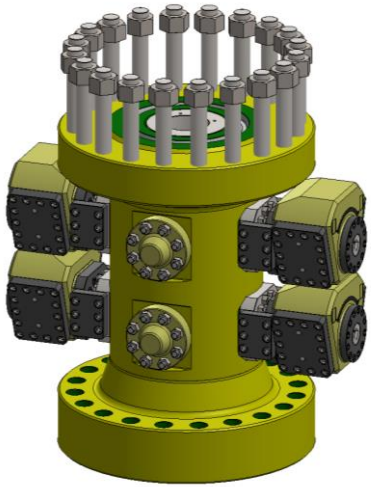
6.375” 15,000 PSI
DUAL OPEN WATER VALVE (IL-0169)



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

Features:

- Dual unidirectional coiled tubing cutting valves with recirculation capability.
- May be reconfigured to accept bi-directional ball valve in upper slot
- Demountable actuators to facilitate in-situ maintenance.
- Compact & lightweight design.
- Separate cutting and sealing components in each single Revolution device.

Design Data

Nominal Bore Diameter	6⅜” (161.9 mm)
Design Pressure	Working: 15,000 psi (103.4 MPa) Test: 22,500 psi (155.1 MPa)
Design Standard	API 6A (ISO 10423) : 20th 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, with CRA inlay limited to ring grooves, seat pockets & stem penetrations. Low alloy steel flapper, seat & stems.
Product Specification Level	PSL 3G
Shearing Class (Upper Valve)	Wireline / Coiled Tubing
Shearing Class (Lower Valve)	Wireline / Coiled Tubing

Performance Data

Maximum Hydraulic Pressure	5,000 psi (34.5 MPa)
Actuator Volume (Total, Approx.)	3.6 litres per valve
Acceptable Hydraulic Fluid	Any water or oil based control fluid
Wireline Cutting Capabilities	All common slickline, e-line and braided cable grades plus
Coiled Tubing Cutting Capabilities	100ksi min yield, up to 2 ⅜”x 0.224” wall thickness 110ksi min yield, up to 2 ⅜”x 0.203” wall thickness 130ksi min yield, up to 2”x 0.203” wall thickness

Weight and Dimensions

Overall Height (Nominal)	46.25” (1 174.8 mm)
Overall Length (Nominal)	49.20” (1 249.7 mm)
Overall Width (Nominal)	34.88” (886.0 mm)
Gross Dry Weight (Approx.)	8,510 lb (3 860 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 Upper	Flange - 2-1/16” 15K 6BX Studded Flange, BX 152
Side Outlet Connection Upper	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

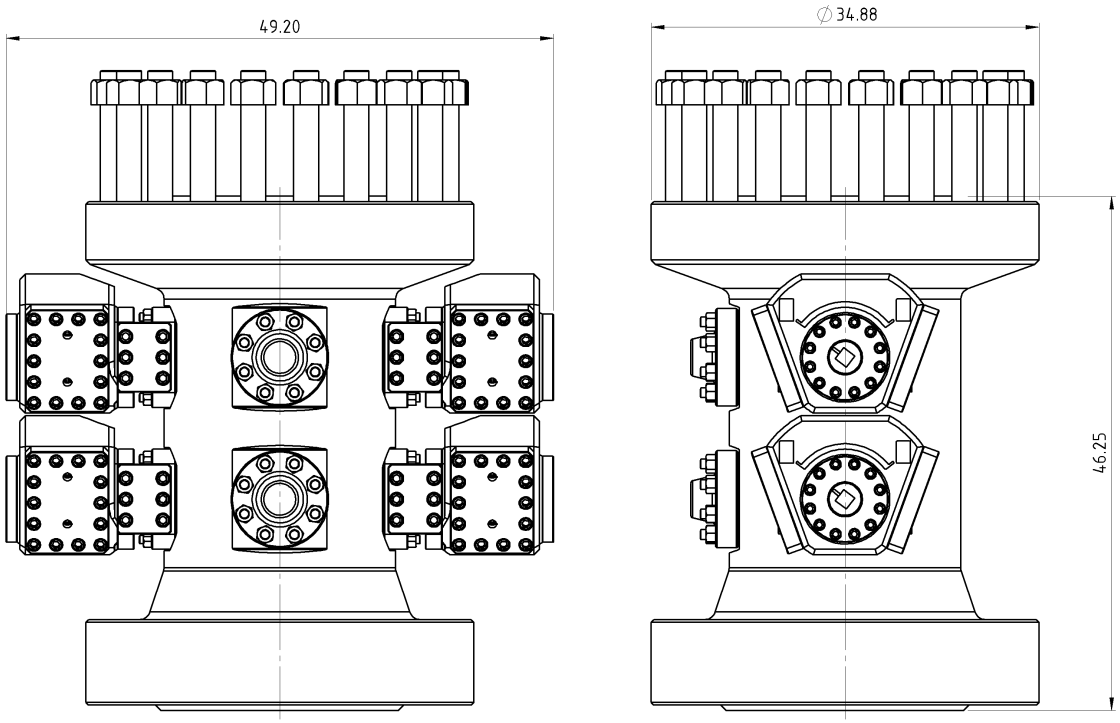
Design Validation Level	API 6A Annex F PR1, See notes
Temperature Class (Operational)	API 16A Class FAA (40°F/150°F/180°F or 4°C/66°C/82°C)
Shearing	API 16A Annex C.2.3 (Shear Ram Test)

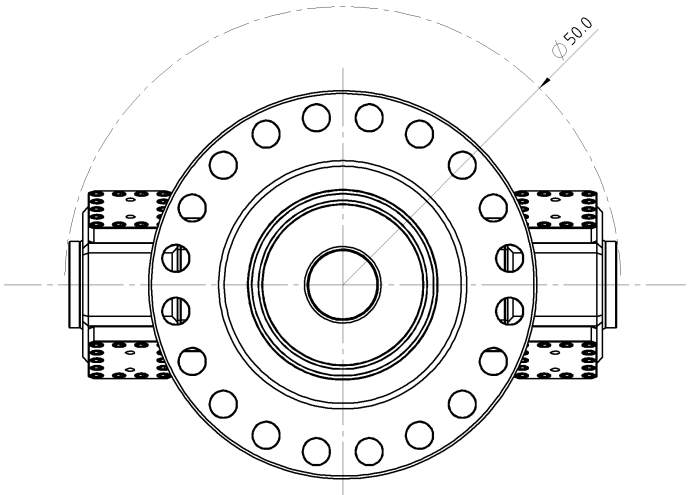
Notes

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.2.2.2.2.2, Check Valves and not F.2.2.2.2.1 Gate or Plug Valves.

Product Layout Drawing





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