# **SERIES 767**

# BRAY SLURRYSHIELD® BIDIRECTIONAL HIGH PRESSURE KNIFE GATE VALVES

3" to 24"





#### **DESIGN FEATURES**

Series 767 is a bidirectional high pressure slurry valve, designed for demanding high pressure slurry applications. Twin elastomer seats and push-through gate design facilitate self-cleaning and prevent media build up.

The cast WCB body is offered in a two-piece bolted wafer style. When fully open, the valve bore, offers no resistance to line media.

- Protective stem cover is standard increasing cycle life in hazardous environments.
- 2 J-ring steel-reinforced, elastomer seats provide energized, zero leakage shutoff in both directions. Retaining rings included as standard throughout the entire size range.
- 3 In the open position, the energized seats shield all metal components from direct contact with the flowing process media.
- 4 Robust gate available in a wide range of corrosion resistant alloys to suit the application.
- 5 The design provides unobstructed flow path, extending seat life and minimizing pressure drop across valve.
- 6 Ample clearance for push-through allows complete gate closure.
- 7 Two-piece bolted wafer body allows for easy maintenance and is drilled and tapped to ASME B16.5 CL300 flange patterns as standard. Other drilling options available upon request.
- 8 Bottom flush plate with tapped ports or drain bucket are available allowing for safe discharge of media and easy flush water connection.



Series 767 Bidirectional High Pressure Slurry Valve



# **INDUSTRY APPLICATIONS**

Mining

Pulp & Paper

**General Industry** 

Power

Chemical

Cement

# STANDARD CONSTRUCTION

Body	WCB		
Gate	316   2205   17-4 PH		
Seat Natural Rubber			
Stem	304		
Gland Plate	Carbon Steel		
Secondary Seal	EPDM		
Topworks	Steel		

### **TECHNICAL SPECIFICATIONS**

Size Range	NPS 3 to 24									
	DN 80 to 600									
Body Style	Two-Piece Bolted	Wafer								
Pressure Rating	SS 316 Gate	Duplex 2205 Gate	Duplex 2205 Gate	17-4PH Gate						
	3-10 300psi	12-24 300psi	3-8 740 psi	10-24 740psi						
	80-250mm 20 bar	300-600mm 20 bar	80-200mm 51bar	250-600mm 51 bar						
Drilling	ASME B16.5 CL300									
Face to Face	Per Industry Standard									
Certification	Canadian CRN   PED Category   Module A (Group 2 Liquids)									
Design Standard	Manufacturer Standard									
Testing Standard	dard Manufacturer Standard									

NOTE 1 F767 valves are elastomer seated slurry valves and MSS SP-81 and MSS SP-151 does not apply. The valves are tested for bi-directional, zero leakage across the seats.

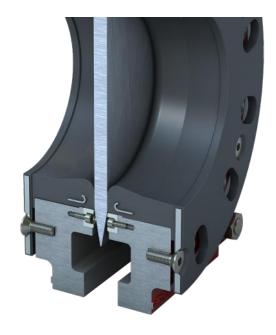
#### **GATE OPTIONS**

304, 317 Stainless Steel
SAF 2507 Duplex
SAF 2205 Duplex
17-4PH Stainless Steel
Hastelloy <sup>*</sup> C
Monel*

# **BODY OPTIONS**

CF8M Stainless Steel
CF3M Stainless Steel
SAF 2205 Duplex
SAF 2507 Duplex

# **SEAT OPTIONS**



Natural Rubber	-60 to 165°F
Rubber	-51 to 74°C
EPDM*	-65 to 248°F
	-54 to 120°C

Exposure to continuous elevated temperatures
will result in premature
aging of the elastomer.

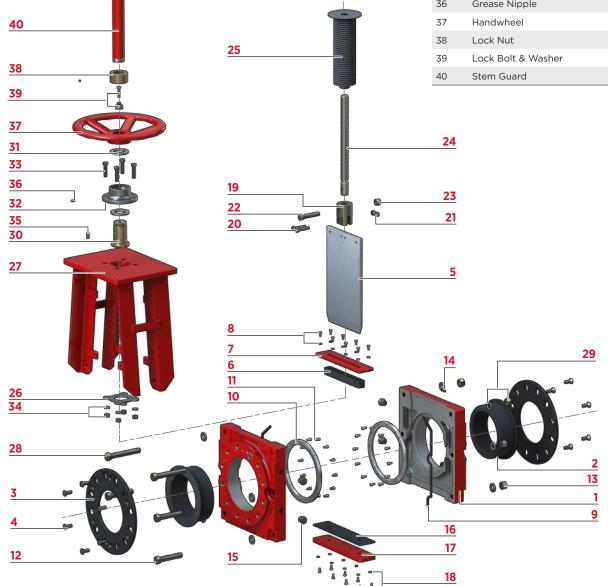
1 Do not operate the valve if the
media in the line is frozen.

# **BILL OF MATERIALS & PARTS CALL OUT**

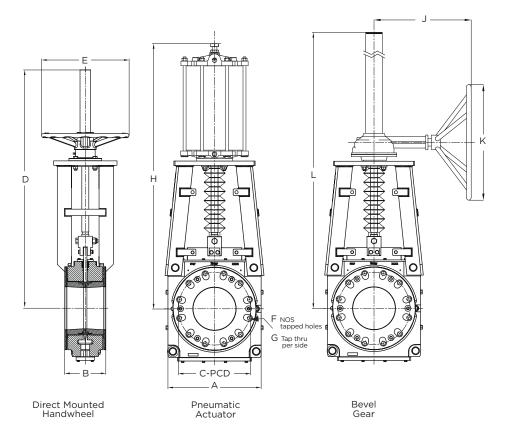
Item	Description
1	Body
2	Seat
3	Seat Retainer
4	Seat Retainer Screws
5	Gate
6	Secondary Seal
7	Gland Plate
8	Gland Plate Fastners & Washers
9	Body O-Ring
10	Gate Support
11	Gate Support Mounting Screws

Item	Description
12	Body Mounting Bolt & Washer
13	Body Mounting Nut & Washer
14	Plug - Grease Injection Port
15	Plug- Flushing Port
16	Drain Plate Gasket (optional)
17	Drain Plate (optional)
18	Drain Plate Fastners & Washers (opt.)
19	Clevis
20	Gate - Clevis Bolt
21	Gate - Clevis Lock Nut
22	Stem - Clevis Bolt
23	Stem - Clevis Lock Nut









#### NOTE

- Consult factory for hydraulic and electric actuator dimensions.
- 2 Dimensions are approximate and subject to change. Consult factory for certified drawings.
- \* In conformance with ASME B16.5, Class 300 for sizes NPS 3 (DN80) through NPS 24 (DN600)

DIMENSIONS (Inches)											
NPS	Α	В	CPCD	D	ØE	F	G	Н	J	K	L
3	10.23	6.88	6.62	27.36	11.81	8	3/4"-10	32.43	8.86	11.81	28.34
4	11.81	6.88	7.87	31.10	11.81	8	3/4"-10	36.64	8.86	11.81	31.88
6	14.17	7.28	10.62	38.58	15.75	12	3/4"-10	45.27	9.45	11.81	36.61
8	16.73	7.28	13.00	42.91	15.75	12	7/8"-9	54.65	9.45	19.69	43.30
10	19.68	8.89	15.25			16	1"-8	61.62	10.24	19.69	49.21
12	22.24	10.15	17.75			16	1-1/8"-7	72.76	15.55	19.69	57.08
14	26.10	10.15	20.25			20	1-1/8"-7	82.22	15.55	23.62	65.35
16	28.74	11.26	22.50			20	1-1/4"-7	88.22	16.93	29.53	73.62
18	29.33	12.63	24.75			24	1-1/4"-7	97.35	18.11	29.53	78.74
20	33.66	14.44	27.00			24	1-1/4"-7	107.31	19.30	23.62	85.82
24	38.77	14.64	32.00			24	1-1/2"-6	116	21.26	23.62	103.34

DIMENSIONS (Millimeters)											
DN	Α	В	CPCD	D	ØE	F	G	н	J	K	L
80	260	175	168.3	695	300	8	3/4"-10	823.7	225	300	720
100	300	175	200	790	300	8	3/4"-10	930.6	225	300	810
150	360	185	269.9	980	400	12	3/4"-10	1149.8	240	300	930
200	425	185	330.2	1090	400	12	7/8"-9	1388.1	240	500	1100
250	500	226	387.4			16	1"-8	1565	260	500	1250
300	565	258	450.8			16	1-1/8"-7	1848	395	500	1450
350	663	258	514.4			20	1-1/8"-7	2088.5	395	600	1660
400	730	286	571.5			20	1-1/4"-7	2240.7	430	750	1870
450	745	321	628.6			24	1-1/4"-7	2472.8	460	750	2000
500	855	367	685.8			24	1-1/4"-7	2725.8	490	600	2180
600	965	372	812.8			24	1-1/2"-6	2946.3	540	600	2625

WEIGHT (	lbs)	
HAND WHEEL		GEAR OPERATOR
187.4	176.4	176.3
242.5	244.8	231
319.6	366.9	306
451.9	553.6	433
	773.3	612
	1158.5	946
	1652	1218
	2106.2	1672
	2893.6	1958
	3178.1	2292
	5620.5	3637

WEIGHT (kg)							
85	80	80					
110	111	105					
145	166	139					
205	252	197					
	351	278					
	525	430					
	749	554					
	955	760					
	1312	890					
	1441	1040					
	2549	1650					

# **ACTUATOR OPTIONS | SHOWN IN RED**



**Direct Mounted Handwheel** 



**Bevel Gear Operator** 



**Double Acting Pneumatic Actuator** 



**Hydraulic Actuator** 



**Electric Actuator** 



# **ADDITIONAL ACCESSORIES | SHOWN IN RED**



Handwheel Lock Out



Pneumatic Failsafe



Non-Rising Stem



**Gate Guard** 



**Manual Override** 



Chain Wheel



Mechanical Limit Switch



**Proximity Sensor** 



Solenoid



**Drain Plate** 





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