



UUNIQUE- Uni-directional Knife Gate Valves-Resilient Seated L Seal Type

Model -US-01

The US-01 model knife gate valves are uni-directional, full lug , bonnet less design valves complying to MSS SP-81 standard. These knife gate valves are suitable for different applications in power , cement, paper and pulp, chemical ,biomass, process industries, water and waste water treatment plants etc.

In this version , Resilient L type seals is placed in a groove within the valve body,securely held in place by a thin metallic strip (1-2mm) along with the valves inner perimeter for ensuring a drip tight shut off ,ensuring precision and reliability in operation. US-01 model knife gate valves are provided with following features:

- Full bore (100%) opening, minimize the pressure drop and allows the maximum flow in the pipeline.
- Special shut-off technique allows the gate to be pushed onto the seat in closed position provides a tight & reliable sealing.
- The unique valve structure eliminates potential clogging shut off of suspended solids. Thus allows the valves to handle solid, liquid and liquid solid mixes applications for varied industries. .

As standard US-01 model valves are supplied with valve body in stainless steel, cast carbon steel and can also be supplied in a range of high alloy materials such as Duplex, Hastelloy etc.



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Standard Features	Detail
Standards	<ul style="list-style-type: none"> • Manufacturing : MSS SP-81 • Face to Face : MSS SP-81 • Testing : MSS SP-81 / MSS SP-151
Seat / Flow Suitability	Resilient Seated- L Seal Type -Uni-directional
Bore Opening	Full Bore (100% opening)
Standard Size	2" (DN50) to 24" (DN600), higher size on request
End Style	Full lugged up to 24" (DN600), full flanged above 24" (DN600)
Flange Drilling	ANSI B 16.5 150lb / DIN PN10 , other on request
Pressure Rating	<ul style="list-style-type: none"> • 2" (DN50)-24" (DN600) - 150psi (10bar)
Painting	Epoxy Shade black on all non-ss parts.
Testing	Drip Tight Shutoff / As agreed mutually

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Components	Standard Constructions
1- Body	CF8/CF8M/WCB
2- Gate	SS304 /316
3- Seat	EPDM
4- Seat Retainer	SS304
5-Gland Packing	SY.Yarn with PTFE
6-Gland	CF8/CF8M/WCB
7-Yoke	SS304
8-Stem (Rising)	SS304
9-Stem Nut	Brass
10-Hand Wheel	Carbon Steel
11-Stem Cover	Carbon Steel

