

Valve Type	Through Conduit Slab Gate Valve — DuraVal
Nominal Size	1"
Nominal Bore	25.4mm
Valve Trim	HH NACE
Body/Bonnet Material	Available in UNS N06625 Nickel Alloy 625 other materials available on request
Seat Material	UNS N09925 Nickel Alloy 925 with 150-250 micron Tungsten Carbide hardfaced
Gate Material	UNS N09925 Nickel Alloy 925 with 150-250 micron Tungsten Carbide hardfaced
Stem Material	UNS N07718 Nickel Alloy 718
Main Pressure Containing Fasteners	ASTM A320 grade L7, API 20E, API 20F or customer specific requirements e.g. ET-3000.00-1500-251-PEK-001
Primary Stem Seal	Metal to Metal in closed position, Fluoroloy/Meldin 5301-V11 polymer seals in all other positions
Secondary Stem Seal	Fluoroloy/Meldin 5301-V11 polymer seals
Seawater Ingress Seal	PEEK / FKM 90 O-Ring
Paint	Two and three coat system available or to customer specific requirements
Check Valve	Supplied separately
Compensator	Integral compensator (no sea chest required)

Design Data

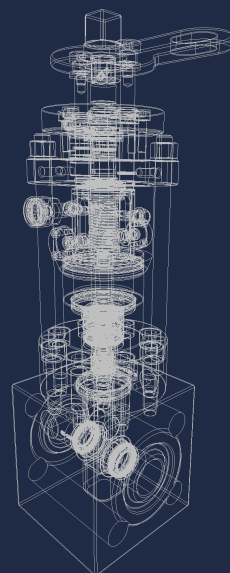
Max Operating Pressure	10,000 psi (690 bar)
Rated Water Depth	3,048m (10,000 ft)
Design Temperature (Min)	-18°C (64F)
Design Temperature (Max)	135°C (275F)
Design Lifetime	30 Years
Design Codes/Qualification	API 6A 21 st Edition :2018, ISO 10423:2009, API 17D 3 rd Edition :2021, ISO 13628-4 :2010, NACE MR0175 /ISO 15156-1:2015, NORSOK M-710 Edition 3:2014 Petrobras ET-3000.00-1500-221-PEK-001_D – Specific Design and Testing Requirements for Gate Valves for Subsea Applications. Petrobras ET-3000.00-1500-220-PEK-002_D -General Requirements for the Design and Testing of Subsea Valves and Actuators
Design Standard	PSL 3G

Interfaces

Connections	BX151 flanges with 4x Ø28 bolt holes on a 127 PCD. Others on request
ROV Interface	ISO 13628-8 Class 1 - 4, or to customer specific requirements
ROV Receptacle	Mounted or Remote
Extension Rod	Available on request
Turns to Open/Close	1" is 5.5 +/- 1 turns, CW close ACW to open.
Manual Override	1" square drive

Actuator

Failure Mode	Fail as is (FAI)
Actuator Operating Pressure	Manual operation as standard. Hydraulic actuation on request
Actuator Supply Port	On request
Actuator Flushing Port	On request
Design Temperature (Min)	+2°C (36°F)
Design Temperature (Max)	66°C (150°F)
Fluids	HW443 other fluids available on request



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