

# Bray Controls, India



## Plant & process overview

Valve OEM supplying knife edge gate valves to Oil & Gas, Power Generation, Mining, Pulp & Paper and other industries

## Equipment:

Knife edge gate valves handling very hot and abrasive media

## Operating conditions:

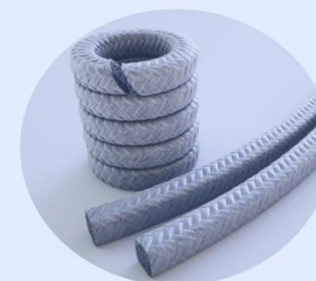
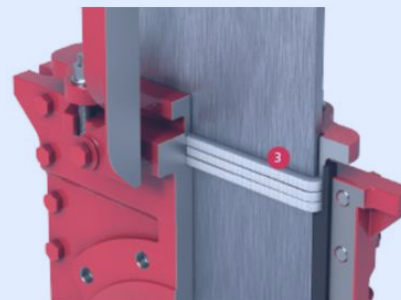
Media: hot ash, dry and hot abrasive slurry applications  
Temperature: up to 1000°C / 1832°F  
Shafts: shut off plate sealed typically with 3 layers of packing  
Speed: Not important  
Gland pressure: up to 10 bar (150 psi)  
Packing sizes (mm): Typically 8/10/12.5 mm square section

## Application requirements:

- ✓ Very hot and dry abrasive slurries up to 1000°C (1832°F)
- ✓ Tight groove corners, which require adoptable packing
- ✓ Ability the packing to be easily replaced (graphite based packing tend to harden and are very difficult to remove)
- ✓ Ability packing to minimise friction during operation (reciprocating movement)

## Solution:

Unique construction of Lionpak 9601 that can withstand up to 1000°C (1832°F) temperature, has got very good abrasion resistance to dry and hot slurries and has got excellent flexibility enabling the product to adopt well to the groove corners (readily forms a circular section when required). It has also got unique high temperature lubrication package that helps during valve maintenance.



## Benefits to the customer:

- ✓ Exceptional sealability at very harsh conditions over long service life (1-2 years).

## Benefits to James Walker:

- ✓ Re-occurring orders due to OEM serial production
- ✓ Relatively large volume due to large shut off plate sizes
- ✓ Good sales value and GM position (£20-30k+ per annum)

<https://www.bray.com/knife-gate/bidirectional/series-740-knife-gate-valve>