



## IsoTech® Parallel Slide Gate Seat-Protected Valves

IsoTech®, ValvTechnologies' parallel slide gate (PSG) valve, addresses advanced design features and benefits and the need for true in-line valve reparability in large diameter, high-energy piping systems resulting from those enhancements. Specifically designed for steam and feedwater applications, IsoTech® valves provide bi-directional, zero-leakage using our exclusive HVOF RiTech® hardcoating processes.

- **4** 36"
- ANSI/ASME Class 150 4500
- Four-year, zero-leakage guarantee

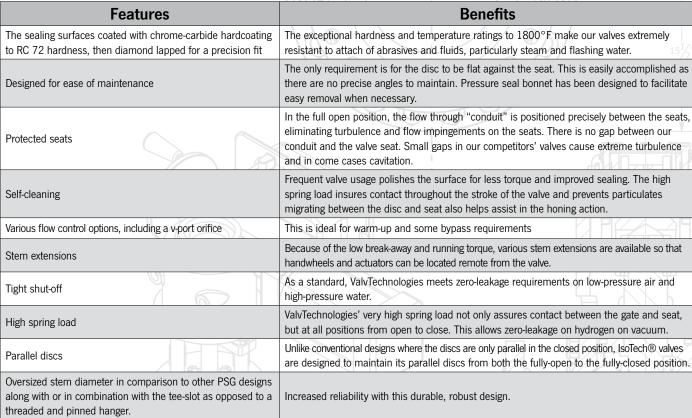
### **Applications\***

IsoTech® valves are built to withstand the most severe applications.

High-pressure, high-temperature, high-cycle, abrasive, corrosive and caustic media have all been considered in the design of our product line.

- Main steam isolation
- HP heater isolation
- Cold reheat isolation
- Feedwater isolation
- LP heater isolation
- Hot reheat

# ValvTechnologies provides field proven solutions for severe service applications.



<sup>\*</sup>partial application list

## Integral Seat, Four-Year Zero-Leakage Guarantee

#### 1. Bonnet area

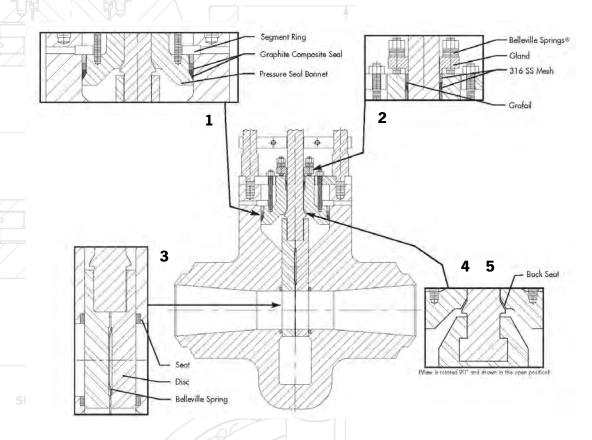
The pressure seal bonnet has been designed with a graphite composite seal. The bonnet has sufficient mechanical bolting to ensure the seal does not relax during periods when the system is not pressurized. In addition to the high reliability of the seal, the bonnet area has been designed to minimize the problems associated with maintenance on large gate valves by oversizing the segment rings. The valve has been designed so that the bonnet does not have to be forced in to the valve bonnet throat to allow for the segment rings to be removed. The large bolting used to ensure that the pressure seal is always loaded has also been utilized to enable simple disassembly of the bonnet once the easy-to-extract segment rings have been removed.

#### 2. Gland area

The gland design is similar to the standard design employed throughout the ValvTechnologies' valve product line. It features additional graphite due to the sliding stem. The stem and gland are hardcoated ground and polished. The packing is secured by our standard four-bolt minimum live loaded packing system which has 316SS woven wire mesh anti-extrusion rings compressing a Grafoil® center ring to ensure a dependable seal.

#### 3. Discs and seat area

The valve discs and seats have been hardcoated with the same chrome carbide coating (68-72 RC) as its counterpart ValvTechnologies' metal seated ball valves. These seats are magnitudes harder than Stellite 6, (typically 34-38 RC), and are lapped to achieve zero-leakage under full differential pressure conditions, including vacuum. The large Inconel Bellville® spring load ensures a high initial seal with the line pressure increases assisting the sealing. The chrome carbide hardcoated web guide ensures the discs are kept parallel through the entire valve stroke, whether the valve is in the open or closed position, overcoming a common gate valve problem. As the valve is cycled under differential pressure, the extremely hard surfaces continually burnish and polish each other rather than scratching and galling.



#### 4. Back seat area

The back seat is hardcoated with chrome carbide (typical hardness 68-72 RC) and polished to achieve zero-leakage.

#### 5. T-slot and oversized diameter stem

Lends to the durability and robust design

# **Zero-leakage Valve Solutions**





















### P2/

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