DOUBLE FLANGE BUTTERFLY VALVE

PN16 V13C16

FEATURES & SPECIFICATIONS

- Concentric double flange
- Comply with BS EN 593 / BS 5155
- Higher strength for disc with pinned single shaft ensure optimal alignment
- Can be installed at horizontal or vertical pipe line
- Flange drilled to BS 4504 PN16 / EN1092-2 PN16 / ANSI Class 150 / JIS10K / AS 2129 Table E (Specify on order)
- Applicable for Building Services, Air-Conditioning, Fire Protection, Cold Water Plumbing, Hot Water System, Water Supply Works, Water Treatment Plant, General Industries



PRESSURE & TEMPERATURE RATINGS

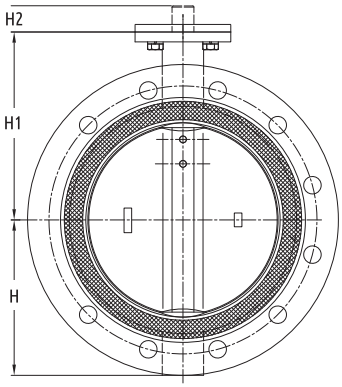
Working Pressure	16bar (DN1100 & below) 10bar (DN1200 & above)
Shell Test Pressure (x1.5)	24bar (DN1100 & below) 15bar (DN1200 & above)
Seat Test Pressure (x1.1)	17.6bar (DN1100 & below) 11bar (DN1200 & above)
Working Temperature	-20°C ... 110°C (EPDM) -10°C ... 80°C (NBR)
Suitable Media	Water

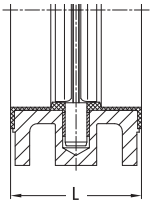
MATERIAL SPECIFICATIONS

Part	Material
Body	Ductile Iron
Disc	Ductile Iron Aluminium Bronze Stainless Steel 304 Stainless Steel 316
Seat	EPDM NBR
Washer	Spring Steel
Bolt	Carbon Steel
Gland	Carbon Steel

Part	Material
Bushing	Bronze
Shaft	Stainless Steel 410 Stainless Steel 431
Taper Pin	Stainless Steel 416 Stainless Steel 316 (DN400 & above)
O-Ring	EPDM NBR
Y-Ring	EPDM NBR
Screw	Carbon Steel

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DIMENSIONS

(mm)

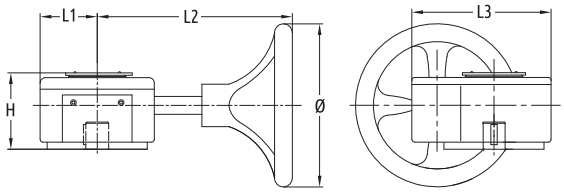
DN (mm)	50	65	80	100	125	150	200	250	300	350
DN (inch)	2	2½	3	4	5	6	8	10	12	14
H	83	92.5	100	110	125	142	170	202	230	260
H1	128	136	146.5	154	177	198	227	273	308	324
H2	30	30	30	30	30	30	34	34	34	40
L	108	112	114	127	140	140	152	165	178	190

DN (mm)	400	450	500	600	700	750	800	900	1000
DN (inch)	16	18	20	24	28	30	32	36	40
H	290	320	358	420	478	508	530	602	656
H1	380	400	460	535	560	610	620	692	735
H2	52	52	64	70	95	95	95	130	130
L	216	222	229	267	292	305	318	330	410

DN (mm)	1100	1200	1300	1400	1500	1600	1800	2000	2200
DN (inch)	44	48	52	56	60	64	72	80	88
H	735	781	968	1055	1025	1041	1164	1350	1430
H1	813	917	990	1000	1060	1150	1200	1360	1500
H2	150	150	200	200	200	200	200	200	300
L	450	470	490	530	570	600	670	760	800

DIMENSIONS (VALVE OPERATOR)

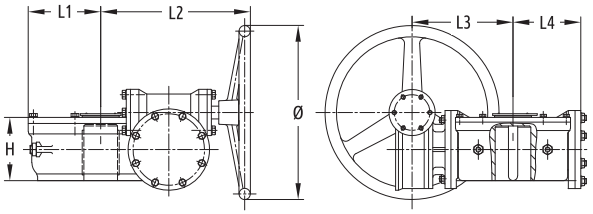
Cast Iron 1-Stage Worm Gear and Handwheel
Carbon Steel Gear Box Shaft



(mm)

VALVE DIAMETER	H	Ø	L1	L2	L3
DN50 - DN150	70	150	52	118	129
DN200 - DN250	80	280	75	191	171
DN300 - DN350	80	280	80	186	198
DN400	99	400	125	303	280
DN450	99	400	125	350	280
DN500 - DN600	150	400	130	376	316

Cast Iron 2-Stage Worm Gear and Handwheel
Carbon Steel Gear Box Shaft



VALVE DIAMETER	H	Ø	L1	L2	L3	L4
DN700 - DN800	158	425	173	359	245	173
DN900 - DN1100	185	425	201	399	279	201
DN1200	216	425	185	443	311	255
DN1300 - DN1400	267	510	208	603	435	355
DN1500 - DN1600	312	510	316	647	450	425
DN1800	326	510	360	697	466	475
DN2000	480	600	410	867	725	630
DN2200	570	600	442	1060	742	726

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VALVE COEFFICIENT (FULL OPEN)

Cv = 1.17Kv

DN	(mm)	50	65	80	100	125	150	200	250	300	350
	(inch)	2	2½	3	4	5	6	8	10	12	14
	Cv	135	220	302	600	1022	1579	3136	5340	8250	11917

DN	(mm)	400	450	500	600	700	750	800	900	1000
	(inch)	16	18	20	24	28	30	32	36	40
	Cv	16388	21705	27908	43116	49500	59800	68250	86375	119750

DN	(mm)	1100	1200	1300	1400	1500	1600	1800	2000	2200
	(inch)	44	48	52	56	60	64	72	80	88
	Cv	149462	154000	190564	221010	253710	306176	387504	478400	668415

OPERATING TORQUE

Unit : N.m

DN	(mm)	50	65	80	100	125	150	200	250	300	350
	(inch)	2	2½	3	4	5	6	8	10	12	14
	Wet	15.1	17.2	23.1	39.8	61.9	102	192	323	490	625
	Dry	24.2	32.7	43.7	72.8	108	174	330	549	799	969

DN	(mm)	400	450	500	600	700	750	800	900	1000
	(inch)	16	18	20	24	28	30	32	36	40
	Wet	846	1131	1431	2301	4253	4897	5600	6834	11603
	Dry	1307	1787	2288	3711	6380	7345	8400	10251	17405

DN	(mm)	1100	1200	1300	1400	1500	1600	1800	2000	2200
	(inch)	44	48	52	56	60	64	72	80	88
	Wet	21840	16321	37700	43329	59200	68250	92079	130000	182400
	Dry	21840	24482	37700	43329	59200	68250	92079	130000	182400

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