

FLEXIBLE AND CUSTOM MADE DESIGN SOLUTIONS

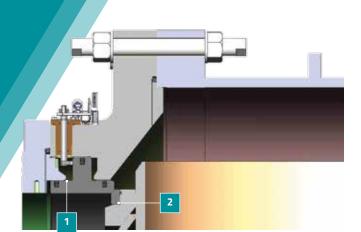
- The valve dimensions can be adapted to fit with the existing site conditions;
- The valve body and shutter can be made of welded steel or forged steel, depending on the nominal pressure of the valve;

VERSATILE OPERATING SYSTEM. #1 or #2 hydraulic cylinders which could be

- A) single action: opening by pressurized oil, closing by counterweight;
- B) double action: opening and closing by pressurized oil or by penstock's water;
- **C) double action:** opening by pressurized oil, closing by penstock's water.

LOW HEAD LOSSES

• the valve in the open position has approximately the same head losses as would occur in an equivalent length of pipe.







MOVABLE SEAL DETAIL

DOUBLE SEALING SYSTEM

- the valve is equipped by a Service Sealing system and a Maintenance Sealing system, both made by a mobile seal ring, housed in the valve's body, that closes against a counter-seat ring bolted on the valve's shutter;
- the Service and Maintenance Sealing system re-operated by penstock pressurized water, properly controlled by a dedicated Water control Circuit;
- both seal 1 and seat 2 ring are made of stainless steel with different grade of hardness.
- optionally the Maintenance seal can be mechanically lockable.

POSSIBILITY TO SUPPLY A FULL SET OF ACCESSORIES

- Bypass system;
- Upstream connection pipe;
- Dismantling joint;
- Water control Circuit;
- Hydraulic Power unit;
- Electrical Cabinet;
- Original Spare Parts.

All construction phases, from design to testing, are carried out by Vortex Hydra in compliance with the UNI EN ISO 9001 Quality Management System.

Vortex Hydra has manufactured Spherical valves with Nominal Diameter up to 2700 mm.







