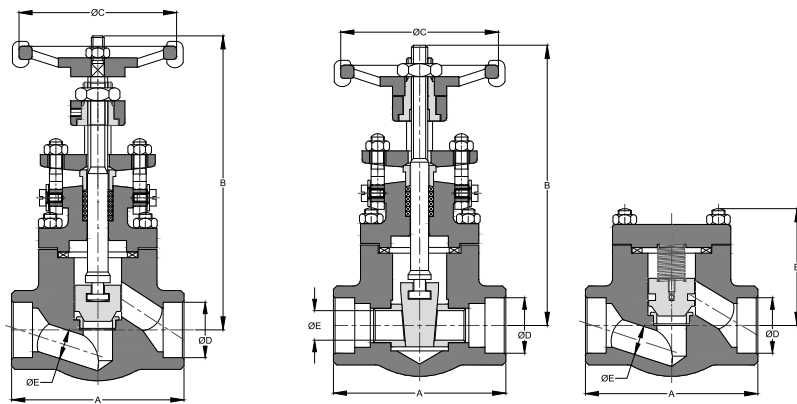
	NON SLAM	DUAL PLATE	TESTING PRESSURE IN BAR		
TESTING STANDARD	STD	API 6D	NON SLAM & DUAL PLATE		
DESIGN STANDARD	API - 598	API 6D	TESTING PRESSURE IN BAR	#150	#300
			HYDRO SHELL	30	76
			HYDRO SEAT	22	55

NON SLAM				
SIZE	A	B	C	Wt.(1)
mm				
15	17	38	14	0.17
20	20	48	19	0.23
25	23	54	24	0.30
32	28	66.5	31.5	0.60
40	32	76	38	0.70
50	40	96	48	1.2
65	46	109	63	1.8
80	50	131	76	2.6
100	60	162	98	4.6
125	90	194	125	12
150	106	224	150	16
200	140	291	200	31
250	200	329	250	30
300	250	380	300	50
350	--	--	--	--
400	--	--	--	--
450	--	--	--	--
500	--	--	--	--
600	--	--	--	--
700				
800				
900				
1000				
1200				
1400				
1600				

DUAL PLATE						
A		B		C	Wt.(1)	
150	300	150	300	150/300	150	300
--	--	--	--	--	--	--
--	--	--	--	--	--	--
--	--	--	--	--	--	--
--	--	--	--	--	--	--
60	60	101	108	50	5.8	6.1
67	67	120	127	65	7.2	8.3
73	73	133	146	80	8.5	10.5
73	73	172	178	100	10	12
83	83	193	207	125	12	14
98	98	219	248	150	13	16
127	127	276	305	200	26	30
146	146	337	359	250	48	57
181	181	406	419	300	78	91
184	222	448	482	350	103	170
191	232	511	536	400	142	204
203	264	546	594	450	148	271
219	292	603	651	500	188	345
222	318	714	772	600	252	492
305	368	829	829	700		
356	368	936	936	800		
368	483	1044	1044	900		
432	546	1159	1159	1000		
584	629	1381	1381	1200		
				1400		
				1600		

COMPONENTS	MATERIALS
BODY	Carbon Steel ASTM A 216 Gr. WCB / Stainless Steel A 351 Gr. CF8/CF8M/Ductile Iron ASTM A 395
DISC & COVER	Stainless Steel ASTM A 276 Type 410 / 304 / 316 ASTM a 217 Gr. CA CA 15 / Carbon Steel ASTM A 216 Gr.WCB / Stainless Steel ASTM A 351 Gr. CF8 / CF8M / Ductile Iron ASTM A 395
GUIDE PLATE & SPRING	Stainless Steel ASTM A 276 Type 316
'O' RING (BODY & DISC)	Elastomer (Grade according to working conditions)
HINGE PIN	Stainless Steel ASTM A 276 Type 410 / 304 / 316
SURFACE PROTECTION FOR DUCTILE IORN	Prime Coat : Chlorine free with modified alkyd resn unobjectionable in physiological and toxicological respects.
AND CAST STEEL VALVES	Additional external coating : Enamel

* All dimensions are in mm.
* Nett. in Kg. approx.(without obligation)
* Ductile Iron for Wafer, Sizes 350 & above.
* Cover & Guide plate applicable for Non Slam.
* Spring applicable for Wafer Check Valves from Sizes 50 to 300 only.
* Dual plate Valves can be supplied with soft seating arrangement on requests.
* Valves can be supplied to suit ASME / BS / DIN Flanges
* Please Specify Working Pressure, Remperature & Service Conditions.
* Other materials not mentioned above available on requests.



FORGED VALVE

CLASS - 800 - 1500

TESTING STANDARD	DESIGN STANDARD	END CONNECTIONS	TESTING PRESSURE IN BAR	#800	#1500
API 598 / EN 12266-1	API 602, ISO - 15761, BS : 5352, ASME B 16-34	SE Screwed ends to NPT(F) or BSP(F) or BSPT (F) SWE Socket weld ends to ASME B 16.11 BWE Butt weld ends to ASME B 16.25	HYDRO SHELL HYDRO SEAT AIR SEAT	211 152 7	383 281 7

SIZE	FORGED GATE VALVE CLASS - 800						FORGED GATE VALVE CLASS - 1500					
mm.	A	B	ØC	ØD	ØE	Wt.	A	B	ØC	ØD	ØE	Wt.
15	90	158	108	21.8	9	1.7	95	170	108	21.8	9	2.1
20	95	170	108	27.2	12	2.1	105	181	108	27.2	12	3.5
25	105	190	108	33.9	17	3.5	139	247	174	33.9	15	6.6
40	139	258	174	48.8	28	6.6	140	250	174	48.8	27	10
50	160	260	174	61.2	36	10	140	281	174	61.2	34	--

SIZE	FORGED GLOBE VALVE CLASS - 800						FORGED GLOBE VALVE CLASS - 1500					
mm.	A	B	ØC	ØD	ØE	Wt.	A	B	ØC	ØD	ØE	Wt.
15	90	166.5	108	21.8	9	1.7	95	181	108	21.8	8	2.2
20	95	181	108	27.2	12	2.2	105	186	108	27.2	9	3.8
25	105	196	108	33.9	17	3.4	139	248	174	33.9	14	7.8
40	139	266	174	48.8	28	7.8	140	260	174	48.8	25	11.4
50	160	280	174	61.2	36	11.4	140	263	174	61.2	27	--

SIZE	FORGED CHECK VALVE CLASS - 800						FORGED CHECK VALVE CLASS - 1500					
mm.	A	B	ØC	ØD	ØE	Wt.	A	B	ØC	ØD	ØE	Wt.
15	90	55	--	21.8	9	1.46	95	55	--	21.8	8	2
20	95	65	--	27.2	12	2	105	59	--	27.2	9	2.5
25	125	75	--	33.9	17	2.5	139	86	--	33.9	14	6.1
40	149	100	--	48.8	28	6.1	140	86	--	48.8	25	8.9
50	160	105	--	61.2	36	8.9	140	97	--	61.2	27	--

COMPONENTS	MATERIALS
BODY, BONNET, GLAND FLANGE & COVER	ASTM A 105 / ASTM A 182 Gr. F11, F22, F5, F9, F304 & F316
WEDGE / PLUG	ASTM A217 Gr. CA15 / ASTM A 351 Gr. CF8 / CF8M
DISC / SEAT TING / STEMS & GLAND	ASTM A 276 TYPE 410 / 304 / 316
YOKE SLEEVE	S.G. Iron EN 1563 No. EN-JS 1050 / Nil - Resist ASTM A 439 Gr. D2
PACKING	Pre moulded Grafoil Rings / Braided + Moulded Grafoil Rings
GASKET	Spiral Wound 304 / 316 with CAF / Graphite / PTFE filled
SPRING	ASTM A 312 TYPE 316
STUD / NUT	ASTM A193 Gr. B7 / B16 / B8 / B8M / A194 Gr.2H / 7 / 8 / 8M
HAND WHEEL	Malleable Iron
Surface Protection for Carbon Steel Valves	Prime Coat : Chlorine free with modified alkyd resin unobjectionable in physiological and toxicological respects. Additional External Coating : Silver Streak aluminium Paint

* All dimensions are in mm.
* Optional Features : IBR, Stem Extension, Position Indicator, Cryogenic, Locking arrangement & Other as per customer requirement.
* Due to continuous developments we reserve the right to change specifications without notice.

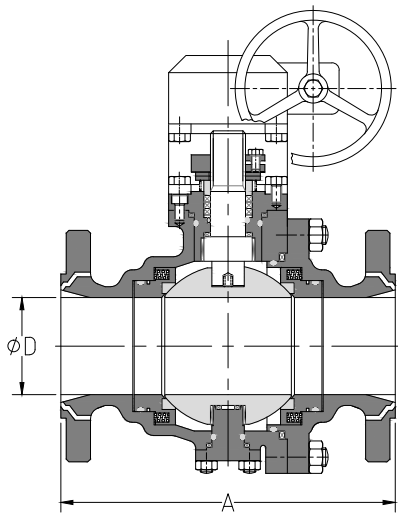
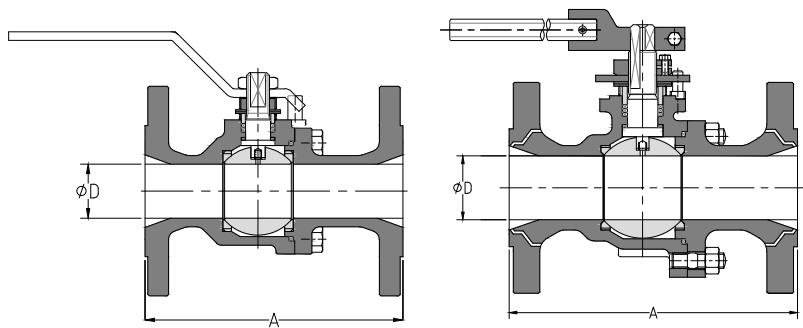
KNIFE EDGE GATE VALVE

TESTING STANDARD	MANUFACTURING STANDARD	HYDRO TEST PRESSURE IN BAR	
Generally Confirming to MSS-SP 81	Generally Confirming to MSS-SP 81	HYDRO SHELL	5 Kg / Cm²
		SEAT	2.8 Kg / Cm²

SIZE	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
L	48	48	48	51	51	57	57	70	70	76	76	89	89	114	114
ØJ(UNC)	1/2"	5/8"	5/8"	5/8"	5/8"	3/4"	3/4"	3/4"	7/8"	7/8"	1"	1"	1.1/8"	1.1/8"	1.1/4"
P.C.D.	98.55	120.7	139.7	152.4	190.5	215.9	241.3	298.5	362	431.8	476.3	539.8	578	635	749

COMPONENTS	MATERIALS
BODY	ASTM A 216 Gr. WCB / A 351 Gr. CF8 / CF8M
PILLARS	CARBON STEEL
GATE	SS 304 / SS316
STEM	SS 410 / SS 304 / SS316
BODY SEAL (NOT SHOWN)	NITRILE RUBBER / EPDM
PACKINGS (NOT SHOWN)	PTFE - IMPREGNATED ASBESTORS LAYERED WITH MOULDED RUBBER
HINGE PIN (SLOTTED TYPE)	STANDARD
YOKE SLEEVE (NOT SHOWN)	S. G. IRON
SLEEVE RETAINER	SS 304 / CARBON STEEL
HAND WHEEL	C.I. IS 210 Gr. FG 200

* All Dimensions are in mm.
* Ends : Wafer and Lugged
* Optionals : Pneumatic Actuator, Limit Switch, Solinoid Valve, Air Filter, Regulator Etc.,
* Application : Pulp, Fibrous, Paper Pulp Slurries and Sludge
* Due to continuous development we reserve the right to change specifications without notice.



FLOATING BALL VALVE

CLASS - 150 - 300 - 600

TESTING STANDARD	DESIGN STANDARD	TESTING PRESSURE IN BAR	#150	#300	#600
API 6D,API598,BS EN 12266-1, ISO 5208, ASME B 16.34, API 607 / 6FE	API 6D,API 608,ASME B 16.34, BS EN ISO 17292 (BS 5351)	HYDRO SHELL	30	77	153
		HYDRO SEAT	22	57	113
		AIR SEAT (Soft Seat)	7	7	7

TECHNICAL SPECIFICATIONS	
SEAT LEAKAGE	: NO LEAKAGE (SOFT SEAT)
	: CLASS IV-METAL SEAT
OPERATIONS	: LEVER / GEAR / PNEUMATIC / ELECTRICAL ACTUATOR
FLOATING BALL VALVE	: 15 NB TO 300 NB FOR CLASS 150, 300 ,600 RB/FB / FE / BWE
END CONNECTION	: FLANGE / BUTT WELD ENDS

SIZE			CLASS - 150			CLASS - 300			CLASS - 600		
mm.	ØD		A	Wt.		A	Wt.		A	Wt.	
	RB	FB		RB	FB		RB	FB		RB	FB
15	–	13	108	1.4	1.4	140	2.0	2.7	165	2.8	3.5
20	13	19	117	1.8	2.3	152	2.8	3.7	190	4.5	5.2
25	19	25	127	2.5	3.0	165	4.0	4.7	216	6.2	8.0
32	25	32	140	3.5	4.5	178	5.5	6.5	229	8.5	9.2
40	32	38	165	4.5	6.0	190	8.0	9.5	241	12.5	14.5
50	38	50	178	7.0	8.5	216	10	11	292	15.5	20.5
65	50	62	190	10.5	15.5	241	13	21	330	24	31
80	62	76	203	16.0	18.5	282	25	31	356	32	38
100	76	100	229	23.5	31.5	305	39	49	432	63	88
150	100	152	267	41	57	403	69	140	559	83	–
200	152	201	292	72	93	419	153	223	–	–	–
250	201	252	330	124	155	457	195	278	–	–	–
300	252	303	356	145	288	502	273	–	–	–	–

RB = Reduced Bore, FB = Full Bore FE = Flanged End, BWE = Butt Weld End

COMPONENTS	MATERIALS
BODY / END PIECE	WCB, LCB ASTM A351 Gr.CF8 / CF8M /CF3/CF3M/CD4MCu/ CN7M / DUPLEX
BALL	CA 15 / CF8 / CF8M /CF3/CF3M/CD4MCu/ CN7M /DUPLEX
STEM	Stainless Steel ASTM A 564 TYPE 630 (17-4PH) / ASTM A276 Type 410 Hardened / 17-4 PH
SEAT	PTFE / RPTFE/DELRIN/NYLON/PEEK/METAL
METAL SEAT	Stainless Steel ASTM A276 Type 410 Hardened / ASTM A276 Type 316 Stellite
STEM SEAL	Grafoil / PTFE
STEM WASHER	RPTFE
BODY SEAL	Grafoil / PTFE
GLAND NUT	STAINLESS STEEL
BODY STUD / NUT	ASTM A193 Gr.B7,ASTM A194 Gr. 2H / ASTM A320 Gr.L7,ASTM A194 Gr.7

- * All dimensions are in mm.
- * Gear operation suggested dimensions on request.
- * Valves upto 150 RB with lever.
- * All sizes of Ball valves can also be provided with gear actuators (Electrical / Pneumatic / Flanged End with Ring Type Joint Facing Available.
- * Due to continuous developments we reserve the right to change specifications without notice.

***RING JOINT FLANGED OR WELDING ENDS**

***LEVER OPERATED**

TRUNNION MOUNTED BALL VALVE

CLASS - 150 - 300 - 600

TESTING STANDARD	DESIGN STANDARD	OPERATING DATA	TESTING PRESSURE IN BAR	#150	#300	#600
API 6D,API598, BS EN 12266-1, ISO 5208, ASME B 16.34, API 607 / 6FE	API 6D,API 608,ASME B 16.34, BS EN ISO 17292 (BS 5352)	Pressure range up to 104 bar (1480 PSI) Temperature range up to +593° C/1100 F	HYDRO SHELL	30	77	153
			HYDRO SEAT	22	57	113
			AIR SEAT (Soft Seat)	7	7	7

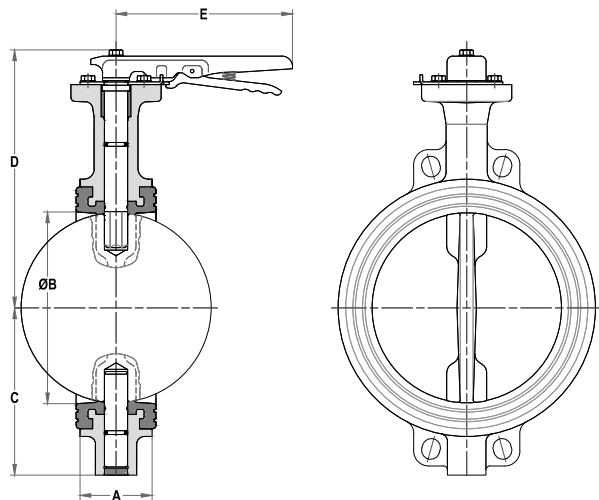
TECHNICAL SPECIFICATIONS	
SEAT LEAKAGE	: NO LEAKAGE (SOFT SEAT)
	: CLASS IV-METAL SEAT
OPERATIONS	: LEVER / GEAR / PNEUMATIC / ELECTRICAL ACTUATOR
TRUNINION MOUNTED BALL VALVE	: 50 NB TO 600 NB FOR CLASS 150, 300 ,600 RB/FB (FE/BWE)

SIZE	ØD		CLASS - 150				CLASS - 300				CLASS - 600			
	RB	FB	FE	BWE	RB	FB	FE	BWE	RB	FB	FE/BWE	RB	FB	FB
50	–	50	178	216	12	16	216	216	14	20	292	22	35	
65	50	62	190	241	17	23	241	241	25	33	330	38	50	
80	62	76	203	282	25	35	282	282	35	41	356	49	68	
100	76	100	229	305	36	55	305	305	51	59	432	93	135	
150	100	152	394	457	65	120	403	457	110	178	559	178	298	
200	152	201	457	521	130	195	502	521	205	280	660	345	438	
250	201	252	533	559	205	280	568	559	345	428	787	555	760	
300	252	305	610	635	260	380	648	635	488	520	838	830	955	
350	252	335	686	762	400	552	762	762	652	882	889	912	1285	
400	305	385	762	838	540	888	838	838	844	1180	991	1305	1705	
450	335	436	864	914	635	1080	914	914	1052	1432	1092	1508	2195	
500	385	487	914	991	950	1330	991	991	1325	1548	1194	2047	2895	
600	487	589	1067	1143	1438	2040	1143	1143	2442	2792	1397	3245	4596	

FE = Flanged End, BWE = Butt Weld End RB = Reduced Bore, FB = Full Bore

COMPONENTS	MATERIALS
BODY / END PIECE	CARBON STEEL ASTM A216 Gr.WCB ,A352 Gr. LCB Stainless Steel ASTM A351 Gr.CF8 / CF8M /CF3/CF3M/CD4MCu/ CN7M /DUPLEX
BALL	CA 15 / CF8 / CF8M /CF3/CF3M/CD4MCu/ CN7M /DUPLEX
STEM / TRUNNION	Stainless Steel ASTM A 564 TYPE 630 (17-4PH) / ASTM A276 Type 410 Hardened
SEAT / SEAT INSERT	PTFE / RPTFE/DELRIN/NYLON/PEEK/METAL
METAL SEAT	Stainless Steel ASTM A276 Type 410 Hardened / ASTM A276 Type 316 Stellite
SEAT /RETAINER	ASTM A 217 Gr.CA15 / ASTM A351 Gr. CF8 / CF8M / CN7M
COIL SPRING	INCONEL X-750
O' RING	Viton Gr.B
STEM SEAL	Grafoil
STEM WASHER	RPTFE / Grafoil
BODY SEAL	SPIRAL WOUND SS with Graphite filler
TRUNNION / STUFFING BOX SEAL	PTFE / Grafoil / SPIRAL WOUND SS With Graphite filler
STUFFING BOX	CARBON STEEL ASTM A216 Gr.WCB ,A352 Gr. LCB Stainless Steel ASTM A351 Gr.CF8 / CF8M / CN7M
STUFFING BOX & TRUNION BEARING	SS BACKED PTFE
GLAND NUT	STAINLESS STEEL
BODY STUD / NUT	ASTM A193 Gr.B7,ASTM A194 Gr. 2H / ASTM A320 Gr.L7,ASTM A194 Gr.7

- * All dimensions are in mm.
- * All sizes of Ball valves can also be provided with gear actuators (Electrical / Pneumatic / Flanged End with Ring Type Joint Facing Available.
- * Gear operation suggested dimensions on request.
- * Valves upto 150 RB with lever.
- * Due to continuous developments we reserve the right to change specifications without notice.



RUBBER - LINED BUTTERFLY VALVE

TESTING STANDARD	DESIGN STANDARD	TEST PRESSURE Kg/cm ²	PN 10	PN 16
API 598 / BS EN 12266-Part 1, 2	API 609/BS EN 593	HYDRO SHELL	15	24
		SEAT	11	18
		AIR SEAT	7	7

SIZE mm	A	ØB	C	D	E	MOUNTING FLANGE DRILLING			Wt. Kg. (Approx.)	TORQUE, Nm. (Approx.)
						HOLES	HOLE Ø	PCD		
50	43	50	65	135	260	4	19.1	120.7	2.5	10
65	46	65	70	155	260	4	19.1	139.7	3.0	13
80	46	76	80	160	260	4	19.1	152.4	4.0	18
100	52	100	95	180	260	8	19.1	190.5	5.5	33
125	56	125	110	210	260	8	22.3	215.9	6.5	54
150	56	150	125	215	260	8	22.3	241.3	7.5	70
200	60	200	160	400	200	8	22.3	298.5	18.0	135
250	68	250	200	465	220	12	25.4	362.0	27.0	200
300	78	300	225	510	250	12	25.4	431.8	36.0	275

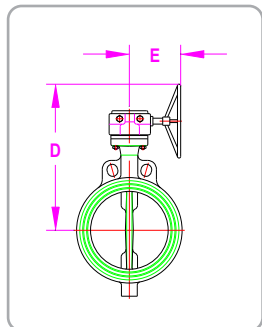
COMPONENTS	MATERIALS
BODY	CI (IS:210-FG 220) /WCB (ASTM A216)
DISC	SGI (ASTM A536-60.40.18)/CF8 & CF8M(ASTM A351)
SEAT	EPDM / NITRILE
STEM	410/304/316 - (ASTM A276)
O-RING	NITRILE

* OPTIONAL FEATURES UPON REQUEST

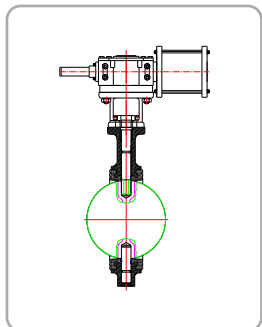
- Wafer-lugged ends.
- Pneumatic / Electrical actuator.
- Other MOC, as per customer requirement.
- Other flange-drillings, subject to confirmation.
- Locking arrangement.
- Stem extension.
- Lever operation up to sizes 150NB; Gear actuators are recommended for sizes 200NB and above.

* All Dimensions are in mm.

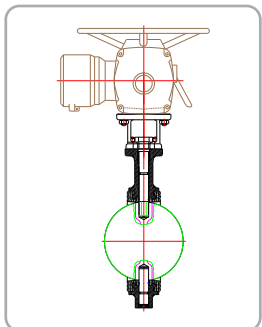
* Due to continuous development we reserve the right to change specifications without notice.



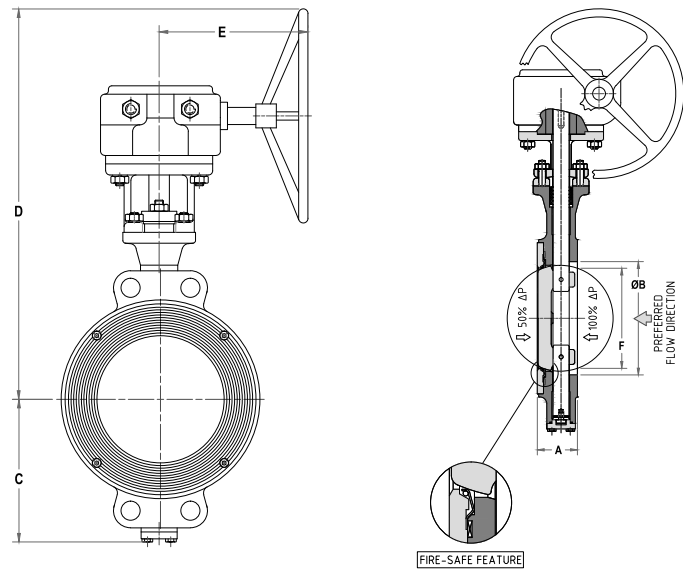
WITH GEAR ACTUATOR



WITH PNEUMATIC ACTUATOR



WITH ELECTRICAL ACTUATOR



DOUBLE - ECCENTRIC BUTTERFLY VALVE

CLASS - 150 - 300

TESTING STANDARD	DESIGN STANDARD	TEST PRESSURE Kg/cm ²	# 150	# 300
API 598 / BS EN 12266-Part 1, 2	API 609/BS EN 593	HYDRO SHELL	31	79
		SEAT	22	58
		AIR SEAT	7	7

	CLASS 150									CLASS 300								
SIZE	A	ØB	C	D	E	F	FLANGE DRILLING			A	ØB	C	D	E	F	FLANGE DRILLING		
mm							HOLES	HOLE Ø	PCD							HOLES	HOLE Ø	PCD
80	48	88	115	240	260	67	4	19.1	152.4	48	88	115	240	260	67	8	22.3	168.3
100	54	113	130	255	260	91	8	19.1	190.5	54	113	130	255	260	91	8	22.3	200.0
150	57	167	168	425	202	150	8	22.3	241.3	59	168	167	439	202	150	12	22.3	269.9
200	64	216	206	490	218	196	8	22.3	298.5	73	216	206	505	218	196	12	25.4	330.2
250	71	271	230	549	253	250	12	25.4	362.0	83	281	271	559	253	250	16	28.5	387.4
300	81	323	265	666	253	302	12	25.4	431.8	92	323	290	682	276	302	16	31.8	450.8

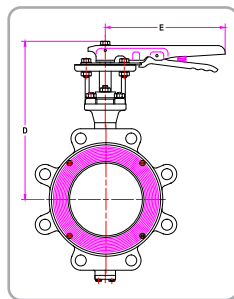
COMPONENTS	MATERIALS
BODY	WCB / CF8 / CF8M
DISC	CA15 / CF8 / CF8M
SEAT RETAINER	WCB / CF8 / CF8M
STEM	410 / 304 / 316
STEM BEARING	304 / 304 / 316
METAL SEAT	304 / 304 / 316
SEAT	PTFE / GFT
BODY SEAL	GRAPHITE
PACKING	GRAPHITE

* OTHER OPTIONALS :

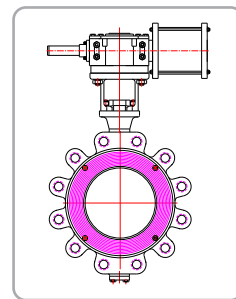
- Other MOC as per customer requirement.
- Locking arrangement.
- Extended stem.
- Extended bonnet.
- Other flange-drillings, subject to confirmation.

* All Dimensions are in mm.

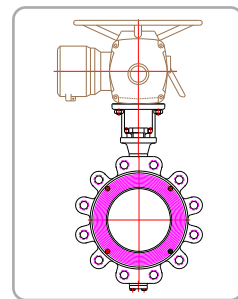
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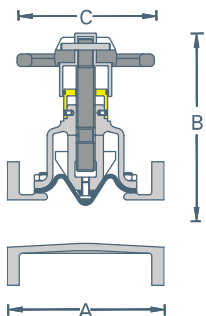
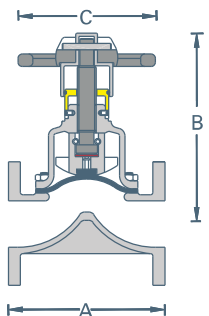
WITH LEVER
(FOR DN ≤ 100)



WITH PNEUMATIC ACTUATOR



WITH ELECTRICAL ACTUATOR



DIAPHRAGM VALVES - RISING HANDWHEEL

Test Pressure in bar (psi)

Pressure rating ²⁾	Series 'S2K'			Series 'G2K'	
	16	10	6	10	6
Hyd. Shell	24 (348)	15 (218)	9 (131)	15 (218)	9 (131)
Seat	17.6 (255)	11 (160)	6.6 (96)	11 (160)	6.6 (96)
Air Seat		5 (73)		5 (73)	

Design std : BS EN 13397
Testing std : EN 12266-1

Dimensions are in mm (inch)

Size mm (inch)	A				B	C	Wt ₁₎				B	C	Wt ₁₎	
	BS			DIN Unlined & Lined			BS	DIN	MSS	BS			DIN	
	Unlined	Rubber Lined	PFA* Lined											
15 (½)	108 (4.3)	114 (4.5)	114 (4.5)	130 (5.1)	105 (4.1)	80 (3.1)	2.5 (5.5)	2.8 (6.2)	2.5 (5.5)	105 (4.1)	80 (3.1)	2.4 (5.3)	2.6 (5.7)	
20 (¾)	117 (4.6)	123 (4.8)	123 (4.8)	150 (5.9)	115 (4.5)	80 (3.1)	2.6 (5.7)	3.2 (7.0)	3.0 (6.6)	115 (4.5)	80 (3.1)	2.8 (6.2)	3.0 (6.6)	
25 (1)	127 (5.0)	133 (5.2)	133 (5.2)	160 (6.3)	132 (5.2)	120 (4.7)	3.5 (7.7)	4.2 (9.3)	4.0 (8.8)	135 (5.3)	120 (4.7)	4.2 (9.3)	4.6 (10.1)	
32 (1¼)	146 (5.7)	152 (6.0)	152 (6.0)	180 (7.1)	140 (5.5)	120 (4.7)	4.5 (9.9)	5.5 (12.1)	5.0 (11.0)	135 (5.3)	120 (4.7)	4.5 (9.9)	5.5 (12.1)	
40 (1½)	159 (6.3)	165 (6.5)	165 (6.5)	200 (7.9)	180 (7.1)	150 (5.9)	7.0 (15.4)	8.0 (17.6)	7.5 (16.5)	135 (5.3)	120 (4.7)	5.5 (12.1)	6.0 (13.2)	
50 (2)	190 (7.5)	196 (7.7)	196 (7.7)	230 (9.1)	210 (8.3)	150 (5.9)	10 (22)	15 (33)	11 (24)	175 (6.9)	180 (7.1)	10 (22)	11 (24)	
65 (2½)	216 (8.5)	222 (8.7)	222 (8.7)	290 (11.4)	235 (9.3)	180 (7.1)	15 (33)	19 (42)	16 (35)	200 (7.9)	180 (7.1)	16 (35)	18 (39)	
80 (3)	254 (10.0)	260 (10.2)	260 (10.2)	310 (12.2)	305 (12.0)	250 (9.8)	22 (49)	26 (57)	23 (51)	260 (10.2)	250 (9.8)	25 (55)	28 (62)	
100 (4)	305 (12.0)	313 (12.3)	311 (12.2)	350 (13.8)	340 (13.4)	250 (9.8)	38 (84)	43 (95)	38 (84)	275 (10.8)	250 (9.8)	33 (73)	37 (82)	
125 (5)	356 (14.0)	364 (14.3)	362 (14.2)	400 (15.7)	420 (16.5)	315 (12.4)	63 (139)	69 (152)	71 (156)	340 (13.4)	315 (12.4)	57 (126)	64 (141)	
150 (6)	406 (15.9)	414 (16.3)	412 (16.2)	480 (18.9)	490 (19.3)	360 (14.2)	92 (203)	107 (236)	94 (207)	440 (17.3)	360 (14.2)	67 (148)	82 (181)	
200 (8)	521 (20.5)	529 (20.8)	527 (20.7)	600 (23.6)	645 (25.4)	470 (18.5)	164 (361)	186 (410)	167 (368)	495 (19.5)	470 (18.5)	116 (256)	136 (300)	

* Series 'S2K' only

Materials

Body/Bonnet/Compressor	Cast Iron ASTM A126 Class B / EN-1561 No.EN-JL1040 / S G Iron EN-1563 No.EN-JS1024 / ASTM A395 Gr. 60-40-18 / 30% Cr. Cast Steel ASTM A743 Gr. CC50 / ASTM A216 Gr. WCB / Stainless Steel ASTM A351 Gr. CF8 / CF8M
Body Lining	Ebonite / Natural / Butyl / Neoprene / EPDM / Nitrile, other Elastomers.
Diaphragm	Natural / Butyl / Neoprene / EPDM / Nitrile / Hypalon / Viton / Silicone / PTFE etc.
Stem	Steel ASTM A276 TYPE 410
Connecting studs / nuts	Steel Gr. B7 / 2H
Handwheel	Cast Iron ASTM A126 Class B / EN-1561 No.EN-JL1040
Surface Protection for Cast Iron	Prime Coat : Chlorine free with modified alkyd resin unobjectionable in physiological and toxicological respects.
and Cast Carbon Steel Valves	Additional external coating : Black Stoving Enamel

1) Net in Kg. (lbs) approx. (without obligation) 2) Pressure Rating : Series 'S2K' for Sizes 15mm (½") to 50mm (2") - 16 bar (232 psi), for Sizes 65mm (2½") to 150mm (6") - 10 bar (145 psi), for Size 200mm (8") - 6 bar (87 psi). Series 'G2K' for Sizes 15mm (½") to 125mm (5") - 10 bar (145 psi), for Sizes 150mm (6") to 200mm (8") - 6 bar (87 psi). • Halar coating also available on request. • Valves Flanges can be drilled to suit ASME / BS / DIN / JIS. • Please Specify Working Pressure, Temperature & Service conditions. • Valves can be supplied with Pad - lock, Chainwheel, Travel Stop Arrangement, Extended Stem, Electrical / Pneumatic Actuators & other accessories like Limit Switch, Solenoid Valve, Air Filter Regulator, Positioner etc. • Other Materials not mentioned above available on request.



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