

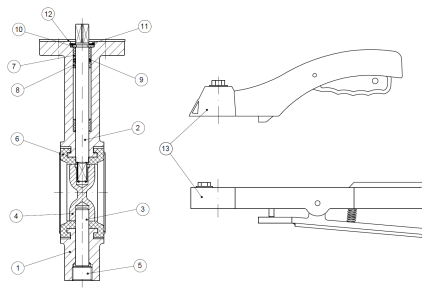
Ref: **2109**

Wafer type butterfly valve PN 10/16. ANSI 150 lbs



Features

1. Wafer-type butterfly valve.
2. EN-GJL-200 (GG-20) cast iron body for mounting between ANSI 150 and EN 1092 PN 10/16 flanges.
3. EPDM elastomer.
4. Disc made of 1.4408 (CF8M) stainless steel.
5. Actuator mounting flange in accordance with ISO 5211.
6. Face-to-face length in accordance with UNE EN 558-1 Series 20 (DIN 3202 K1).
7. Epoxy paint finish.
8. Operating temperature: -20 °C to +120 °C.
9. Maximum working pressure:
 - 16 bar (sizes 2" to 12")
 - 10 bar (sizes 14" to 24")

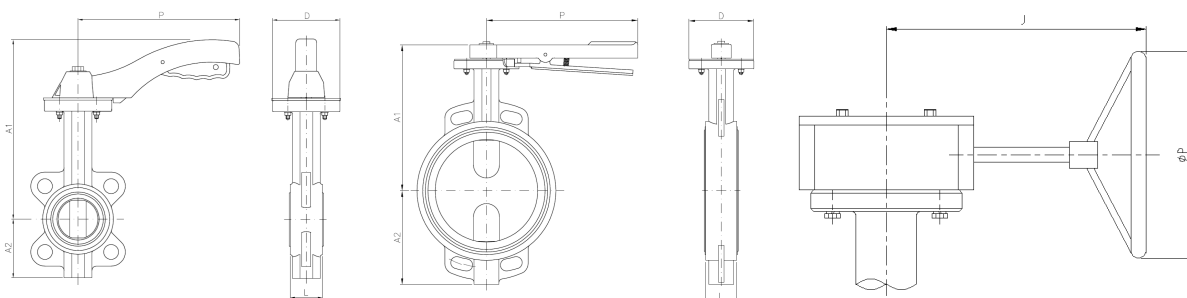


N.	Name	Material	Surface Finish	Spare Part Code
1	Body	EN-GJL-200 cast iron	Epoxy coating	-----
2	Axis	Stainless steel AISI 416	-----	-----
3	Centre	Stainless steel AISI 416	-----	-----
4	Album	Stainless steel 1.4408 CF8M	Shot blasting	-----
5	Plug	Carbon steel ($\geq 12''$)	Zinc-plated	-----
6*	Elastomer	EPDM	-----	E2109
7	Bushing	PTFE + Graphite	-----	-----
8	Bushing	PTFE + Graphite	-----	-----
9	Toric	NBR	-----	-----
10	Washer	Carbon steel	Zinc-plated	-----
11	Insurance	Carbon steel	Zinc-plated	-----
12	Toothed plate	Carbon steel	Zinc-plated	-----
13	Lever	Aluminium or EN-GJL-200 cast iron	Epoxy coating	-----
23	Plug	EN-GJL-200 cast iron ($\geq 14''$)	Epoxy coating	-----
24	Toric	NBR ($\geq 14''$)	-----	-----
25	Screw	Carbon steel ($\geq 14''$)	Zinc-plated	-----

* Spare parts available

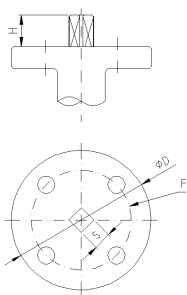
GENERAL DIMENSIONS

Ref.	Measure	Dimensions (mm)						Weight (kg)
		L	A1	A2	D	P	PN	
2109 09	2"	43	238	70	65	170	16	2.663
2109 10	2 1/2"	46	238	80	65	170	16	3.134
2109 11	3"	46	238	100	65	170	16	3.604
2109 12	4"	52	270	115	90	215	16	5.529
2109 13	5"	56	300	135	90	215	16	6.976
2109 14	6"	56	300	150	90	215	16	7.922
2109 16	8"	60	280	180	125	300	16	14.711
2109 18	10"	68	330	215	125	300	16	22.113
2109 20	12"	78	360	250	150	—	16	39.46
2109 22	14"	78	390	260	150	—	10	54.861
2109 24	16"	102	420	300	175	—	10	76.167
2109 26	18"	114	445	330	175	—	10	118.377
2109 28	20"	127	480	370	175	—	10	142.495



Upper flange dimensions

Reference	DN	F (ISO 5211)	S	D	H	Torque (N·m)
2109 09	50	F05	11	65	16	12
2109 10	65	F05	11	65	16	20
2109 11	80	F05	11	65	16	27
2109 12	100	F07	14	90	16	40
2109 13	125	F07	14	90	16	60
2109 14	150	F07	14	90	16	90
2109 16	200	F07/F10	17	125	28	130
2109 18	250	F10	22	125	28	180
2109 20	300	F10/F12	22	150	28	270
2109 22	350	F12	22	150	45	610
2109 24	400	F14	27	175	45	805
2109 26	450	F14	27	175	45	1100
2109 28	500	F14	36	175	45	1500



Pressure drops (kV) depending on the disc's position

Measure	90°	80°	70°	60°	50th	40°	30°	20th	10th
50	125	99	73	53	37	23	14	6	0.9
65	244	193	141	93	58	37	21	10	1.3
80	399	315	231	133	83	53	30	13	1.7
100	727	606	429	237	148	94	54	23	2.6
125	1190	991	670	370	232	147	85	37	4
150	1600	1334	887	490	306	195	112	48	5
200	2868	2458	1611	935	588	364	208	88	10
250	4697	3914	2550	1479	931	577	330	140	16
300	6987	5822	3800	2217	1379	869	480	203	23
350	9115	7676	5137	2927	1859	1142	654	259	29
400	12081	10173	6805	3878	2463	1513	866	343	39
450	14890	12539	8706	4962	3151	1935	1108	439	50
500	19323	16272	10843	6180	3924	2410	1380	547	62
600	37295	33939	22626	14297	8640	4848	2238	1057	130

Kv VALUES

Kv = The number of cubic metres per hour (m^3/h) that will flow through the valve, resulting in a pressure drop of 1 bar.

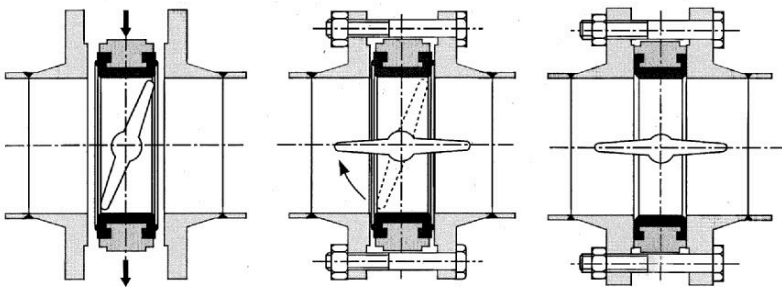
Cv VALUES

Cv = The number of gallons per minute (gpm) that will flow through the valve, causing a pressure drop of 1 psi.

$Cv = 1.156 Kv$

Precautions for installation

1. Do not install the valve in the fully closed position.
2. Check that the flanges are properly aligned
3. Do not place any other gaskets between the flanges
4. Open the valve fully before tightening the flanges



PRESSURE-TEMPERATURE CURVE

Kv = The number of cubic metres per hour (m³/h) that will flow through the valve, resulting in a pressure drop of 1 bar.

