



PERFECT
ENGINEERING
SERVICES

PNEUMATIC CYLINDER OPERATED KNIFE EDGE GATE VALVE



S.No	Description	Material
1	Body	WCB/CF8/CF8M/Cast Iron
2	Gate	S.S. 410/S.S. 304/316
3	Stem	S.S. 410/S.S. 304/316
4	Seat Ring	S.S. 410/S.S. 304/316
5	Gland	WCB/S.S. 304
6	'D' Ring	PTFE/M to M/EPDM
7	Packings	PTFE - Integrated Asbestos Layered with Moulded Rubber
8	Gate Guides	S.S. 410/S.S. 304/316
9	Yoke Sleeve	S.G. Iron
10	Sleeve Housing	ASTM A216 Gr WCB
11	Fasteners	Carbon Steel
12	Pneumatic Cylinder	Standard

Perfect Engineering Services offers pneumatic cylinder operated knife edge gate valve in bi-direction/uni-direction type designs.

A knife gate valve is an element that uses a blade to cut heavy liquids by clogging them. In some of the world's most corrosive, erosive and abrasive areas, these valves were intended to operate. Originally they were intended for the paper and pulp industry. Stringy pulp would stick between an ordinary gate valve's wedge and seat and stop flow shut-off. Specially intended for cutting through the pulp and seal were knife gate valves with a sharp edge.

Knife gate valves are used today are many processing plants and come in big sizes making it simpler to manage dense flows of light grease, heavy oils, varnish, slurry, waste water and paper pulp. It is important to note that these valves have low-pressure limitations and are designed to seat the blade in an elastomer seal once the blade cuts its handling through the substances.

Thick liquids glide readily without interference over these smooth seals, but when a strong mass or powder moves through the knife gate, the bulky, dry material ends up packing into the smooth seals at the end of the door. The seals will eventually not close tightly enough when this occurs. The seals will need to be replaced if this occurs.

Compared to an ANSI gate valve, a knife gate valve has a slender profile. Knife gate valves are predominantly uni-directional (some alternatives are bi-directional) and feature a flange-free lugged or wafer body. From resilient to metal variants, the knife door valve seats are accessible in everything.

Size range - 2" to 24" Flanged

TEST PRESSURE

Testing : Hydraulic
Body : 5Kg/Cm²
Seat : 2.8Kg/Cm²

ACCESSORIES

- All Standard Coil Voltage (Flame Proof Solenoid Coil)
- Pneumatic & Electro - Pneumatic Valve Positioner
- Limit Switches
- Filter + Regulator Combination with Pressure Gauge
- Single Solenoid Valve

*Owing to continuous improvements, product specifications and dimensions are subject to change

HEAD OFFICE:

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