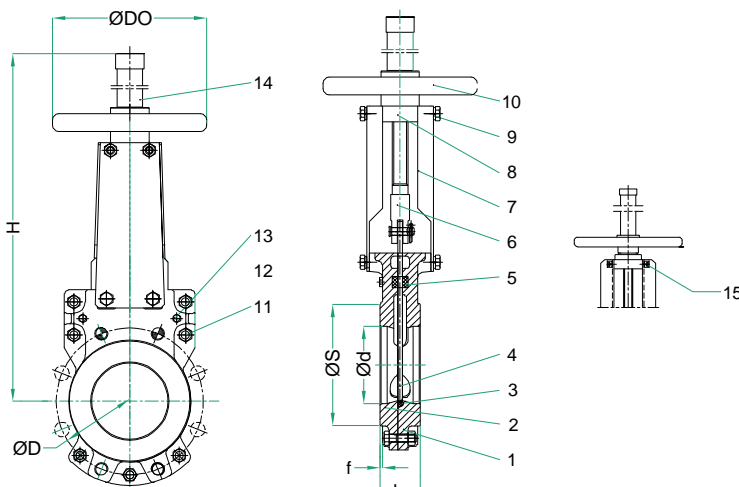




Features / Design

- 1.- KRS⁽¹⁾ is a **resilient seated bi-directional valve** designed for general industrial service applications.
- 2.- **Bidirectional Knife Gate Valve – Split Body.** The design of the body and seat assures non-clogging shutoff on suspended solids in industries.
- 3.- **Main Applications:** Mainly used in waste water treatment but also in biogas, cement industry, chemical industry, coal fired power station, food & beverage, mining industry, petrochemical Industry, potable water, power, pulp & paper, sand & gravel, slurry, steel, waste handling, waste utility. etc. Please contact us for an specific application.
- 4.- Sizes: 2" - 24".
- 5.- Body materials: Ductile iron, stainless steel.
- 6.- Seat materials: EPDM, NBR.
- 7.- **Maximum Working Differential Pressures:**
 Sizes 2" to 8" : 10 bar (~ 145 psi).
 Sizes 10" to 12" : 6 bar (~ 87 psi).
 Sizes 14" to 24" : 4 bar (~ 58 psi).
- 8.- **Maximum Temperatures:**
 EPDM : 110°C.
 NBR : 80°C.
- 9.- Ends: ASME B16.5; face to face: EN 558.
- 10.- Test and inspection acc. to MSS SP-81.

Design for 2" to 16"

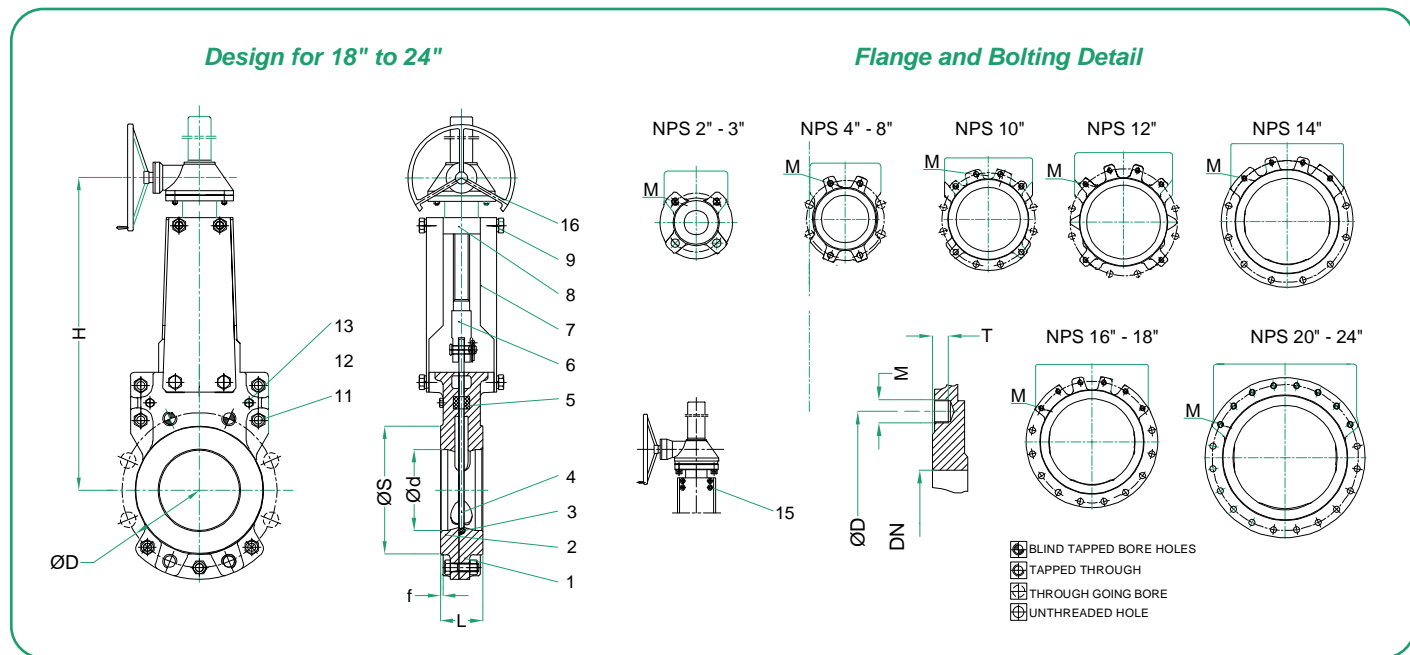


NOTE: (1) KRS - Knife Resilient Seated; design and manufacture acc.to MFS.

Material List

NO.	DESCRIPTION	MATERIAL
1	BODY	ASTM A351 CF8M
2	BONNET	ASTM A351 CF8M
3	SEAT	EPDM
4	GATE	SS316
5	PACKING	EPDM
6	STEM	ASTM A182F316
7	SUPPORT YOKE	ASTM A36
8	YOKE	ASTM A216WCB
9	BOLT	ASTM A193B8
10	HANDWHEEL	CARBON STEEL
11	BOLT	ASTM A193B8
12	NUT	ASTM A1948
13	BOLT	ASTM A193B8
14	STEM PROTECTOR	ASTM A36
15	BOLT	AISI 1035
16	BEVEL GEAR	COMBINATION

NOTE: Material list instance for CF8M body, other available. Please consult with us.



Dimensions (inches)

SIZE	d (in)	L (in)	D (in)	S (in)	f (in)	DO (in)	H (in)	H2 (in)	M (in)	T (in)					WEIGHT (lb)	TORQUE (lb*in)
2"	1.969	1.693	4.752	3.626	0.079	7.874	16.260	*	2-5/8"-11	0.354	2	0	0	2	*	*
2 1/2"	2.480	1.811	5.709	4.134	0.079	7.874	17.126	*	2-5/8"-11	0.354	2	0	0	2	*	*
3"	2.992	1.811	6.004	5.000	0.079	7.874	18.307	*	2-5/8"-11	0.472	2	0	0	2	20.94	*
4"	3.937	2.047	7.500	6.181	0.079	7.874	19.843	*	4-5/8"-11	0.472	2	2	4	0	31.31	88.5
6"	5.906	2.244	9.500	7.559	0.079	11.811	28.150	*	4-3/4"-10	0.512	2	2	4	0	*	176.99
8"	7.874	2.362	11.752	10.157	0.079	11.811	31.850	*	4-3/4"-10	0.669	2	2	4	0	66.14	265.49
10"	9.843	2.756	14.252	12.283	0.079	13.780	39.252	*	6-7/8"-9	0.748	4	2	4	2	*	637.17
12"	11.811	3.071	17.000	14.016	0.079	13.780	42.717	*	6-7/8"-9	0.748	4	2	6	0	136.69	*
14"	13.228	3.071	18.752	16.181	0.079	19.685	50.276	*	4-1"-8	0.787	4	0	0	8	220.46	*
16"	15.236	4.016	21.252	18.110	0.079	19.685	53.150	*	6-1"-8	1.260	6	0	0	10	*	*
18"	17.244	4.488	22.756	21.000	0.079	19.685	*	*	6-1 1/8"-7	1.378	6	0	0	10	*	*
20"	19.252	5.000	25.000	22.992	0.079	19.685	*	*	8-1 1/8"-7	1.378	8	0	0	12	*	*
24"	22.441	6.063	29.500	27.244	0.079	19.685	*	*	8-1 1/4"-7	1.575	8	0	0	12	*	*

NOTE: *Please consult with manufacturer.

- Blind tapped bore holes.
- Tapped through.
- Through going bore.
- Unthreaded hole.



How to Order

VALVE BODY DESIGN (SERIES)	SPECIAL FEATURES	MATERIAL			ENDS	CLASS	SIZE		OPERATION		
		BODY	TRIM	SEAT							
KRS Knife Gate Resilient Seated	NONE NONE	6	DI	3 316 SS	E EPDM	W WAFER	0 Class 150# ⁽²⁾ (- MWP) ⁽³⁾	02	2"	H Handwheel	
			3 CF8M					B NBR	L LUG	02.5	2 1/2"
									03	3"	E Electric Actuator
									04	4"	
									06	6"	
									08	8"	P Pneumatic Actuator
									10	10"	
									12	12"	B Bare Shaft
									14	14"	
									16	16"	
									18	18"	
									20	20"	
									24	24"	

Example:

Resilient Seated Knife Gate Valve, Body & Trim 316SS, Seat EPDM, Lug 150# (10 bar MWP), Size 6" with Handwheel.

KRS33EL006H

NOTES:

(2) Flange and bolting acc. to ASME B16.5 (Class 150).

(3) Please check the Maximum Working Differential Pressures acc. to the valve size:

Sizes 2" to 8" : 10 bar (~ 145 psi).

Sizes 10" to 12" : 6 bar (~ 87 psi).

Sizes 14" to 24" : 4 bar (~ 58 psi).