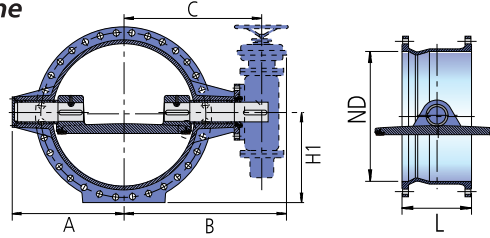


# PROINVAL BUTTERFLY VALVE DOUBLE EXCENTRIC TYPE NP10/16/25/40 - FLANGED DIN NP 10/16/25/40

## BVP-79BX

*The double excentric concept minimises contact between seal and seat and thereby enhances the valve's performance, reduces maintenance and extends valve life.*

**RANGE:** from ND 150 to ND 3000.  
**WORKING PRESSURE:** NP 10 / 16 / 25 y 40 Bar.  
**FACE TO FACE LENGTH:** DIN 3202 - F4 / BS 5155.  
**FLANGES:** DIN 2501, ISO 2531 or BS 5155.  
**COATING:** EPOXY 250µmm.



ND	DIN 3202 F4 L	BS 5155 CORTO L	NP-10					NP-16					NP-25				
			A	B	C	H1	Kgs.	A	B	C	H1	Kgs.	A	B	C	H1	Kgs.
150	210	140	190	255	190	145	41	190	255	190	145	41	185	265	230	150	42
200	230	1520	195	290	225	170	67	195	290	225	170	67	190	330	275	185	70
250	250	165	220	350	300	200	85	220	350	300	200	85	215	355	300	215	90
300	270	178	290	405	350	230	120	290	405	350	230	125	285	415	360	250	132
350	290	190	280	415	360	255	140	280	415	360	260	195	315	445	390	285	208
400	310	216	310	430	375	285	145	345	525	455	290	255	350	520	465	315	275
450	330	222	390	525	470	310	185	390	550	480	320	265	405	705	500	340	290
500	350	229	380	500	445	335	200	425	565	500	360	297	465	775	570	370	325
600	390	267	440	585	515	390	500	510	730	620	420	624	570	870	670	425	660
700	430	292	580	810	700	450	630	580	810	700	455	680	655	965	760	485	740
800	470	318	650	885	775	510	750	650	885	775	515	820	670	1000	805	550	930
900	510	330	695	890	780	560	1030	735	1045	895	565	1320	760	1090	890	600	1405
1000	550	410	760	1035	885	615	1600	850	1190	1040	630	2000	840	1235	1035	665	2200
1100	590	440	890	1230	1080	680	1800	890	1230	1080	690	2400	875	1275	1085	715	2600
1200	630	470	890	1150	1115	730	2000	955	1300	1125	745	2800	985	1280	1090	770	3250
1300	670	500	1035	1305	1155	780	2490	1035	1340	1165	795	3550	1025	1355	1165	825	4000
1400	710	530	1040	1405	1230	840	2980	1040	1405	1230	845	3740	1015	1475	1265	880	4350
1500	750	530	1130	1430	1255	910	3500	1120	1430	1255	910	4580	1110	1525	1315	935	5180
1600	790	600	1185	1500	1325	960	4000	1185	1580	1365	965	5470	1230	1625	1415	995	6200
1800	870	670	1295	1730	1515	1060	5400	1295	1730	1515	1065	6000	1340	1780	1565	1100	7300
2000	950	760	1390	1835	1620	1165	8000	1390	1835	1620	1175	8800	-	-	-	-	-

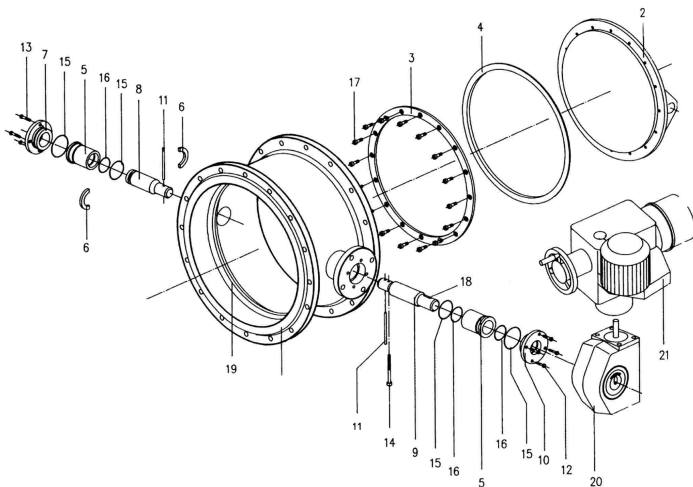
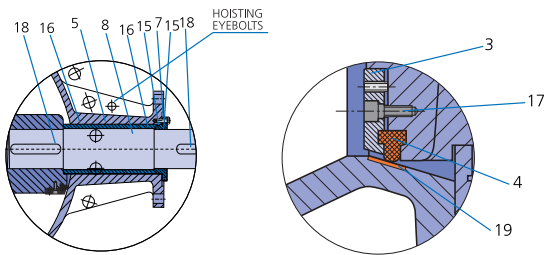
### GENERAL CHARACTERISTICS:

- Perfect adherence between the rubber joint lodged in the periphery of the disc and the seat of the stainless steel body providing total watertightness.
- Long duration of the closing joint. During manouvers, the drag of the seal against the body of the valve is avoided, making contact with the single metal part only in the final phase of closing.
- Closing action is faster.
- Easiest handling of the valve since when not dragging the disc on the ring, torque value is reduced considerably.
- The watertightness seal can be replaced without disassembling the valve.
- The O rings seal may be, replaced to disassemble the valve.
- Double eccentric are the only butterfly valves appropriate for high pressures.
- It guarantees a watertightness in a fast way.
- The inner profile of the body has been studied so that the valve is self-cleaning (Venturi effect).
- Installation in any position.
- Space of installation is reduced and weights are lower than for other types of valves.

### NORMS

MODEL	NOMINAL PRESSURE	FLANGED TYPE	CONSTRUCTION	FLANGES	FACE TO FACE LENGTH	ISO TOP
BVP79BX10	10 bar UNE 19.002	DIN NP10	EN 1074-1 EN 5923 ISO 10631	DIN 2501 ISO 7005.2 EN 1092-2	DIN 3202F4 ISO 5752 S14 EN558-1	ISO 5211 1/2/3
BVP79BX16	16 bar UNE 19.002	DIN NP16	EN 1074-1 EN 5923 ISO 10631	DIN 2501 ISO 7005.2 EN 1092-2	DIN 3202F4 ISO 5752 S14 EN558-1	ISO 5211 1/2/3
BVP79BX25	25 bar UNE 19.002	DIN NP25	EN 1074-1 EN 5923 ISO 10631	DIN 2501 ISO 7005.2 EN 1092-2	DIN 3202F4 ISO 5752 S14 EN558-1	ISO 5211 1/2/3
BVP79BX40	40 bar UNE 19.002	DIN NP40	EN 1074-1 EN 5923 ISO 10631	DIN 2501 ISO 7005.2 EN 1092-2	DIN 3202F4 ISO 5752 S14 EN558-1	ISO 5211 1/2/3

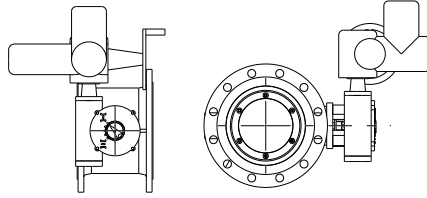
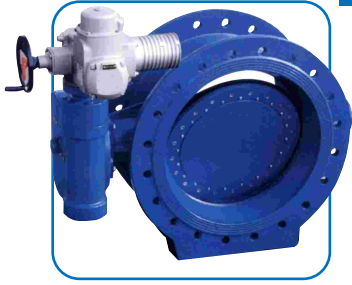
PLEASE CONSULT FOR ANOTHER TYPE OF STANDARDS OF MANUFACTURES. MAXIMUM DIAMETER OF MANUFACTURE DN3000



1	BODY	DUCTILE IRON GGG 40/50
2	BUTTERFLY	DUCTILE IRON GGG 40/50 - S.STEEL 316
3	PRESSURE RING	DUCTILE IRON GGG 40/50 - S.STEEL 304/316
4	MAIN GASKET	NBR/EPDM
5	SLEEVE	BRONZE
6	HALF RING STOP	STAINLESS STEEL
7	REAR COVER	DUCTILE IRON GGG 40/50
8	LOWER TRIM	STAINLESS STEEL 420
9	SHAFT	STAINLESS STEEL 420
10	FRONT COVER	DUCTILE IRON GGG 40/50
11	LOCK PIN	STAINLESS STEEL
12	SCREWS	STAINLESS STEEL
13	SCREWS	STAINLESS STEEL
14	SCREWS	STAINLESS STEEL
15	RING	NBR/EPDM
16	RING	NBR/EPDM
17	SCREWS	STAINLESS STEEL
18	TAB	STAINLESS STEEL
19	SEAL RING	STAINLESS STEEL 316L (WELDED)
20	GEARBOX	DUCTILE IRON GGG 40/50
21	ACTUATOR	-

# BVP-79BX

# PROINVAL BUTTERFLY VALVE DOUBLE EXCENTRIC TYPE NP10/16/25/40 - FLANGED DIN NP 10/16/25/40



**TYPES OF CONTROL:**  
ELECTRIC ACTUATOR 3-PHASES 380V / 50Hz.

ND	TORQUE ON THE VALVE SHAFT KgCm.				NO. OF TURNS TO OPEN THE VALVE 90°.				TORQUE REQUIRED ON THE ACTUATOR SHAFT KgCm.			
	NP10	NP16	NP25	NP40	NP10	NP16	NP25	NP40	NP10	NP16	NP25	NP40
150	3070	3070	-	-	-	10	-	-	-	130	-	-
200	3970	6250	9500	14000	12,5	12,5	12,5	12,5	184,5	265	442	651
250	5950	9500	15200	26000	12,5	12,5	12,5	51,3	276	441	707	296
300	9375	15000	19200	38000	12,5	12,5	12,5	51,3	436	697	893	430
350	11150	19000	23400	55000	12,5	12,5	12,5	51,3	518	883	1088	623
400	17800	23500	45600	80000	12,5	51	51	73,5	828	266	516	632
450	20500	36000	57600	110000	12,5	51	73,5	73,5	953	408	455	870
500	23000	46000	73600	150000	12,5	51	73,5	73,5	1070	521	582	1186
600	40000	88000	105000	220000	51	73,5	73,5	400	450	696	830	319
700	65000	115000	145000	320000	73,5	73,5	73,5	400	514	909	1030	465
800	93750	150000	240000	420000	73,5	73,5	400	415	741	1062	349	587
900	131500	210000	336000	580000	73,5	400	400	415	1040	305	488	811
1000	187500	300000	480000	745000	400	400	415,5	415	280	436	671	1042
1100	247000	350000	632000	-	400	400	415,5	-	360	508	884	-
1200	306000	450000	690000	-	400	415,5	415,5	-	445	629	965	-
1300	359500	540000	920000	-	400	415,5	468	-	522	755	1142	-
1400	385000	630000	1040000	-	400	415,5	468	-	560	881	1290	-
1500	469000	720000	1200000	-	415,5	415,5	468	-	660	107	1490	-
1600	562500	900000	1440000	-	415,5	468	468	-	810	1118	1789	-
1800	780000	1250000	1800000	-	468	468	468	-	1090	1552	2236	-
2000	1060000	1400000	-	-	468	468	-	-	1360	1739	-	-

Torque values for normal water.

**In order to install an actuator it is recommended to increase a 30% these values as a safety margin.**

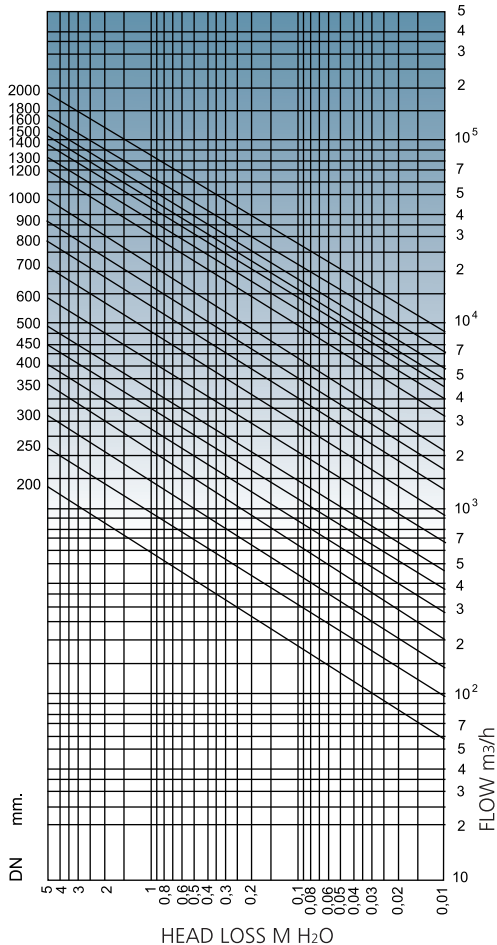
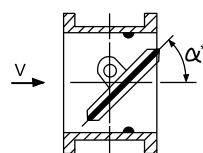
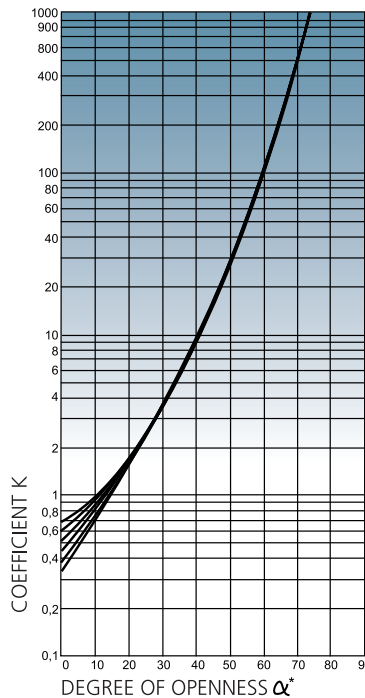


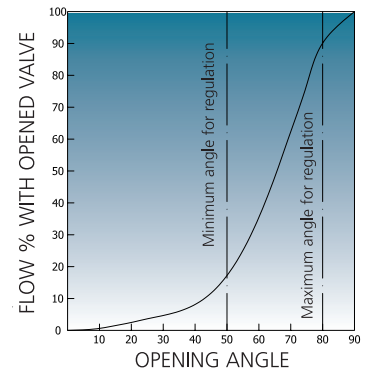
DIAGRAM OF LOAD LOSS BASED ON THE OPENING DEGREE



- DH** Load loss in column meters of water
- K** Load loss coefficient
- V** Speed of the water in the tube (m/sec)
- g** Gravitational acceleration m/sec

$$DH = \frac{K \times V^2}{2 \times g}$$

FLOW CHARACTERISTIC CHARTS



CAVITATION VALUES (Kc)  
(Cavitation coefficient)

