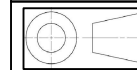


ITEM	PART NAME	MATERIAL
1	Gearbox	Ductile Iron
2	Top Shaft	SS420
3	Connecting Bracket	Ductile Iron
4	Sealing Sleeve Gland	Carbon Steel
5	Sealing Bushing	Bronze
6	Bearing Bushing	PTFE
7	Body	Ductile Iron
8	Seat Seal Face	SS304
9	Sealing Ring	EPDM
10	Retaining Ring	SS304
11	Pin	SS420
12	Disc	Ductile Iron
13	Bottom Shaft	SS420
14	End Cap	Carbon Steel



Duvalco Valves & Fittings Pte. Ltd.

DWG No.: DVF-ESJ100-2000-PN1016S1314GBHWCB-TH



Units: mm
Scale: N.T.S

Title:
Double Eccentric Butterfly
Valve (ESJ) DN100-2000
PN10/16 Series 13/14
Gearbox, Handwheel
Connecting Bracket


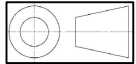
Drawn	Leo	18/03/26
Checked	Will	20/03/26
Approved	Eddie	20/03/26

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DN	Ød		ØD		ØK		n-ØM		f	C		L		Bareshaft Torque without Safety Factor (Nm)		Bareshaft Estimated Weight (kg)	
	PN10	PN16	PN10	PN16	PN10	PN16	PN10	PN16		PN10	PN16	Series 13	Series 14	PN10	PN16	PN10	PN16
100	156		220		180		8-Ø19		3	19		127	190	80	100	20	25
150	211		285		240		8-Ø23		3	19		140	210	150	230	28	38
200	266		340		295		8-Ø23	12-Ø23	3	20		152	230	280	420	38	58
250	319		395	405	350	355	12-Ø23	12-Ø28	3	22		165	250	350	500	55	75
300	370		445	460	400	410	12-Ø23	12-Ø28	4	24.5		178	270	670	800	90	110
350	429		505	520	460	470	16-Ø23	16-Ø28	4	24.5	26.5	190	290	800	1070	130	150
400	480		565	580	515	525	16-Ø28	16-Ø31	4	24.5	28	216	310	1070	1670	160	195
450	530	548	615	640	565	585	20-Ø28	20-Ø31	4	25.5	30	222	330	1670	2000	190	230
500	582	609	670	715	620	650	20-Ø28	20-Ø34	4	26.5	31.5	229	350	2000	3000	210	260
600	682	720	780	840	725	770	20-Ø31	20-Ø37	5	30	36	267	390	3000	4330	280	340
700	794		895	910	840		24-Ø31	24-Ø37	5	32.5	39.5	292	430	4330	5660	420	500
800	901		1015	1025	950		24-Ø34	24-Ø41	5	35	43	318	470	5660	8000	650	740
900	1001		1115	1125	1050		28-Ø34	28-Ø41	5	37.5	46.5	330	510	8000	10670	750	850
1000	1112		1230	1255	1160	1170	28-Ø37	28-Ø44	5	40	50	410	550	10660	14670	970	1080
1200	1328		1455	1485	1380	1390	32-Ø41	32-Ø50	5	45	57	470	630	14660	23300	1800	1900
1400	1530		1675	1685	1590		36-Ø44	36-Ø50	5	46	60	530	710	23300	32000	3150	3250
1600	1750		1915	1930	1820		40-Ø50	40-Ø57	5	49	65	600	790	32000	53400	4600	4750
1800	1950		2115	2130	2020		44-Ø50	44-Ø57	5	52	70	670	870	42000	66700	5700	5900
2000	2150		2325	2345	2230		48-Ø50	48-Ø62	5	55	75	760	950	66700	93500	7300	7500

Technical Requirements:

1. The valve design complies with **BS EN593**
2. The face-to-face dimension follows **EN558 Table 2, Series 13/14**
3. The end flange drilling is in accordance with **EN1092-2 PN10/16**; while the top flange drilling is accordance with **ISO 5211**
4. The hydraulic test is conducted in compliance with **EN12266-1**
5. Valve pressure rating: **10/16 bar**
6. Body Test Pressure: **15/24 bar**
7. Seat Test Pressure: **11/17.6 bar**
8. Temperature: **-20~80°C**
9. Medium: **Clean Water**
10. Operation: **CTC(default)/CTO**
11. Fusion bonded epoxy (FBE) coating treatment on the valve surface, surface coating thickness ≥ 250 microns

 DUTCH VALVE COMPANY Duvalco Valves & Fittings Pte. Ltd.	DWG No.: DVF-ESJ100-2000-PN1016S1314GBHWCB-TH			
		Units: mm		Title: Double Eccentric Butterfly Valve (ESJ) DN100-2000 PN10/16 Series 13/14 Gearbox, Handwheel Connecting Bracket
		Scale: N.T.S		
	Drawn	Leo	18/03/26	Sheet: 2 of 2 Rev: 0
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Approved	Eddie	20/03/26		