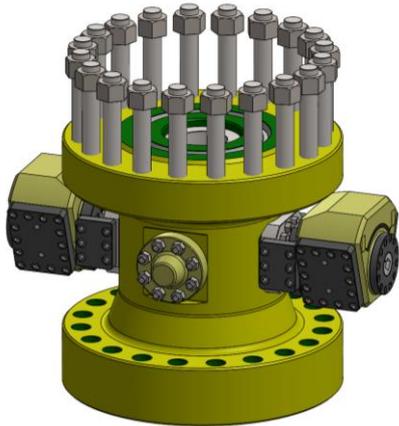


6.375" 15,000 PSI OPEN WATER VALVE (IL-0164)



Hydraulically operated, compact, shear and seal Revolution Valve designed with high cutting performance and reliable post-cut sealing.

Features:

- Unidirectional coiled tubing cutting valve with recirculation capability.
- Demountable actuators to facilitate in-situ maintenance.
- Compact & lightweight design.
- Separate cutting and sealing components in a single device.
- Internals can be inverted for Retainer Valve operation.

Design Data

| | |
|-----------------------------|---|
| Nominal Bore Diameter | 6 $\frac{3}{8}$ " (161.9 mm) |
| Design Wellbore Pressure | Working: 15,000 psi (103.4 MPa) Test: 22,500 psi (155.1 MPa) |
| Design Standard | API 6A (ISO 10423) : 20 th Edition : 2010 |
| Temperature Class (Design) | API 6A Class U (0°F to 250°F / -18°C to +121°C) |
| Service | Sour – IN accordance with ISO 15156 (NACE MR0175) |
| Material Class | HH, c/w CRA inlaid ring grooves, seat pockets & stem penetrations. Low alloy steel flapper, seat & stems. |
| Product Specification Level | PSL 3G |
| Shearing Class | Wireline / Coiled Tubing |

Performance Data

| | |
|------------------------------------|--|
| Maximum Hydraulic Pressure | 5,000 psi (34.5 MPa) |
| Actuator Volume (Total, Approx.) | 3.6 litres |
| Acceptable Hydraulic Fluid | All common water or oil-based control fluid |
| Wireline Cutting Capabilities | All common slickline, e-line and braided cable grades |
| Coiled Tubing Cutting Capabilities | 100ksi min yield, up to 2 $\frac{3}{8}$ " x 0.224" wall thickness 110ksi min yield, up to 2 $\frac{3}{8}$ " x 0.203" wall thickness 130ksi min yield, up to 2" x 0.203" wall thickness |

Weight and Dimensions

| | |
|----------------------------|---------------------|
| Overall Height (Nominal) | 33.50" (850.9 mm) |
| Overall Length (Nominal) | 49.20" (1 249.7 mm) |
| Overall Width (Nominal) | 34.88" (886.0 mm) |
| Gross Dry Weight (Approx.) | 6,525 lb (2 960 kg) |

Valve Interfaces

| | |
|------------------------|---|
| Design Standard | API 6A (ISO 10423) |
| Upper End Connection | Flange - 13-5/8" 15K 6BX Studded Flange, BX 159 |
| Lower End Connection | Flange - 13-5/8" 15K 6BX Open Flange, BX 159 |
| Side Outlet Connection | Flange - 2-1/16" 15K 6BX Studded Flange, BX 152 |

Structural Capacities

| | | |
|-------------------------|-----------------------------|-------------------------|
| Maximum Tension @ RWP | 800 kip (3 550 kN) * | |
| Maximum Moment @ RWP | 400 ft kip (540 kN m) * | |
| Maximum Tension @ 0 ksi | 4,700 kip (20 900 kN) * | |
| Maximum Moment @ 0 ksi | 2,300 ft kip (3 110 kN m) * | * As defined in API 6AF |

Validation Level

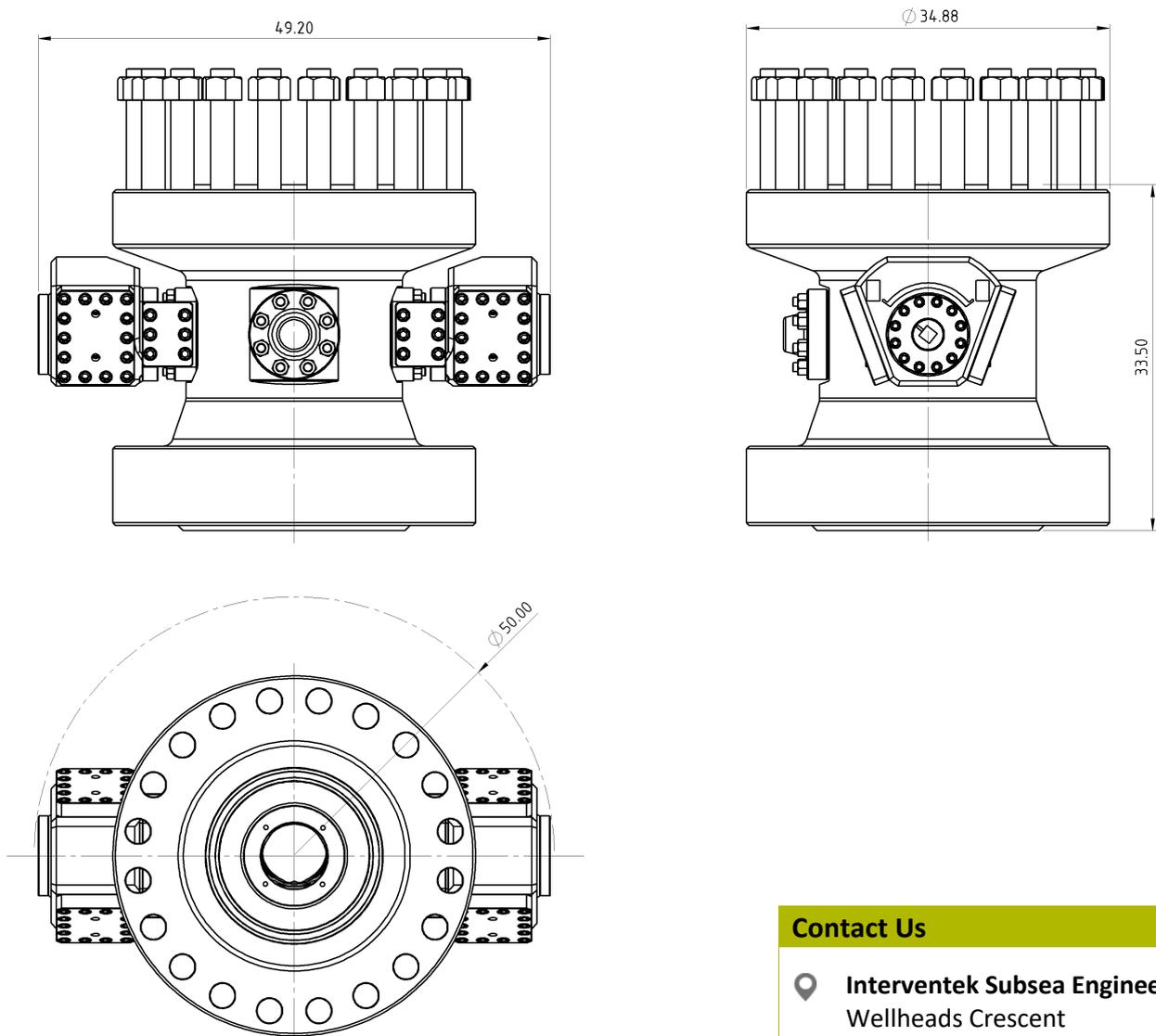
| | |
|---------------------------------|---|
| Design Validation Level | API 6A Annex F PR1, See notes |
| Temperature Class (Operational) | API 16A Class FAA (40°F/150°F/180°F or 4°C/66°C/82°C) |
| Shearing | API 16A Annex C.2.3 (Shear Ram Test) |

Notes

API 6A, Annex F, Section F.2.2.2.2 – Dynamic Testing at Room Temperature

This valve is not designed with differential pressure breakout capability, therefore the dynamic test performed with be in line with F.2.2.2.2, Check Valves and not F.2.2.2.1 Gate or Plug Valves.

Product Layout Drawing



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