



3600mm Electrically Operated Knife Gate Valve with Super Duplex SS Blade and Lining. Project: Harbour Area Treatment Scheme, Stone Cutter Island, Hong Kong.

336D (50-600MM)



FOURESS KNIFE GATE VALVES

336L (50-600MM)



THE SHARP SOLUTION TO HEAVY FLUID SHUTOFF PROBLEMS

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Sludges, Slurries, Powders, Problem Fluids challenge today's pulp and paper, chemical, textile and sewage plants. FOURESS meets this challenge, by refining the Knife Gate Valve. A precision-buffed knife plate cuts even the heaviest sludges sharply, without erosion. One-piece trim provides corrosion-resistant, wear-resistant, high-performance shut off over a long service life. Fouress' compact, lightweight Knife Gate valves have been handling the industry's problem fluids dependably for over 30 years.

Perhaps, it's time Fouress handled yours as well.

FOURESS HAS REFINED THE TIME-PROVEN KNIFE GATE DESIGN

1. Non Corrosive Stainless Steel Body

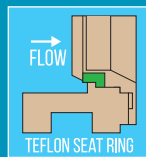
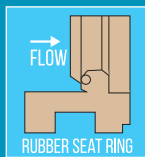
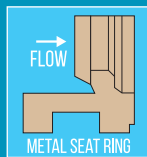
The stainless steel inner body is welded to the cast iron gland. The gland's polyvinyl chloride coating provides maximum resistance to corrosion and wear.

2. Precision-buffed stainless steel knife plate

The stainless steel knife plate is precision-buffed for leaktight shutoff. Its knife like edge cuts off and shuts off even heavy or high-viscosity fluids

3. A choice of three different seat rings.

In addition to the standard stainless steel seat ring, rubber and Teflon seat rings are available as options. Choose the one best suited for your fluid control requirements



4. Plane valve seat to resist build-up

The plane surface of the valve seat has no recesses to harbour heavy fluid deposits that could build up and swamp the valve.

5. Leaktight multilayer gland gasket

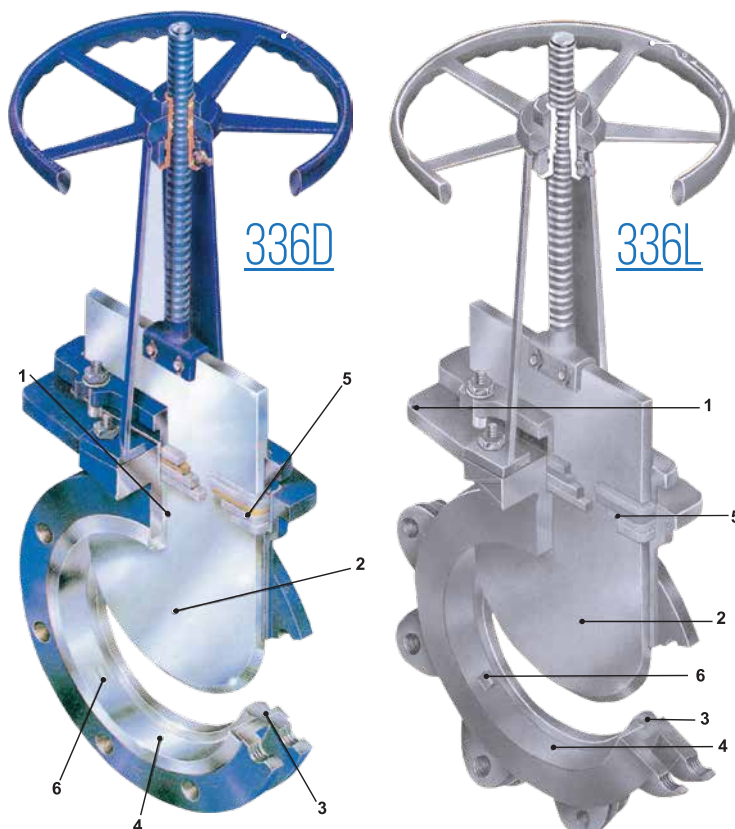
The gland gasket is Teflon impregnated asbestos layered with moulded rubber. This chemical-resistant gasket provides total sealing.

6. Bosses for positive seating

Two bosses are welded to the valve seat. These press the knifeplate snugly against the side of the seat ring for bubble-tight shutoff.

7. Smooth handwheel opening/closing

The double-thread screw on the stem makes opening/closing smooth and speedy



FOURESS KNIFE GATE VALVES

50mm to 600mm
(2" to 24")

Designed as per AWWA
C520/MSS SP-81

Face to Face Dimension
up to 16 Bar as per AWWA
C520/MSS SP-81

Drilling Standard
ANSI B 16.5 (#CL150)
ASME B 16.47 (#CL 150)
BS EN 1092 (PN 2.5/6/10/16)

Max. Operating Pressure
6/10/16 Bar
(Higher Pressure on request)

Max. Operating Temperature
Upto 300°C

Rate of Leak at seat W.T.P 2.8 Bar
Soft Seated 0 cc/min/in
Teflon Seated 4 cc/min/in
Metal Seated 40 cc/min/in



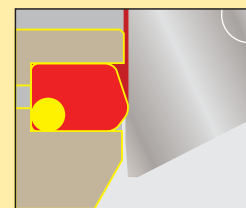
FOURESS KNIFE GATE VALVES (CUSTOM BUILT)

650mm to 900mm (26" to 35")	Designed as per AWWA C520/MSS SP-81
	Face to Face Dimension up to 6 Bar as per AWWA C520/MSS SP-81 10 Bar and above as per Manufacturer Standard
650 - 3600 mm (26" to 144")	Drilling Standard AWWA C-207 CLASS B/D ASME B 16.47 (#CL 150) BS EN 1092 (PN 2.5/6/10/16)
	Max. Operating Pressure Upto 10 Bar (Higher Pressure on request)
	Max. Operating Temperature Upto 300°C
	Rate of Leak at seat W.T.P 2.8 Bar Soft Seated 0 cc/min/in Teflon Seated 4 cc/min/in Metal Seated 40 cc/min/in
	Valve Dimension details provided on request
1000mm to 2400mm (40" to 96")	Designed as per AWWA C520/MSS SP-81
	Face to Face Dimension as per Manufacturer Standard
2500mm to 3600mm (100" to 144")	Designed as per Manufacturer Standard

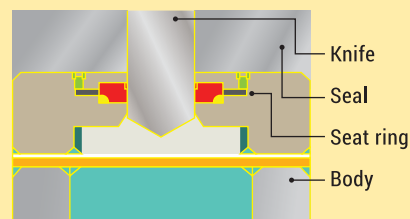
MATERIAL STANDARDS

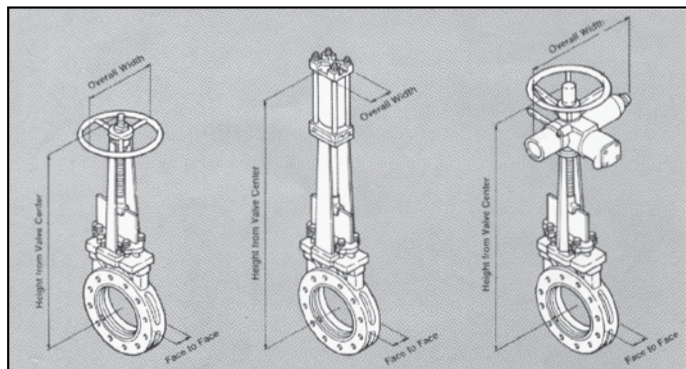
Parameter	Material	Standard
Body	Cast Iron	ASTM A126 CL.A/B, BS 1452 Gr.260, IS 210 Gr.260
	Ductile Iron	ASTM A536 Gr.65-45-12, BS 2789 Gr.500/7, IS 1865 Gr.500/7
	Cast Carbon Steel	ASTM A216 Gr.WCB
	Cast Stainless Steel	ASTM A351 Gr.CF8M / CF8 / CF3M / CF3 Other SS grades on request
	Fabricated Valve using	ASTM A516 Gr.70 ASTM A36 IS 2062 ASTM A240 Gr.304 / 316 / 316L Duplex Stainless Steel - UNS S31803 / S32205 / 32750 Other materials on request
Body Liner (where applicable for V336D design)	Stainless Steel	ASTM A240 TY 304/316/316L Duplex Stainless Steel - UNS S31803 / S32205 / 32750 Other materials on request
Knife Plate	Stainless Steel	ASTM A240 TY 304/316/316L Duplex Stainless Steel - UNS S31803 / S32205 / 32750 Other materials on request
Stem	Stainless Steel	ASTM A479 TY 410 / 304 / 316 / 316L Duplex Stainless Steel - UNS S31803 / S32205 / 32750 Other materials on request
Packing	Graphite / Grafoil / Teflon / Synthetic Fibre Yarn / Carbon Yarn	
Seals	Nitrile Rubber (Temp 80°C) / EPDM (Temp 130°C) / Viton (Temp 180°C) / Teflon (Temp 230°C)	
Operator	Manual / Electrical / Pneumatic and Hydraulic	

UNI-DIRECTIONAL SEALING ARRANGEMENT



BI-DIRECTIONAL SEALING ARRANGEMENT

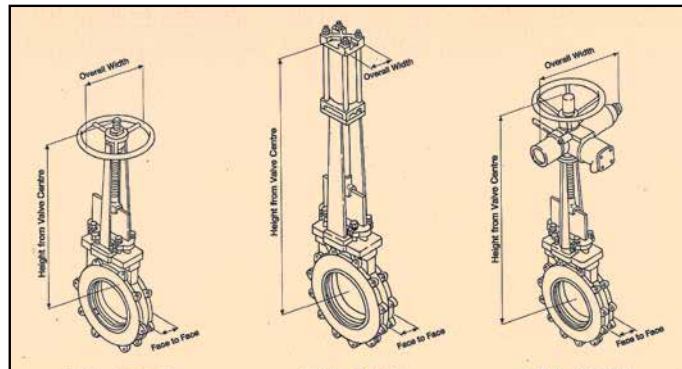




DA - V336D

CA - V336D

MA - V336D



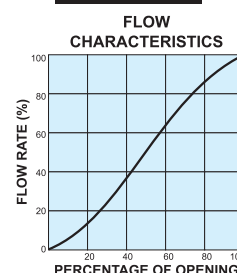
DA - 336L

CA - 336L

MA - 336L

DIMENSIONS

		Height from Valve Center					Overall width					Face to Face	
Working Pressure		0~10 Kgf/cm²	0~5 Kgf/cm²	~10 Kgf/cm²		0~10 Kgf/cm²	0~5 Kgf/cm²	~10 Kgf/cm²		All Models			
Valve Size	in	DA V336D	CA V336D	MA V336D	CA V336D	MA V336D	DA V336D	CA V336D	MA V336D	CA V336D	MA V336D	Metal/ Rubber	Teflon
50	2	295	520	-	540	582	200	80	-	80	80	48	51
65	2.5	322	610	-	610	582	200	100	-	120	120	48	51
80	3	338	630	-	630	582	200	100	-	120	120	51	54
100	4	365	695	620	740	620	200	120	620	150	150	51	54
125	5	440	825	690	820	690	280	150	620	170	170	57	61
150	6	488	900	765	900	765	280	150	620	170	170	57	61
200	8	593	1100	850	1150	850	280	170	620	230	230	70	74
250	10	691	1150	980	1350	1050	355	230	620	280	280	70	74
300	12	810	1500	1140	1520	1315	400	280	620	320	320	76	81
350	14	887	1550	1260	650	1300	400	280	620	320	320	76	81
400	16	996	1700	1410	1760	1410	500	320	675	370	370	89	94
450	18	1096	1900	1560	-	1580	560	320	675	-	-	89	94
500	20	1231	2100	1740	-	1760	630	370	675	-	-	114	120
600	24	1434	2500	2040	-	2100	710	480	675	-	-	114	120



Working Pressure		Height from Valve Center						Overall width						Face to Face	
		0~10 Kgf/cm ²	0~5 Kgf/cm ²	~7.5 Kgf/cm ²		~10 Kgf/cm ²		0~10 Kgf/cm ²	0~5 Kgf/cm ²	~7.5 Kgf/cm ²		~10 Kgf/cm ²		All Models	
		DA336L	CA336L	MA336L	CA336L	MA336L	CA336L	MA336L	DA336L	CA336L	MA336L	CA336L	MA336L	Metal/ Rubber	Teflon
50	2	279	485	582	485	582	485	490	200	98	582	98	582	48	51
65	2.5	309	533	582	533	582	553	529	200	98	582	98	582	48	51
80	3	319	550	582	570	582	570	541	200	98	582	118	582	51	54
100	4	350	623	582	595	582	595	573	200	118	582	140	582	51	54
125	5	437	707	582	379	582	679	637	280	140	582	140	582	57	61
200	8	588	918	895	931	895	931	895	280	177	582	200	582	70	74
250	10	686	1084	993	1117	993	1151	993	355	200	582	220	582	70	74
300	12	803	1247	1136	1281	1136	1281	1196	400	220	582	274	582	76	81
350	14	887	1402	1222	1402	1282	1519	1282	400	274	582	274	664	75	81
400	16	996	1540	1525	1636	1525	1735	1525	500	274	664	370	664	89	94
450	18	1096	1760	1609	1781	1609	1886	1609	560	370	664	404	664	89	94
500	20	1231	1948	1803	2026	1803	2087	1853	630	404	664	468	664	114	120
550	22	1329	2175	2101	2201	1951	2235	1951	630	468	664	522	692	114	120
600	24	1434	2304	2191	2331	2241	2339	2241	710	468	664	522	692	114	120



FOURESS
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