



Engineered Flow Solutions for the Global Market

Jindex Standard Knife Gate Valve Model KGSL-FL



KGSL-FL

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Jindex have designed a valve for many demanding applications. The valve is designed for tough abrasive and corrosive applications including dry and wet slurries for the mining, power, materials handling, water waste water and cement industries.

Jindex knifegate design and manufacturing expertise spans over 25 years. Our standard designs incorporate many features which provide excellent wear resistance and avoid many of the design deficiencies of traditional knifegates.

Through our extensive experience and process understanding, Jindex has designed and manufactured our own "Flush Seat Design". Our improvements over the traditional seat design will eliminate solids compacting in the seat area and jamming the valve.

Depending on the actuation requirements we are able to offer manual, pneumatic, hydraulic and electric operation with limit switches, positioners, solenoids and other accessories as required.

The Jindex design will provide;

Superior Seat Life

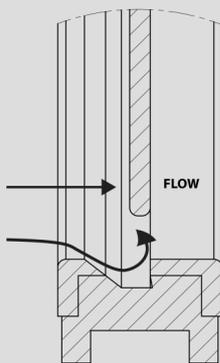
Superior Packing Life

Elimination of valve jamming

A variety of stuffing box packings are available along with body and actuator materials for corrosive atmospheres

Jindex Seat Design Advantages

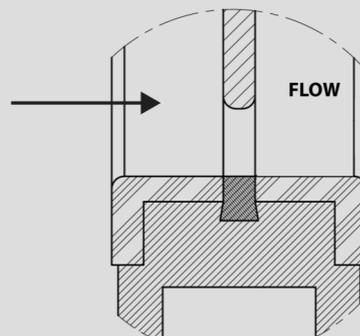
TRADITIONAL SEAT DESIGN



Traditional seat design allows slurry to impact the seat and sealing face causing excessive wear

SEAT DESIGN

JINDEX SEAT DESIGN



Flush mount seat designed to eliminate impact abrasion on seat and internal bore of the valve

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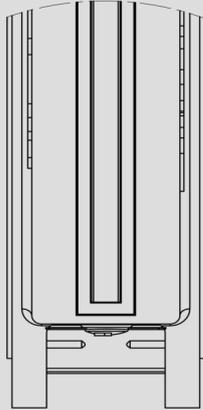


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Jindex Standard Knife Gate Valve

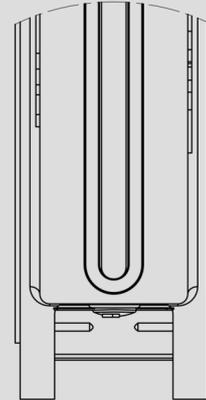
Model KGSL-FL

TRADITIONAL GATE DESIGN



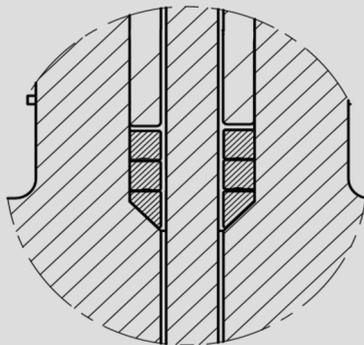
Square edge gates are less expensive but are prone to leakage

JINDEX GATE DESIGN



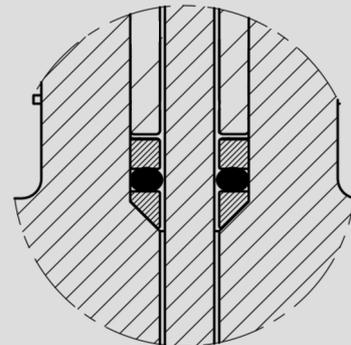
Jindex gate and stuffing box are radiused to maintain the seal around the gate edges

GATE EDGE



Traditional stuffing box requires regular adjustment due to the packing having limited resilience.

STUFFING BOX



The elastomer 'o'-ring maintains compression on the packing material for longer life service without adjustment.
PTFE impregnated packing also reduces friction whilst maintaining the seal

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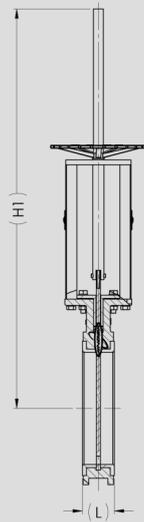
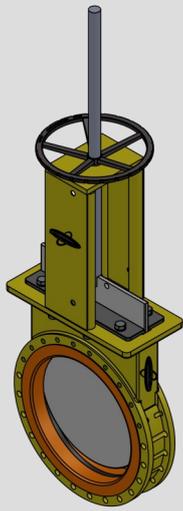
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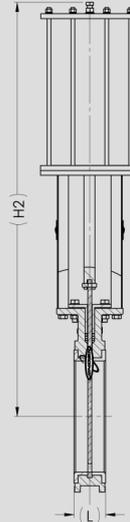
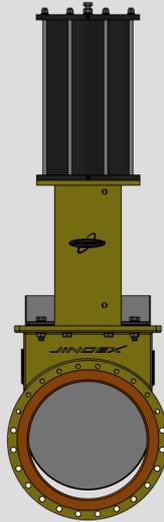


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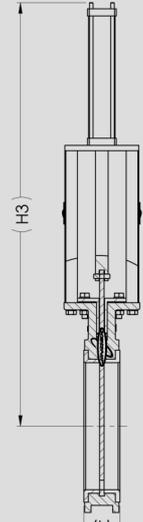
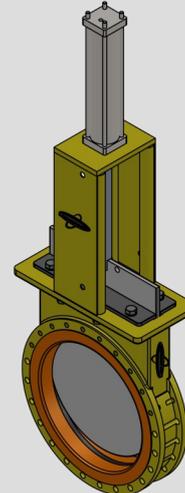
Jindex KGSL-FL Critical Dimensions



Jindex Handwheel
Knifegate



Jindex Pneumatic
Knifegate



Jindex Hydraulic
Knifegate

Jindex Critical Dimensions									
DN	L	H1	H2	H3	DN	L	H1	H2	H3
100	50	520	620	658	600	114	2022	2320	2403
150	60	652	755	825	700	117	2778	2620	2686
200	70	822	935	987	750	117	2873	2820	2772
250	70	1022	1090	1205	800	117	2980	3050	2956
300	96	1122	1260	1372	900	117	3215	3220	3256
350	100	1323	1410	1630	950	117	3317	3641	3681
400	106	1427	1677	1755	1000	117	3400	4041	4081
450	110	1594	1905	1967	1050	117	3641	4502	4542
500	114	1707	2020	2134	1200	117	3941	4800	4845



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Jindex Standard Knife Gate Valve Codes

Category	Description	Code
Size	Valve Size (mm)	25-1200
Body Type	Semi-lugged	SL
	Fully-lugged	FL
	Wafer	WA
	Double Flanged	DF
	Through Conduit	TC
	Rubber Insert	RC
Body Material	Cast Iron WCB	CI
	Stainless Steel CF8M	SS
Seat	Metal	M
	Natural Rubber	R
	Polyurethane	P
	Butyl	B
	Neoprene	N
	Nitrile	L
	EPDM	E
	Hypalon	H
	PTFE	F
Seal	EPDM	E
	Nitrile	L
	Polyurethane	P
	Natural Rubber	R
	Butyl	B
	Neoprene	N
	Hypalon	H
PTFE	F	
Gate	316 Stainless Steel	316
	304 Stainless Steel	304
	Super duplex	SD

Pressure	Bar	1
	Bar	5
	Bar	10
Actuator	Pneumatic Double acting Jindex	J1
	Pneumatic spring close	J2
	Hydraulic Jindex	J4
	Manual	J6
	Pneumatic DA Festo DFPI	F2
Control	None	X
	Norgren 5/2 24VDC	N11
	Norgren 3/2 24VDC	N12
	Festo 5/2 24VDC	F11
	Festo 3/2 24VDC	F12
	SMC 5/2 24VDC	M11
	SMC 3/2 24VDC	M12
	Manual control	J11
	Hydraulic solenoid	HS
Accessories	None	XXX
	Mechanical limit switches	ML1
	Proximity switches	PL1
	Filter regulator	FR1
Flanging	ANSI 150	A
	ANSI B16.47	AB
	Table "D"	D
	Table "E"	E
	Din 10	S4
	SABS1000	F

* for anything not specified on the above codes list, please contact Jindex

Jindex has extensive process knowledge and valve expertise. We also offer many more specialised valves for specific applications. We will be happy to assist with any valve queries you may have.

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