



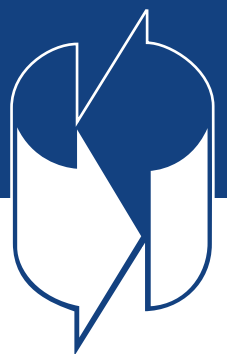
BENTLEY

CREATIVE ENGINEERED SOLUTIONS FOR SUBSEA DEVELOPMENTS



SUBSEA ROTARY GATE VALVE

www.lb-bentley.com



The Bentley Rotary Gate Valve is a revolution in small bore subsea valve technology.

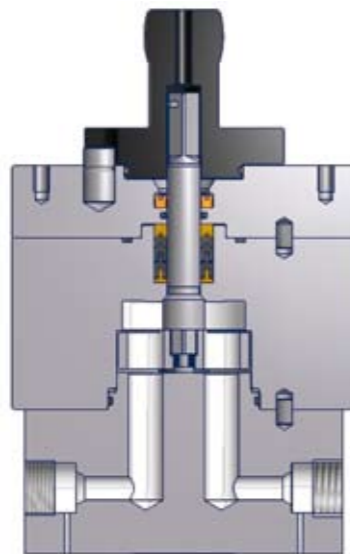
The unique design allows one valve to suit many applications. Isolation, block before/after bleed, diverter and other configurations can be contained in one robust and simple valve design. All types can be contained within the same size body and use identical stems, seals, ROV interfaces giving true cost savings. Valve standardisation and rationalisation can be taken to new levels.



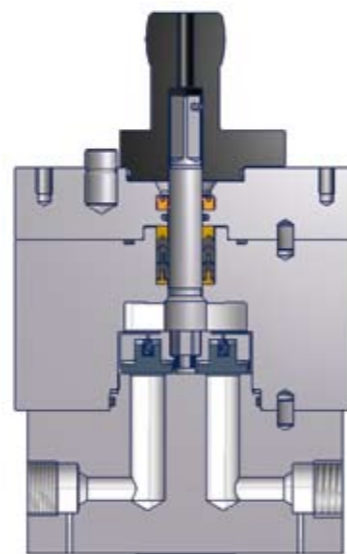
The Rotary Valve has **100% continuous metal-to-metal sealing** and a gate to seat self-cleaning wiping action providing positive sealing and less wear for the dirtiest of fluids.

The valve design and performance is enhanced by the unique rotary principle. Due to the no-volume displacement design the valve is essentially water depth insensitive. It overcomes many problems which can cause much time and additional cost to the user.

OPEN



CLOSED



Even in the event of an over-torque situation, the valve internal cannot be damaged, allowing the valve to continue to function and seal as normal. ROV/Diver operation is simplified by quarter turn operation giving clear position indication. *The Rotary valve internals cannot be damaged by over-torqueing the valve during ROV operation. Even if the stop pin is sheared the valve will continue to rotate and function as normal. The valve can then be parked in the open or closed position visually.*

Founded on LB Bentley's wide experience in the manufacture of subsea gate valves specialising in metal-to-metal sealing technology, the Rotary Valve follows on from a long line of worldwide field-proven successes - a high quality, creative solution to small subsea valve problems.

Manual and hydraulic with manual override versions are available.



Simple Quarter Turn gives clear positional indication

FEATURES

Bentley's rotary valves can be supplied in numerous combinations and types of inlet/outlet, operators, interfaces and mountings.

Sizes Available

- 3/8 inch
- 1/2 inch
- 3/4 inch

Service

- Control fluids, well fluids containing H₂S/CO₂ gas, injection chemicals



Operating Interface

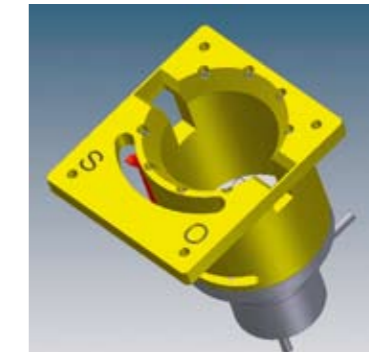
- Hydraulic Operator with Manual Override. Manual Tee bar operation or ROV interface

Available Connections

- Threaded
- Welded
- Flanged
- Manifold mounted

Metal-to-Metal Sealing

- Gate/Seat
- Seat/Body - with elastomeric environmental seal
- Stem/Body (primary) - with chevron seal set (secondary)



Multiple Valves

Available in Mono Block, e.g. double block and bleed or several valves as required for chemical injection manifolds.

TECHNICAL SPECIFICATIONS

Pressure Ratings (standard valves)

- 5,000 psi
- 10,000 psi
- 15,000 psi
- 16,500 psi

Operating Depth

- 3,000 m

Performance Verification

- Tested to API 6A appendix F PR2

Temperature Range

- -20°F (-29°C) to +275°F (+135°C)

Design Life

- 30 years

Hydraulic Operating Pressures

- 3,000 psi
- 5,000 psi



Typical Materials

- Available in API material classes FF to HH and NACE MR-0175/ISO 15156

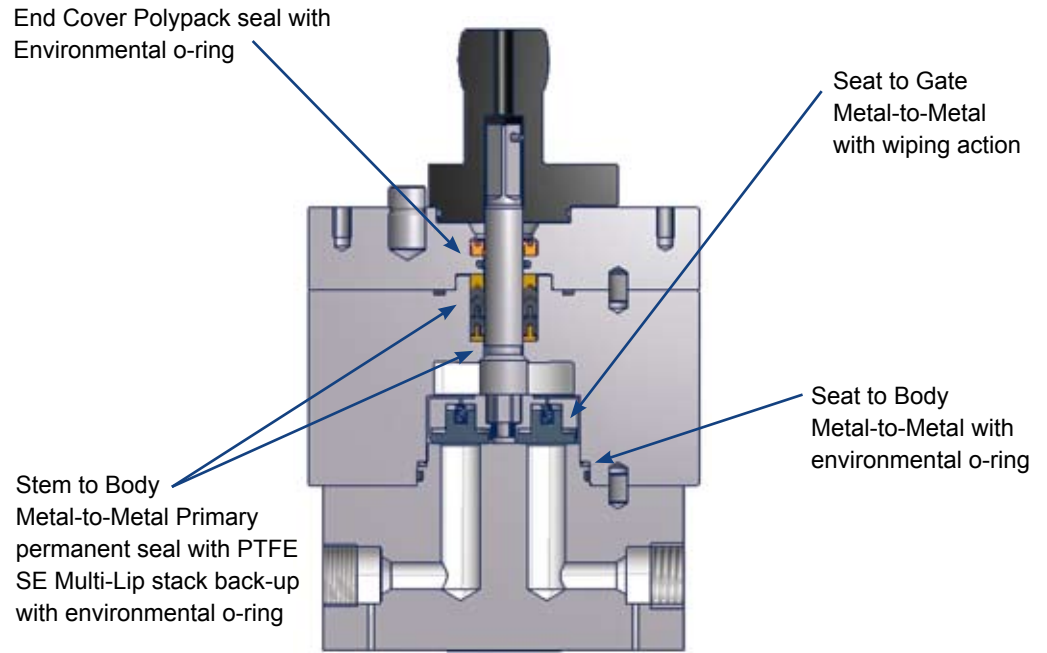


Acceptable Torque (without damage)

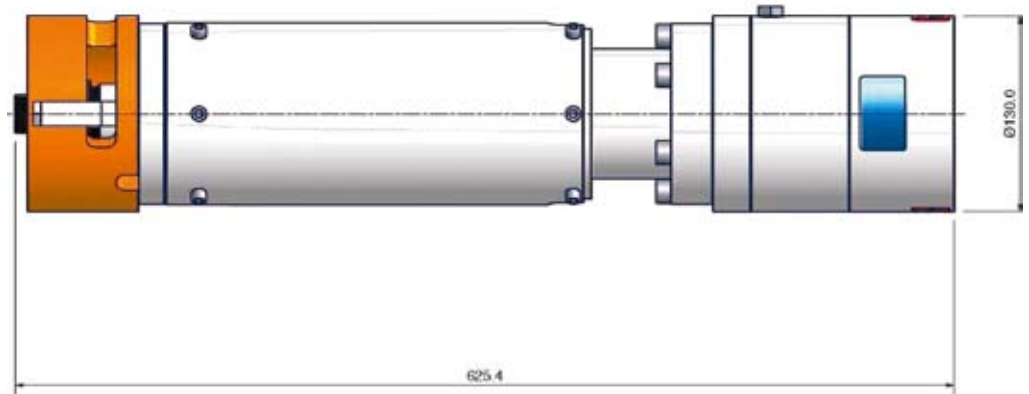
- 250 lb.ft. [340Nm] Higher capacities available if required



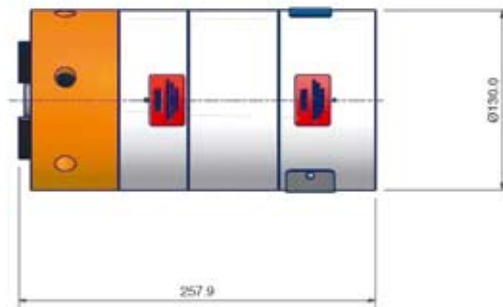
100% CONTINUOUS METAL SEALING



½" Hydraulically Operated Rotary Gate Valve with Manual Override
Approx. Weight - 44 Kg



½" ROV Operated Rotary Gate Valve
Approx. Weight - 18 Kg



BENTLEY

Kingfisher Business Park, London Road, Stroud, Gloucestershire, GL5 2BY, UK

Tel: +44 (0) 1453 733060 Fax: +44 (0) 1453 733061

Email: sales@lb-bentley.com Web: www.lb-bentley.com