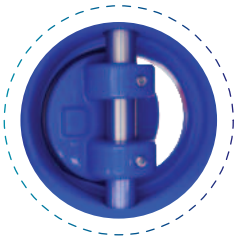
DOUBLE ECCENTRIC BUTTERFLY VALVE

PN16 F13DE16
PN25 F13DE25

FEATURES & SPECIFICATIONS

- Double eccentric double flange
- Comply with BS 5155 / BS EN 593 / MSS SP-67
- Face-to-face dimension conforms to BS EN 558-1
- Flange drilled to EN1092-2 PN16 / EN1092-2 PN25 (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







TECHNICAL SPECIFICATIONS

Size	DN100 ... DN2000	
Body Design	Double Eccentric Double Flange	
Working Pressure	16bar	25bar
Shell Test Pressure (x1.5)	24bar	37.5bar
Seat Test Pressure (x1.1)	17.6bar	27.5bar
Working Temperature	-20°C ... 110°C	
Suitable Media	Water	
Operator	Wormgear	
Connection	EN1092-2 PN16 / PN25	
Optional Accessories	Chain Wheel	

MATERIAL SPECIFICATIONS

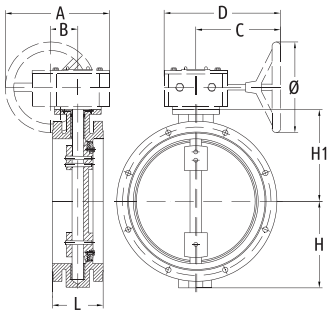
Part	Material
Body	Ductile Iron
Disc	Epoxy Coated Ductile Iron Aluminium Bronze
Body Sealing Seat	Stainless Steel 304
Disc Sealing Seat	EPDM
Bolt	Stainless Steel 304
Gland	Ductile Iron
Taper Pin	Stainless Steel 420

Part	Material
Bushing	Steel
Shaft	Stainless Steel 410 Stainless Steel 431 (PN25)
Pressure Ring	Carbon Steel
O-Ring	EPDM
Worm Gear & Handwheel	Cast Iron
Chain Wheel	Carbon Steel Stainless Steel 304

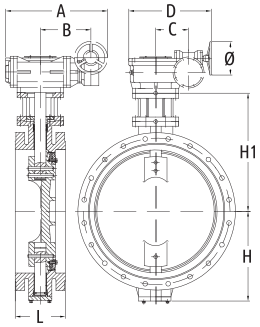
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DOUBLE ECCENTRIC BUTTERFLY VALVE

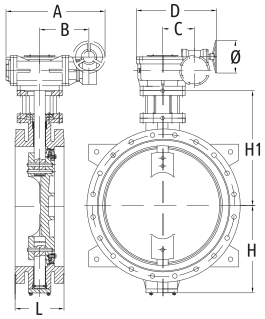
PN16 F13DE16
PN25 F13DE25



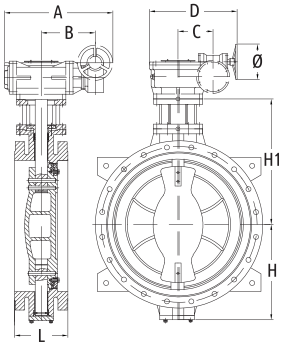
DN100 ... DN250



DN300 ... DN350



DN400 ... DN500



DN600 ... DN2000

DIMENSIONS (PN16)

(mm)

DN (mm) (inch)	100 4	150 6	200 8	250 10	300 12	350 14	400 16	450 18	500 20	600 24
H	114	148	175	213	246	286	335	350	385	448
H1	171	210	250	270	306	337	378	390	430	508
L (Middle)	127	140	152	165	178	190	216	222	229	267
L (Long)	190	210	230	250	270	290	310	330	350	390

DN (mm) (inch)	700 28	800 32	900 36	1000 40	1200 48	1400 56	1600 64	1800 72	2000 80
H	495	570	602	685	796	973	1112	1270	1360
H1	557	613	667	722	845	1028	1172	1350	1450
L (Middle)	292	318	330	410	470	530	600	670	760
L (Long)	430	470	510	550	630	710	790	-	-

DIMENSIONS (PN25)

(mm)

DN (mm) (inch)	100 4	150 6	200 8	250 10	300 12	350 14	400 16	450 18
H	123	162	186	216	301	310	360	355
H1	178	213	260	293	458	481	530	545
L (Long)	190	210	230	250	270	290	310	330

DN (mm) (inch)	500 20	600 24	700 28	800 32	900 36	1000 40	1200 48
H	400	476	490	570	607	675	797
H1	632	686	736	750	862	910	1032
L (Long)	350	390	430	470	510	550	630

DIMENSIONS (VALVE OPERATOR)

(mm)

VALVE DIAMETER	A	B	C	D	Ø
DN100	172	45	173	226	150
DN150 - DN200	288	63	238	313	300
DN250	310	78	225	307	300
DN300 - DN350	340	93	183	280	300
DN400 - DN450	434	181	94	357	300
DN500 - DN600	531	200	125	432	400
DN700 - DN800	574	228	140	501	400

VALVE DIAMETER	A	B	C	D	Ø
DN900	638	243	162	547	450
DN1000 - DN1200	777	302	236	656	450
DN1400	1045	435	355	811	510
DN1600	1130	450	425	963	510
DN1800	1196	466	475	1057	510
DN2000	1682	747	630	1342	610

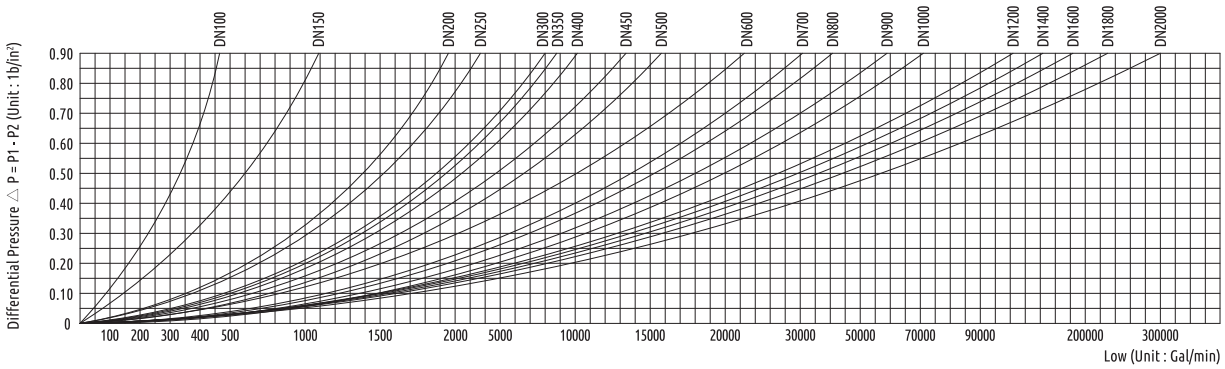
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DOUBLE ECCENTRIC BUTTERFLY VALVE

PN16 F13DE16
PN25 F13DE25

VALVE COEFFICIENT (FULL OPEN)

Cv = 1.17Kv



DN	(mm)	100	150	200	250	300	350	400	450	500	600
	(inch)	4	6	8	10	12	14	16	18	20	24
Cv		471	1091	1895	3735	5593	7685	10030	13377	15788	23162

DN	(mm)	700	800	900	1000	1200	1400	1600	1800	2000
	(inch)	28	32	36	40	48	56	64	72	80
Cv		31870	41911	58169	71175	102845	142000	182000	225000	300000

OPERATING TORQUE (PN16)

Unit : N.m

DN	(mm)	100	150	200	250	300	350	400	450	500	600
	(inch)	4	6	8	10	12	14	16	18	20	24
		173	195	282	417	867	1300	1950	2275	3033	3792

DN	(mm)	700	800	900	1000	1200	1400	1600	1800	2000
	(inch)	28	32	36	40	48	56	64	72	80
		5200	6500	8125	13000	19500	33333	52500	70833	100000

OPERATING TORQUE (PN25)

Unit : N.m

DN	(mm)	100	150	200	250	300	350	400	450
	(inch)	4	6	8	10	12	14	16	18
		213	417	667	1250	1833	2083	3333	4167

DN	(mm)	500	600	700	800	900	1000	1200
	(inch)	20	24	28	32	36	40	48
		5000	6667	8333	12500	16667	20833	33333

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