

# KNIFE GATE VALVE - KV7 FOR THERMAL HYDROLYSIS PLANTS (THP)



## DESCRIPTION

Resilient seated knife gate valve providing tight shut-off, primarily used in thermal hydrolysis plants on medias such as

- Slurries
- Sludges
- Suspended Solids
- Clean Fluids

### SIZE RANGE

80MM – 200MM

### PRESSURE RANGE

16, 25 AND 40 BAR

- Manufactured in the UK

The valve has a round bottom chamfered blade and resilient seal to cope with the demands of the application.

- Tight shut off Bi-directional seat design, clear bore, unrestricted flow, seal mechanically retained.
- Pocketless orifices ensure minimum pressure drop without clogging
- Stuffing box is repackable without removing valve from line
- Rising stem as standard.

## OPTIONAL EXTRAS INCLUDE

- Extension spindles
- Non-rising spindles
- Alternative actuators
- ISO mounting for actuation
- Bare shaft
- Locking facilities
- Ni-hard port inserts,
- Abrasive resistant body encapsulation (Halar)
- Electrical and mechanical position indication and solenoid valves

Designs for higher pressure (25 and 40 bar) and other special applications on request.

Cylinder operation safety guard fitted as required.

**Valve Body**

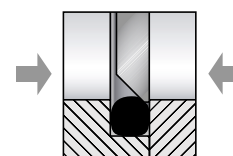
SG Iron body, Fully Lugged and Tapped for end of line service and maintenance

**Blade**

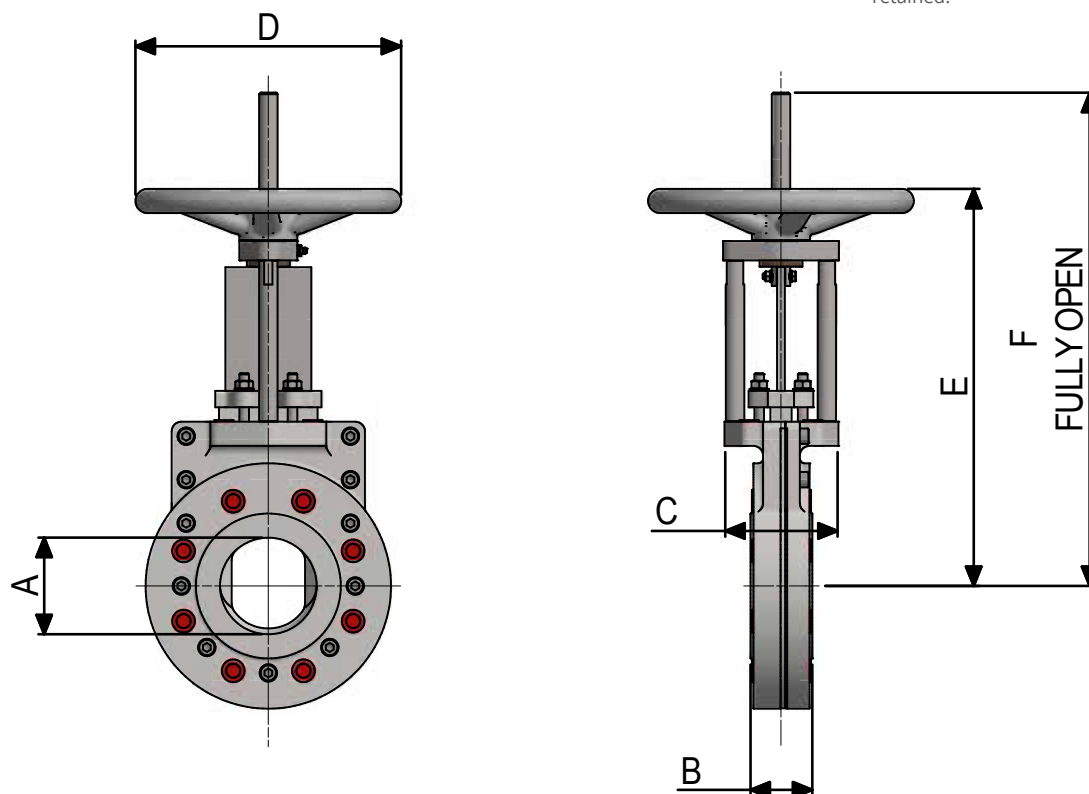
304 Stainless steel machined chamfered blade.

**Seal**

Full pressure rated AFLAS seals, PTFE packing

**Resilient Bi-directional Sealing**

Tight shut off.  
Clear bore,  
unrestricted flow.  
Seal mechanically  
retained.



| Pressure Rating | "Bore* A (mm)" | "B (mm)" | "C (mm)" | "D (mm)" | "E (mm)" | "F (mm)" | "Weight (kg)" |
|-----------------|----------------|----------|----------|----------|----------|----------|---------------|
| PN16            | 80             | 62       | 132      | 275      | 344      | 426      | 18            |
|                 | 100            | 64       | 118      | 275      | 408      | 511      | 28            |
|                 | 150            | 68       | 158      | 310      | 508      | 658      | 35            |
|                 | 200            | 70       | 172      | 310      | 609      | 809      | 62            |
| PN25            | 100            | 64       | 118      | 275      | 408      | 511      | 28            |
|                 | 150            | 77       | 165      | 310      | 536      | 686      | 49            |
| PN40            | 100            | 74.5     | 124      | 275      | 408      | 511      | 30            |



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