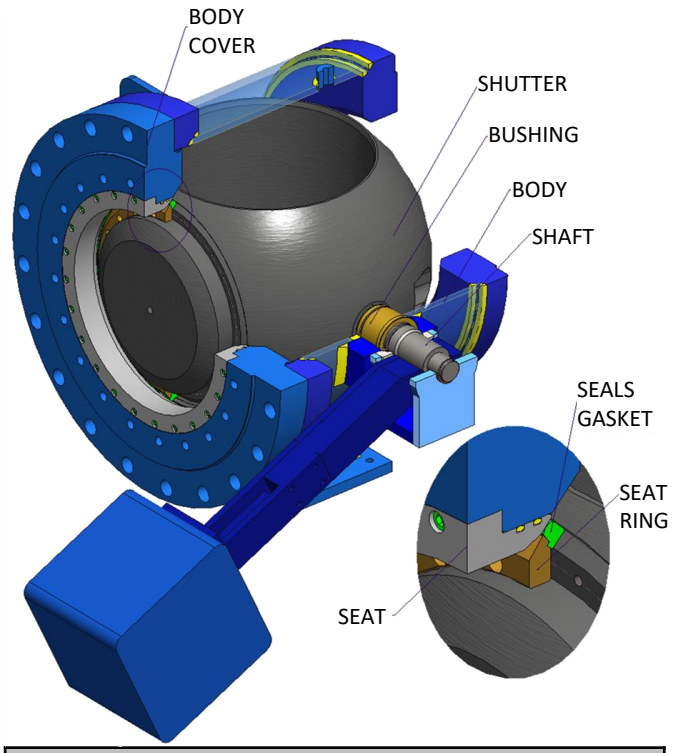
IMSHYDRO

TECHNICAL DATA SHEET – WELDED BALL VALVE

FEATURES
Welded and Machined Body with Drilled Flanges
Service Seal (Rubber–Stainless Steel)
Double shaft sealing
Opened/closed position indicator
Actuator according to IMSHydro standard

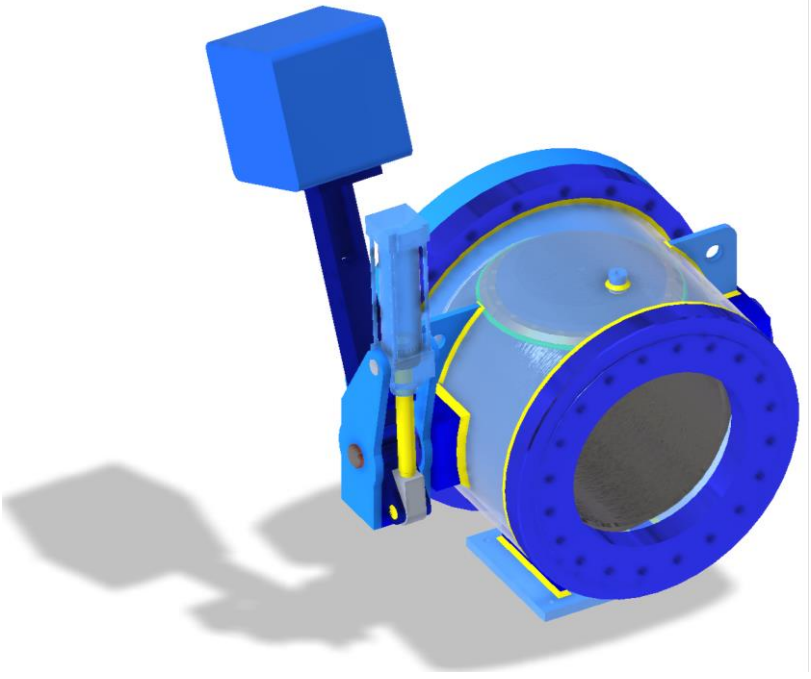
OPTIONS
Maintenance sliding seal (metal-to-metal sealing)
Hydraulic Interlock for the Mobile Seal Option (Metal-to-Metal)
Pipe Connection Sleeves US and DS (Rigid or Sliding Disassembly)
Mechanical interlock of the lever in opened and closed positions
Sliding base



COMPONENTS	
DENOMINATION	**MATERIAL (x)**
BODY	S355 J2 + N
SHUTTER	S355 J2 G3 / A350 Gr LF2
BODY COVER	S355 J2 G3
SEAT	AISI 304
SEAT RING	AISI 304
SHAFT	AISI 431
BUSHING	SELF-LUBRICATING
SEALS / GASKET	NBR / EPDM
SEAL	POLYURETHANE / NBR
(x) Other materials available on request	

AUXILIARY SYSTEMS
Balanced Pressure System
Hydraulic Power Unit
Bypass System
Local Control Panel

ACTUATION: OPENING UNDER LOAD OR BALANCED / CLOSING BY FLOW shut-OFF
Servomotor for opening and counterweight for closing
Double-acting oil hydraulic servomotor
Double-acting water hydraulic servomotor
Electromechanical actuator



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VALVE CHECKING	
DENOMINATION	**MATERIAL INSPECTION**
BODY	CT / TT / IT / VI / UT / PT
SHUTTER	CT / TT / IT / VI / UT / PT / MT
BODY COVER	CT / TT / IT / UT
SEAT	CT / TT
SEAT RING	CT / TT
SHAFT	CT / TT / IT / UT
BUSHING	CT / TT / IT / IT

UT: Ultrasonic Test / **CT:** Chemical Test / **TT:** Tensile Test / **IT:** Impact Test / **PT:** Penetrant Test / **VI:** Visual Inspection / **MT:** Magnetic Particle Test. All tests according to EN 10204-3.1 certification

TESTS			
FINAL TESTS	**PRESSURE**	**DURATION**	**VALIDATION**
BODY PRESSURE TEST	PN x 1,5 Acording to EN 12266	30 min.	1 Flat Bottom Upstream and Closed Shutter
LEAK TEST	PN x 1,1 Acording to EN 12266	15 min.	1 Flat Bottom Upstream and Closed Shutter
CYLINDER PRESSURE TEST	PN x 1,5	30 min	Maintain stable pressure during 30 minutes with obturator opened / closed.
PERFORMANCE TEST	Pressure min./máx.		Opening by Oil Pressure and Closing by Counterweight
DIMENSIONAL VERIFICATION	IMS Standard		Drawing and Inspection Protocol
PAINTING VERIFICATION	IMS Standard		Verify leak and adhesion (on request)

US: Upstream / DS: Downstream

COATING			
PRE-PREPARATION SURFACES ACCORDING TO ISO	**PROCEDURE**	**COATS**	**COLOR**
WATER CONTACT SURFACES	Polyamide primer –fiberglass reinforced polyamide top coat	30 µm + 250 µm	BLACK RAL - 9005
AIR CONTACT SURFACES	Polyamide primer –polyurethane top coat	30 µm + 70 µm	BLUE RAL – 5015
OIL CONTACT SURFACES	Polyamide primer – polyamide top coat	30 µm + 30 µm	WHITE
MACHINED SURFACES	Temporary protection	20 µm	TECTYL-506

SIZE AND PRESSURE RANGE	
ND 200 – ND 2000	**NP 10 – NP 100**
Other sizes and pressure ratings available upon request	
Design can be adapted to any nd and np values	

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