



SHADECO VALVES & PUMPS CC

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DECO LD FULLY RUBBER LINED SLURRY KNIFE GATE VALVES



The Deco LD Slurry Knife Gate Valve is manufactured by Shadeco Valves Controls cc in South Africa. This is a perfect knife gate valve for slurry with excellent records in the following industries Mining, Petrochemical, Pulp and Paper, Municipal Water Works and Power industries, just to mention few. This Deco LD Slurry Knife Gate Valve has been designed based on the expertise that Shadeco Valves and Controls has in the Mining Industry (slurry application) in order to overcome or minimise slurry knife gate valve failures in the slurry applications. Deco LD Fully Rubber Lined Slurry Knife Gate Valve is a simple and light kind of fully rubber lined slurry knife gate valve and consists of three parts only and has been working successfully in the Mining Industry for a couple of years, since 2005. Due to its unique and simple design this Deco LD Fully Rubber Slurry Lined Knife Gate Valve has minimised valve failure of the slurry knife gate valve in a slurry in the Mining Industry for the past 10 years, it has also maximised the profit in the sense of reducing unnecessary break downs. Shadeco Valves and Controls used its expertise, ability and capability to design the Deco LD Fully Rubber Lined Slurry Knife Gate Valve of this nature in order to meet the demand of high class standard and quality slurry knife gate valves in the mining industry.

Why Deco LD Fully Rubber Lined Slurry Knife Gate?

The Deco LD Fully Rubber Lined Slurry Knife Gate Valves are of high standard. All components are locally manufactured in South Africa. The valve is designed in such a way that it is able to meet world class standard requirements and thus can be used anywhere in the world. It has been a proven product within the Mining, Petrochemical, Power, Municipality Water Works, Pulp and Paper industry and various other industries, for the past ten years.

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Valve Design

Deco LD Fully Rubber Lined Slurry Knife Gate Valve has unique design features or characteristics. It consists of two fully rubber lined body parts bolted together and polished stainless steel blade which make it possible for maintenance, unlike on a one/solid piece slurry knife gate valve body type whereby it is much more difficult to take the blade out of the valve when the valve needs to be repaired. In most cases the slurry is desolidified and seize inside the valve and it holds to each and every part of the valve. In this case you struggle to take out the blade of the knife gate valve when you need to repair it.

Sealing Arrangement

The Deco LD Fully Rubber Lined Slurry Knife Gate Valve seals with its moulded natural rubber or poly urethane lined on the two body parts. This moulded rubber prevents leakage on both sides of the valve blade which is between the two body parts. Deco LD Fully Rubber Lined Knife Gate Valve also uses gland packing which is held tight by the gland follower which serves as its sealing arrangement as well. The gland followers bolts and nuts are stainless steel to prevent rust. It is possible to adjust this gland follower or to bolt the gland packing down anytime when your experience gland packing leakage. Gland packing is divided into two type's, primary PTFE used as the scrapper and normal gland packing for sealing as sealing arrangement.

Gland Follower

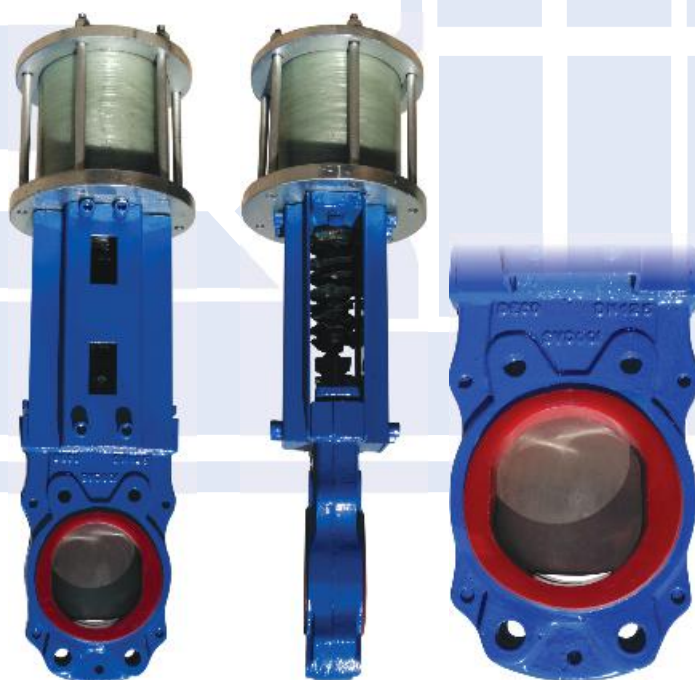
The Deco LD Fully Rubber Lined Slurry Knife Gate Valve has an adjustable gland-follower which is available in two different materials. Mild steel is for non-acidic applications and 316 S/S body is for acidic applications. The gland followers main function is to hold the pressure tight inside the valve body and against the blade and compress the gland follower so that the valve can't leak.

Top Works

The Deco LD Fully Rubber Lined Slurry Knife Gate Valves top works are made out of two powder coated strong mild steel or 316 stainless steel plate and dished with (cast iron or ductile iron) hand wheel. The spindle constitutes of 316 stainless steel and a self lubricated brass bush. The spindle is protected with a dust protection cover for both manual and actuated valves.

Body, Seat Material & Blade

The Deco LD Fully Rubber Lined Slurry Knife Gate Valve is available in two body materials, cast/ ductile iron and 316 stainless. Seat material consists of three arrangements namely: fully rubber lined with natural rubber or poly urethane seat. This sealing arrangement can handle certain acid applications. Blades are available in 316 and 304 stainless steel. The blade can be hardened in order to meet certain application pressure. The shape of the blade is radius at the side and machines at the bottom to have a cutting edge like a knife so that it can cut through the slurry or any solid material like pulp and paper.



Operation

The Deco LD Fully Rubber Lined Slurry Knife Gate Valve can be operated manually with a hand wheel, bevel gear, chain wheel, electrical motor, hydraulic and pneumatic cylinders including fail safe action or manual override. You can switch from a manual valve that is hand wheel, gearbox or chain-wheel to pneumatic or hydraulic actuator without any difficulty. There are no brackets or couplings required. All you do is remove the hand wheel and fit the actuator directly onto the Valve.

Installation

The Deco LD Fully Rubber Lined Slurry Knife Gate Valves are bi-directional knife gate valves, which simply mean that it can be installed at any side and can face follow from any direction, vertical or horizontal position, unlike most of the knife gate valves which are uni-directional and can be installed with the downstream flow facing one direction only. This plays an integral role during the installation of the valve.

Paint

After the valves have been machined and drilled rubber lined it's normally deepened into a degrease solution in order to remove all the oil and grease and then it is painted with an anti-rust under coat and finished with a light blue industrial paint. Its top works is normally powder coated with a light blue paint.

Drilling

The Deco LD Fully Rubber Lined Slurry Knife Gate Valves are designed to adapt easily to different types of drilling. It is available in wafer type which is easy to adapt to different types of drilling. The flange holes in the chest area of the valves are drilled and tapped and the other holes are drilled through. The valves have lugged at the bottom that can be drilled and tapped as well for dead end application. It is compatible with all the national standard drilling e.g., Table 10, Ansi 150, Table D, etc.

Deflector Cones

The Deco LD Fully Rubber Lined Slurry Knife Gate Valves are available in different types of deflector cones as per the application requirements. It is also available in 316 stainless steel for acidic application, ni-hard deflector cone and urethane material. Both cones are suitable for abrasive applications.



Maximum Operating Pressure and Sizes

The Deco LD Fully Rubber Lined Slurry Knife Gate Valve provide bubble tight shut offs in both directions up to 10 bar. The sizes range from 50mm (2") up to 600mm (24"). Bigger sizes are also available on request.

Application

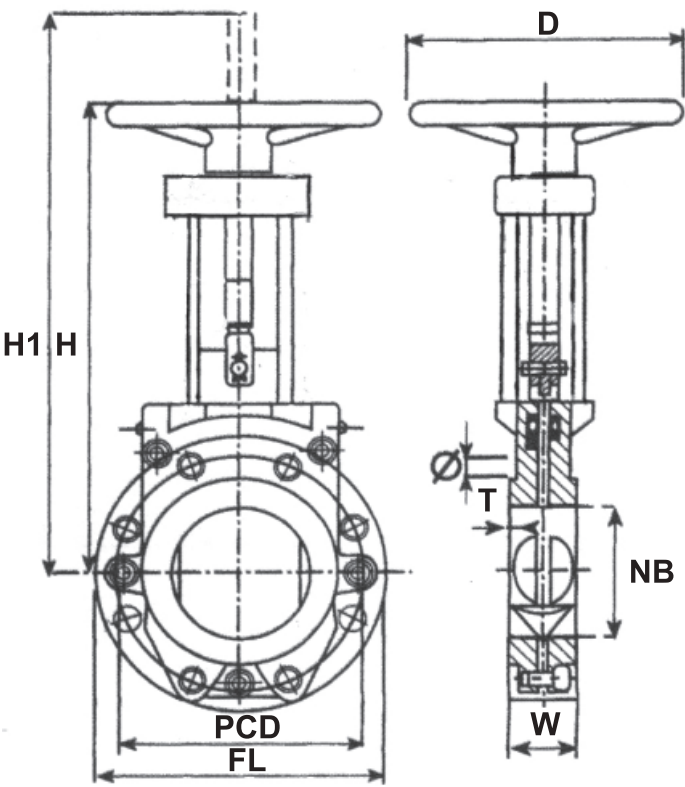
The Deco LD Fully Rubber Lined Slurry Knife Gate Valve is designed for isolation and on-off application only. It can't be used for throttling applications. It can withstand clean, dirty, viscous, corrosive, sludge, fibrous, slurry, clean and corrosive gases/liquids and dry material e.g. Cement, Lime, Platinum concentrator and other dry materials.

Maintenance

The Deco LD Fully Rubber Lined Slurry Knife Gate Valve is 100% repairable. The maintenance can be done at the plant or sent back to the manufacturers. As it can be refurbished; it simply means it is a low cost Knife Gate Valve. It can be repaired within a few days as the spares are made locally and therefore do not require a waiting period of months for import spares.

Why Deco LD Fully Rubber Lined Slurry Knife Gate Valve?

Because of it's unique simple design and high standard.



DECO LD FULLY RUBBER LINED SLURRY KNIFE GATE VALVES

Bore NB	Flange Dia. FL NP 10	PCD	W	H	H1	C	Tread	T	Total No
50	165	125	40	240	292	200	M16	11	14
65	185	145	40	270	341	200	M16	11	4
80	200	160	50	316	380	200	M16	11	4
100	220	180	50	356	436	200	M16	11	8
125	250	210	50	396	503	200	M16	11	8
150	285	240	60	464	596	300	M20	11	8
200	340	295	60	594	773	300	M20	12	8
250	395	350	70	657	875	300	M20	15	12
300	445	400	70	782	1054	400	M20	18	12
350	505	460	80	865	1183	400	M20	20	16
400	565	515	90	970	1333	400	M24	20	16
450	615	565	100	1070	1483	500	M24	24	20
500	670	620	110	1160	1617	500	M24	24	20
600	780	725	130	1900	1908	500	M24	24	20