

### Bi-directional Knife Gate Valve

The UB-01 model knife gate valves represent a bidirectional, single-piece, fully-lugged, bonnetless design, meticulously engineered to meet MSS SP-81 standards. These valves boast a field-replaceable, metal wire-reinforced elastomer U-shaped perimeter seat, ensuring robustness and longevity. They are ideally suited for a wide range of applications across industries such as power generation, cement production, paper and pulp manufacturing, chemical processing, biomass facilities, water and wastewater treatment plants, and beyond.

#### Key Features of UB-01 Model Knife Gate Valves:

- Enjoy seamless flow with the full-bore opening, which effectively minimizes pressure drops and maximizes fluid throughput in the pipeline.
- The unique U-design seat, coupled with the gate perimeter, guarantees drip-tight shutoff from either direction of flow, offering enhanced operational control and reliability.

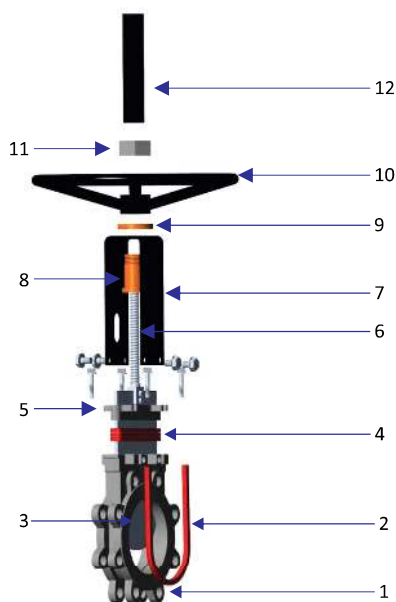
#### Standard Technical Data

Compliance standard	<ul style="list-style-type: none"> <li>• Manufacturing Standard: MSS SP-81</li> <li>• Face-to-Face: MSS SP-81</li> <li>• Testing Standard: MSS SP-81/MSS SP-151</li> </ul>
Flow suitability	: Bi-directional
Bore opening	: Full bore
Standard Size	: 2" (DN50) to 24" (DN600)
End style	: Full lugged
Flange drilling	: ANSI B16.5 150LB / DIN PN 10, other drilling patterns on request
Pressure rating	: 10 bar (150 PSI)
Painting	: Epoxy painted shade black, total dry film thickness maintained 120 micron minimum on all non stainless parts / as per clients requirement.
Testing	<ul style="list-style-type: none"> <li>• Body test - 15 bar (225 PSI)</li> <li>• Seat test - 10 bar (150 PSI) from either direction of flow.</li> </ul>



UB - 01

#### Standard Part List



UB - 01

Components	Constructions
1 Body	WCB / CF8 / CF8M
2 Seat	EPDM
3 Gate	SS304/SS316
4 Gland packing	Sy. Yarn with PTFE
5 Gland	WCB / CF8 / CF8M
6 Stem	SS 304
7 Yoke	Carbon Steel
8 Stem nut	Brass
9 Thrust washer	Brass
10 Hand wheel	Ductile Iron
11 Check nut	Carbon Steel
12 Stem pipe	Carbon Steel

Note: 1. Contact factory for any other material of constructions.  
2. Valve Body upto 12" will be in investment castings.