SERIES 762

BRAY SLURRYSHIELD® BIDIRECTIONAL KNIFE GATE VALVES

KNIFE GATE VALVES 3" to 48"

5 Bray

FEATURES & BENEFITS

DESIGN FEATURES

Series 762 is a bidirectional heavy duty 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 flange 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 The design provides unobstructed flow path, extending sleeve life and minimizing pressure drop across valve.
- 6 Flanged two-piece bolted 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.
- 8 Seat retainers are standard on all sizes and are provided to ensure proper and uniform compression is maintained on the seats.





INDUSTRY APPLICATIONS

Mining

- > Primary Milling
- > Secondary Milling
- > Primary Cyclone
- > Secondary Cyclone
- > Flotation Cell
- > Thickener
- > Filter Pump

HPAL/POX

> Autoclave Application **Process Pumps**

Power

Pulp & Paper

Alumina

Chemical

Cement

STANDARD CONSTRUCTION

Body	DI up to 28 / WCB 30-48		
Gate	316		
Seat	Natural Rubber		
Stem	304		
Gland Plate	Carbon Steel		
Secondary Seal	EPDM		
Topworks	Steel		

TECHNICAL SPECIFICATIONS

Size Range	NPS 3 to 48 DN 80 to 1200					
Body Style	Two Piece Bolted Flanged					
Pressure Rating	SS 316 Gate	Duplex 2205 Gate				
	NPS 3-24 100psi DN 80-600 7 bar	NPS 3-18 232psi DN 80-450 16 bar				
	NPS 26-42 75psi DN 650-1050 5 bar	NPS 20-24 150psi DN 500-600 10bar				
	NPS 44-48 50psi DN 1100-1200 3 bar	NPS 26-42 100psi DN 650-1050 7bar				
		NPS 44-48 75psi DN 1100-1200 5bar				
Drilling ASME B16.5 CL150						
	ASME B16.47 CL150					
Face to Face	Per Industry Standard					
Certification	Canadian CRN PED Category I Module A (Grou	p 2 liquids)				
Design Standard	Manufacturer Standard					
Testing Standard	Manufacturer Standard ¹					
NOTE¹ 762 valves are elastomer sleeved 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* C				
Monel*				
Titanium				

BODY OPTIONS

Carbon Steel (WCB)				
CF3M Stainless Steel				
Ductile Iron				

SEAT OPTIONS



Natural Rubber	-60 to 165°F			
Rubbei	-51 to 74°C			
Buna-N	-34 to 194°F			
	-36 to 90°C			
EPDM-HT*	-65 to 302°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.

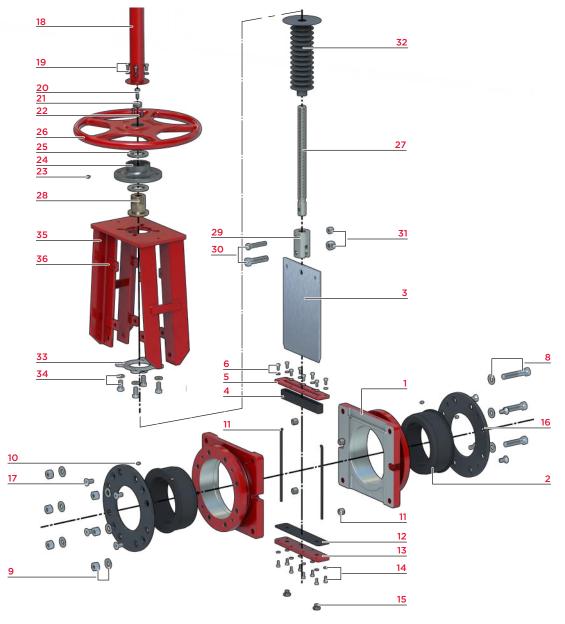
MATERIALS OF CONSTRUCTION

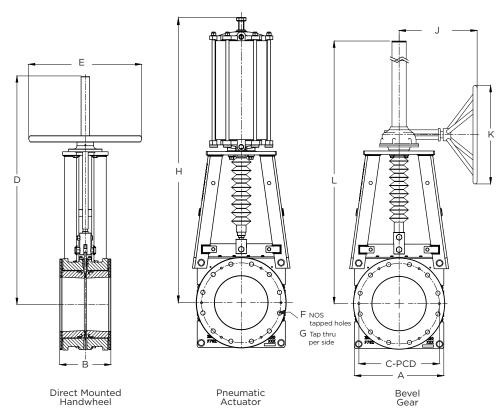
BILL OF MATERIALS & PARTS CALL OUT

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

Item	Description
13	Drain Plate (optional)
14	Drain Plate Fasteners & Washers (opt.)
15	Drain Plug (optional)
16	Seat Retainer
17	Seat Retainer Screws
18	Stem Guard
19	Stem Guard Bolt & Nut
20	Travel Stop Fastener
21	Travel Stop
22	Grub Screws
23	Grease Nipple
24	Handwheel Assembly Housing

Item	Description
25	Thrust Bearing
26	Handwheel
27	Stem
28	Stem Nut
29	Clevis
30	Clevis Bolt
31	Clevis Lock Nut
32	Bellows
33	Bellows Flange
34	Bellows Mounting Fasteners
35	Superstructure/Tower Assembly
36	Lock Out Bracket





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 150 for sizes NPS 3 (DN80) through NPS 24 (DN600) and per ASME B16.47 Series A for sizes > NPS 24.

DIMENSIONS (Inches)											
NPS	Α	В	CPCD	D	E	F	G	Н	J	K	L
3	8.66	6.88	6.00	22.24	12	4	5/8"-11	24.80	8.86	11.81	26.77
4	10.04	6.88	7.50	23.94	12	8	5/8"-11	25.98	8.86	11.81	28.34
6	12.32	7.00	9.50	31.58	16	8	3/4"-10	34.02	9.45	11.81	35.43
8	13.98	7.28	11.75	36.93	20	8	3/4"-10	39.57	9.45	11.81	43.50
10	15.83	8.89	14.25	42.32	20	12	7/8"-9	44.88	10.24	11.81	49.60
12	19.09	10.15	17.00			12	7/8"-9	50.79	15.55	19.69	52.75
14	21.06	10.15	18.75			12	1"-8	58.46	15.55	19.69	67.52
16	23.43	11.02	21.25			16	1"-8	62.99	16.93	19.69	72.83
18	26.38	12.28	22.75			16	1-1/8"-7	68.50	18.11	19.69	79.13
20	28.35	14.13	25.00			20	1-1/8"-7	72.83	18.50	29.53	83.26
24	33.86	14.64	29.50			20	1-1/4"-7	87.70	21.26	39.37	100.59

DIMENSIONS (Millimeters)											
DN	Α	В	CPCD	D	Ε	F	G	Н	J	K	L
80	220	175	152.4	565	300	4	5/8"-11	630	225	300	680
100	255	175	190.5	608	300	8	5/8"-11	660	225	300	720
150	313	178	241.3	802	400	8	3/4"-10	864	240	300	900
200	355	185	298.5	938	500	8	3/4"-10	1005	240	300	1105
250	402	226	362	1075	500	12	7/8"-9	1140	260	300	1260
300	485	258	431.8			12	7/8"-9	1290	395	500	1340
350	535	258	476.3			12	1"-8	1485	395	500	1715
400	595	280	539.8			16	1"-8	1600	430	500	1850
450	670	312	577.9			16	1-1/8"-7	1740	460	500	2010
500	720	359	635			20	1-1/8"-7	1850	470	750	2115
600	860	372	749.3			20	1-1/4"-7	2230	540	1000	2555

WEIGHT (lbs)	
HAND WHEEL		GEAR OPERATOR
83	90	88
105	115	110
165	156	168
225	254	225
297	370	298
	558	447
	783	595
	970	756
	1587	1146
	1905	1424
	2976	2088

WEIGHT (kg)							
38	41	40					
48	52	50					
75	71	76					
102	115	102					
135	168	135					
	253	203					
	355	270					
	440	343					
	720	520					
	864	646					
	1350	947					

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





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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