

D50.33.0-I

TAINER GATE

Water level control



Tainter Gates are usually used to control the water level in a dam or water distribution channel. The Tainter Gates supplied by **hydrostec** are designed specially for a long working life under hard operating conditions.

The Tainter Gate represents a welded construction of a bent plate with the required radius and reinforced with horizontal girders and vertical ribs and attached to concrete vertical walls of the gate opening by two arms.

The gate articulation around the fitting points is achieved by using two trunnions. The trunnion axes are made of stainless steel and supported by self-lubricating bronze

bushing. The trunnion assembly is supported by a steel or reinforced concrete beam anchored in the vertical wall of the gate opening.

The gate sealing is obtained by using resilient "J" type seal

and flat seal attached to the gate structure and with seal seating in the embedded parts.

Opening and closing operations for the tainter gates are performed by an electric-driven cable drum hoist or by two hydraulic cylinders controlled by a hydraulic power unit.

The lifting units may contain a electrical command and control panel, gate position indicator, limit switches and electronic control and automatic command devices (local or remote) for the gate opening or closing in function of the water level, water supply requirement, or any other desired operational parameter.

