FULL LUG BUTTERFLY VALVE

PN25 F1225

FEATURES & SPECIFICATIONS

- Higher strength for disc with pinned single shaft ensure optimal alignment
- Centrally mounted disc and hydrodynamic design minimize pressure loss
- Can be installed at horizontal or vertical pipe line
- Phenolic backed rubber seat is non-collapsible, stretch resistant and easily replaceable
- Excellent flow characteristic with flow in either direction
- Precision machining of disc for low operating torque
- Design conforms to BS EN 593 / BS 5155 / MSS SP-67 / API 609
- WRAS and NSF approved option available upon request
- Applicable for Building Services, Air-Conditioning, Fire Protection, Cold Water Plumbing, Hot Water System, Water Supply Works, Water Treatment Plant, General Industries



TECHNICAL SPECIFICATIONS

Size	DN50 ... DN600
Body Design	Lugged
Working Pressure	25bar
Shell Test Pressure (x1.5)	37.5bar
Seat Test Pressure (x1.1)	27.5bar
Working Temperature	-20°C ... 110°C (EPDM) -10°C ... 80°C (NBR)
Suitable Media	Water
Operator	Lever, Wormgear, Electric Actuator
Connection	BS 4504 PN25 EN1092-2 PN25 JIS B2239 20K ANSI Class 150
Optional Accessories	Chain Wheel, Limit Switch

MATERIAL SPECIFICATIONS

Part	Material
Body	Ductile Iron
Disc	Ductile Iron Epoxy coated Ductile Iron Aluminium Bronze Stainless Steel 304 Stainless Steel 316
Seat	EPDM NBR
Stem	Stainless Steel 410 (DN50 ... DN100) Stainless Steel 431 (DN125 and above)

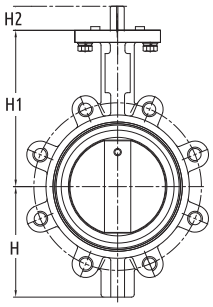
Part	Material
Taper Pin	Stainless Steel 316 Stainless Steel 416
Y-Ring	EPDM NBR
Bushing	PAP
Washer	Stainless Steel 304
Bolt	Stainless Steel 304
Sealing Set	Carbon Steel Galvanized
Sealing Gasket	PTFE
Socket Head Screw	Carbon Steel Galvanized

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FULL LUG BUTTERFLY VALVE

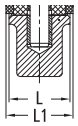
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DIMENSIONS (VALVE BODY)



(mm)

DN (mm)	50	65	80	100	125	150	200
DN (inch)	2	2½	3	4	5	6	8
H	72	78	95	108	123	138	168
H1	143	156	162	177	190	205	236
H2	22	22	22	25	25	25	25
L	43	46	46	52	56	56	60
L1	47	50	50	56	60	60	64



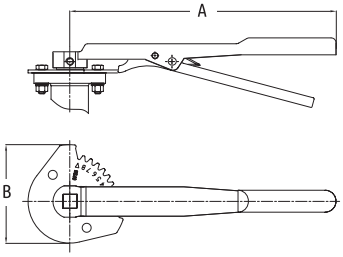
DN (mm)	250	300	350	400	450	500	600
DN (inch)	10	12	14	16	18	20	24
H	207	243	285	342	372	402	467
H1	267	308	368	400	422	480	562
H2	27	27	34	52	52	64	64
L	68	78	78	102	114	127	154
L1	72	82	82	107	119	133	160

DIMENSIONS (VALVE OPERATOR)

Malleable Iron / Stainless Steel Lever
Stainless Steel SUS304 Top Indicator Plate

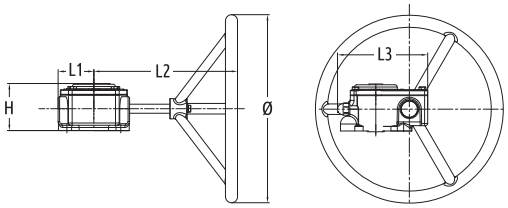
(mm)

DN (mm)	50	65	80	100	125	150	200
DN (inch)	2	2½	3	4	5	6	8
A	266	266	266	266	266	266	357
B	110	110	110	110	110	110	163



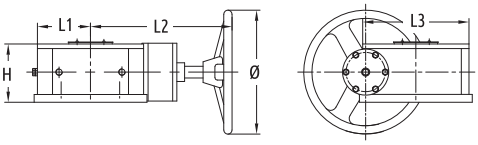
Cast Iron 1-Stage Worm Gear and Handwheel
Carbon Steel Gear Box Shaft

VALVE DIAMETER	H	ø	L1	L2	L3
DN50 - DN125	70	150	52	150	129
DN150 - DN200	80	280	75	208	171
DN250 - DN300	80	280	80	212	198
DN350	80	325	80	212	198
DN400	99	400	125	275	280
DN450	99	425	125	275	280



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

VALVE DIAMETER	H	ø	L1	L2	L3
DN500 - DN600	150	400	130	350	316



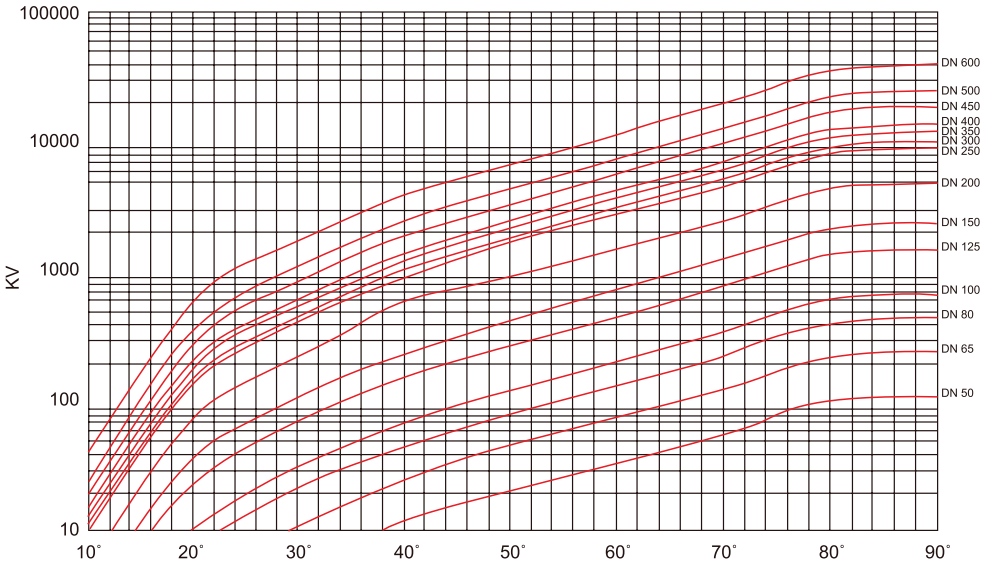
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VALVE COEFFICIENT (FULL OPEN)

Cv = 1.17Kv

DN	(mm)	50	65	80	100	125	150	200
	(inch)	2	2½	3	4	5	6	8
	Cv	135	220	302	600	1022	1579	3136

DN	(mm)	250	300	350	400	450	500	600
	(inch)	10	12	14	16	18	20	24
	Cv	5340	8250	11917	16388	21705	27908	43116



OPERATING TORQUE

Unit : N.m

DN	(mm)	50	65	80	100	125	150	200
	(inch)	2	2½	3	4	5	6	8
	Wet	23.6	26.9	36.1	62.2	96.7	159.4	300.0
	Dry	37.8	51.1	68.3	113.8	168.8	271.9	515.6

DN	(mm)	250	300	350	400	450	500	600
	(inch)	10	12	14	16	18	20	24
	Wet	504.7	765.6	976.6	1321.9	1767.2	2235.9	3595.3
	Dry	857.8	1248.4	1514.1	2042.2	2792.2	3575.0	5798.4

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