

DFC Manual Gate Valve

Canam offers a large inventory of new DFC style gate valves. Whether new or remanufactured, our valves are guaranteed to be 100% interchangeable with the original equipment manufacturers.

- The DFC gate valves are field-proven valves that provide reliability and interchangeability.
- The DFC valve has bi-directional sealing and a non-rising stem, making it ideally suited for drilling manifolds, X-mas trees, and severe service.
- No special tools are needed to change gate and seat assembly.
- The stem pin protects the stem and internal parts from failure by shearing if the handwheel is over torqued.
- One-piece gate helps to prevent line sediment from entering the body cavity and prevents pressure locks when the up-stream pressure drops.
- A wide range of body and trim materials to meets various operating conditions.
- Easily equipped with hydraulic actuators for manifold or subsea service.
- Meets or exceeds API 6A Standards



DFL & DFSL Manual Gate Valves



The DFL and DFSL gate valves provide proven features and low maintenance design for drilling and production applications. These valves feature a simple and reliable gate-and-seat assembly which minimizes inventory requirements, simplifies maintenance and provides true metal-to-metal sealing.

DFL and DFSL gate valves are available in all popular bore sizes. Pressure ratings for the DFL are 3,000 and 5,000 psi.

The DFSL gate valve is available with a 10,000 psi pressure rating.



Specifications

3,000 PSI

DESCRIPTION	MINIMUM BORE					
	2 1/16"	2 9/16"	3 1/8"	4 1/16"	6 1/8"	
END TO END, THREADED	10 5/8" (10.625")	12 3/8" (12.375")	13 5/8" (13.625")	—————	—————	
END TO END, FLANGED	14 5/8" (14.625")	16 5/8" (16.625")	17 1/8" (17.125")	20 1/8" (20.125")	24 1/8" (24.125")	
EXTREME WIDTH OF BODY	6 3/4" (6.750")	7 5/8" (7.625")	7 1/2" (7.500")	10 1/2" (10.500")	12 3/4" (12.750")	
CENTER OF BORE TO TOPOF STEM ADAPTER	13"	33 13/16" (33.8125")	16 13/16" (16.8125")	18 7/16" (18.4375")	22 3/4" (22.750")	
CENTER OF BORE TO BOTTOM OF BODY	5 5/8" (5.625")	6 1/2" (6.500")	7 3/8" (7.375")	9 1/8" (9.125")	12 3/4" (12.750")	
CENTER OF BORE TO TOP OF HANDWHEEL RIM	15 3/8" (15.375")	16 1/8" (16.125")	19 1/16" (19.0625")	20 11/16" (20.6875")	24"	
HANDWHEEL OD	14"	14"	14"	18 1/2"	24"	
NUMBER OF TURNS TO FULLY OPEN OR CLOSE +/- 1/4	12 1/2	15 1/4	18 1/4	23 1/2	33 1/2	
ESTIMATED WEIGHT	FLANGED	180lb	249lb	282lbs	450lbs	910lbs
	THREADED	130lb	185lb	210lbs	—————	—————

5,000 PSI

DESCRIPTION	MINIMUM BORE					
	2 1/16"	2 9/16"	3 1/8"	4 1/16"	6 1/8"	
ENE TO END, THREADED	10 5/8" (10.625")	12 3/8" (12.375")	13 5/8" (13.625")	—————	—————	
END TO END, FLANGED	14 5/8" (14.625")	16 5/8" (16.625")	18 5/8" (18.625")	20 5/8" (20.625")	29"	
EXTREME WIDTH OF BODY	7"	8 3/16" (8.1875")	9 1/4" (9.250")	10 13/16" (10.8125")	14 1/8" (14.125")	
CENTER OF BORE TO TOPOF STEM ADAPTER	15 1/8" (15.125")	15 15/16" (15.9375")	16 13/16" (16.8125")	18 7/16" (18.4375")	22 3/4" (22.750")	
CENTER OF BORE TO BOTTOM OF BODY	5 5/8" (5.625")	6 1/2" (6.500")	7 3/8" (7.375")	9 1/8" (9.125")	12 3/4" (12.750")	
CENTER OF BORE TO TOP OF HANDWHEEL RIM	17 3/8" (17.375")	18 1/8" (18.125")	19 1/16" (19.0625")	20 11/16" (20.6875")	24"	
HANDWHEEL OD	14"	14"	18 1/2"	18 1/2"	24"	
NUMBER OF TURNS TO FULLY OPEN OR CLOSE +/- 1/4	12 1/2	15 1/4	18 1/4	23 1/2	33 1/2	
ESTIMATED WEIGHT	FLANGED	182lb	255lb	360lbs	545lbs	1090lbs
	THREADED	130lb	185lb	210lbs	—————	—————



Specifications

10,000 PSI

DESCRIPTION	MINIMUM BORE					
	1 3/16"	2 1/16"	2 9/16"	3 1/16"	4 1/16"	6 3/8"
END TO END, FLANGED	18 1/4" (18.250")	20 1/2" (20.500")	22 1/4" (22.250")	24 3/8" (24.375")	26 3/8" (26.375")	35"
EXTREME WIDTH OF BODY	9 1/16" (9.0625")	9 3/8" (9.375")	9 13/16" (9.8125")	10 1/4" (10.250")	12 13/16" (12.8125")	17 1/8" (17.125")
CENTER OF BORE TO TOP OF STEM ADAPTER	15 1/8" (15.125")	15 1/8" (15.125")	15 13/16" (15.8125")	16 7/8" (16.875")	19 11/16" (19.6875")	45 1/8" (45.125")
CENTER OF BORE TO BOTTOM OF BODY	5 3/4 " (5.750")	5 7/8" (5.875")	6 13/16" (6.8125")	8 1/16" (8.0625")	10 1/16" (10.0625")	14 3/4" (14.750")
CENTER OF BORE TO TOP OF HANDWHEEL RIM	17 3/8" (17.375")	17 3/8" (17.375")	18 1/8" (18.125")	18 1/16" (18.0625")	20 15/16" (20.9375")	55 5/8" (55.625")
HANDWHEEL OD	14"	18 1/2"	18 1/2"	24"	24"	44"
NUMBER OF TURNS TO FULLY OPEN OR CLOSE +/- 1/4	12 1/2	12 1/2	15 1/4	18 1/4	23 1/2	43 1/8
ESTIMATED WEIGHT	270lb	275lb	485lbs	680lbs	1057lbs	3500lbs

15,000 PSI

DESCRIPTION	MINIMUM BORE				
	1 3/16"	2 1/16"	2 9/16"	3 1/16"	4 1/16"
END TO END, FLANGED	18"	19"	21"	23 9/16" (23.5625")	29"
EXTREME WIDTH OF BODY	9 7/8" (9.875")	9 7/8" (9.875")	11 1/2" (11.500")	13 9/16" (13.5625")	21"
CENTER OF BORE TO TOP OF STEM ADAPTER	15 1/8" (15.125")	15 1/8" (15.125")	17 3/16" (17.1875")	20 15/16" (20.9375")	22 13/16" (22.8125")
CENTER OF BORE TO BOTTOM OF BODY	5 7/8 " (5.875")	6 1/8" (6.125")	7 5/16" (7.3125")	9 1/4" (9.250")	10 3/16" (10.1875")
CENTER OF BORE TO TOP OF HANDWHEEL RIM	17 3/8" (17.375")	17 3/8" (17.375")	19 9/16" (19.5625")	22 3/16" (22.1875")	24 1/16" (24.0625")
HANDWHEEL OD	18 1/2"	18 1/2"	18 1/2"	24"	24"
NUMBER OF TURNS TO FULLY OPEN OR CLOSE +/- 1/4	12 1/2	12 1/2	15 3/4	15 1/4	29 1/4
ESTIMATED WEIGHT	275lb	350lb	800lbs	1065lbs	1300lbs

DFC Hydraulic Gate Valve

- DFC hydraulic gate valves are available with a manual closing and locking screw.
- The adjusting nut in the blind cylinder head absorbs the overload or test pressures applied to the opening side of the valve, preventing the pressure from reaching the stem.
- The cylinder head allows the piston to cover the exhaust port before the end of the stroke. This arrangement provides enough damping to protect the valve from shock loading.
- The overload or test pressures applied to the closing side of the cylinder is absorbed by the piston bottoming out against the packing gland of the stem.
- The tail rod and the operating stem have back-seating shoulders to allow changing the stem packing while the valve is under pressure.
- Cylinder-operated valves have a special body containing a stuffing box through which a tail rod passes from the gate.

The tail rod serves the following purposes:

- Acts as a pressure balance for the stem that connects the gate to the operating piston.
- Compensates for the volume displaced by the operating stem.

