

Features

- Size range is DN50-DN300
- Face to Face is EN558 / ISO 5752 Series 20, API609 Table1
- Flanges to suit PN10/16 and ASME Class 150
- Direct mount for ISO 5211
- Temperature Range -40C to +200C (see liner options)
- Lever operated, Gearbox operated or actuated
- Max 10 Bar pressure rating, see pressure and temp charts
- PTFE Lined butterfly valve for chemicals and corrosive media
- Environmental protection via EBRO-Safety seal
- PTFE material is FDA EF1935/2004 certified



Materials

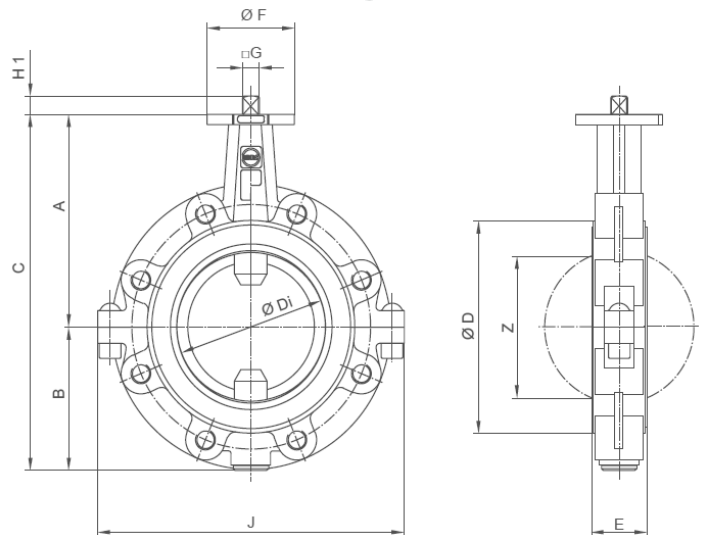
Body	Nodular Cast Iron EN-JS1025 EN1563 A395
Disc	Duplex Stainless or PTFE Coated
Seats	PTFE
Stem	Duplex Stainless steel
Lever	Aluminium as standard

Manufacturer:



Dimension Table

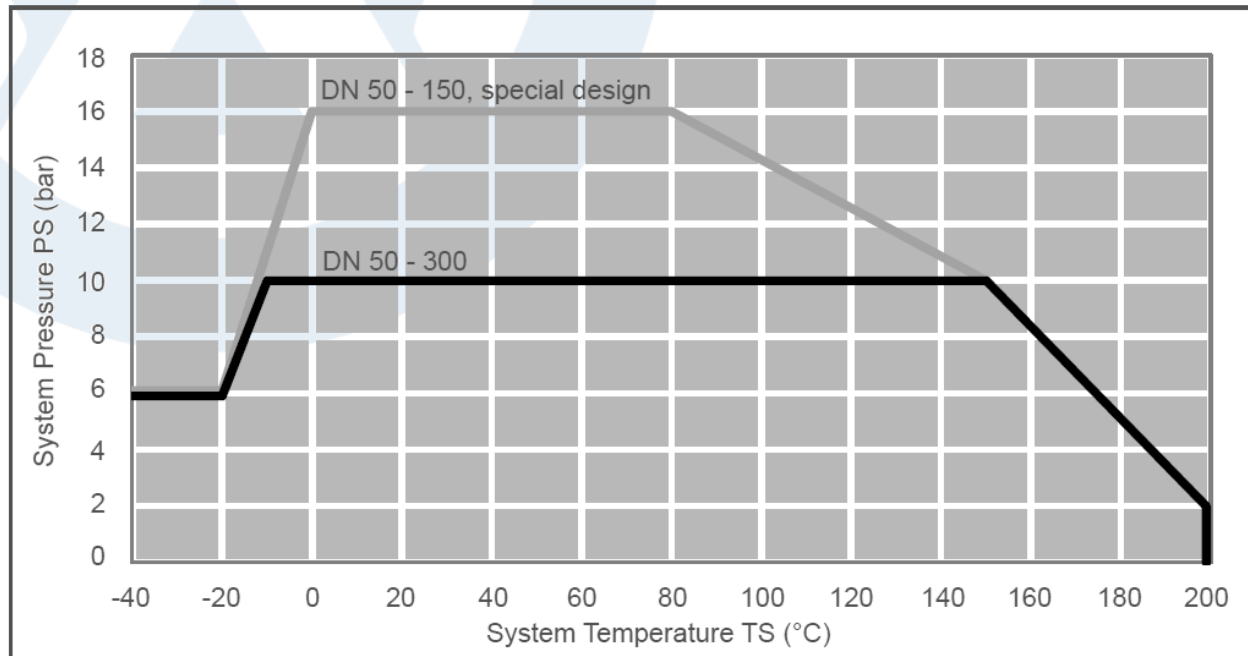
Size	A	B	C	D	Di	E	F	ISO	G	Torque @ 10 Bar	H1	J	Z	Kg
2"	135	80	215	112	60.8	46	54	F04	11	40Nm	12	160	41	2.8
2 1/2"	150	82	232	120	60.8	46	54	F04	11	40Nm	12	176	41	3.4
3"	157	108	265	138	79.5	46	65	F05	14	70Nm	16	230	66	4.5
4"	180	118	298	160	99.0	52	65	F05	14	95Nm	16	255	85	5.9
5"	195	130	325	190	124.5	56	90	F07	17	130Nm	19	290	112	8.1
6"	210	142	352	215	150.5	56	90	F07	17	170Nm	19	310	141	9.5
8"	240	169	409	269	195.5	60	90	F07	17	230Nm	19	390	187	15.0
10"	275	217	492	324	247.5	68	125	F10	22	350Nm	24	480	239	24.0
12"	300	240	540	374	292.5	78	125	F10	22	480Nm	24	550	283	34.0



Note: For Powdery / dry applications EBRO recommend x1.3 the above torque figures. For wet / lubricating applications, the above figures includes safety factor. For 16 bar torque figures, please contact our sales team.



Pressure & Temperature Chart:



Pressure-Temperature-Diagram for valves with Silicone elastomer inserts

Service limitation with EPDM elastomer inserts from -10°C up to +120°C

Service limitation with Fluor carbon inserts (FPM) from -10°C up to +180°C

Vacuum service to 1mbar absolute, from -10°C up to +160°C. Valve installation between flanges

K_V-VALUES

- The K_V-value [m³ per hour] is the flow of water at a temperature of 5°C to 30°C (41°F to 86°F) at Δp of 1 bar

- The K_V-values specified are based on tests carried out by the Delfter Hydraulics Laboratories, the Netherlands

- Permissible velocity of flow
V_{max} 4,5 m/s for liquids,
V_{max} 70 m/s for gases

- The throttle function is linear at an angle 30° to 70°

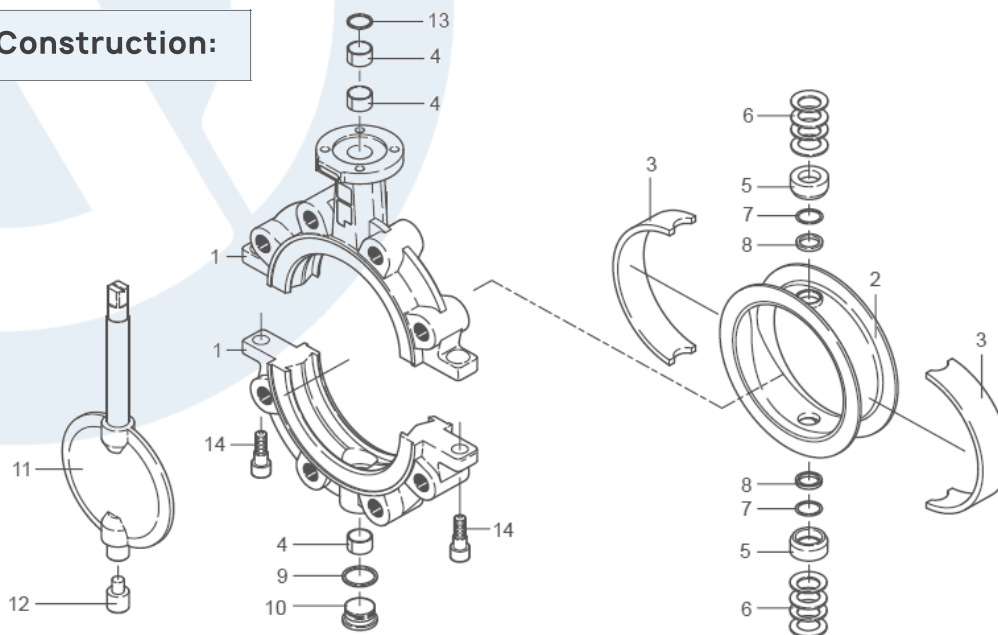
- Avoid cavitation

For further values, please contact our engineers.

		Opening angle α°							
DN [mm]	Size [in]	20°	30°	40°	50°	60°	70°	80°	90°
1) K _V -values metal disc									
40/50	2	4	2	11	28	53	84	121	161
65	2½	5	8	25	56	99	153	216	287
80	3	13	12	30	69	131	216	328	467
100	4	13	25	61	121	207	319	459	627
125	5	37	66	122	216	353	543	793	1111
150	6	50	94	171	303	509	810	1226	1778
200	8	137	149	344	696	1178	1764	2426	3137
250	10	178	291	562	1021	1699	2626	3832	5348
300	12	395	378	820	1638	2751	4079	5538	7049
2) K _V -values PTFE-disc									
40/50	2	2	1	4	12	22	35	50	67
65	2½	3	9	26	48	74	98	117	126
80	3	4	14	38	71	108	143	171	186
100	4	6	16	48	95	151	209	262	303
125	5	12	40	110	217	356	525	718	933
150	6	18	60	161	317	526	787	1096	1452
200	8	125	176	395	756	1234	1807	2449	3136
250	10	138	333	644	1103	1744	2599	3702	5086
300	12	203	462	872	1479	2329	3471	4950	6814

Subject to change without notice

Materials of Construction:



PTFE-lined butterfly valve DN 80 - DN 200

Pt.	Description	Material	Material-No.	ASTM	Pt.	Description	Material	Material-No.	ASTM
1	Body	Nodular Cast Iron	EN-JS 1025	EN 1563 A 395	9	Seal	Stainless Steel	X5CrNi18-10	1.4301 304
2**	Seat	PTFE	Polytetrafluorethylene	PTFE PTFE	10	Plug screw DIN 908	Stainless Steel	G-X6CrNiMo18-10	1.4408 CF8M
		M.-PTFE	Polytetrafluorethylene	modified	11***	Disc/Shaft	one-piece		
		Cond.-PTFE	Polytetrafluorethylene	conductive			St.Steel/ St.Steel	G-X2CoNiMoN26-7-4	1.4469 Duplex
3**	Elastomer insert	Silicon	Silicon rubber	MVQ VMQ			St.Steel/ PTFE	G-X2CoNiMoN26-7-4	1.4469/ Duplex
4	DU-bearing						Polytetrafluorethylene	PTFE PTFE	
							St.Steel/ M.-PTFE	G-X2CoNiMoN26-7-4	1.4469/ Duplex
								Polytetrafluorethylene	modified
5**	Trust collar						St.Steel/ Cond.-PTFE	G-X2CoNiMoN26-7-4	1.4469/ Duplex
		Stainless Steel	X5CrNiMo17-12-2	1.4401 316				Polytetrafluorethylene	conductive
6	Bellev. spr. washer				12	Lower shaft stub			
		Stainless Steel	X12CrNi177	1.4568 631			Stainless Steel	X39CrMo17-1	1.4122
7**	O-ring	FPM	Fluorocarbon rubber	FPM FKM	13	Wiper ring	PTFE	Polytetrafluorethylene	PTFE PTFE
8**	Chevron seal				14	Screw			
		PTFE	Polytetrafluorethylene	PTFE PTFE			Stainless Steel	A4-70	
Above-mentioned materials of the basic version, other materials upon request									

** recommended spare parts

*** recommended for coated discs

Subject to change without notice

General Applications:

- Chemically highly corrosive and toxic media
- Purification plants
- Pharmaceutical industry
- Adhesives, paper industry and dissolver
- Paint manufacturer and processing
- Food industry
- Chlorine Production
- Processing of Ore



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