

HYDRAULICALLY OPERATED, COMPACT OPEN WATER BALL VALVE DESIGNED WITH BIDIRECTIONAL SEALING

Features:

- ▷ **Bidirectional Ball Valve.**
- ▷ **Demountable actuator to facilitate in-situ maintenance, without disturbing drive shaft wellbore seals.**
- ▷ **Compact & lightweight design.**
- ▷ **Mechanical override interface.**
- ▷ **External Open and Closed indication.**

DESIGN DATA

Nominal Bore Diameter	7-3/8" (187.33 mm). Minimum thru bore 7.40" (187.96 mm)
Design Pressure	Working: 10,000 psi (68.9 MPa) Test: 15,000 psi (103.4 MPa)
Design Standards	API 17G 3 rd Edition 2019, API 6A 21 st Edition (ISO 10423) 2019, NACE MR0175
Temperature Class (Design)	API 6A Class U (0°F to 250°F / -18°C to +121°C)
Service	Sour
Material Class	EE, with CRA inlaid seal surfaces (bore wetted)
Product Specification Level	PSL 3G

PERFORMANCE DATA

Maximum Hydraulic Pressure	5,000 psi (34.5 MPa)
Actuator Volume (Total, Approx.)	Valve OPEN 0.1 Litres. Valve CLOSE 0.1 Litres
Acceptable Hydraulic Fluid	Any water or oil-based control fluid
ROV Override Torque Capacity	2,000 ft-lbf (2,711 Nm)

VALVE INTERFACES

Design Standard	API 6AF2 5 th Edition, 2013
Upper End Connection	Flange – 13-5/8" 10K API 6BX (BX-159) Studded
Lower End Connection	Flange – 13-5/8" 10K API 6BX (BX-159) Open
Side Outlet, Above Valve (2-off)	Flange – 2-1/16" 10K API 6BX (BX-152) Studded
ROV Override Connection	ISO-13628-8 Class 4 Torque Bucket

WEIGHT AND DIMENSIONS

Overall Height (Nom.) – Flange-to-Flange	44.000" (1,118 mm)
Overall Height (Nom.) – Flange-to-Stud	53.125" (1,349 mm)
Outside Width (Max.) – Actuator-to-ROV Bucket	35.745" (908 mm)
Flange Width (Nom.)	30.25" (768 mm)
Approximate Weight (Dry)	2,635 kg (5,809 lbs)
Approximate Weight (In Sea Water)	2,283 kg (5,033 lbs)

STRUCTURAL CAPACITIES: 13-5/8", 10K, API 6BX Flange

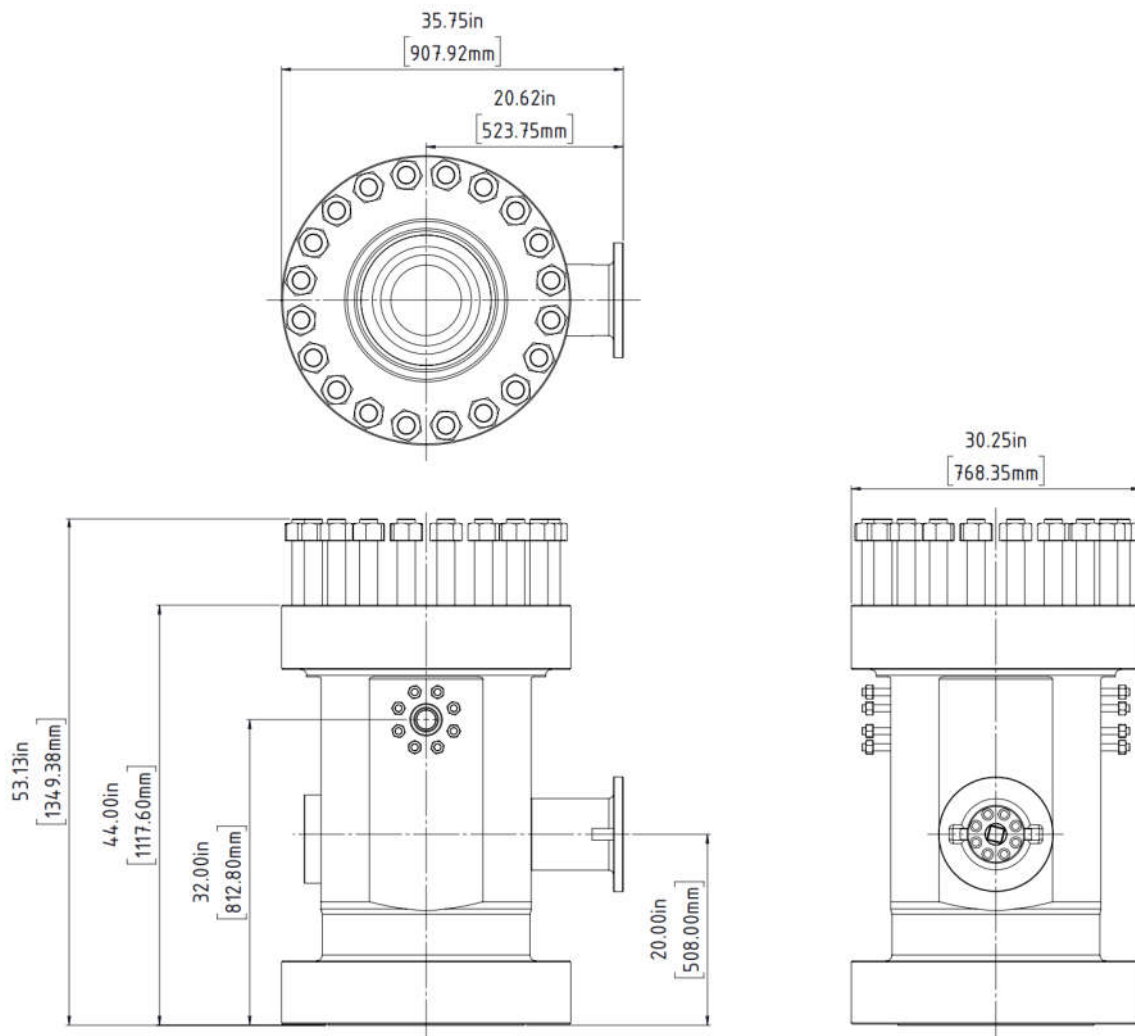
Maximum Tensile Load @ 0 psi	3,050 kip (13,567 kN)*
Maximum Bending Moment @ 0 psi	1,370 ft-kip (1,857 kN m)*
Maximum Tensile Load @ 10,000 psi	450 kip (2,001 kN)*
Maximum Bending Moment @ 10,000 psi	200 ft-kip (271 kN m)*

* As defined in API 6AF2 for studs with Sy = 105 ksi and pre-load tensile stress equal to 52.5 ksi

VALIDATION LEVEL

Service Specification Level	API 17G SSL-Gas	
Temperature Class (Operational)	Valve: -3°C to +121°C	Actuator: -3° to +121°C
Water Depth	10,000 ft (3,048 m)	

PRODUCT LAYOUT DRAWING



Document Reference

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

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