



**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.**

## DESIGN DATA

<b>Nominal Bore Diameter</b>	6 3/8" (161.9 mm)
<b>Design Pressure</b>	Working: 15,000 psi (103.4 MPa)      Test: 22,500 psi (155.1 MPa)
<b>Design Standards</b>	API 6A 20 <sup>th</sup> Edition (ISO 10423) 2010, ISO 13628-7 2006, API 17G 3 <sup>rd</sup> Edition 2019
<b>Temperature Class (Design)</b>	API 6A Class U (0°F to 250°F / -18°C to +121°C)
<b>Service</b>	General
<b>Material Class</b>	AA, with CRA inlaid ring grooves, seat pockets & stem penetrations. Low-alloy steel valve bore sealing mechanism (flapper & seat) & stems.
<b>Product Specification Level</b>	PSL 3G
<b>Shearing Class</b>	Wireline / Coiled Tubing

## PERFORMANCE DATA

<b>Maximum Hydraulic Pressure</b>	5,000 psi (34.5 MPa)
<b>Actuator Volume (Total, Approx.)</b>	3.6 litres per valve
<b>Acceptable Hydraulic Fluid</b>	Any water or oil based control fluid
<b>Wireline Cutting Capabilities</b>	All common slickline, e-line and braided cable grades
<b>Coiled Tubing Cutting Capabilities</b>	<u>Tested</u> 2.00" OD x 0.175" wall thickness, GT-90 Coiled Tubing c/w 0.464" 7-46P XS Cable 1.75" OD x 0.175" wall thickness, QT-1300 Coiled Tubing c/w 0.464" 7-46P XS Cable <u>Indicative Predicted</u> 100ksi min yield, up to 2 3/8" x 0.224" wall thickness 110ksi min yield, up to 2 3/8" x 0.203" wall thickness 130ksi min yield, up to 2" x 0.203" wall thickness

## WEIGHT AND DIMENSIONS

<b>Overall Height (Nominal)</b>	33.50" (850.9 mm)
<b>Overall Length (Nominal)</b>	48.37" (1 228.6 mm)
<b>Overall Width (Nominal)</b>	34.88" (886.0 mm)
<b>Gross Dry Weight (Approx.)</b>	6,407 lb (2 906 kg)

## VALVE INTERFACES

<b>Design Standard</b>	API 6AF2 5 <sup>th</sup> Edition, 2013
<b>Upper End Connection</b>	Flange – 13 5/8" 15K 6BX Studded Flange, BX 159
<b>Lower End Connection</b>	Flange – 13 5/8" 15K 6BX Open Flange, BX 159
<b>Side Outlet Connection (Optional)</b>	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 6AF2

## VALIDATION LEVEL

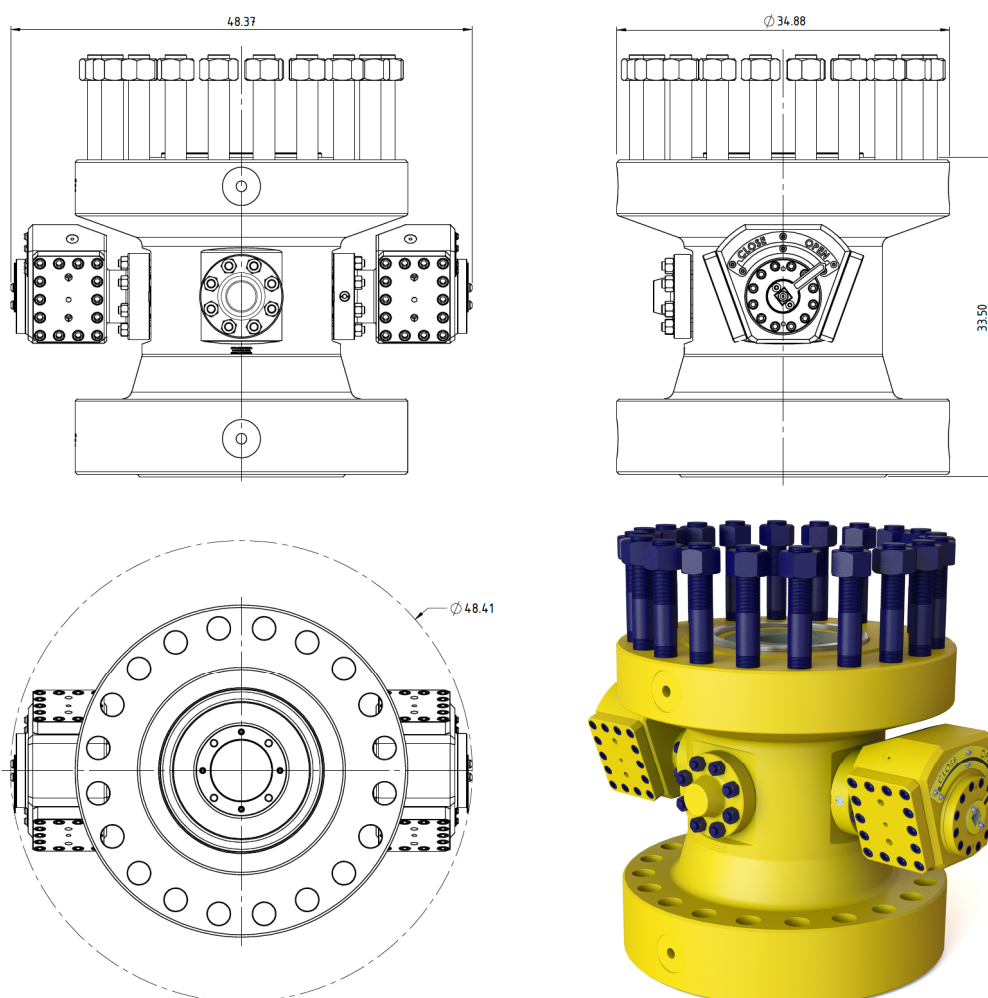
Service Specification Level	API 17G SSL-Gas		
Temperature Class (Operational)	Valve:	0°C to +92°C	Actuator: +2° to +66°C
Water Depth	10,000 ft (3,048 m)		
Shearing	API 17G Shear and Seal Class		

## 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 will 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 LAYOUR DRAWING



Document Reference

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

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