

FLOW CONTROL EQUIPMENT

+ SCHÜTZ.PLUS PENSTOCKS

+ SHZ+AS LOWERING TYPE PENSTOCKS

SCHÜTZ.PLUS (SHZ+) Penstock are used for different applications such as isolation or regulation with permanent operational reliability in water and wastewater treatment plants.

SHZ+AS is a lowering type of penstock which may be designed as three- or four-sided sealed penstock. It is designed to be assembled in front of apertures consisting of a frame and a slide moving within the frame. The drive system may be located either on a pillar or directly on the frame.

Assembly is realized by anchoring the frame on the wall. Both lateral profiles and central plate which is located at the invert of aperture are fixed by anchoring.

Frame invert is commonly a short stopper anchored on the wall. Alternatively, for large sized penstocks a full-length profile may be used.

As the lowering penstocks are mostly used for regulation profiled rubber is located on the frame along both lateral edges as well as central profile located at the invert of the aperture. In case it is required the penstock to fully isolate the aperture the fourth sealing line is assembled at the crown of the aperture as well.

The pre-stressed sealing ensures tightness both in on-seating and off-seating conditions. Maximum leakage rate when fully closed is lower than the maximum allowable recommended values in internationally valid standards; DIN 19569-4, AWWA C-561 and BS 7775.

SHZ+AS may be accoupled with both rising and non-rising spindle designs with single or double spindles. There are multiple choices of drive units: Hand wheel, manual operated gearbox, electrical actuator and pneumatic or hydraulic pistons may be used to operate the equipment.

