

BUTTERFLY VALVES

Beaver Two-Piece Concentric Butterfly Valve

A concentric butterfly valve with a PTFE-coated disc suited for high-temperature and corrosive applications.

F11, F12



B | E | A | V | E | R

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Beaver F11 Ball Valve

Beaver F11–F12 Two-Piece Concentric Butterfly Valve

The Beaver F11–F12 butterfly valve has a two-piece body with a concentric design. The stem is centred in the disc and the disc centred in the bore. Such a symmetric design allows for high flow values and minimises pressure drops.

The valve's distinguishing feature is a PTFE-lined disc coupled complemented by a PTFE seat that covers the entire surface of the body which comes into contact with the media. The PTFE material provides corrosion protection, making the valve suitable for chemical and petrochemical applications where standard elastomers will likely fail.

KEY FEATURES

- Pinless disc prevents leakage at the joints, particularly of highly corrosive media.
- Compact and simple structure enables quick, low-torque operation.
- Suited for shut-off or throttling operation with bidirectional sealing capability.
- Can be manually operated using a lever with a notch plate or gear operated with a handwheel.
- Available with a wafer or lugged body design.

Need technical advice? Our friendly specialists are here to help.

F11

Two-Piece Concentric Wafer Butterfly Valve

Tables 1–2. F11 Specifications

Technical Specifications	
Brand	Beaver
Model	F11 (Wafer)
Size range	DN50–300 (2–12")
Pressure class	10 bar
End connections	Wafer (AS2129 Table D/E and ANSI 150)
Actuator options	Lever with notch plate Manual gear operator

Material Specifications	
Body	Cast iron
Disc	PTFE-coated stainless steel SS316
Stem	SS410
Seat	PTFE
O-ring	NBR (Nitrile)

Table 3. F11 Torque

Operating Torque		
Size	Shutoff pressure (kPa)	
	600	1000
50	23	24
65	24	29
80	32	35
100	50	54
125	82	88
150	104	110
200	187	200
250	300	355
300	410	530

Diagram. F11 Parts

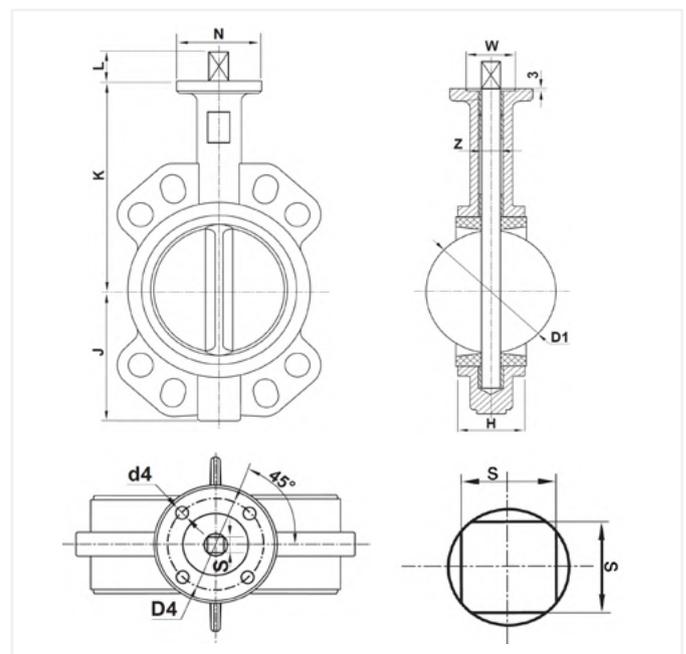


Table 4. F11 Dimensions

Product Dimensions (mm)																
DN	K	J	H	Z	L	Locating holes to suit PCD		D1	N	d4	D4	W	S	ISO	Weight (kg)	
						Table D/E	ANSI 150								Lever	Gear
50	161	80	43	12.5	32	114	120.5	52.5	65	7	50	36	9	F05	4.5	-
65	175	89	46	12.5	32	127	139.5	63.8	65	7	50	36	9	F05	6.5	-
80	181	95	46	14.5	32	146	152.5	78.1	65	7	50	36	9	F05	7.5	13
100	200	114	52	16.5	32	178	190.5	103.8	90	9	70	56	11	F07	10	16
125	213	127	56	18.5	32	210	216	123.1	90	9	70	56	14	F07	12	18
150	226	139	56	18.5	32	235	241.5	155	90	9	70	56	14	F07	15	21
200	260	175	60	22.5	40	292	298.5	202.1	125	11	102	71	17	F10	23	33
250	292	203	68	30.5	40	356	362	250.1	125	11	102	71	22	F10	30	45
300	337	242	78	30.5	40	406	432	301.1	125	11	102	71	22	F10	43	59

F12

Two-Piece Concentric Lugged Butterfly Valve

Table 1-2. F12 Specifications

Technical Specifications	
Brand	Beaver
Model	F11 (Lugged)
Size range	DN 50-300 (2-12")
Pressure class	10 bar
End connections	Lugged
Actuator options	Lever with notch plate Manual gear operator

Material Specifications	
Body	Cast iron
Disc	PTFE-coated stainless steel SS316
Stem	SS316
Seat	PTFE
O-ring	NBR (Nitrile)

Table 3. F11 Torque

Size	Operating Torque	
	Shutoff pressure (kPa)	
	600	1000
50	23	24
65	24	29
80	32	35
100	50	54
125	82	88
150	104	110
200	187	200
250	300	355
300	410	530

Diagram. F11 Parts

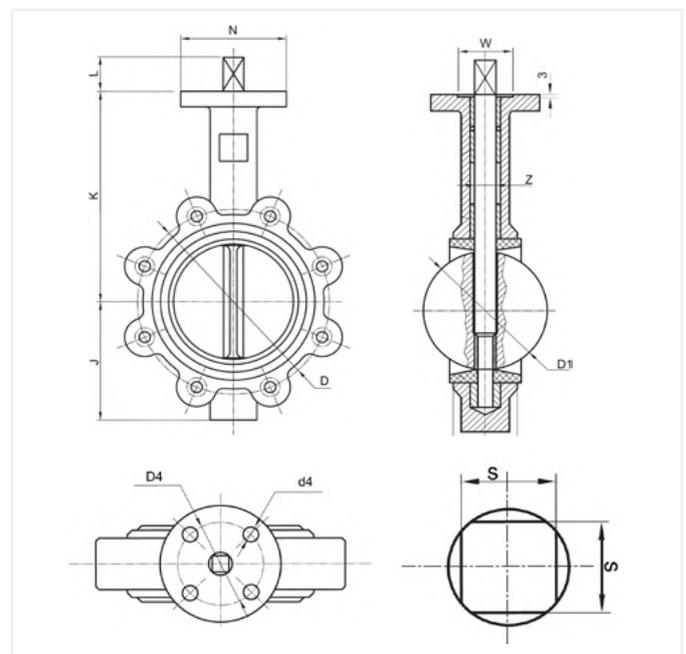


Table 4. F11 Dimensions

Product Dimensions (mm)																
DN	K	J	H	Z	L	D	Bolt size	D1	N	d4	D4	W	S	ISO	Weight (kg)	
															Lever	Gear
50	161	80	43	12.5	32	114	M16	52.5	65	7	50	36	9	F05	4.5	-
65	175	89	46	12.5	32	127	M16	63.8	65	7	50	36	9	F05	6.5	-
80	181	95	46	14.5	32	146	M16	78.1	65	7	50	36	9	F05	7.5	13
100	200	114	52	16.5	32	178	M16	103.8	90	9	70	56	11	F07	10	16
125	213	127	56	18.5	32	210	M16	123.1	90	9	70	56	14	F07	12	18
150	226	139	56	18.5	32	235	M20	155	90	9	70	56	14	F07	15	21
200	260	175	60	22.5	40	292	M20	202.1	125	11	102	71	17	F10	23	33
250	292	203	68	30.5	40	356	M20	250.1	125	11	102	71	22	F10	30	45
300	337	242	78	30.5	40	406	M24	301.1	125	11	102	71	22	F10	43	59



We're here to help

We know it's important for you to talk to someone who knows their stuff. So if you have technical questions or need help choosing the right products, talk to our team. We'll walk you through our proven problem solving process.

1. Tell us what you need.

Tell us about your project. What do you want to achieve? What problems do you need to overcome? Let's work back from there.

2. Choose the right solution.

Weigh up the options. We'll do the analysis, discuss the options with you, and make a recommendation—the choice we'd make in your shoes.

3. Get the job done.

Complete your project, with the right products, on time and to spec. We've got your back all the way, with support during installation and commissioning.

Tap into our expertise and talk to our friendly, expert team.

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