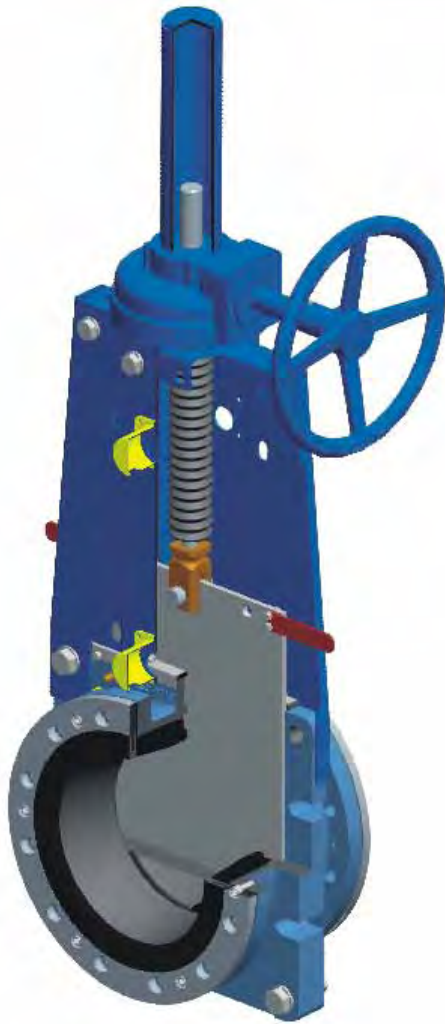


# RF-SKG

“SKG” F SLURRY KNIFE  
GATE VALVE





## Specifications

### Size Range

3" – 24" (DN80 – DN600)

### Pressure rating

150 psi CWP (10 bar)

### Body & Yoke

Ductile iron body and mild steel yoke plates

### Sleeves

Natural rubber standard

### Gate

316L stainless steel

### Retainer/Counter flanges

Natural rubber encapsulated mild steel on 10" (200mm) and larger

### Flange Drilling

Drilled and tapped to suit ASME/ANSI, AS, BS & DIN

## Optional

### Sleeves

EPDM, Viton or Butyl sleeve elastomers

### Gate

Different gate materials

### Actuators

Manual, manual bevel gear, pneumatic, electro-mechanical and hydraulic

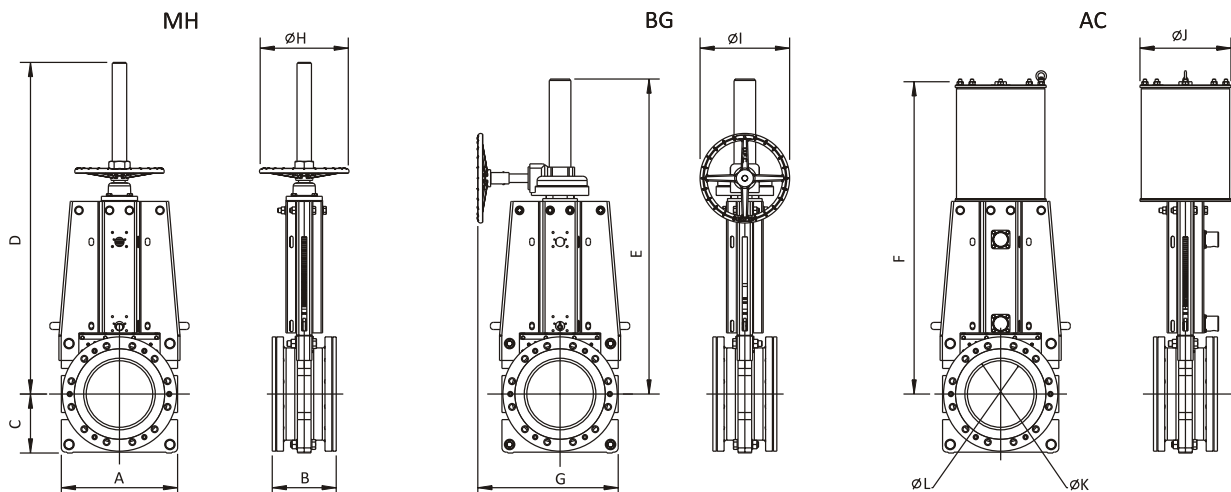
## Design

- 150 psi CWP (10 bar) pressure rating for all sizes.
- Bi-directional flow and shut-off with zero downstream leakage.
- No metal parts in contact with the flowing media when the valve is in the fully open position.
- No seat cavity for solids to build-up and prevent full gate closure.
- Field replaceable heavy duty elastomer sleeves.
- Suitable for wet or dry service.
- The yoke design consists of two yoke plates that fully enclose the gate, spindle, clevis and thrust bearing. The yoke protects these components from slurry splatter that can harden and affect the operation of the valve.
- Bellows (standard) provide additional protection for the spindle against scoring from abrasive particles.
- Open and closed indicators (standard).
- Provision for lockouts in the open and closed position (standard).
- The yoke design allows for easy mounting of proximity or limit switches and accommodates all proximity switch sizes. Proximity switches are protected by proximity switch covers to prevent damage during transport and operation.
- The top bracket is designed to accept manual, pneumatic or electric actuation for easy conversion in the field.

## How to specify DFC's SKG F

Heavy duty slurry knife gate valve shall be a flanged, bi-directional valve with a packingless design. The bore shall be formed by two heavy duty elastomer sleeves, one on either side of the gate integrally molded with a stiffener ring. This stiffener ring shall not only maintain the shape of the sleeve, but shall act as scraper while the gate is being opened. These sleeves shall be compressed between the pipe flanges once installed. The valve shall be of full port design. When in the open position the stainless steel gate shall be completely withdrawn from the flow. When the gate is withdrawn the sleeves shall compress against each other to form a continuous uninterrupted flow path. Upon closing, the gate will progressively separate the sleeves and once fully closed, will form a bubble tight seal with the up-stream sleeve. The yoke shall consist of two yoke plates that fully enclose the gate, spindle, clevis and thrust bearing to protect these components from slurry splatter. The yoke design will allow for easy mounting of proximity or limit switches. Proximity switch covers must be provided to prevent damage during transport and operation. Provision must be made for lockouts in the open and closed position. The top bracket must accept manual, pneumatic or electric actuation for easy conversion in the field.

# SKG F FLANGED SLURRY KNIFE GATE



K= Entry Diameter  
L= Bore Diameter

## Dimensions (mm) and Weights (kg)

Valve Size	A	B	C	D	E	F	G	H	I	J	K	L	Weight MH	Weight BG	Weight AC
80	219	175	100	643	-	551	-	200	-	160	71	65	25	-	40
100	256	175	116	711	-	645	-	200	-	225	98	90	30	-	45
150	307	177	140	885	416	796	415	250	250	225	149	138	53	72	60
200	359	183	176	957	468	902	441	250	250	283	200	182	90	106	97
250	409	225	208	1167	1108	1087	466	315	315	320	252	234	95	108	148
300	481	257	244	1352	1251	1277	530	400	315	400	292	272	127	150	210
350	534	257	267	1496	1425	1372	610	400	315	400	328	305	182	205	236
400	595	280	280	-	1619	1530	690	630	400	485	378	352	-	295	328
450	639	316	320	-	1744	1695	712	-	400	485	430	392	-	400	430
500	695	364	348	-	2240	1840	801	-	500	485	473	438	-	480	565
600	815	378	408	-	-	2180	-	-	-	485	590	540	-	-	652

## Dimensions (inches) and Weights (lbs)

Valve Size	A	B	C	D	E	F	G	H	I	J	K	L	Weight MH	Weight BG	Weight AC
3	8.62	6.89	3.94	25.31	-	21.69	-	7.87	-	6.30	2.80	2.56	55	-	88
4	10.08	6.89	4.57	27.99	-	25.39	-	7.87	-	8.86	3.86	3.54	66	-	99
6	12.09	6.97	5.51	34.84	16.38	31.34	16.34	9.84	9.84	8.86	5.87	5.43	117	159	132
8	14.13	7.20	6.93	37.68	18.43	35.51	17.36	9.84	9.84	11.14	7.87	7.17	198	234	214
10	16.10	8.86	8.19	45.94	43.62	42.80	18.35	12.40	12.40	12.60	9.92	9.21	209	238	326
12	18.94	10.12	9.61	53.23	49.25	50.28	20.87	15.75	12.40	15.75	11.50	10.71	280	331	463
14	21.02	10.12	10.51	58.90	56.10	54.02	24.02	15.75	12.40	15.75	12.91	12.01	401	452	520
16	23.43	11.02	11.02	-	63.74	60.24	27.17	24.80	15.75	19.09	14.88	13.86	-	650	723
18	25.16	12.44	12.60	-	68.66	66.73	28.03	-	15.75	19.09	16.93	15.43	-	882	948
20	27.36	14.33	13.70	-	88.19	72.44	31.54	-	19.69	19.09	18.62	17.24	-	1058	1246
24	32.09	14.88	16.06	-	-	85.83	-	-	-	19.09	23.23	21.26	-	-	1438

Face to face dimensions (B) includes the counter / retainer flanges. Counter / retainer flanges are optional on sizes 8" (200mm) and smaller

# RF SKG FLANGED

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