

BUTTERFLY VALVES

Beaver Double Offset Butterfly Valve

A double eccentric butterfly valve with high temperature and pressure resistance.

F21, F22, F23, F24



B | E | A | V | E | R

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Beaver F22 Lugged Butterfly Valve

Beaver F21–F24 Double Offset Butterfly Valve

The Beaver F21–F24 Butterfly Valve is a high-performance valve with a double-offset geometry. In this design, the stem is behind the disc (first offset) and slightly off the pipe centreline (second offset). This minimises the disc's contact with the seat during opening and closing, resulting in less wear.

This is a highly reliable valve used for on/off or modulation in critical services in chemical and petrochemical, power and utilities, and hydrocarbon processing and storage applications.

The valve comes with two seat options: wear-resistant soft seat, which offers bubble-tight zero leakage, and temperature-resistant metal seat, which has an allowable leakage rate.

KEY FEATURES

- Design complies with the requirements of API 609 and BS EN 593.
- Available with a wafer or lugged body design in Class 150 and 300.
- V-type packing gland design compensates for wear and helps boost service life.
- Built-in anti-static device prevents static that can generate harmful sparks from building up on the valve.
- Blow-out proof stem prevents the stem from being ejected in the unlikely event of valve failure.
- ISO 5211-compliant mounting pad allows direct mounting of pneumatic or electric actuator.

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

F21 (Wafer) and F22 (Lugged) Double Offset Class 150 Butterfly Valve

Tables 1–2. F21–F22 Specifications

Technical Specifications	
Size range	DN50–1200 (2–48") DN200 and smaller have a bottom cover
Pressure class	Class 150
Temperature range	ASME B16.34
Actuator options	Lever Gear operated Pneumatic Electric

Material Specifications	
Body	WCB carbon steel Duplex stainless steel Titanium Nickel alloy Zirconium Austenitic stainless steel Copper alloy
Seat	PTFE RPTFE Metal

Diagram. F21 Wafer Parts

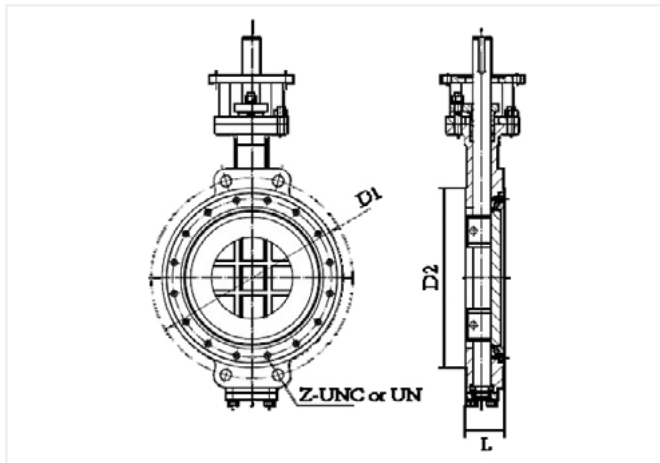


Diagram. F22 Lugged Parts

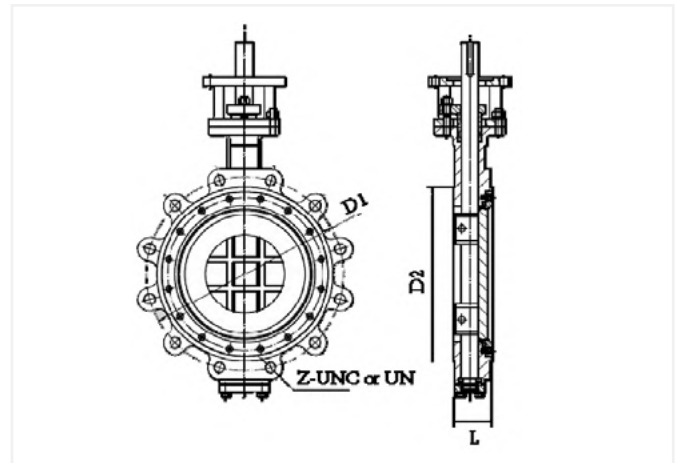


Table 3. F21–F22 Dimensions

Product Dimensions (mm)												
Size	50	65	80	100	125	150	200	250	300	350	400	450
L	43	46	48	54	57	57	64	71	81	92	102	114
D1	120.5	139.5	152.5	190.5	216	241.5	298.5	362	432	476	540	578
D2	92	105	127	157	186	216	270	324	381	413	470	533
Z-UNC or UN	4-UNC5/8"			8-UNC5/8"	8-UNC 3/4"			12-UNC 7/8"	12-UN1"	16-UN1"	16-UN1-1/8"	

Size	500	550	600	700	750	800	900	1000	1050	1200
L	127	127	154	165	241	241	241	300	300	350
D1	635	692	749.5	863.5	914.5	978	1086	1200	1257.5	1422
D2	584	641	692	800	857	914.5	1022	1124	1194	1359
Z-UNC or UN	20-UN1-1/8"	20-UN1-1/4"		28-UN1-1/4"		28-UN1-1/2"	32-UN1-1/2"	36-UN1-1/2"		44-UN1-1/2"

F23 (Wafer) and F24 (Lugged) Double Offset Class 300 Butterfly Valve

Tables 1–2. F23–F24 Specifications

Technical Specifications	
Size range	DN50–900 (2–36") DN200 and smaller have a bottom cover
Pressure class	Class 300
Temperature range	ASME B16.34
Actuator options	Lever Gear operated Pneumatic Electric

Material Specifications	
Body	WCB carbon steel Duplex stainless steel Titanium Nickel alloy Zirconium Austenitic stainless steel Copper alloy
Seat	PTFE RPTFE Metal

Diagram. F23 Wafer Parts

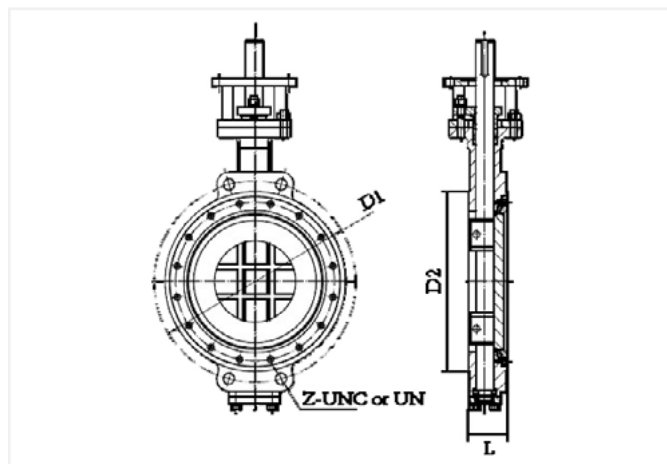


Diagram. F24 Lugged Parts

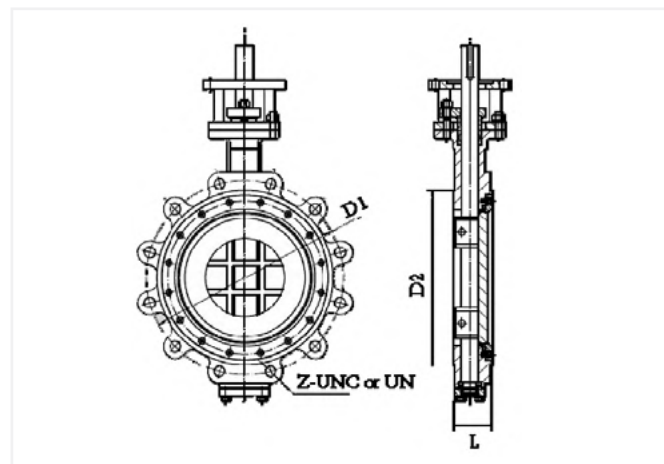


Table 3. F23-F24 Dimensions

Product Dimensions (mm)									
Size	50	65	80	100	125	150	200	250	300
L	43	46	48	54	59	59	73	83	92
D1	127	149	168	200	235	270	330	388	451
D2	92	105	127	157	186	216	270	324	381
Z-UNC or UN	8-UNC5/8"	8-UNC3/4"			12-UNC3/4"		12-UNC7/8"	16-UN1"	16-UN1-1/8"
Size	350	400	450	500	550	600	750	900	
L	117	133	149	159	159	181	273	286	
D1	515	572	629	686	743	813	997	1168	
D2	413	470	533	584	641	692	857	1022	
Z-UNC or UN	20-UN1-1/8"	20-UN1-1/4"	24-UN1-1/4"		24-UN1-1/2"		28-UN1-3/4"	32-UN2"	



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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