SERIES 768 BRAY SLURRYSHIELD® BIDIRECTIONAL KNIFE GATE VALVES

Bray

2 to 24 150psi (10bar)



THE HIGH PERFORMANCE COMPANY

DESIGN FEATURES

Series 768 is a bidirectional 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 durable ductile iron body is offered in a two-piece bolted wafer style. When fully open, the valve is full bore, offering no resistance to line media.

- 1 Upper and lower protective stem cover is standard in all models, increasing cycle life in hazardous environments.
- 2 Fully encapsulated J-ring providing sleeve reinforcement and memory assist, guaranteeing bidirectional zero leakage performance.
- 3 In the open position, the energized sleeves shield all metal components from direct contact with the flowing process media.
- 4 Gate available in a wide range of corrosion resistant alloys to suit the pressure rating and application.
- 5 Full port design provides unobstructed flow path, extending sleeve life and minimizing pressure drop across valve.
- 6 Two-piece bolted wafer body allows for easy maintenance and is drilled and tapped to country standards.
- 7 Optional bottom flush plate with tapped ports, allows for safe discharge of media and easy flush water connection.



Series 768 Bidirectional Heavy Duty Slurry Valve

INDUSTRY APPLICATIONS

Mining

- > Primary Milling
- > Secondary Milling
- > Primary Cyclone
- > Secondary Cyclone
- > Thickener
- > Filter Pump/Press
- > Process Water
- > Tailings
- HPAL/POX
- > Autoclave Application Process Pumps
- Pulp & Paper

Power Chemical

General Industry

TECHNICAL SPECIFICATIONS

Size Range	NPS 2 to 24							
	DN 50 to 600							
Body Style	Two-Piece Bolted	Wafer						
Pressure Rating	SS 316 Gate	SS 316 Gate	Duplex 2205 Gate	17-4 PH Gate				
	2-16 150psi	18-24 90psi	18-24 150psi	up to 232ps i				
	50-400mm 10 bar	450-600mm 6.2 bar	450-600mm 10bar	up to 16bar				
Drilling	ASME B16.5 CL150							
	ASME B16.47 CL150							
Face to Face	MSS SP-81							
Certification	Canadian CRN							
Design Standard	Manufacturer Standard							
Testing Standard	Manufacturer Standa	rd						
	NOTE 1 F768 \	valves are elastomer sle	eeved slurry valves an	d MSS SP-81				

STANDARD CONSTRUCTION

Body	DI
Gate	316
Seat	Natural Rubber
Stem	304
Gland Plate	Carbon Steel
Secondary Seal	EPDM
Topworks	Steel

does not apply. The valves are tested for bi-directional, zero leakage across the seats.

GATE OPTIONS

304, 316, 317 Stainless Steel				
SAF 2507 Duplex				
17-4PH Stainless Steel				
Hastelloy [®] C				
Monel®				
Titanium				

BODY OPTIONS

Carbon Steel (WCB)
CF8 Stainless Steel
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
Buna-N	-34 to 194°F
	-36 to 90°C
EPDM*	-65 to 248°F
	-54 to 150°C

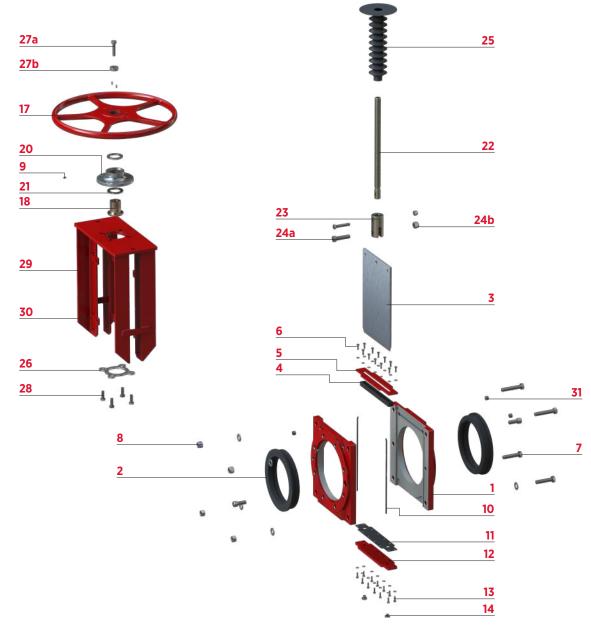
* Exposure to continuous elevated temperatures will result in premature aging of the elastomer. Do not operate the valve if the media in the line is frozen. 1

BILL OF MATERIALS & PARTS CALL OUT

Item	Description
1	Body
2	Seat
3	Gate
4	Secondary Seal
5	Gland Plate
6	Gland Plate Fasteners
7	Body Mounting Bolt & Washer
8	Body Mounting Nut & Washer
9	Grease Nipple
10	Body O-Ring
11	Drain Plate Gasket

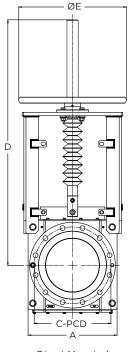
Item	Description
12	Drain Plate
13	Drain Plate Fasteners
14	Drain Plug
15	Stem Guard
16	Lock Nut
17	Handwheel
18	Stem Nut
19	Key
20	Handwheel Assembly Housing
21	Thrust Bearing
22	Stem

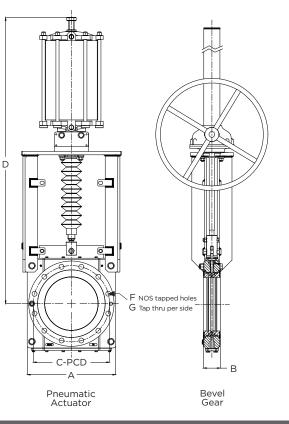
Item	Description
23	Clevis
24a	Clevis Bolt
24b	Clevis Lock Nut
25	Bellows
26	Bellows Flange
27a	Travel Stop
27b	Travel Stop Fasteners
28	Actuator/Superstructure Fasteners
29	Superstructure (Tower Assembly)
30	Lock Out Bracket
31	Locating Bush



DIMENSIONS & WEIGHTS







Direct Mounted Handwheel

DIMENSIONS (Inches)								
NPS	Α	в	CPCD	D	ØE	F	G	н
2	7.09	2.24	4.75	19.00	12	4	5/8"-11	10
3	8.15	2.48	6.00	22.05	12	4	5/8"-11	10
4	9.45	2.48	7.50	24.88	12	8	5/8″-11	10
6	11.81	2.72	9.50	32.68	16	8	3/4"-10	12
8	14.17	3.19	2.99	38.27	20	8	3/4"-10	16
10	16.54	3.23	14.25	44.69	20	12	7/8″-9	12.5
12	19.29	3.50	17.00	51.79	20	12	7/8″-9	18.70
14	20.98	3.50	18.75	57.09	20	12	1‴-8	18.70
16	23.62	4.02	21.25	62.00	20	16	1″-8	22.83
18	25.51	4.09	22.75	68.98	20	16	1-1/8″-7	22.83
20	27.95	5.16	25.00	75.59	30	20	1-1/8″-7	22.83
24	33.0	5.20	29.50	97.64	39	20	1-1/4″-7	25.20

DIMENSIONS (Millimeters)								
DN	Α	в	CPCD	D	ØE	F	G	н
50	180	57	120.7	480	300	4	5/8-11	10
80	207	63	152.4	560	300	4	5/8"-11	10
100	240	63	190.5	632	300	8	5/8"-11	10
150	300	69	241.3	830	300	8	3/4"-10	12
200	360	81	298.5	972	300	8	3/4"-10	16
250	420	82	362	1135	300	12	7/8″-9	12.5
300	490	89	431.8	1320	500	12	7/8"-9	18.70
350	533	89	476.3	1450	500	12	1″-8	18.70
400	600	102	539.8	1575	500	16	1″-8	22.83
450	648	104	577.9	1752	500	16	1-1/8″-7	22.83
500	710	131	635	1920	750	20	1-1/8″-7	22.83
600	838	132	749.3	2480	1000	20	1-1/4"-7	25.20

NOTE

- 1 Consult factory for hydraulic and electric actuator dimensions.
- 2 Dimensions are approximate and subject to change. Consult factory for certified drawings.
- 3 For ease of replacement and installation, the installed face to face of the F768 is designed to suit an MSS SP-81 face-to-face take-out
- * In conformance with ASME B16.5, Class 150 for sizes NPS 2 (DN50) through NPS 24 (DN600) and per ASME B16.47 Series A for sizes > NPS 24.

WEIGHT (lbs)						
HAND WHEEL	PNEUMATIC ACTUATOR	GEAR OPERATOR				
52.9	57	58				
65	73	70				
79.4	86	84				
130	137	132				
185	209	185				
251	313	247				
	443	328				
	586	419				
	811	608				
	1164	734				
	1145	933				
	2258	1351				

WEIGHT (kg)					
24	26	26			
29.5	33	32			
36	39	38			
59	62	60			
84	95	84			
114	142	112			
	201	149			
	266	190			
	368	276			
	528	333			
	642	423			
	1024	613			

ACTUATOR OPTIONS | SHOWN IN RED



Direct Mounted Handwheel



Bevel Gear Operator

Double Acting Pneumatic Actuator





Hydraulic Actuator

Electric Actuator

ADDITIONAL ACCESSORIES | SHOWN IN RED



Deflection Cone



Non-Rising Stem



Handwheel Lock Out



Gate Guard



Pinned Lockout Open & Closed



Manual Override

5 Bray

Pneumatic Failsafe





Mechanical Limit Switch

Proximity Sensor



Solenoid

Chain Wheel

5 Bray



BRAY FLOW CONTROL SOLUTIONS ARE AVAILABLE FOR A VARIETY OF INDUSTRIES.

ENERGY

Mining Oil & Gas Power / FGD Nuclear Power

INDUSTRIAL

Chemical Pulp & Paper Textile Marine

WATER

Water / Wastewater Ultra Pure Water Desalination Irrigation

INFRASTRUCTURE

Beverage & Food Transportation Heating, Ventilation & Air Conditioning (HVAC)



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