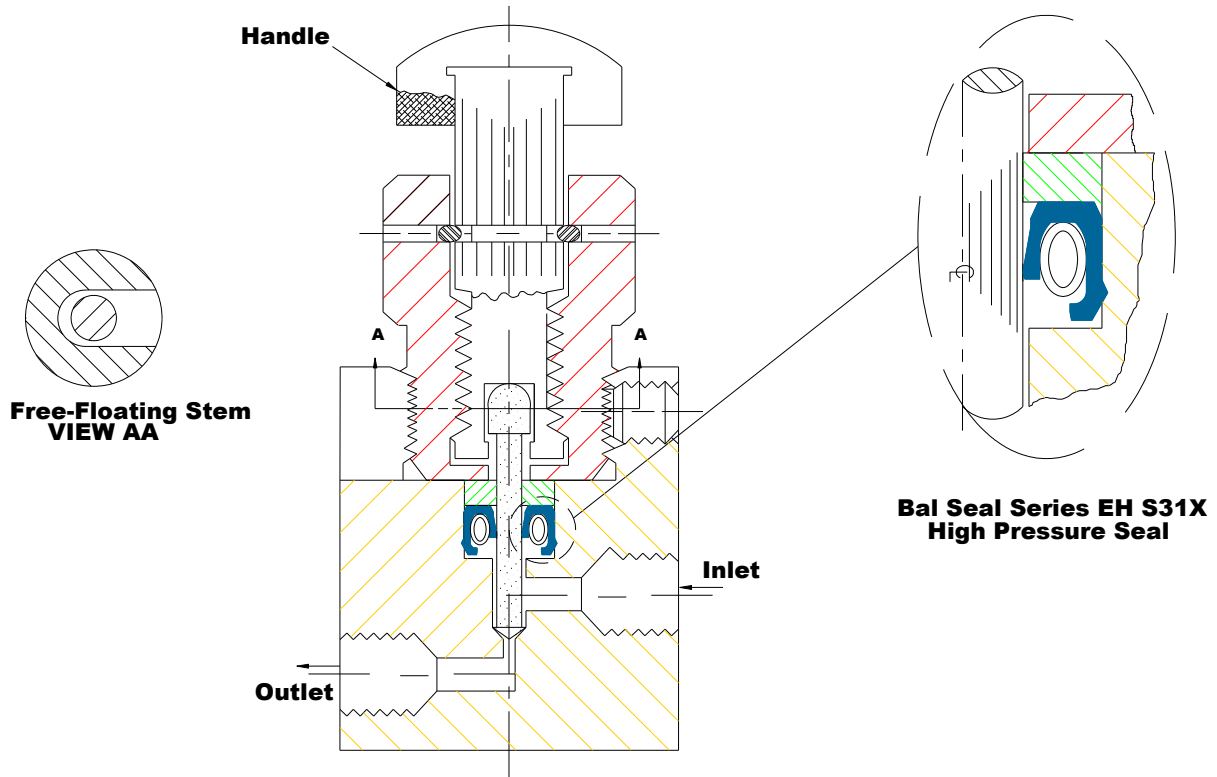


BAL SEAL® SEALS IN TWO-WAY NEEDLE VALVES

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, contact a technical sales representative.

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

U.S. Address 19650 Pauling Foothill Ranch, CA 92610-2610 • Telephone: (949) 460-2100 • Fax: (949) 460-2300
BV Address: Jollemanhof 16, 5th floor • 1019 GW Amsterdam • The Netherlands • Telephone: 31 20 638 65 23 • Fax: 31 20 625 60 18
Bal Seal Engineering, Inc. is certified to ISO 9001 | www.balseal.com