# KNIFE GATE & SLURRY VALVE PRODUCT GUIDE





## **SERIES 740 BIDIRECTIONAL KNIFE GATE VALVES**

One-piece cast body with flexible wire reinforced elastomer seat for bidirectional zero leakage shutoff in a wide range of industrial applications.

TECHNICAL SPECIFICATIONS		
Size Range	NPS 2 to 36   DN 50 to 900	
Body Style	Single Piece - Lug	
Pressure Rating	2-24 150psi   30-36 100psi	
Pressure Rating	50-600mm 10 bar   750-900mm 7	bar
Drilling	ASME B16.5 CL150   ASME B16.47 (	CL150
Face to Face	MSS SP-81	
Certification	CE/PED   Canadian CRN   AWWA	
Design Standard	MSS SP-81	
Testing Standard	MSS SP-151	
STANDARD CON	NSTRUCTION	
Body	CF8 (304)	CF8M (316)
Gate	304	316
Seat	Buna-N	Buna-N
Stem	304	304
Gland	304	304
Packing	PTFE Impregnated Synthetic Fiber	PTFE Impregnated Synthetic Fiber
Topworks	Steel	Steel



#### **APPLICATION GUIDE**

Pulp & Paper | General Industrial | Power | Wastewater | Chemical | Ethanol

## **SERIES 940 UNIDIRECTIONAL KNIFE GATE VALVES**

One-piece cast body designed for rugged performance in applications ranging from general purpose to severe media handling.

TECHNICAL SPECIFICATIONS		
Size Range	NPS 2 to 24   DN 50 to 600	
Body Style	Single piece   Lug	
Dracerra Detina	2-24 150psi	
Pressure Rating	50-600mm 10 bar	
Drilling	ASME B16.5 CL150	
Face to Face	MSS SP-81	
Certification	CE/PED   Canadian CRN   AWWA	
Design Standard	MSS SP-81	
Testing Standard	MSS SP-151	
STANDARD CONSTRUCTION		
Body	CF8 (304)	CF8M (316)
Gate	304	316
Seat	Integral	Integral
Stem	304	304
Gland	304	304
Packing	PTFE Impregnated Synthetic Fiber	PTFE Impregnated Synthetic Fiber
Topworks	CS	CS



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## **SERIES 941 UNIDIRECTIONAL KNIFE GATE VALVES**

Engineered for general purpose on/off service and isolation of clean, dirty, corrosive, abrasive, viscous and high temperature media

TECHNICAL SPECIFICATIONS			
Size Range		NPS 2 to 24   DN 50 to 600	
Body Style		Single Piece - Lug	
Pressure Rating		2-24 150psi	
		50-600mm 10 bar	
Drilling		ASME B16.5 CL150	
Face to Fac	:e	MSS SP-81	
Certificatio	n	CE/PED   Canadian CRN	
Design Star	ndard	MSS SP-81	
Testing Sta	ndard	MSS SP-151	
STANDAR	STANDARD CONSTRUCTION		
Body	CF8M	I (316)	
Gate	316		
Seat	Integi	ral	
Stem	304		
Gland	304		
Packing	Energ	gized Quad Seal with PTFE Anti-Extrusion Ring	
Topworks	CS		
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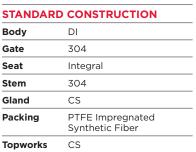
#### **APPLICATION GUIDE**

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## **SERIES 950 UNIDIRECTIONAL KNIFE GATE VALVES**

Engineered for general purpose on/off service and isolation of clean, dirty, corrosive, abrasive, viscous and high temperature media.

TECHNICAL SPECIFICATIONS	
Size Range	NPS 2 to 24   DN 50 to 600
Body Style	Single Piece - Semi-Lug
Pressure Rating	2-12 150psi   14-24 75psi
	50-300mm 10 bar   350-600mm 5 bar
Drilling	ASME B16.5 CL150
Face to Face	MSS SP-81
Certification	Canadian CRN   CE/PED   ATEX   AWWA
Design Standard	MSS SP-81
Testing Standard	MSS SP-151
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#### **APPLICATION GUIDE**

Pulp & Paper | General Industrial | Power | Wastewater | Chemical Food & Beverage



## **SERIES 762 BIDIRECTIONAL SLURRY VALVES**

Two-piece bolted body with twin elastomer seats and a push-through gate designed for bidirectional heavy duty zero leakage shutoff with self cleaning in aggressive slurries.

TECHNICAL SPECIFICATIONS		
Size Range	NPS 3 to 48   DN 80 to 1200	
Body Style	Two-piece Bolted - Flanged	
Drossuro Dating	3"-24" 100psi   26"-42" 75psi   44"-48" 50psi	
Pressure Rating	80mm - 600mm 7 bar   650mm-1050mm 5 bar   1100mm-1200mm 3 bar	
Drilling	ASME B16.5 CL150   ASME B16.47 CL150	
Face-to-face	Per Industry Standard	
Design Standard	Manufacturer Standard	
Testing Standard	Manufacturer Standard	
Certification	Canadian CRN	
STANDARD CONSTRUCTION		
Body	3"-28" DI   30"-48" WCB	
Gate	316	
Seat	Natural Rubber	
Secondary Seal	EPDM	



#### **APPLICATION GUIDE**

Chemical | Mining | Power

# **SERIES 767 BIDIRECTIONAL SLURRY VALVES**

Two-piece bolted body with twin elastomer seats and a push-through gate designed for bidirectional zero leakage shutoff with self cleaning in high pressure slurries.

TECHNICAL SPECIFICATIONS		
Size Range	NPS 3 to 24   DN 80 to 600	
Body Style	Two-piece Bolted - Wafer	
	300psi   450psi   740psi	
Pressure Rating	20 bar   31 bar   51bar	
Drilling	ASME B16.5 CL150   ASME B16.5 CL300	
Face-to-face	Per Industry Standard	
Design Standard	Manufacturer Standard	
Testing Standard	Manufacturer Standard	
Certification	Canadian CRN	
STANDARD CON	STANDARD CONSTRUCTION	
Body	WCB	
Gate	316   2205   17-4 (depending on pressure rating)	
Seat	Natural Rubber	
Secondary Seal	EPDM	





## **SERIES 768 BIDIRECTIONAL SLURRY VALVES**

Two-piece bolted body with twin elastomer seats and a push-through gate designed for bidirectional zero leakage shutoff with self cleaning in demanding slurries.

TECHNICAL SPECIFICATIONS		
Size Range	NPS 2 to 24   DN 50 to 600	
Body Style	Two-piece Bolted - Wafer	
Dressure Dating	2"-16" 150psi   18"-24" 90psi	
Pressure Rating	50mm-400mm 10 bar   450mm-600mm 6.2 bar	
Drilling	ASME B16.5 CL150	
Face-to-face	Per Industry Standard	
Design Standard	Manufacturer Standard	
Testing Standard	Manufacturer Standard	
Certification	Canadian CRN	
STANDARD CONSTRUCTION		
Body	DI	
Gate	316	
Seat	Natural Rubber	
Secondary Seal	EPDM	
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#### **APPLICATION GUIDE**

Chemical | Mining | Power

# **SERIES 746 BIDIRECTIONAL SLURRY VALVES**

One-piece cast body with extended, molded and bonded polyurethane liner for bidirectional zero leakage shutoff and increased protection from abrasive/ corrosive high pressure slurries.

TECHNICAL SPECIFICATIONS	
Size Range	NPS 2 to 24   DN 50 to 600
Body Style	One-piece - Wafer
Dressure Dating	240psi
Pressure Rating	16 bar
Drilling	ASME B16.5 CL150
Face-to-face	Per Industry Standard
Design Standard	Manufacturer Standard
Testing Standard	MSS SP-151
STANDARD COI	NSTRUCTION
Body	DI
Gate	316
Liner	Polyurethane
Packing	PTFE impregnated synthetic fiber

## **APPLICATION GUIDE**



## **SERIES 752 BIDIRECTIONAL SLURRY VALVES**

Two-piece bolted body with steel reinforced perimeter seat for bidirectional zero leakage shutoff in demanding slurries.

TECHNICAL SPECIFICATIONS		
Size Range	NPS 2 to 24   DN 50 to 600	
Body Style	Two-piece bolted - Wafer	
Drossuro Datina	150psi   240psi   300psi	
Pressure Rating	10bar   16bar   20bar	
Drilling	ASME B16.5 CL150	
Face-to-face	MSS SP-81 (150psi & 240psi models)	
Design Standard	MSS SP-81	
Testing Standard	MSS SP-151	
Certification	Canadian CRN	
STANDARD COI	STANDARD CONSTRUCTION	
Body	CF8   CF8M   WCB   DI	
Gate	304   316	
Seat	Buna-N	
Packing	PTFE impregnated synthetic fiber	
ADDITION		



#### **APPLICATION GUIDE**

Chemical | Mining | Power

# **SERIES 755 BIDIRECTIONAL SLURRY VALVES**

Two-piece bolted body with a replaceable polyurethane bore liner and steel reinforced perimeter seat for bidirectional zero leakage shutoff in abrasive/ corrosive slurries.

TECHNICAL SPECIFICATIONS		
Size Range	NPS 2 to 24   DN 50 to 600	
Body Style	Two-piece bolted - Wafer	
Dracerra Datina	150psi   240psi   300psi	
Pressure Rating	10bar   16bar   20bar	
Drilling	ASME B16.5 CL150	
Face-to-face	MSS SP-81 (150psi & 240psi models)	
Design Standard	Manufacturer Standard	
Testing Standard	MSS SP-151	
Certification	Canadian CRN	
STANDARD CON	STANDARD CONSTRUCTION	
Body	CF8   CF8M   WCB   DI	
Gate	304   316	
Seat	Buna-N	
Packing	PTFE impregnated synthetic fiber	

## **APPLICATION GUIDE**



## **SERIES 765 BIDIRECTIONAL SLURRY VALVES**

Compact, two-piece bolted body with twin elastomer seats and a push-through gate designed for bidirectional zero leakage shutoff with self cleaning in demanding slurries.

TECHNICAL SPECIFICATIONS		
Size Range	NPS 2 to 12   DN 50 to 300	
Body Style	Two-piece bolted - Wafer	
Droccure Dating	90psi	
Pressure Rating	6.2bar	
Drilling	ASME B16.5 CL150	
Face-to-face	MSS SP-81	
Design Standard	Manufacturer Standard	
<b>Testing Standard</b>	Manufacturer Standard	
Certification	Canadian CRN	
STANDARD COI	STANDARD CONSTRUCTION	
Body	DI	
Gate	304	
Seat	Natural Rubber	
Secondary Seal	EPDM	



# **APPLICATION GUIDE**

Chemical | Mining | Power

# **SERIES 770 BIDIRECTIONAL O-PORT GATE VALVES**

Two-piece bolted body with o-ported slide gate designed for minimal stress with maximum sealing in severe media applications.

TECHNICAL SPE	TECHNICAL SPECIFICATIONS	
Size Range	NPS 2 to 24   DN 50 to 600	
Body Style	Two-piece bolted - Wafer	
Dracerra Datina	150psi CWP	
Pressure Rating	10bar	
Drilling	ASME B16.5 CL150	
Face-to-face	MSS SP-81	
Design Standard	Manufacturer Standard	
<b>Testing Standard</b>	Manufacturer Standard	
Certification	Canadian CRN	
STANDARD CON	STANDARD CONSTRUCTION	
Body	DI	
Gate	304	
Seat	EPDM	
Packing	PTFE impregnated synthetic fiber	

#### **APPLICATION GUIDE**



# **PACKING OPTIONS**



MAXIMUM TEMPERATURE RANGE		
Pure PTFE	500°F	
	260°C	
PTFE impregnated	450°F	
Synthetic Fiber	232°C	
PTFE w/Buna-N	194°F	
Quad Seal <sup>1</sup>	90°C	
PTFE w/Viton®	392°F	
Quad Seal <sup>1</sup>	200°C	
PTFE w/EPDM	248°F	
Quad Seal	120°C	
PTFE w/Copper Wiper <sup>2</sup>	500°F	
- I - L w/ Copper wilper	260°C	
Graphite	1202°F	
Giapilite	650°C	

1 PTFE packing with energized elastomer. 2 PTFE packing with copper wiper. Copper wiper not applicable for F752 / 755

## **SEAT OPTIONS**

Series 740 Replaceable flexible wire reinforced elastomer seat

Buna-N	-35° to 194°F	-37° to 90°C
EPDM	-65° to 248°F	-54° to 120°C
FKM	-15° to 392°F	-26° to 200°C



Series 767 Twin elastomer seats

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



Series 752 Replaceable steel reinforced elastomer seat

Buna-N	-35° to 194°F	-37° to 90°C
EPDM	-65° to 248°F	-54° to 120°C
FKM	-15° to 392°F	-26° to 200°C



Series 768 Twin elastomer seats

Natural Rubber	-60° to 165°F	-51° to 74°C
Buna-N	-35° to 194°F	-37° to 90°C
EPDM	-65° to 248°F	-54° to 120°C



Series 755 Replaceable steel reinforced elastomer seat

Buna-N	-35° to 194°F	-37° to 90°C
EPDM	-65° to 248°F	-54° to 120°C
FKM	-15° to 392°F	-26° to 200°C



Series 770 Twin elastomer seat

EPDM	-65° to 248°F	-54° to 120°C



Series 762 Twin elastomer seats

Natural Rubber	-60° to 165°F	-51° to 74°C
Buna-N	-35° to 194°F	-37° to 90°C
EPDM-HT	-65° to 302°F	-54° to 150°C



Series 940 Standard integral metal seat and optional replaceable zero leakage resilient seat

Buna-N	-35° to 194°F	-37° to 90°C
EPDM	-65° to 248°F	-54° to 120°C
FKM	-15° to 392°F	-26° to 200°C
PTFE	-235° to 500°F	-148° to 260°C



Series 765 Twin elastomer seats

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

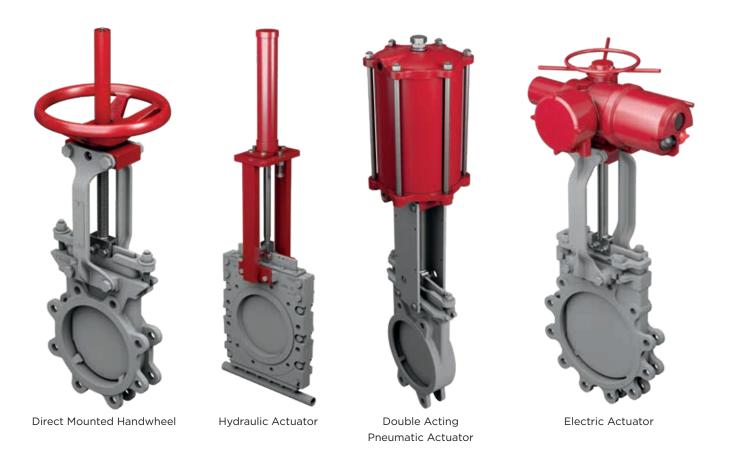


Series 950 Standard integral metal seat and optional replaceable zero leakage resilient seat

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Buna-N	-35° to 194°F	-37° to 90°C
EPDM	-65° to 248°F	-54° to 120°C
FKM	-15° to 392°F	-26° to 200°C
PTFE	-235° to 500°F	-148° to 260°C



# **ACTUATOR OPTIONS**





# ADDITIONAL ACCESSORIES (ILLUSTRATED IN RED)







Handwheel Lock Out



Pinned Lockout Open & Closed



Pneumatic Failsafe



Proximity Sensor



Mechanical Limit Switch



Bonnet



Manual Override



Non Rising Stem



Gate Guard

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