Lugged & Tapped Butterfly Valve - EPDM Liner

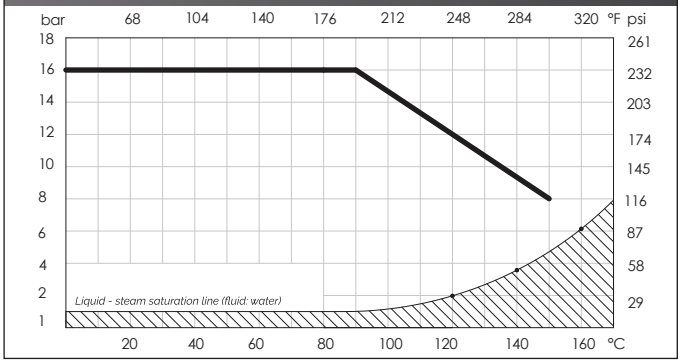
ISO 5211 for Direct Mount, Epoxy Coated Ductile Iron Body, 316 Stainless Steel Disc, EPDM Liner, Locking Lever Operation 1" to 10", Gearbox Operation 12" to 24", Complies with 97/23/CE (PED) Directive CE 1115



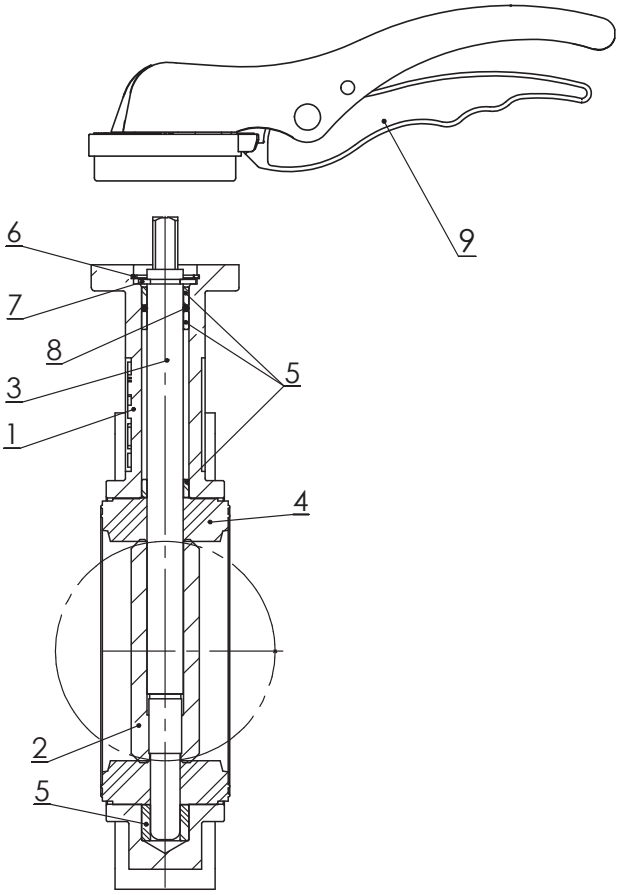
WRAS APPROVED PRODUCT

Pressure / Temperature Specifications		
Pressure	PN16 1" to 16"	PN10 18" to 24"
Temperature	-10°C to 120°C	

Pressure/Temperature Chart



Note: Do not use when temperature and pressure are below the liquid-steam saturation line (hatched area)



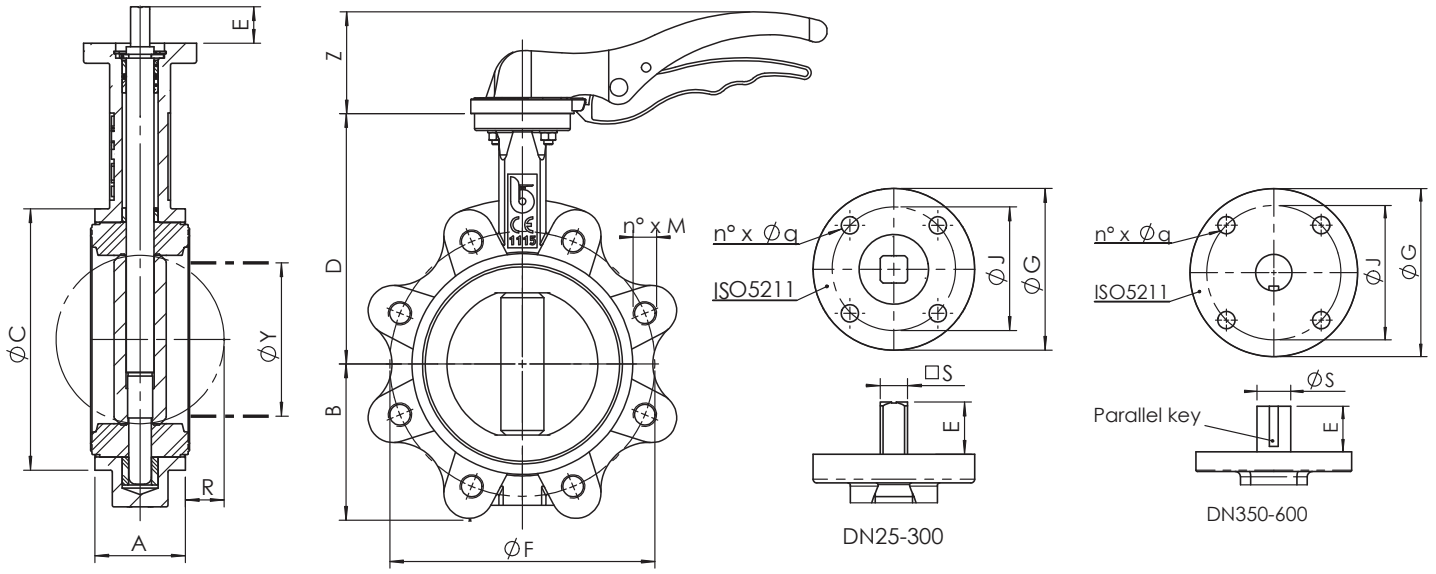
Material Specifications		
1	Body	EN GJS 400-15 Ductile Iron
2	Disc	CF8M Stainless Steel
3	Stem	AISI 420 Stainless Steel
4	Liner	EPDM
5	Bushing	PTFE
6	Washer	Galvanized Carbon Steel
7	Circlip	Steel
8	O-ring	Viton
9	Lever 1" to 6"	Aluminium
9	Lever 8" to 10"	EN GJS 400-15 Ductile Iron
10	Bolts	Galvanized Carbon Steel

Operating Torque (Nm)									
DP (Bar)	3	6	10	16	DP (Bar)	3	6	10	16
1"	2.9	3.1	3.3	3.4	8"	120.0	134.0	148.0	162.0
1¼"	4.7	5.1	5.4	5.7	10"	189.0	212.0	234.0	257.0
1½"	7.8	8.4	8.8	9.2	12"	290.0	316.0	342.0	367.0
2"	11.3	12.0	13.0	13.0	14"	298.0	347.0	663.0	743.00
2½"	17.0	18.0	20.0	21.0	16"	481.0	551.0	1050.0	1235.0
3"	23.0	25.0	26.0	28.0	18"	930.0	980.0	1312.0	1543.0
4"	33.0	36.0	40.0	44.0	20"	1250.0	1350.0	1848.0	2112.0
5"	48.0	54.0	61.0	68.0	24"	2270.0	2500.0	3005.0	3535.0
6"	68.0	78.0	88.0	99.0					

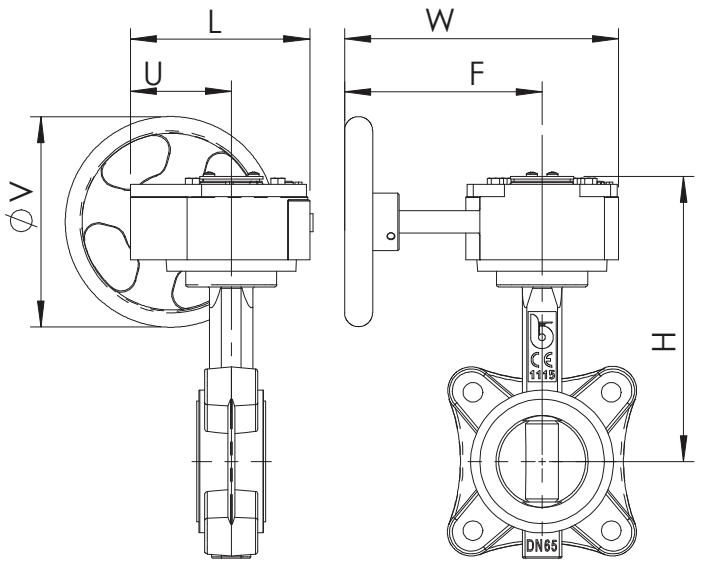
Weights									
Size	**1"**	**1¼"**	**1½"**	**2"**	**2½"**	**3"**	**4"**	**5"**	**6"**
Kg	2.6	2.6	2.3	3.2	4.1	5.4	6.7	9.6	10.8
Size	**8"**	**10"**	**12"**	**14"**	**16"**	**18"**	**20"**	**24"**	
Kg	21.1	32.7	50.5	79.3	122.6	154.8	228.3	308.6	

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Dimensions															
Size	**A**	**ØC**	**D**	**B**	**F1**	**Z**	**R**	**ØY**	**ISO**	**G**	**J**	**n x M**	**n x q**	**S**	**E**
1″	33	65	104	51	192	68	-	-	F05	65	50	4x M12	4x 7	7	32
1¼″	33	73	110	56	192	68	1	12	F05	65	50	4x M16	4x 7	7	32
1½″	33	82	116	63	170	50	5	27	F05	65	50	4x M16	4x 7	9	21
2″	43	89	126	62	170	50	5	31	F05	65	50	4x M16	4x 7	9	21
2½″	46	102	136	69	170	50	9	45	F05	65	50	4x M16	4x 7	9	21
3″	46	118	150	90	206	69	17	65	F05	65	50	8x M16	4x 7	11	21
4″	52	150	170	106	206	69	26	90	F05	65	50	8x M16	4x 7	11	21
5″	56	174	180	119	285	90	34	110	F07	90	70	8x M16	4x 9	14	27
6″	56	205	200	131	285	90	50	146	F07	90	70	8x M20	4x 9	14	27
8″	60	260	230	166	400	72	71	194	F10	125	102	12x M20	4x 11	17	27
10″	68	318	266	202	530	72	91	241	F12	150	125	12x M24	4x 13	27	27
12″	78	376	292	235	-	-	112	291	F12	150	125	12x M24	4x 13	27	27
14″	78	438	368	267	-	-	128	324	F12	150	125	16x M20	4x 13	31.6	45
16″	102	489	400	297	-	-	144	379	F14	175	140	16x M24	4x 18	33.15	51.2
18″	114	539	422	318	-	-	163	428	F14	175	140	20x M24	4x 18	38	51.2
20″	127	594	480	355	-	-	182	475	F14	175	140	20x M24	4x 18	41.15	64.2
24″	154	695	562	444	-	-	219	573	F16	210	165	20x M27	4x 22	50.65	70.2

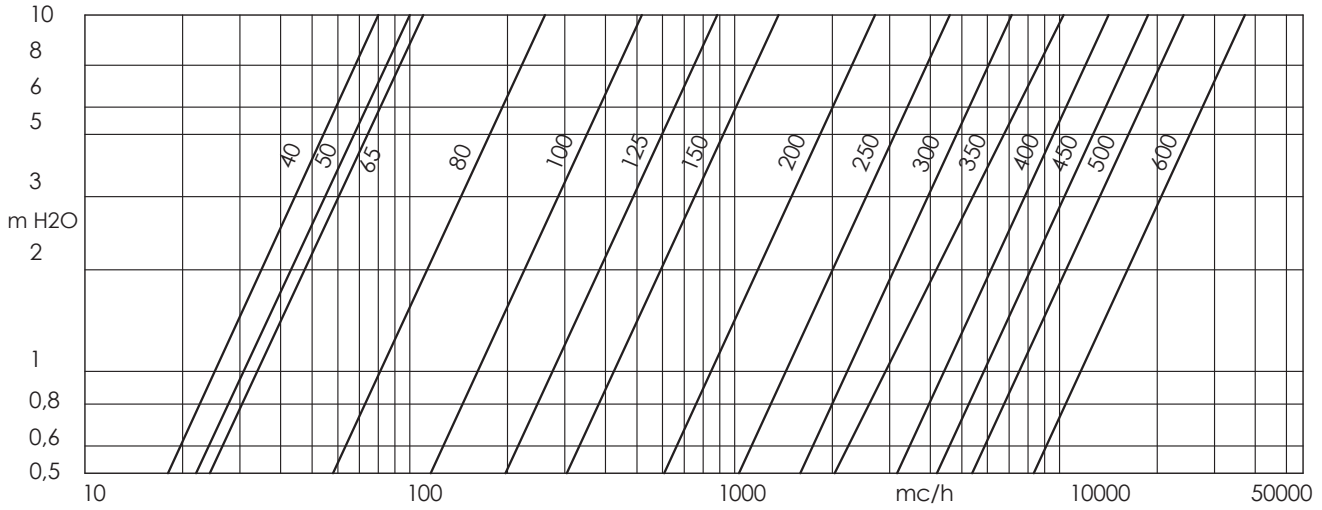


Dimensions						
Size	L	U	H	W	F	V
12″	205	124	372	345	260	300
14″	205	124	448	345	260	300
16″	278	118	497	291	167	380
18″	278	118	519	291	167	380
20″	277	107	607	379	207	285
24″	323	131	693	428	256	385

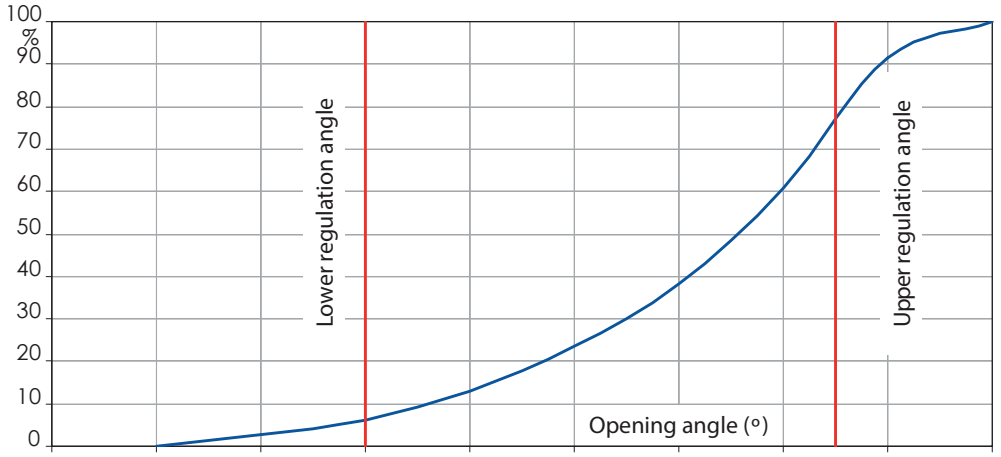
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Headloss Chart



Flow Rate Chart



KV Rates

Opening (°)>	10	20	30	40	50	60	70	80	90
1"	------- Please confirm with Sales -------								
1¼"	------- Please confirm with Sales -------								
1½"	0.04	2.1	4.8	10	19	30	48	73	79
2"	0.05	2.6	6	13	23	38	60	91	99
2½"	0.09	3.8	14	33	53	75	98	108	108
3"	0.17	7.8	16	34	60	100	158	237	261
4"	0.26	15	31	67	120	199	314	471	518
5"	0.43	25	53	115	205	339	535	803	883
6"	0.69	39	82	177	316	522	827	1,241	1,364
8"	2.6	52	142	250	450	713	1,122	1,723	2,716
10"	2.6	130	276	599	1,068	1,768	2,798	4,196	4,611
12"	3.5	202	427	926	1,650	2,730	4,322	6,483	7,124
14"	5.2	292	617	1,376	2,384	3,945	6,243	9,364	10,291
16"	6.9	401	849	1,839	3,279	5,425	8,585	12,878	14,152
18"	9.5	531	1,124	2,437	4,342	7,185	11,371	17,057	18,743
16"	12	683	1,445	3,133	5,609	9,238	14,620	21,930	24,099
18"	19	1,055	2,234	4,840	8,626	14,272	22,587	33,882	37,232

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