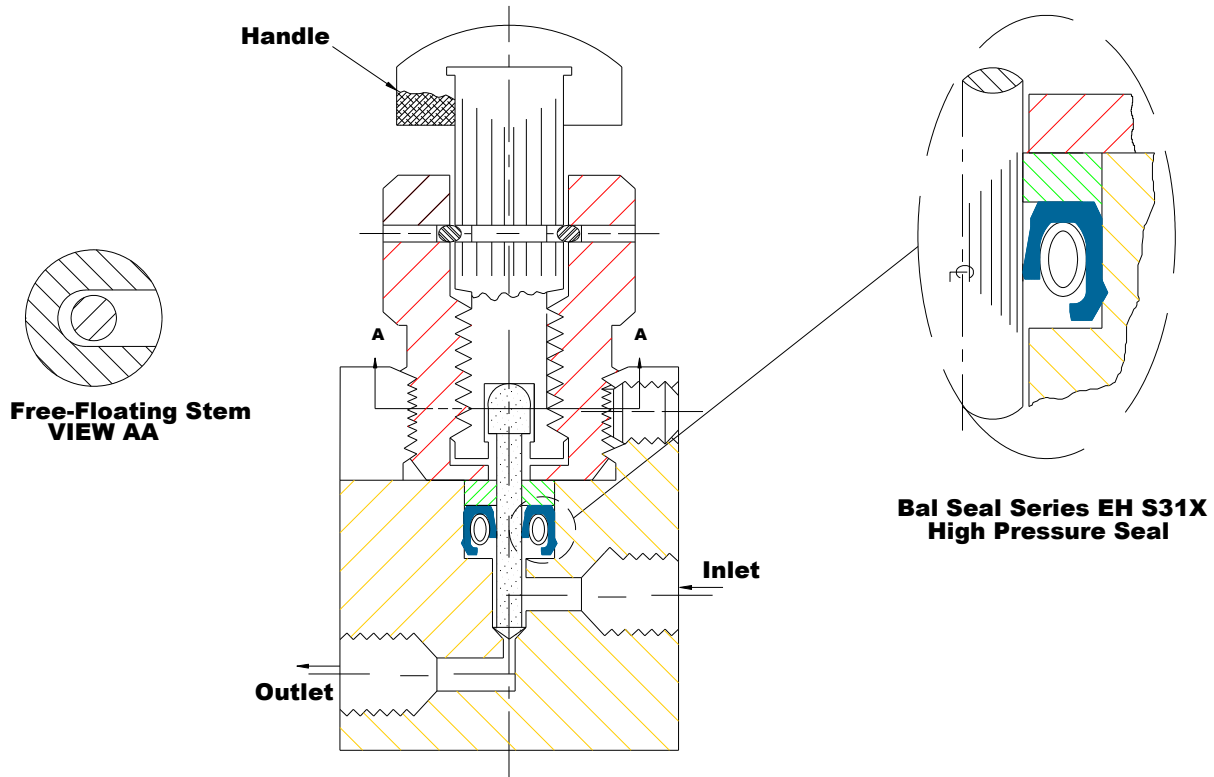


BAL SEAL® SEALS IN TWO-WAY NEEDLE VALVES

Needle valves regulate high-pressure fluid flow in air, water, hydraulic oil, and other fluids. The fluid going through the needle valve turns 90° and passes through an opening, which is the seat for the needle-shaped valve stem. To control the flow rate, the turning handle gradually changes the size of the opening.



Operating Parameters

Pressure: Vacuum to 3,000 psi (211 kg/cm²)
Temperature: -70°F to 250°F (-57°C to 121 °C)
Media: Corrosive fluids
Features: Compatible with most fluids

Seal Selection:

A series EH-S31X high-pressure Bal Seal® assembly provides reliable valve stem sealing to 3,000 psi (211 kg/cm²) at 70°F (21°C). A P-40 high-performance polymer back-up ring, designed to minimize extrusion at higher pressures, supports the high-pressure seal.

The sealing jacket is made from Bal Seal GFPA, a graphite-fiber-reinforced PTFE compound made especially for high-pressure service.

For more information and technical assistance, consult the Technical Sales Department.

PATENTS: The items described in this page include products that are the subject of issued United States and foreign patents or products where patents are pending, including the following: Patents 6,641,141 B2; 7,210,398 B2; 6,161,838; 5,992,856; 5,134,244

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