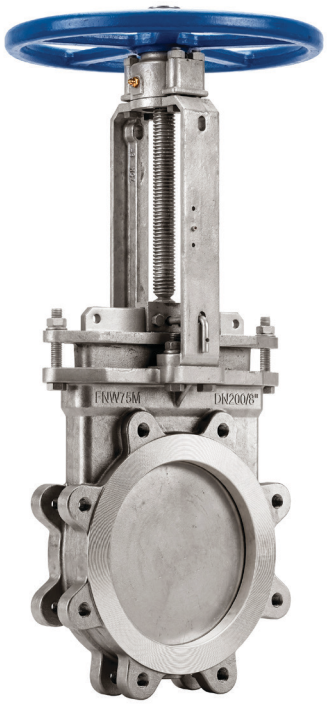
FIGURE 75M
KNIFE GATE VALVES

STAINLESS STEEL UNIDIRECTIONAL METAL SEATED KNIFE GATE VALVE

Figure 75M is an all cast stainless steel body and yoke with investment cast packing follower. It is designed for the pulp and paper, chemical, mining, power, petroleum, and food process industries, as well as municipal water and waste treatment plants. It is ideal for handling dense mixtures of stock and slurries with unidirectional shut-off.



FEATURES

- Unidirectional shutoff
- Maximum pressure: 150 PSI CWP
- Maximum temperature: 370°F
- Cast stainless steel body, yoke, and packing gland
- Stainless steel hardware
- Gate edge radius (improves packing seal)
- EPDM core PTFE seal is standard in packing arrangement
- Machined gland pocket area
- Bonnetless, outside screw & yoke
- Rising stem
- Cast iron handwheel
- Available in sizes 2"–24"
- Standard design accommodates locking device

PRODUCT SPECIFICATIONS

Standards

- Design: MSS SP-81
- Flange Drilling: ANSI B16.5
- Seat/Shell Test: MSS SP-81
- Material: ASME B16.34

FIGURE NUMBER MATRIX

FNW 75M					
BODY	SEAT	GATE	OPERATOR	SIZE (IN.)	
CF8M = S	CF8M = S	316 Stainless Steel = 16	Handwheel = HW	2 = K	12 = 12
				3 = M	14 = 14
				4 = P	16 = 16
				6 = U	18 = 18
				8 = X	20 = 20
				10 = 10	24 = 24

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FIGURE 75M
KNIFE GATE VALVES

STAINLESS STEEL UNIDIRECTIONAL METAL SEATED KNIFE GATE VALVE

CV & WEIGHT

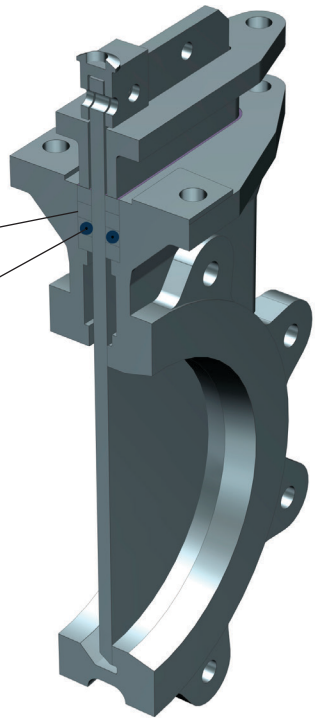
Size (in.)	Cv	Wt (lbs)	Size (in.)	Cv	Wt (lbs)
2	298	23	12	10,057	197
3	506	30	14	13,125	289
4	970	40	16	17,308	381
6	2,330	66	18	22,191	489
8	4,305	93	20	27,634	676
10	6,880	140	24	40,365	937

Weights are for general reference only.

PACKING CONFIGURATION

Figure 75M utilizes two features for an improved packing seal system:

1. PTFE/Fiber Packing
2. EPDM Core Packing



In addition to the curved packing chamber, Figure 75M knife gate valve standard packing configuration includes:

- Multi-layered square braid PTFE impregnated fiber which provides excellent gland sealing at full valve pressure
- A center located EPDM core packing which provides multiple sealing contact points and semi-energized live loading of the packing

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FIGURE 75M
KNIFE GATE VALVES

FNW®

STAINLESS STEEL UNIDIRECTIONAL METAL SEATED KNIFE GATE VALVE

FEATURES

Handwheel is heavy cast iron, with a rounded grip and epoxy-coated handwheel.

Screws prevent threaded-on handwheel from backing off or coming loose.

Ni - resist thrust components for anti-galling operation.

Grease fitting for maintaining smooth drive sleeve operation.

Cast stainless steel yoke arms provide optimum flexural rigidity.

Stainless steel hardware is standard.

Stem-to-gate clevis is deliberately loose to allow play in gate to minimize binding.

Horizontal clevis bolts provide flexibility of the gate during travel.

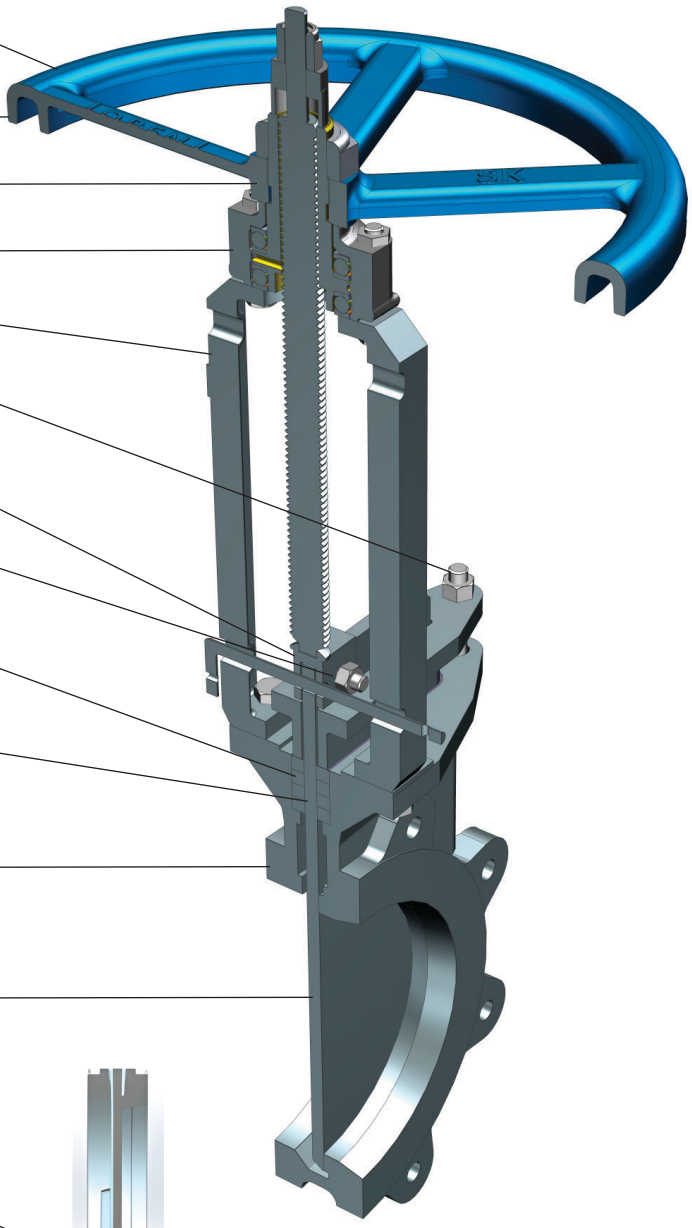
Multiple layers of PTFE impregnated square braid packing provides excellent gland sealing at full valve pressure differential.

EPDM core packing improves packing performance by promoting live loading of the packing.

The single piece cast all-stainless steel body is rugged and compact. It offers better leak tightness than fabricated or two-piece designs.

The gate is high-quality, ground-finished stainless steel. A generous gate thickness, well supported by the packing, resists distortion or deflection and is less likely to bend in severe conditions.

Gate wedges located in the body aid the final gate/seat sealing with a non-sliding motion.

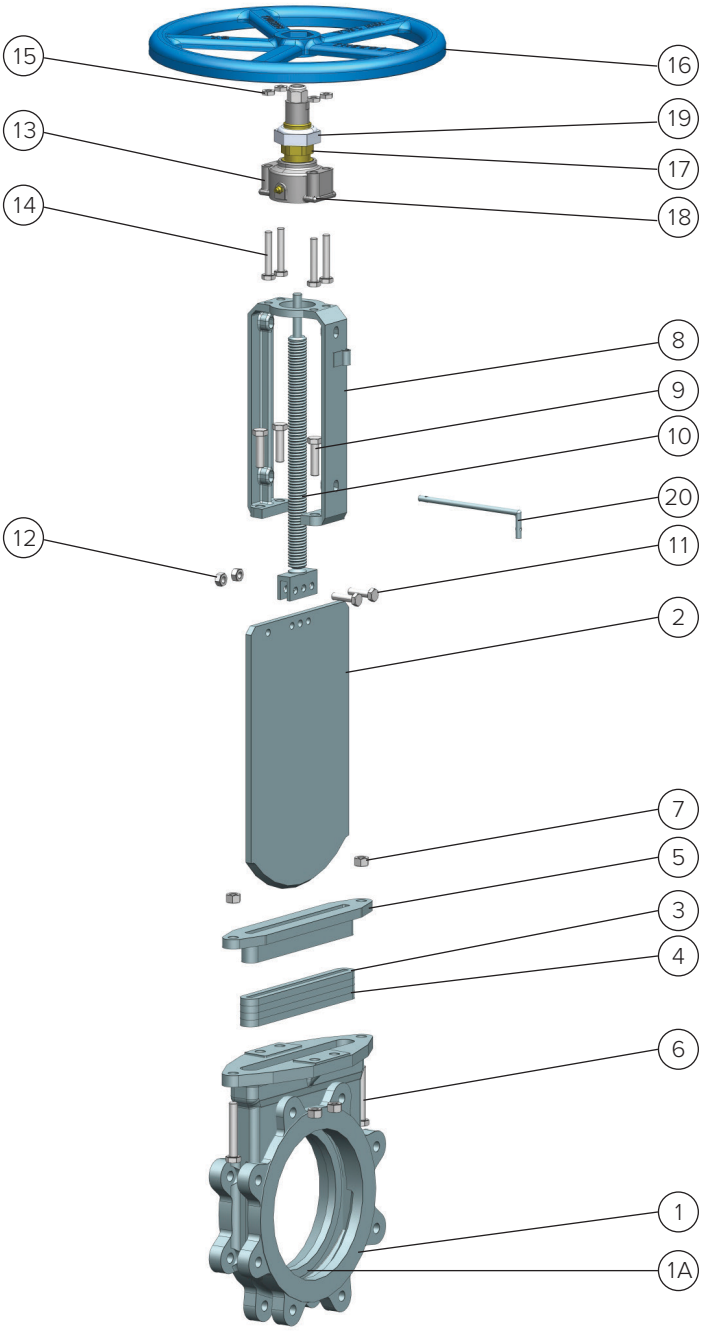


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FIGURE 75M
KNIFE GATE VALVES

STAINLESS STEEL UNIDIRECTIONAL METAL SEATED KNIFE GATE VALVE

STANDARD MATERIALS



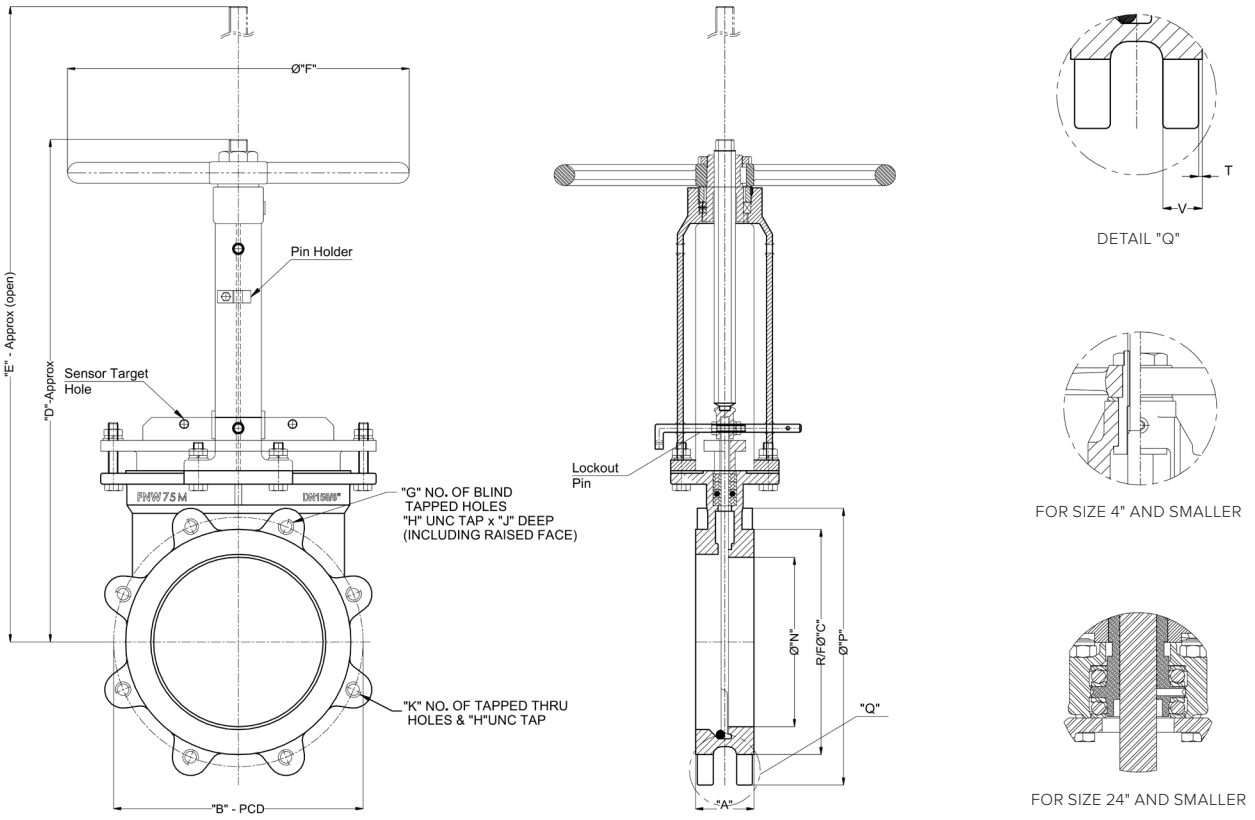
PART MATERIALS & QUANTITY

Ref #	Description	Material	Qty
1	Body	Stainless Steel, ASTM A351 Gr. CF8M	1
1A	Seat (Integral)	Stainless Steel, ASTM A351 Gr. CF8M	1
2	Gate	Stainless Steel, ASTM A240 Type 316	1
3	Packing	PTFE Impregnated Fiber	3
4	EPDM Core	PTFE Impregnated Fiber, EPDM	1
5	Gland	Stainless Steel, ASTM A351 Gr. CF8M	1
6	Gland Bolt	Stainless Steel 304, ASTM A193 Gr. B8	2–10
7	Gland Nut	Stainless Steel 304, ASTM A194 Gr. 8	2–10
8	Yoke Arm	Stainless Steel, ASTM A351 Gr. CF8	1
9	Yoke Bolt	Stainless Steel 304, ASTM A193 Gr. B8	4
10	Stem	Stainless Steel, ASTM A276 Type 304	1
11	Clevis Bolt	Stainless Steel 304, ASTM A193 Gr. B8	2
12	Clevis Nut	Stainless Steel 304, ASTM A194 Gr. 8	2
13	Yoke Retainer	Stainless Steel, ASTM A351 Gr. CF8	1
14	Retainer Bolt	Stainless Steel 304, ASTM A193 Gr. B8	4
15	Retainer Nut	Stainless Steel 304, ASTM A194 Gr. 8	4
16	Handwheel	Cast Iron, ASTM A126 Gr. B	1
17	Stem Nut	Ni-Resist	1
18	Thrust Bearing	ASTM A295 Gr. 52100	2 (6"–24")
19	Handwheel Nut	Zinc-Plated Carbon Steel	1
20	Lock Pin	17-PH	1

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FIGURE 75M
KNIFE GATE VALVES

STAINLESS STEEL UNIDIRECTIONAL METAL SEATED KNIFE GATE VALVE



Size		Dimensions (in.)													
in.	DN	A	B	C	D	E	F	G	H	J	K	N	P	T	V
2	50	1.88	4.75	3.6	13.4	16	9.8	2	5/8–11	0.5	2	2	5.9	0.1	0.6
3	80	2.00	6.00	5	14.9	18.3	9.8	2	5/8–11	0.5	2	3	7.5	0.1	0.6
4	100	2.00	7.50	6.2	16.8	21.1	9.8	2	5/8–11	0.5	6	4	9.1	0.1	0.7
6	150	2.25	9.50	8.5	21.2	27.6	11.8	2	3/4–10	0.6	6	6	11	0.1	0.8
8	200	2.75	11.75	10.6	24.3	32.7	11.8	2	3/4–10	0.6	6	8	13.6	0.1	0.8
10	250	2.75	14.25	12.8	28.9	39.3	13.8	4	7/8–9	0.6	8	10	15.9	0.1	0.9
12	300	3.00	17.00	15	32.6	45.2	13.8	4	7/8-9	0.7	8	12	19.1	0.1	0.9
14	350	3.00	18.75	16.3	37.8	52	17.7	4	1–8	0.7	8	13.3	21.1	0.1	1.0
16	400	3.50	21.25	18.5	41.6	57.9	17.7	6	1–8	0.9	10	15.2	23.6	0.1	1.0
18	450	3.50	22.75	21	48.5	66.8	23.6	6	1-1/8–7	1	10	17.2	25	0.1	1.1
20	500	4.50	25.00	23	54.5	74.8	23.6	8	1-1/8–7	1	12	19.3	27.6	0.1	1.2
24	600	4.50	29.50	27.3	62.6	87.2	23.6	8	1-1/4–7	1	12	23.3	32.1	0.1	1.2

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