

HYDRAULICALLY OPERATED, FAIL-AS-IS, SHEAR AND SEAL REVOLUTION VALVE DESIGNED WITH HIGH CUTTING PERFORMANCE AND RELIABLE POST CUT SEALING.

Features:

- ▷ Unidirectional valve with pump through capability.
- ▷ Separate cutting and sealing components in a single device.
- ▷ Fewer, simpler components and stronger fit-for-purpose design.
- ▷ Compact & lightweight design.
- ▷ Elastomeric Wellbore Sealing.
- ▷ Pass Through Ports with Techsys #4 TSI Interface (18 off).

DESIGN DATA

Nominal Bore Diameter	6 3/8" (161.9 mm)
Design Pressure	WORKING: 15,000 psi (103.4 MPa) TEST: 22,500 psi (155.1 MPa)
Design Standard	ISO 10423 (API 6A)
Temperature Class	U (0°F to 250°F / -18°C to +121°C)
Service	Sweet
Material Class	AA
Product Specification Level	PSL 3G
Design Validation Level	PR1 (Modified)
Shearing Class	Wireline / Coiled Tubing

PERFORMANCE DATA

Maximum Hydraulic Pressure	10,000 psi (68.9 MPa)
Actuator Volume (Approx.)	0.4 U.S. gallons (1.5 litres)
Acceptable Hydraulic Fluid	Any water or oil based control fluid
Cutting Capabilities	1 off 7/32" E-Line; 1 off 5/16" E-Line; 1 off 0.472" Hepta Cable; 1 off 0.520" Hepta Cable; 1 off 2.000" OD x 0.156" WT 100 ksi Coil Tubing
Hydraulic Ports	18 off dedicated 15 ksi, 0.312" through ports 4 off shared 10 ksi, 0.312" through ports (2 shared with open chambers & 2 shared with close chambers)
Hydraulic Interfaces	Techsys #4 TSI Fitting Profile (TIS/FT/5000)

WEIGHT AND DIMENSIONS

Overall Height (Nominal)	32.45" (824 mm)
Overall Diameter (Nominal)	18.5" (470 mm)
Gross Dry Weight (Approx.)	1,687 lb (765 kg)

STANDARD INTERFACES

Upper End Connection	10" – 4 TPI Stub Acme Box
Lower End Connection	10" – 4 TPI Stub Acme Box

REFERENCE CODES & STANDARDS

ISO 13628-7 (API 17G)	Completion / Workover Riser System
ISO 13628-4 (API 17D)	Subsea Wellhead and Tree Equipment

STRUCTURAL CAPACITIES

Maximum Tension @ RWP	900 kip (4 003 kN)
Maximum Tension @ 0 ksi	A1,500 kip (6 672 kN)
Maximum Torsion	25 ft kip (33.8 kN m)
Maximum External Pressure	5,000 psi (34.5 MPa)* * Higher pressures may be acceptable in certain scenarios, contact Interventek for further details

TESTING

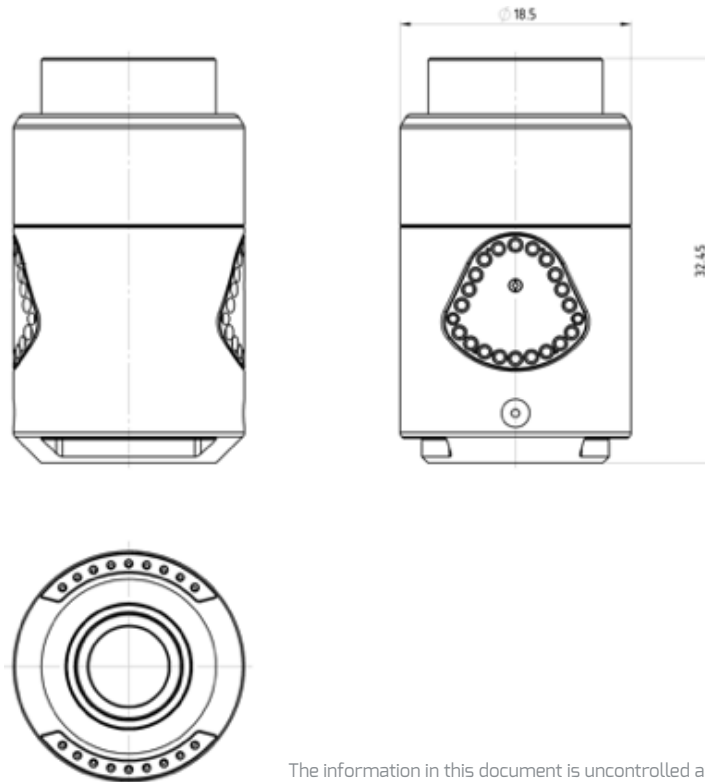
Product Verification (FAT)	API 6A, Clause 7.4.9.5 (PSL 3G)
Product Validation (Qualification)	API 6A, Annex F.2.2 (PR1 Modified) *
Product Validation (Cutting Trials)	Manufacturer Specified, IDP-0016 * * Mechanism identical to IA-0006, thus will be achieved by similarity

NOTABLE EXCEPTIONS

ISO 10423 (API 6A) – Dynamic Test

This valve is not designed to perform differential pressure breakout tests, performed under sections 7.4.9.5.6, F.2.2.2.1 and F.2.2.2.4. Therefore, tests involving opening under differential pressure are omitted, instead testing is performed at the rated working pressure, equalised across the valve

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

