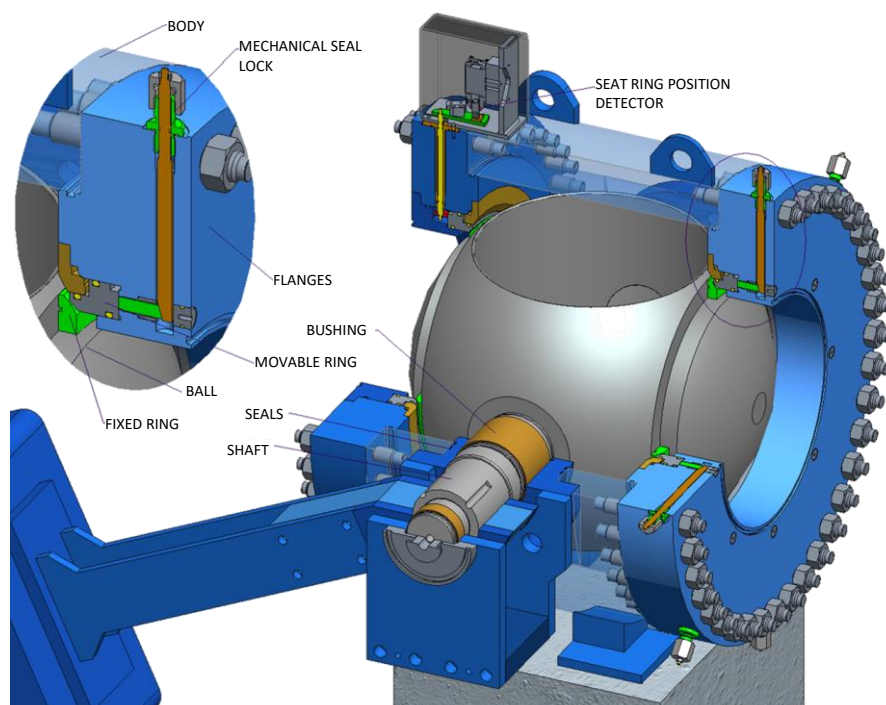


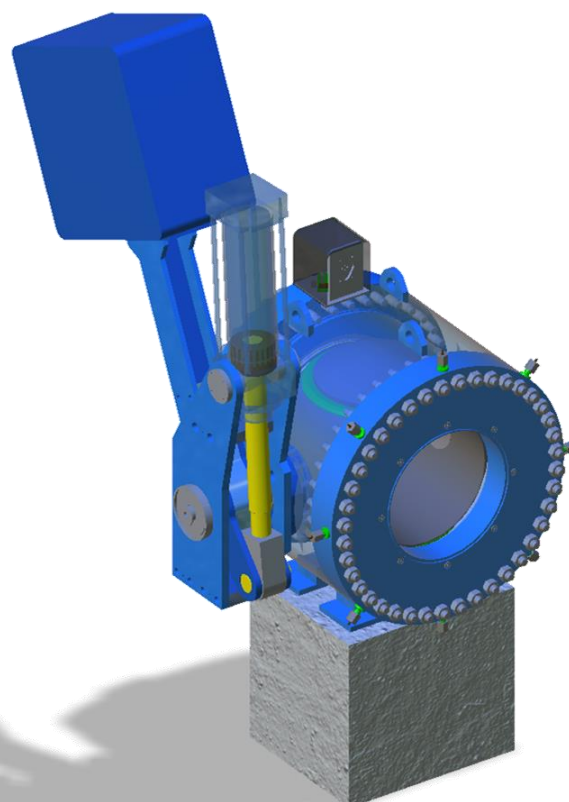
TECHNICAL DATA SHEET – FORGED BALL VALVE

FEATURES
Three-piece forged body with bolted flanged
Water-operated movable service seal (metal-to-metal)
Double shaft seal
Open/closed position detector
IMSHydro standard servomotor

OPTIONS
Metal –to –metal maintenance seal
Mechanical locking device for maintenance seal
Position detector for the seal
Servomotor hydraulic interlock active until service seal withdrawal
Service seal hydraulic interlock until valve closure



COMPONENTS	
DENOMINATION	MATERIAL (x)
BODY	S355 J2 G3 / A350 Gr LF2
SHUTTER	S355 J2 G3 / A350 Gr LF2
FLANGES	S355 J2 + N
FIXED RING	ASTM A240 type 304L
MOVABLE RING	Bronze G Ni Al BZ F.60 DIN1714
SHAFT	AISI 431
BUSHING	SELF-LUBRICATED
SEALS / GASKETS	POLYURETHANE / NBR
(x) Other materials available on request	



AUXILIARY SYSTEMS
Seal ring control system
Hydraulic Power Unit (HPU)
Bypass system
Local control panel

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

VALVE CHECKING	
DENOMINATION	MATERIAL INSPECTION
BODY	CT / TT / IT / VI / UT / PT
SHUTTER	CT / TT / IT / VI / UT / PT
FLANGES	CT / TT / IT / UT
FIXED RING	CT / TT
MOVABLE RING	CT / TT
SHAFT	CT / TT / IT
BUSHING	CT / TT / 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 s/ EN 12-266	30 min.	2 blind flange (Upstream and Downstream), valve closed, seals not applied
UPSTREAM LEAK TEST	PN x 1,1 s/ EN 12-266	15 min.	1 blind flange Upstream, valve closed, upstream seal applied
LOCKING TEST UNDER PRESSURE	PN x 1,1 s/ EN 12-266	15 min.	Apply manual lock, measure nut stroke, record torque
DOWNSTREAM LEAK TEST	PN x 1,1 s/ EN 12-266	15 min.	1 blind flange Upstream, valve closed, downstream seal applied
PERFORMANCE TEST	Minimum / Maximum Pressure		Opening with oil pressure, closing with counterweight
DOWNSTREAM SEAL DETECTION SYSTEM	P. Máx. X 1,5	15 min.	Verify smooth detection system movement, valve distributor cut-off, and leak.
DIMENSIONAL VERIFICATION	IMS Standard		According to the drawing and inspection protocol.
PAINTING VERIFICATION	IMS Standard		Verify coating leak and adhesion (on request)

US: Upstream / DS: Downstream

COATING			
PRE-PREPARATION SURFACES ACCORDING TO ISO	PROCEDURE	COATS	COLOR
WATER CONTACT	POLYAMIDE PRIMER – FIBERGLASS REINFORCED POLYAMIDE TOP COAT	30 µm + 250 µm	BLACK RAL - 9005
AIR CONTACT	POLYAMIDE PRIMER – POLYURETHANE TOP COAT	30 µm + 70 µm	BLUE RAL – 5015
OIL CONTACT	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 PRESSURES RATINGS AVAILABLE ON REQUEST	
DESIGN CAN BE ADAPTED TO ANY ND AND NP VALUES	