



Main Features:-

- ◆ Double flanged butterfly valve
- ◆ DN150-DN2000
- ◆ Available manual or actuated
- ◆ Working Temperature -40 to + 200C *
- ◆ Max Working Pressure 16 Bar (PN16)

*Temperature and pressure determined by valve body, seat etc.



SERIES: F012

MANUFACTURER: **EBRO ARMATUREN®**

Suitable Applications & Approvals:



HVAC



OIL



HVAC



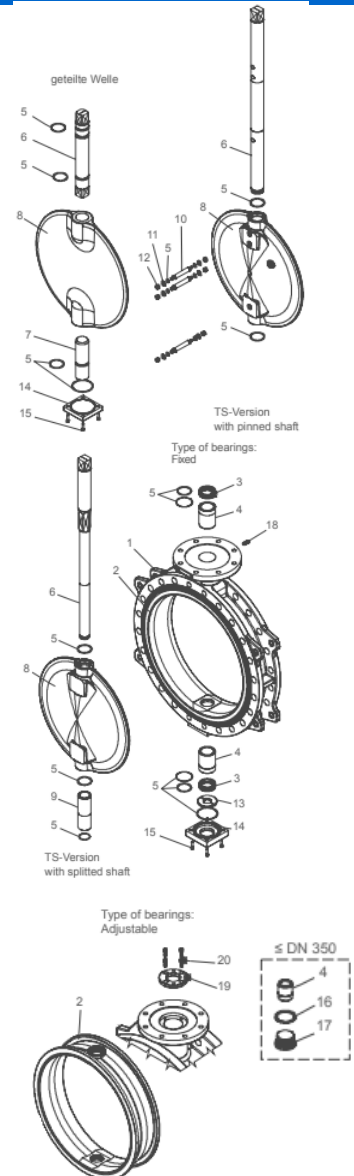
INDUSTRY



WATER

VALVE MATERIALS & DIMENSIONS

ITEM	SECTION	MATERIAL	ADDITIONAL INFO / OPTIONS
1	Body	Nodular Cast Iron	Carbon Steel
2	Seat	EDPM	NBR
3	Bearing Bush	Brass	n/a
4	Bearing Bush	Brass	n/a
5	O-Ring	NBR	EPDM
6/7	Shaft	Stainless Steel	n/a
8	Disc	Nodular Cast Iron	SS/Aluminium Bronze/ Halar
9	Sleeve	Stainless Steel	n/a
10	Taper pin	Stainless Steel	n/a
11	Washer	Stainless Steel	n/a
12	Hex Nut	SS	n/a
13	Shaft retention	Brass	SS
14	Cover Plate	Sectional steel	Nodular Cast Iron
15	Screw	Steel	SS
16	Seal DIN 915	Copper	n/a
17	Plug Screw DIN 908	Machining Steel	SS
18	Threaded pin DIN 915	Steel	SS
19	Clamping Ring	Sectional Steel	n/a
20	Cylinder screw	SS	n/a



Various materials and options available on the F012 range of butterfly valves, the above information is typically based on the standard stocked option which is GG-25 body, stainless steel disc and EPDM liner.



T +44 (0)1386 552369

E sales@allvalves.co.uk

W www.allvalves.co.uk

F +44 (0)1386 554227

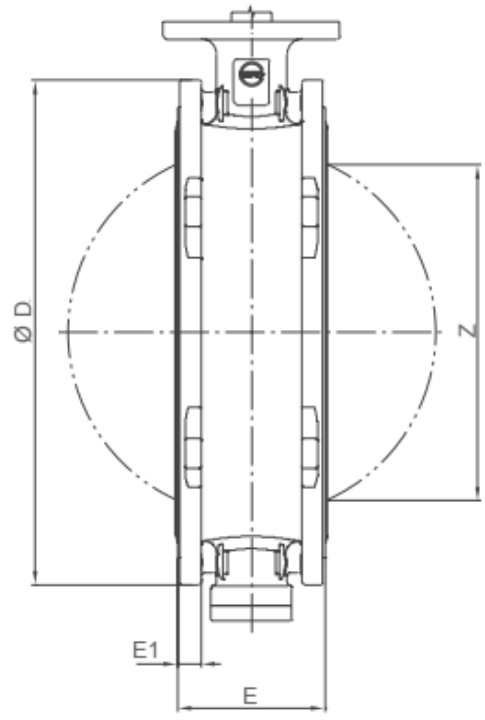
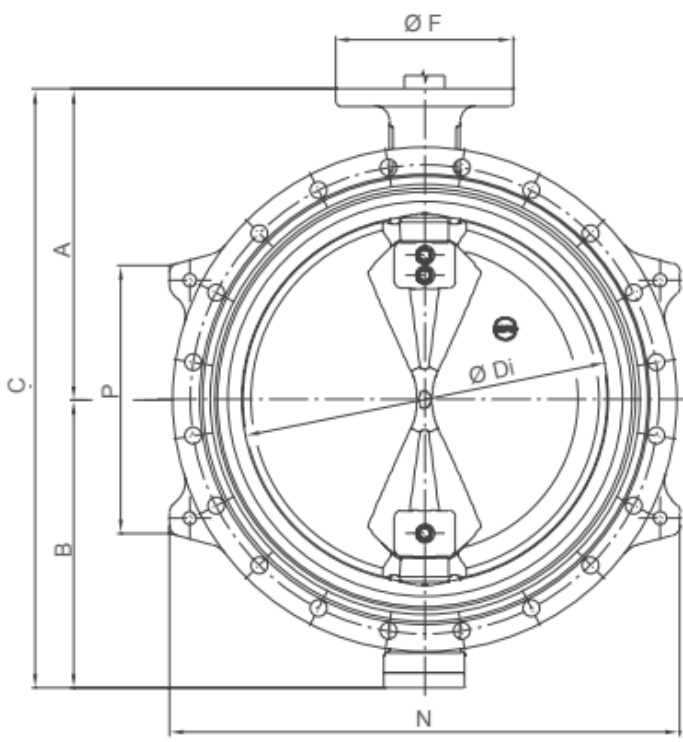


EBRO, A German manufacturer of the highest quality butterfly valves, a wide range of materials, sizes, liners and pressure ratings. EBRO butterfly valves are stocked typically 1" to 20" for next day delivery, manual or actuated.

SERIES: F012

ADDITIONAL VALVE MATERIALS & DIMENSIONS

REF	A	B	C	Ø Di	E	Ø F	Flange	N	P	E1	Z	Ø D	KG TS
F012A-E14	203	150	353	148	56	90	F07	-	-	15	140	305	26
F012A-E16	228	176	404	198	60	90	F07	-	-	17	192	350	34
F012A-E18	266	212	478	248	68	125	F10	-	-	19	241	430	50
F012A-E20	291	237	528	296	78	125	F10	-	-	24	288	480	72
F012A-E24	363	314	677	390	102	150	F12	-	-	28	379	605	86
F012A-E26	397	335	732	426	114	175	F14	-	-	30	414	675	128
F012A-E26	465	385	850	426	114	210	F16	-	-	27	414	770	150
F012A-E26	437	405	842	489	127	210	F16	-	-	30	475	710	163
F012A-E32	498	445	943	582	154	300	F25	-	-	33	564	780	170
F012A-E32	498	445	943	582	154	300	F25	860	400	33	564	830	260
F012A-E36	581	507	1088	674	165	300	F25	-	-	33	658	905	296
F012A-E36	581	507	1088	674	165	300	F25	-	-	48	658	927	345
F012A-E36	581	507	1088	674	165	350	F25/F30	920	510	38	658	910	374



F012-K1 with free shaft end acc. to EN ISO 5211





SERIES: F012

TORQUE & Kv VALUES

REF	SIZE _[inch]	3 BAR DISC	6 BAR DISC	10 BAR DISC	16 BAR DISC	TORQUE :
F012A-E14	6	36	45	78	125	- Please regard these as approximate values, as the objective value on different factors like pressure, medium, rubber, quality, temperature etc. - Powder based / dry non lubricating applications we recommend x 1.3 safety factor. - If application is wet, lubricating use torque figures stated to include 25% safety.
F012A-E16	8	59	76	140	200	
F012A-E18	10	150	180	200	240	
F012A-E20	12	200	240	280	360	
F012A-E24	14	350	540	610	700	
F012A-E26	16	420	620	750	850	
F012A-E28	18	720	746	860	1500	
F012A-E32	20	900	1100	2255	3690	
F012A-E36	24	1050	1800	3000	5830	

REF	SIZE	20 °	30°	40 °	50 °	60 °	70 °	80 °	90 °	KV VALUES:
F012A-E14	6	76.5	97.3	197	375	629	957	1360	1830	- The Kv values (M3 per hour) is the flow of water at a temperature of 5C to 30C (41F to 86F) at p of 1 bar - The Kv values specified are based on tests carried out by the Delfter Hydraulics Laboratories in Netherlands. - Permissible velocity of flow Vmax 4.5 m/s for liquids and Vmax 70 m/s for gases.
F012A-E16	8	137	187	373	697	1160	1760	2510	3400	
F012A-E18	10	227	271	563	1090	1850	2830	4010	5390	
F012A-E20	12	287	409	820	1550	2610	4050	5880	8120	
F012A-E24	14	399	488	1070	2110	3590	5480	7760	10400	
F012A-E26	16	557	703	1360	2600	4470	7060	10400	14600	
F012A-E28	18	716	907	1810	3440	5830	8980	13000	17800	
F012A-E32	20	875	1110	2250	4280	7180	10900	15500	20900	
F012A-E36	24	1230	1550	3150	6010	10090	15400	21800	29400	

DOUBLE FLANGED BUTTERFLY VALVE F012 - K1/ WN

The shaft sealing of centric soft-seated butterfly valves is primarily effected by the surface pressure between the valve disc and the liner. Especially with large nominal diameters from DN600 and high pressures more than 16 bar, the simple surface pressure may no longer be sufficient.

EBRO has designed an adjustable shaft seal which makes it possible to increase the surface pressure in the shaft passage area so even large valves can operate at pressures of up to 25 bar.

A further advantage of this design is that the shaft seal can be adjusted by tightening the screws and thus readjusted if necessary.



For more details and more sizes please contact sales@allvalves.co.uk or call 01386552369.

