

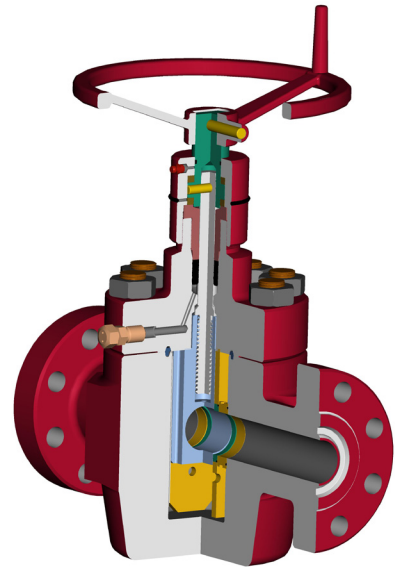


Weatherford Slab-Gate Valve (WFC)

Weatherford's WFC slab-gate valve is a high-quality, reliable gate valve for drilling and production applications. The full-bore, through-conduit valve is available in standard flanged or threaded configurations.

The WFC valve has a forged design and is offered in working pressures from 2,000 to 15,000 psi (13.8 to 103.4 MPa) with bore sizes from 1-13/16 through 7-1/16 in. The WFC valve can be prepped for actuator, which accommodates industry standard actuators. Larger bore valves are also available with ball-screw operators for reduced torque.

The WFC slab-gate valve is engineered and manufactured to meet the highest quality standards and is manufactured per API specifications, qualifying it to bear the API-6A monogram.



Applications

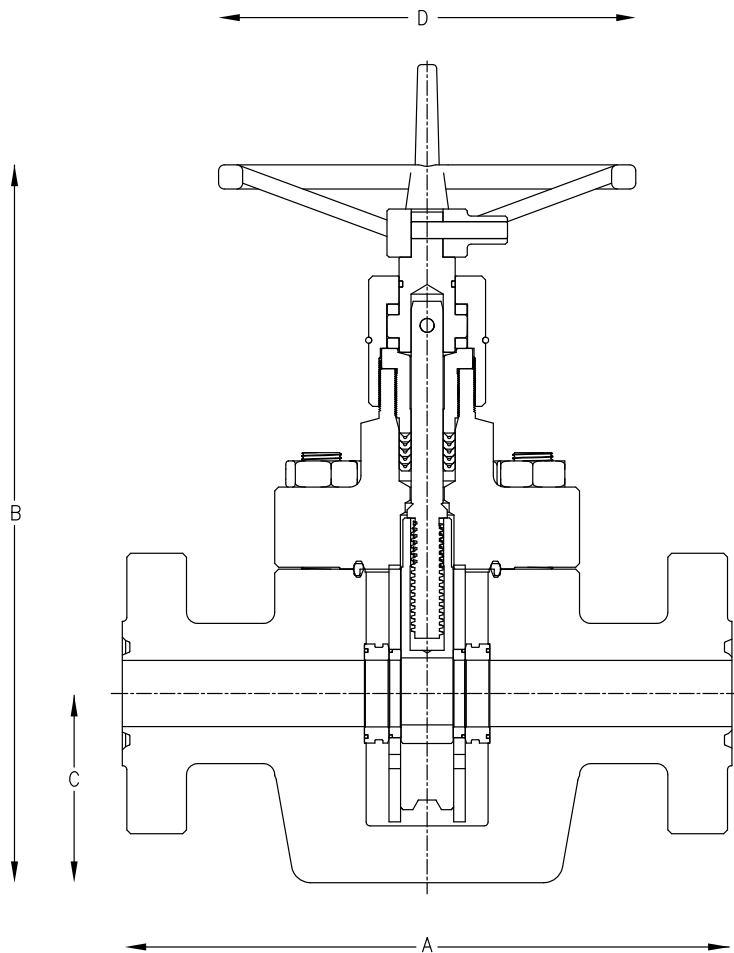
- Used in wellhead systems, Christmas trees, manifolds, and casing valves

Features, Advantages and Benefits

- WFC's bidirectional floating/slab-gate design is proven and reliable.
- The WFC slab-gate valve has a metal-to-metal bonnet gasket, providing a better quality seal.
- This valve provides positive metal-to-metal sealing between gate to seat ring and seat to body.
- The WFC valve has a nonrising one-piece stem, which means less wear on parts.
- A straightforward maintenance program is enhanced by grease injection ports for lubrication of internal components, bearings, and backseat stem feature for seal replacement under pressure, allowing for easy internal part lubrication and increasing longevity.
- Larger sizes of the WFC valve are adapted for ball screw and lower stems, providing reduced torque.
- The WFC slab-gate valve is available in hydraulic or pneumatic activation for both fail-safe and double-acting styles.

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Specifications for Handwheel Operated



Dimensions on Page 3.

Weatherford Slab-Gate Valve (WFC)

Specifications for Handwheel Operated (continued)

Nominal Sizes (in./mm)	Working Pressure (psi/MPa)	Dimensions (in./mm)				Number of Turns to Open/Close
		A (Flanged)	B	C	D	
1-13/16 46	10,000 69.0	18.25 463.55	21.64 549.70	5.69 144.40	15.75 400.05	12.5
	15,000 103.5	18.00 457.20	22.09 561.00	6.13 155.70		
2-1/16 52	3,000 20.7	14.62 371.35	21.39 543.30	5.43 138.00	12.60 320.04	12.5
	5,000 34.5					
	10,000 69.0	20.50 520.70	21.70 551.10	5.74 145.80	17.72 450.09	
	15,000 103.5	19.00 482.60	22.33 567.30	6.38 162.00		
2-9/16 65	3,000 20.7	16.62 422.15	23.41 594.60	6.87 174.60	15.75 400.05	15.25
	5,000 34.5					
	10,000 69.0	22.25 565.15	23.61 599.60		19.66 499.36	
	15,000 103.5	21.00 533.40	25.91 658.10			
3-1/8 79	3,000 20.7	17.12 434.85	25.22 640.60	7.50 190.60	15.75 400.05	18.25
	5,000 34.5	18.62 472.95				
3-1/16 78	10,000 69.0	24.38 619.25	25.84 656.30	8.12 206.30	19.66 499.36	18.25
	15,000 103.5	23.56 598.42	31.89 810.00	10.16 258.00		22.88
4-1/16 103	3,000 20.7	20.12 511.05	28.33 719.50	9.04 229.50	17.72 450.09	23.25
	5,000 34.5	21.62 549.15				
	10,000 69.0	26.38 670.05	30.47 773.90	10.00 253.90	19.66 499.36	
	15,000 103.5	29.00 736.60	35.42 899.70	11.80 299.70		
7-1/16 179	5,000 34.5	32.00 812.80	66.89 1,699.00	16.30 414.00	29.92 759.97	—
	10,000 69.0	35.00 889.00	70.04 1,779.00		44.02 1,118.11	
	15,000 103.5	40.00 1,016.00	74.80 1,900.00	17.64 448.00		



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Specifications for Handwheel Operated (continued)

Trim Materials

Material class designation	AA	BB	CC	DD	EE	FF
Body/bonnet	Alloy steel	Alloy steel	Stainless steel	Alloy steel	Alloy steel	Stainless steel
Gate	Alloy steel nitrided	Stainless steel nitrided	Stainless steel nitrided	Alloy steel hard-faced	Stainless steel hard-faced	Stainless steel hard-faced
Seat ring	Stellite 6	Stellite 6	Stellite 6	Stellite 6	Stellite 6	Stellite 6
Seat	Alloy steel	Alloy steel	Stainless steel	Alloy steel	Alloy steel	Stainless steel
Stem	Stainless steel nitrided or QPQ	Stainless steel nitrided or QPQ	Stainless steel nitrided or QPQ	Stainless steel nitrided or QPQ	Stainless steel nitrided or QPQ	Stainless steel nitrided or QPQ

Trim materials shown are for 0.5 percent maximum H₂S service.
 Additional products are available. For more information, contact your local Weatherford representative.