

## FLOW CONTROL EQUIPMENT

### + SCHÜTZ.PLUS PENSTOCKS

#### + SHZ+RS CHANNEL 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+RS is three side sealed penstock designed to be assembled either in front of or into the channels. It is consisting of a self-contained frame on which the drive system is located and a slide with sealing moving within the frame.

Assembly in front of the of the channel is realized by anchoring the frame to entrance or end of channel. There are two different style of installation into the channel: embedding or anchoring. Most common application is embedding; lateral profiles of the frame installed within the recesses and then is fixed by pouring grout to the cavities. Also anchoring on the side walls may be a solution for existing structures.

Frame invert is commonly embedded within the recess in the bottom slab. SCH+RS has alternative frame invert designs which can also be anchored on the channel wall. Also, for existing channels the frame invert can directly be anchored on bottom slab of the channel.

Profiled rubber is located along both lateral edges as well as bottom of the slide to form three-sided sealing. The pre-stressed sealing ensures tightness both in on-seating and off-seating conditions. Maximum leakage rate is lower than the maximum allowable recommended values in internationally valid standards; DIN 19569-4, AWWA C-561 and BS 7775.

SHZ+RS is opening in upwards direction. Both rising and non-rising spindle designs may be used 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.

