

BALL VALVES

Beaver Two-Piece Flanged Ball Valve

A split body valve with a floating ball and firesafe design used in corrosive and non-corrosive applications.

B21, B22, B23



B | E | A | V | E | R

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Beaver B21–B23 Two-Piece Flanged Ball Valve



Beaver B21 Ball Valve

This range of Beaver flanged floating ball valve consists of a ball sandwiched between two seats that seal against the inlet and outlet ports. In-line pressure naturally pushes the floating ball against the downstream seat, ensuring seal-tightness. It also features a special firesafe graphite gasket.

The Beaver two-piece flanged ball valve complies with API and ASME/ANSI standards and is suitable for handling a variety of fluids in oil, petrochemical, chemical, gas, and general process.

KEY FEATURES

- Available as full or reduced bore in Class 150, 300, and 600 with ISO 5211 actuator mounting.
- 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 from the body in the unlikely event of valve failure.
- Requires low operating torque for cost-effective actuation.
- Lockout tab prevents accidental activation of a valve under maintenance.

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

B21

Two-Piece Flanged Class 150 Ball Valve

Tables 1-2. B21 Specifications

Standard Materials		
Part	Carbon steel valve	Stainless steel valve
Body/cap	A216 WCB	A351 CF8M
Ball/stem	316 SS	316 SS
Seats	RPTFE	RPTFE

Face-to-Face Dimensions	
Face to face	ASME B16.10 long pattern
End flange	ASME B16.5
Rating	ASME Class 150

Diagram 1. Full Bore Parts

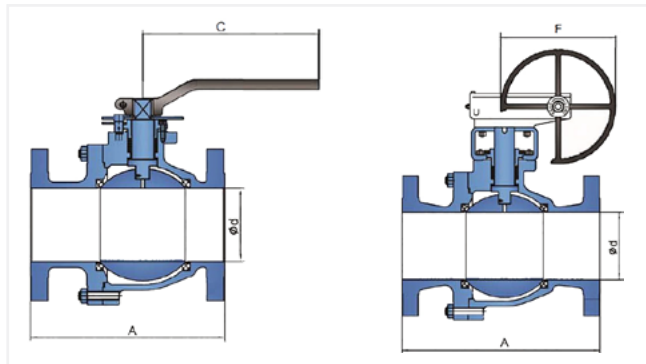


Diagram 2. Reduced Bore Parts

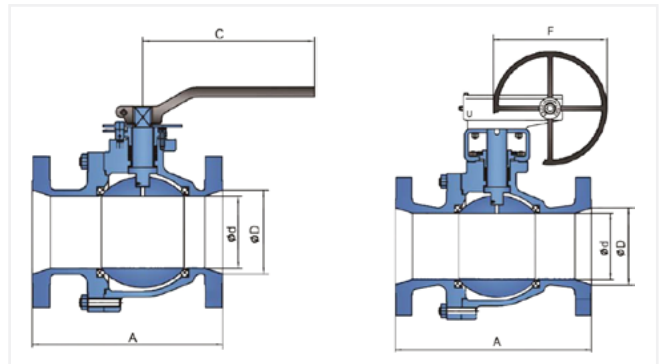


Table 3. B21 Full Bore Dimensions

Product Dimensions (mm)											
Size	20	25	40	50	65	80	100	150	200	250	300
Bore size (d)	19.05	25.40	38.10	50.80	63.50	76.20	101.60	152.40	203.20	254.00	304.80
Face to face (A) RF	117.09	127.00	165.10	178.05	191.01	202.95	229.11	393.95	456.95	532.89	610.11
Handle length (C)	184.91	184.91	249.94	249.94	400.05	400.05	459.99	852.42			
Handwheel diameter (F)								400.05	459.99	599.95	599.95
Approx. weight (kg)	3.63	4.99	6.80	10.89	14.51	21.77	39.92	90.72	198.22	321.60	512.56

Table 4. B21 Reduced Bore Dimensions

Product Dimensions (mm)									
Size	50	65	80	100	150	200	250	300	
Bore size (d)	38.10	50.80	63.50	76.20	101.60	152.40	203.20	254.00	
Face to face (A) RF	191.01	202.95	229.11	393.95	456.95	532.89	610.11		
Handle length (C)	249.94	400.05	400.05	400.05	459.99	849.88			
Handwheel diameter (F)						400.05	500.13	599.95	
Approx. weight (kg)	9.98	15.42	16.78	28.58	79.38	140.61	190.96	306.63	

B22

Two-Piece Flanged Class 300 Ball Valve

Tables 1-2. B22 Specifications

Standard Materials		
Part	Carbon steel valve	Stainless steel valve
Body/cap	A216 WCB	A351 CF8M
Ball/stem	316 SS	316 SS
Seats	RPTFE	RPTFE

Face-to-Face Dimensions	
Face to face	ASME B16.10 long pattern
End flange	ASME B16.5
Rating	ASME Class 300

Diagram 1. Full Bore Parts

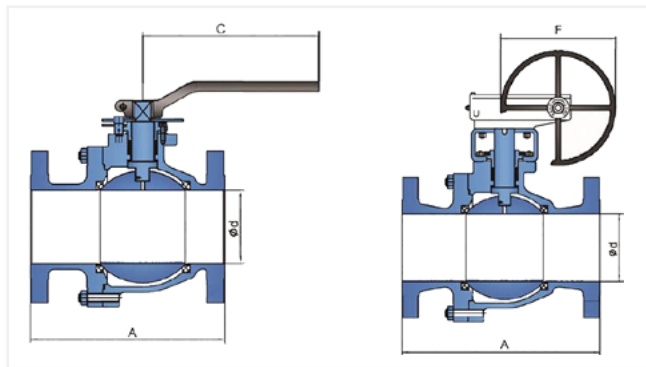


Diagram 2. Reduced Bore Parts

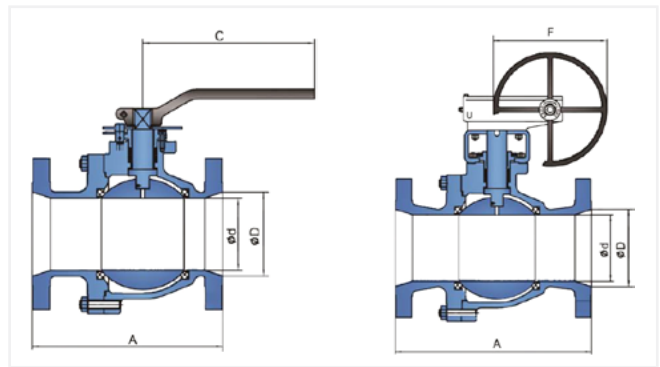


Table 3. B22 Full Bore Dimensions

Product Dimensions (mm)											
Size	20	25	40	50	65	80	100	150	200	250	300
Bore size (d)	19.05	25.40	38.10	50.80	63.50	76.20	101.60	152.40	203.20	254.00	304.80
Face to face (A) RF	151.89	165.10	189.99	215.90	241.05	282.96	305.05	456.95	501.90	567.94	647.95
Handle length (C)	184.91	184.91	184.91	249.94	400.05	400.05	795.02	795.02			
Handwheel diameter (F)								400.05	500.13	700.02	700.02
Approx. weight (kg)	3.63	4.99	6.80	13.61	25.40	33.11	52.16	121.56	215.00	403.70	646.82

Table 4. B22 Reduced Bore Dimensions

Product Dimensions (mm)									
Size	50	65	80	100	150	200	250	300	
Bore size (d)	38.10	50.80	63.50	76.20	101.60	152.40	203.20	254.00	
Face to face (A) RF	215.90	241.05	282.96	305.05	456.95	501.90	567.94		
Handle length (C)	249.94	400.05	400.05	400.05	795.02	795.02			
Handwheel diameter (F)						400.05	500.13	599.95	
Approx. weight (kg)	14.06	29.48	50.35	28.58	79.38	143.79	274.42	530.70	

B23

Two-Piece Flanged Class 600 Ball Valve

Tables 1-2. B23 Specifications

Standard Materials		
Part	Carbon steel valve	Stainless steel valve
Body/cap	A216 WCB	A351 CF8M
Ball/stem	316 SS	316 SS
Seats	RPTFE	RPTFE

Face-to-Face Dimensions	
Face to face	ASME B16.10
End flange	ASME B16.5
Rating	ASME Class 600

Diagram 1. Full Bore Parts

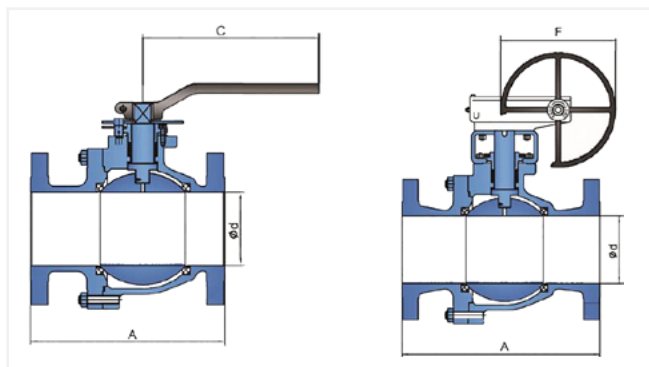


Diagram 2. Reduced Bore Parts

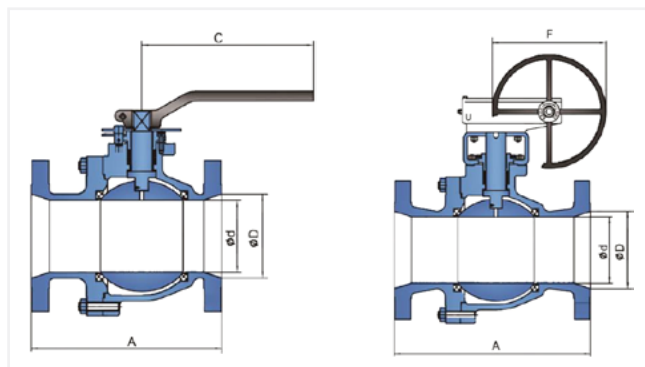


Table 3. B23 Full Bore Dimensions

Size	Product Dimensions (mm)					
	25	40	50	80	100	150
Bore size (d)	25.40	38.10	50.80	76.20	101.60	152.40
Face to face (A) RF	215.90	241.05	292.10	356.11	432.05	559.05
Handle length (C)	184.91	249.94	400.05	800.10	899.92	899.92
Handwheel diameter (F)						
Approx. weight (kg)	4.99	13.61	17.69	29.48	63.05	122.47

Table 4. B23 Reduced Bore Dimensions

Size	Product Dimensions (mm)			
	50	80	100	150
Bore size (d)	38.10	50.80	76.20	101.60
Face to face (A) RF	292.10	356.11	432.05	559.05
Handle length (C)	400.05	800.10	899.92	899.92
Handwheel diameter (F)				
Approx. weight (kg)	17.69	29.48	63.05	122.47



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.

B | E | A | V | E | R

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