

## Basket screens

### Function and construction

To avoid interferences in pump stations, accumulated rejects have to be eliminated before arriving the pumps. In that case, for low laying channels basket screens are used, which are installed in front of the aperture of the collector channel within the pump shaft.

The basket screen consists of three main components:

#### The guide frame

made of a robust steel construction for both-way guidance of the basket. At the frame construction carriers are fixed, needed for fastening of the whole framework onto the pump shaft. At the upper part of the frame carrier plates are fixed, providing for installation of an electric chain hoist.

#### The basket

implemented as an angle plate construction with flat screen bars (spacing 20-50 mm). The locking cap made of punched steel plate is self-closing in the dropping area of the plant. Meanwhile, the rejects drop out of the basket. The basket is guided by 4 castors made of plastics. Lift and lowering of the basket is done by an electrical chain hoist.



#### The automatic fall screen

made as a rigid steel frame construction with rods, spaced 20-50 mm. The fall screen also is guided within a steel frame. By lowering of the fall screen, the inlet channel is automatically closed during the lift of the basket. At this juncture, rejects can not reach in the sump well whilst emptying of the basket. The fall screen opens and de-allocates the inflow when the basket is getting back into its working position.

All steel parts are made of hot-dip galvanised steel, optional the whole plant can be made of stainless steel. The robust construction guarantees a most highly reliability. Using an electrical winch, the operating procedure is automated. That operation is done by a timer or a water level controller.