



UUNIQUE- Uni-directional Knife Gate Valves-Metal Seated

Model -UM

The UM 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 , a seat face is provided on the edge of the inner bore face of the valve body and the raised face acts as an integral metallic seat. UM 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 UM 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	Metal Seated -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	As per MSS SP-81 / MSS SP-151 upto 24" / As agreed mutually



Actual Image of 14" Knife Gate Valve supplied in Investment Casting