

KFD - Series D Flexgate Manual Knife Gate Valve



- High-quality, full-port valve
- Heavy-duty Stainless Steel gate
- Leak-proof elastomer packing gland
- Pneumatic, electric, hydraulic or manual actuation

Materials of Construction

- **Body:** 3-12" ductile cast iron; 14-30" cast iron; 36-42" fabricated steel
- **Gate:** 316 Stainless Steel, 17-4 pH, Hastelloy C-276
Other materials are available, contact Red Valve.
- **Optional Gate Coating:** Polytetrafluoroethylene (PTFE)
- **Elastomers:** Ethylene Propylene Diene Terpolymer (EPDM), Acrylonitrile-Butadiene (NBR), Chloroprene (CR), Styrene Butadiene (SBR), Fluoro Rubber (FKM)
- **Drilled and tapped flanges:** ASME 150, ASME 300, ASME B16.1 125 cast flanges, AWWA C110 125 flanges, EN1092 PN 10, EN1092 PN 16.
Other drill patterns available upon request.
- **Optional:** Extended stems and torque tubes, floorstands

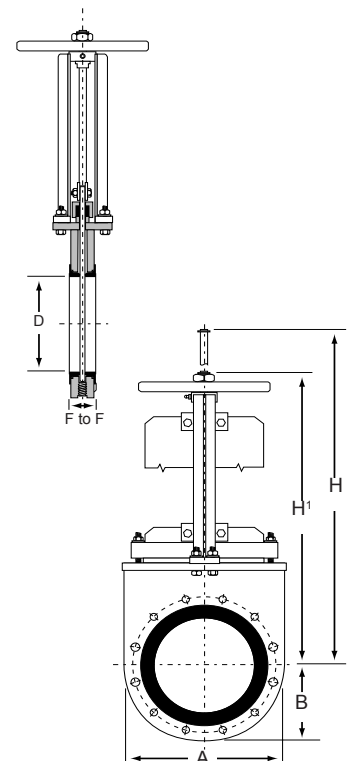
The Series D Flexgate Manual Knife Gate Valve is built with a cast or fabricated body and features a heavy-duty stainless steel gate. Ductile iron cast bodies provide enhanced performance when external and internal factors require a less brittle and malleable material. Removable rubber cartridge seats on either side of the gate provide a bi-directional seal with excellent wear resistance. The seats are metal-reinforced and available in a wide variety of elastomers for abrasion resistance and chemical compatibility. A port at the base of the valve allows for flushing.

Series D Flexgate Knife Gate Valves provide a bi-directional shutoff. A heavy-duty top works is standard and the relatively simple design eliminates expensive overhauls, unscheduled shut downs and costly replacement parts. The only replacement parts are the cartridge seats and packing.

Series D Flexgate Valves size 3-12" are provided with standard handwheel mechanisms featuring cast iron handwheels, machined 303 Stainless Steel stems with yoke sleeves, and thrust washers designed to reduce operating torque. Series D Valves size 14" and larger feature fabricated (tubular) handwheels. It is recommended that manual Series D Valves 12" and larger be specified with a 4:1 bevel gear actuator to reduce rim pull. Pneumatic and electric operators are available.

Series D Flexgate Manual

VALVE SIZE D	DIMENSIONS in/mm							MAX. WORKING PRESSURE psi/kPa		
	LENGTH F to F	WIDTH A	HEIGHT B	HEIGHT CLOSED H ¹	HEIGHT OPEN H	HEIGHT PNEUMATIC ACTUATED	GATE THICKNESS	GATE MATERIAL		
								316	17-4 PH	
3"	2.25	8.00	3.88	17.13	20.38	CONSULT FACTORY	0.25	150	150	
80mm	57	203	99	435	518		6	1030	1030	
4"	2.25	9.25	4.75	18.25	22.63		0.25	150	150	
100mm	57	235	121	464	575		6	1030	1030	
6"	2.38	11.5	5.88	21.06	27.19		0.50	150	150	
150mm	60	292	149	535	691		13	1030	1030	
8"	2.88	14.00	7.00	26.56	34.56		0.50	150	150	
200mm	73	356	178	675	878		13	1030	1030	
10"	3.13	16.75	8.38	32.44	43.63		0.50	150	150	
250mm	80	425	213	824	1108		13	1030	1030	
12"	3.25	20.13	10.06	37.00	50.88		0.50	100	150	
300mm	83	511	256	940	1292		13	690	1030	
14"	3.25	21.50	11.00	43.63	57.63		0.56	100	150	
350mm	83	546	279	1708	1464		14	690	1030	
16"	3.75	24.00	12.50	47.50	63.00		0.68	100	150	
400mm	95	610	218	1207	1600		17	690	1030	
18"	3.75	25.75	13.25	52.63	70.00		0.75	100	150	
450mm	95	654	337	1337	1778		19	690	1030	
20"	4.63	27.50	13.75	57.94	74.13		0.88	100	150	
500mm	118	699	349	1471	1883		22	690	1030	
24"	4.75	32.50	16.00	66.69	86.94	1.00	100	150		
600mm	121	826	406	1694	2208	25	690	1030		
30"	5.00	38.75	19.00	88.63	120.63	1.13	75	125		
750mm	127	984	483	2251	3064	29	520	860		
36"	5.13	46.00	23.00	96.00	134.88	1.25	75	125		
900mm	130	1168	584	2438	3435	32	520	860		
42"	5.13	53.00	26.50	100.00	137.25	1.25	50	75		
1050mm	130	1346	673	2540	3486	32	350	520		



18" and smaller - installed length is .12" less than minimum F to F.
 20" and larger - installed length is .25" less than minimum F to F.
 48" and larger - consult factory.