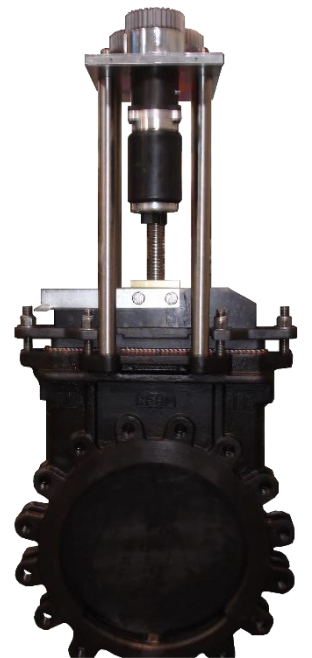




Republic Valves LLC

Trueline Gate Valves



Uni-Directional Knife Gate Valve



General

- ASME (ANSI)
- Sizes 2" – 48"

Materials

- Body
 - CF8M
 - CG8M
 - 254 SMO
 - Cast Ductile Iron
 - Special Alloy
- Gate
 - Fully Machined Gate
 - Available in 316,317, 254 SMO and other Exotic Alloys
 - All Gates have a full radius on both sides

Design Standards

- Lightweight epoxy coated handwheel on 14" and larger
- Flanges match ASME (ANSI) B 16.5 150lb.
- Upper and lower bearing for valves 14" and larger
- Stainless steel stanchions precisely machined for alignment and ease of automation
- Machined surfaces to accept machined stanchions

"O" rings

- VITON – Standard
- Optional
 - EPDM
 - AFLAS
 - BUNA
 - Contact Factory for more options

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- Gate
 - Fully Machined Gate
 - Available in 316,317, 254 SMO and other Exotic Alloys
 - Each Gate is specially matched to the body allowing for tight tolerances.
 - All Gates have a full radius on both sides

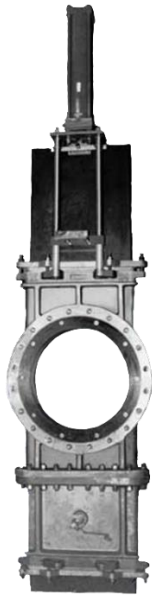
Design Standards

- Bubble-tight shutoff in both directions (only for Resilient Seat)
- Lightweight epoxy coated handwheel on 14" and larger
- Flanges match ASME (ANSI) B 16.5 150lb.
- Upper and lower bearing for valves 14" and larger
- Stainless steel stanchions precisely machined for alignment and ease of automation
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Split Flange O-Port Valve



Sizes 12" – 36"

This valve is designed for high-pressure applications up to 150 psi without damaging the integrity of the valve.

In-line maintenance, the adaptor can be removed to clean the valve without removing the body from the mainline.

FULLY BI-DIRECTIONAL TO 150 PSI
O-Port style gate fully protects the seat face in the open position. This characteristic increases the service life of the valve.

The following are some examples of typical applications:

- Heavy slurries.
- High-pressure pump discharge
- Chemical slurries
- Pulp and paper.
- Petro-chemical.
- Mining.

DRS O-Port Valve



Sizes 2" – 48"

This valve is designed for high-pressure applications without damaging the integrity of the valve. Body style design makes it easy to install between flanges.

This valve is specially designed with no cavities to prevent stock build-up. Bubble-tight sealing is achieved in both directions. The design pressure is 50, 75, 100, and 150 or as per customer requirements. You must specify your design pressure.

The following are some examples of typical applications:

- Heavy slurries.
- High-pressure pump discharge (horizontally mounted).
- Chemical slurries (i.e. PVC pellets and other forms of plastics).
- Pulp and paper.
- Petro-chemical

HT 65 - Surface Treatment

Description

The HT-65 layer is highly resistant to wear, seizure and corrosion. It is durable, up to the temperature at which it was generated. Typically, HT-65 penetrates the ferrous matrix to a depth of 0.020" to 0.040" to form the diffusion zone; austenitic steels develop an extremely hard and complex compound zone distinctive from all other ferrous metals, typically 0.0007" to 0.0009" thick, and a diffusion zone approximately 0.003" deep.



General Applications

HT-65 may be applied to, i.e., valve parts, ball seats, knife gates, sleeve bearings, impellers, and all metal parts to prevent premature wear from friction and galling from thermal expansion in high-temperature applications.

Benefits

HT-65 components have excellent sliding and running properties. A very low coefficient of friction minimizes the incidence of abrasion due to wear and galling (i.e., metal to metal welding). The scuff load depending on the material pairing, is 2-5 times better.

HT 1600 - Surface Treatment

Description

The HT-1600 Diffusion process creates a metallurgical bond between both materials. The corrosion resistance and mechanical properties of the base material remain the same. Excellent for acid resistance and wear. It is polished to a mirror finish (>10 RMS), reducing the coefficient of friction and ensures a tight seal.

General Applications

HT-1600 may be applied to, i.e., valve parts, ball seats, knife gates, sleeve bearings, impellers, and all metal parts to prevent premature wear from friction and galling from thermal expansion in high-temperature applications.

Benefits

100% Dense infusion, Once polished, prevents the process media from adhering to the surface. Exceptionally hard (1200 – 1600 Vickers) resists stress cracking when bent as much as 90° - 180°. Providing a temperature range of 0°C - 832°C.



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