

OKM

336D

KNIFE GATE VALVES



OKUMURA ENGINEERING corp.

OKM 336D Knife Gate Valves: The Sharp Solution to Heavy Fluid Shutoff Problems

Sludges. Slurries. Powders. Problem fluids that challenge today's pulp and paper, chemical, textile, and sewage plants. OKM meets this challenge, by refining the Knife Gate Valve. A precision-buffed knife plate cuts even the heaviest sludges, sharply and without erosion. One-piece trim provides

corrosion-resistant, wear-resistant, high-performance shutoff over a long service life. OKM's compact, lightweight Knife Gate Valves have been handling industry's problem fluids dependably for over 30 years. Perhaps it's time they handled yours....



Okumura Has Refined the Time-Proven Knife Gate Design

1 Tough, non-corrosive trims

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 for your fluid control requirements.



Metal
Seat Ring

Rubber
Seat Ring

Teflon®
Seat Ring

4 Plane valve seat to resist buildup

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



5 Leaktight multilayer gland gasket

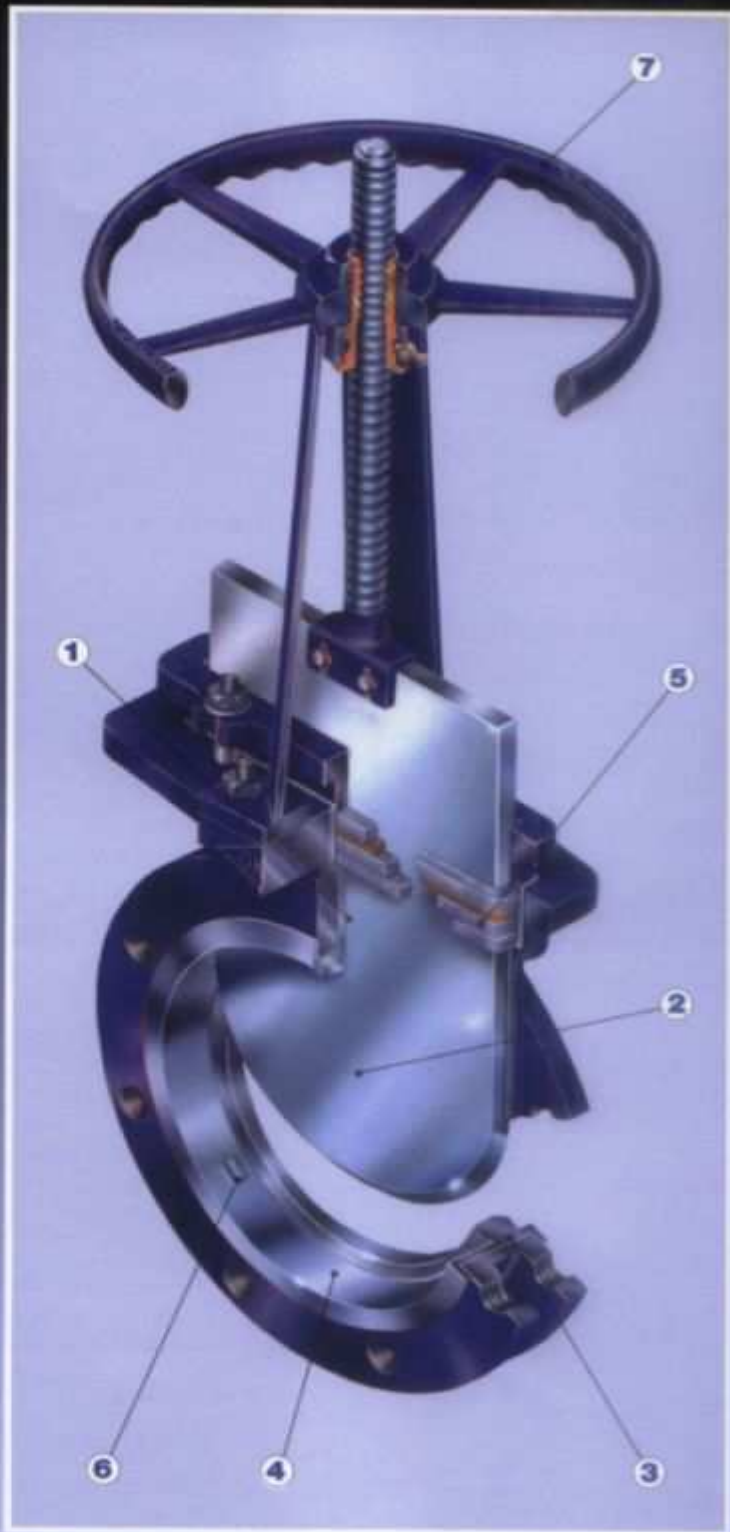
The gland gasket is Teflon®-impregnated asbestos layered with molded silicone rubber. This chemical-resistant gasket provides total sealing.

6 Bosses for positive seating

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

7 Smooth handwheel opening/closing

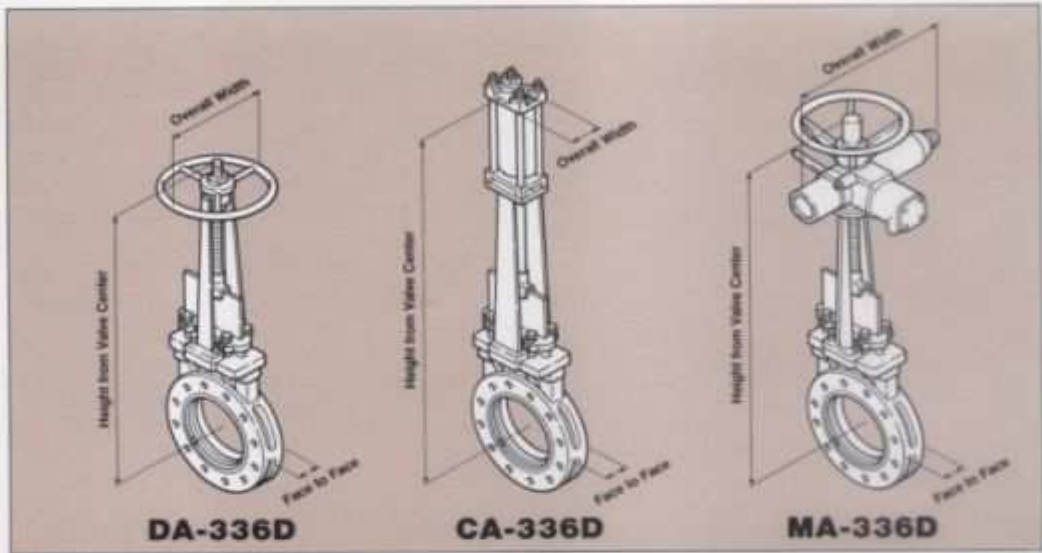
The double-thread screw on the stem makes opening/closing smooth and speedy.



Notes during piping:

1. Do not use excessively long bolts in the holes on the upper part of the valve flange to prevent damage to the stainless steel inner body.
2. When using the 226D with the rubber or Teflon® seat ring, be sure to pinch the seat ring with a counter flange.

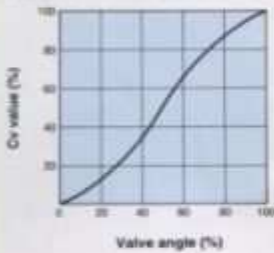
A Variety of Sizes & Materials For Heavy Fluid Applications



Dimensions

Working pressure MPa (kgf/cm ²)	Valve Size	Height from Valve Center						Overall Width				Face to Face					
		Ø to 2.30 Ø to 3	Ø to 2.45 Ø to 3	Ø to 2.74 Ø to 3.5	Ø to 2.98 Ø to 3.8	Ø to 3.30 Ø to 4.2	Ø to 3.45 Ø to 4.5	Ø to 2.74 Ø to 3.5	Ø to 2.98 Ø to 3.8	All Models							
		236D	C-236D	M-236D	C-236D	M-236D	C-236D	M-236D	236D	C-236D	M-236D	C-236D	M-236D	Steel	Teflon® Rubber		
50 mm 2 in.	279	485	499	485	499	485	499	200	98	582	98	582	98	582	48	5.1	
85	2.5	309	333	329	333	329	353	329	200	98	582	98	582	118	582	49	5.1
90	3	319	350	341	370	341	370	341	200	98	582	118	582	118	582	51	5.4
100	4	350	423	373	386	373	396	373	200	118	582	140	582	140	582	51	5.4
125	5	437	507	437	479	437	479	437	280	118	582	140	582	140	582	57	6.1
150	6	483	571	484	524	484	524	484	280	140	582	177	582	177	582	57	6.1
200	8	568	618	568	621	568	621	568	280	177	582	200	582	200	582	70	7.4
250	10	686	764	684	741	684	741	684	350	200	582	220	582	274	582	70	7.4
300	12	803	824	803	828	803	828	803	400	220	582	274	582	274	664	76	8.1
350	14	887	903	887	912	887	912	887	400	274	582	274	664	664	664	76	8.1
400	16	986	1000	986	1011	986	1011	986	500	274	664	370	664	468	664	89	9.4
450	18	1096	1110	1096	1121	1096	1121	1096	500	370	664	404	664	370	664	89	9.4
500	20	1231	1245	1231	1256	1231	1256	1231	600	404	664	468	664	468	664	114	12.0
550	22	1329	1343	1329	1354	1329	1354	1329	630	468	664	522	664	522	664	114	12.0
600	24	1434	1448	1434	1459	1434	1459	1434	710	468	664	522	664	522	664	114	12.0

FLOW CHARACTERISTICS



* Please consult us in the case of 650 mm and above.

Specifications

Model 336D	Flange	Test pressure		Material		Seal ring	Max. operating pressure	Max. operating temp.	Rate of leak at seat* (For Pressure 403 Bar)
		Body	Seat	Body	Inner body				
50 to 600 mm Ø to 24 inch	Standard	JIS 10K			SUS304	SUS304	0.98 MPa (10 kgf/cm ²)	230 C°	40 g/cm ² (1430 g/cm ²)
	Option	JIS 5K ANSI: 125 lb 150 lb Others	WTF 1.08 MPa (11 kgf/cm ²)	WTF 0.27 MPa (2.8 kgf/cm ²)	FC260	SUS316			230 C°
						NR NBR CR EPDM		65 C° 80 C° 90 C° 100 C°	0 g/cm ²
					Others	Teflon®		230 C°	4 g/cm ²

*When fluid reaches from the primary side.

- For more details, contact your OKM sales representative.
- Specifications and designs are subject to change without notice.
- Standard paint: Lacquer Primer Red

Teflon® is a registered trademark of E. I. du Pont de Nemours & Company.



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