

Pressure Seal valves

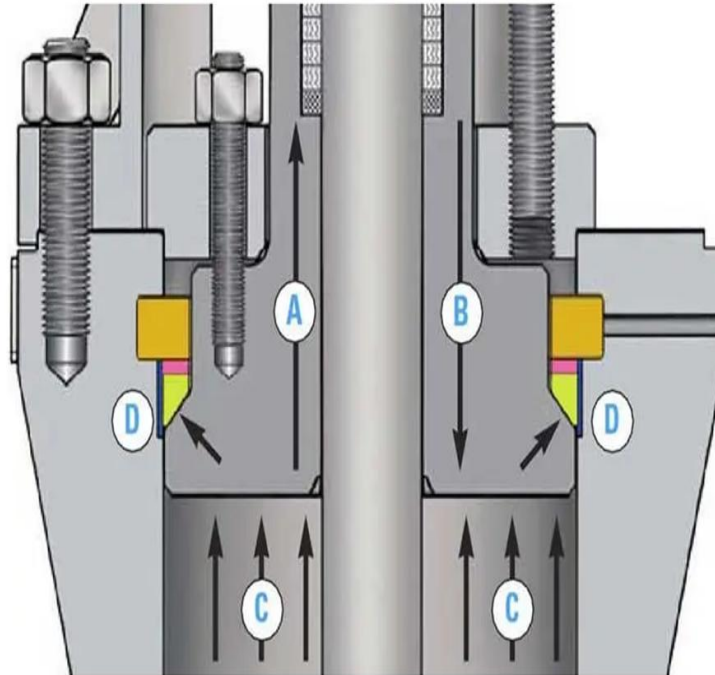
Valves intended for high pressure service—typically above 170 bar—use pressure seal construction. Unlike other constructions where an increase in internal pressure tends to cause leaks in the body-Bonnet joint, the unique feature of the pressure seal valve is that the sealing force increases with increasing internal pressure. The Bonnet assembly can be easily disassembled by dropping it into the body cavity and using a push pin to drive out the four-segmental thrust rings.

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Pressure Seal valves

Bolted Bonnets vs.
Pressure Seals

Pressure Seal Gaskets



- A/B - Bonnet tendency to move up or down as pressure changes
- C - System pressure
- D - Sealing forces due to pressure