

HYDRAULICALLY OPERATED, COMPACT, SHEAR AND SEAL REVOLUTION VALVE DESIGNED WITH HIGH CUTTING PERFORMANCE AND RELIABLE POST-CUT SEALING FOR RAM REPLACEMENT.

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.**

DESIGN DATA

Nominal Bore Diameter	13.625" (346 mm)
Design Pressure	Working: 15,000 psi (103.4 MPa) Test: 22,500 psi (155.1 MPa)
Design Standards	API 17G 3 rd Edition 2019 (API 17W 2 nd 2021, API 6A 21 st 2018, API 17D 2 nd 2011)
Operating Temperature Class	Possible: 0°F to 350°F / -18°C to +177°C (API 6A Class X)
Design Temperature Range	Expected: 27°F to 250°F / -3°C to +121°C
Service	Sour
Material Class	EE
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.)	3.3 gal (12.5 litres)
Acceptable Hydraulic Fluid	Any water or oil based control fluid
Wireline Cutting Capabilities	All common slickline, e-line and braided cable grades
Coiled Tubing Cutting Capabilities	Expected: 130ksi min yield, up to 2.875" x 0.156" wall thickness

WEIGHT AND DIMENSIONS

Valve Height (Nominal)	56.0" (1422.4 mm)
Overall Length (Nominal)	69.75" (1771.65mm)
Overall Width (Nominal)	73.5" (1866.9 mm)
Gross Dry Weight (Approx.)	23,872 lb (10,828kg)

VALVE INTERFACES

Design Standard	API 6AF2 5 th Edition, 2013
Upper End Connection	Flange – 18-3/4" 15K 6BX Studded Flange, BX 164
Lower End Connection	Flange – 18-3/4" 15K 6BX Open Flange, BX 164
Side Outlet Connection (Optional)	Flange – 3 1/16" 15K 6BX Studded Flange, BX 154

STRUCTURAL CAPACITIES

Maximum Tension @ RWP	1,810 kip (8,051 kN)
Maximum Moment @ RWP	1,210 ft kip (1,641 kN m)
Maximum Tension @ 0 ksi	8,820 kip (39,233 kN)
Maximum Moment @ 0 ksi	5,910 ft kip (8,012 kN m)

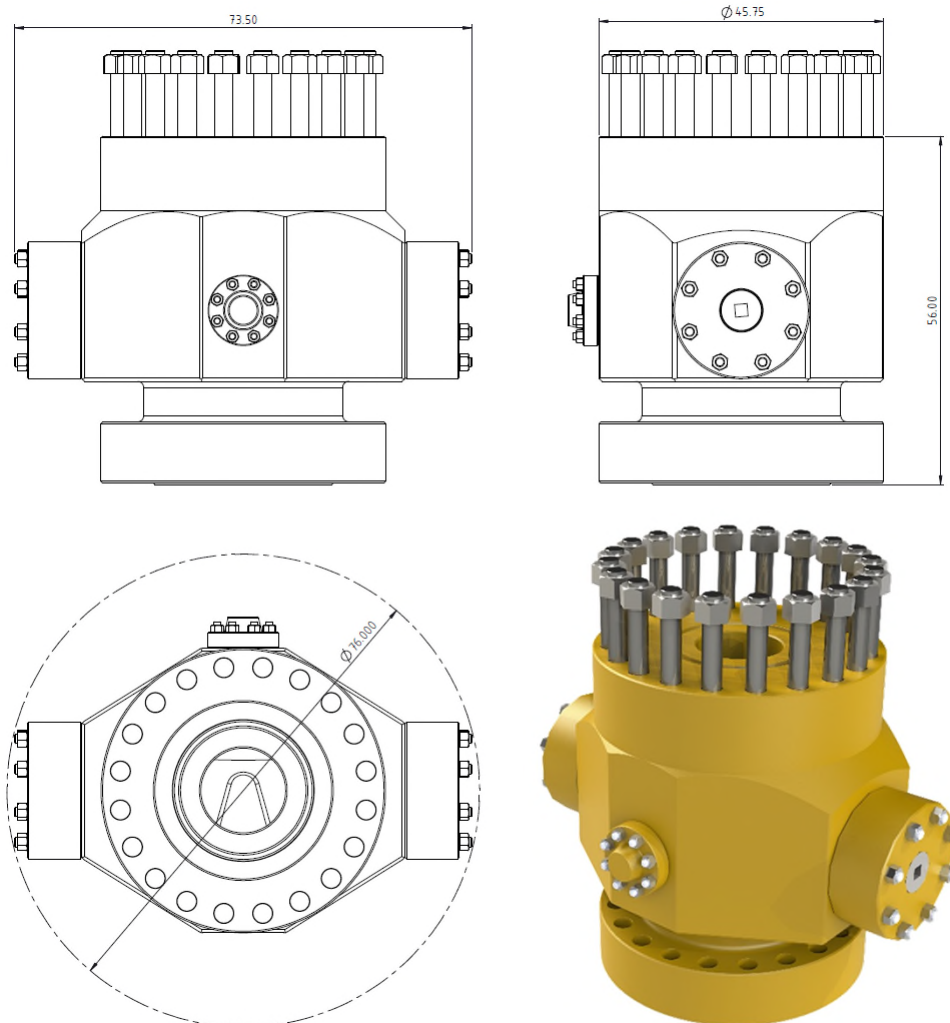
VALIDATION LEVEL

Service Specification Level	API 17G SSL-Gas
Water Depth	10,000 ft (3,048 m)
Shearing	API 17G Shear and Seal Class

NOTES

- The design temperature ratings are based on successful pre-existing qualification
- Structural capacities are extrapolated taken from API 6AF2 for the end connections only. Internal connection limits TBC
- This valve is unidirectional and not designed to perform differential breakout

PRODUCT LAYOUT DRAWING



The information in this document is uncontrolled and subject to change without notice.

CONTACT US: Interventek Subsea Engineering Ltd.

Unit 4 International View, ABZ Business Park, Dyce, ABERDEEN AB21 0BJ

+44 (0)1224 518 509 enquiries@interventek.com www.interventek.com

