Hi-Flo™ RS Valve
(Replaceable Seat Valve)

Developed specifically for customers who are operating compressors installed in offshore production platforms, FPSOs and facilities where no maintenance workshops are available, the Hi-Flo™ Replaceable Seat valves by CPI, part of the Howden group, eliminate the need for off-site reconditioning. The design incorporates a replaceable seat that can be quickly and easily removed and installed without the use of special tools.

**DESIGN FEATURES**
- Valve housing — Stainless steel for corrosion resistance
- Valve rings — Radiused disc design provides better gas flow
- Springs and buttons — Durable and corrosion resistant
- Replaceable seat — Eliminates wear to the valve housing

**NOTE:** Rebuild kit includes replaceable plate, new valve discs, springs and buttons.
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FEATURES

• Simplifies maintenance at remote or hazardous compressor operations
• Performs well under severe operating conditions as well as in processing of gases that contain liquid slugs and debris
• Eliminates need for spare valve inventory, reducing operating costs
• Easily reconditioned
  - No reduction in valve seat thickness
  - No adjustment is needed if unloader fingers are fitted
  - No special tooling or presses needed to remove the seat plate
• Reliable in oil, gas, petrochemical and air separation industries
• Non-replaceable components are produced in stainless steel to prevent corrosion
• Nose diameter — 75 mm/2.95 in and up
• Capable of operating across a wide range of parameters, including:
  - temperatures up to 200°C/390°F
  - pressures up to 250 bar/3625 PSI
• Made with highly durable PEEK-based material
• Suitable for:
  - both lubricated and non-lubricated compressors
  - sour gas applications
  - compressor speed over 1200 RPM

CPI provides comprehensive compressor valve performance analysis.

Radiused Disc Ring Design

Gas flow diagram