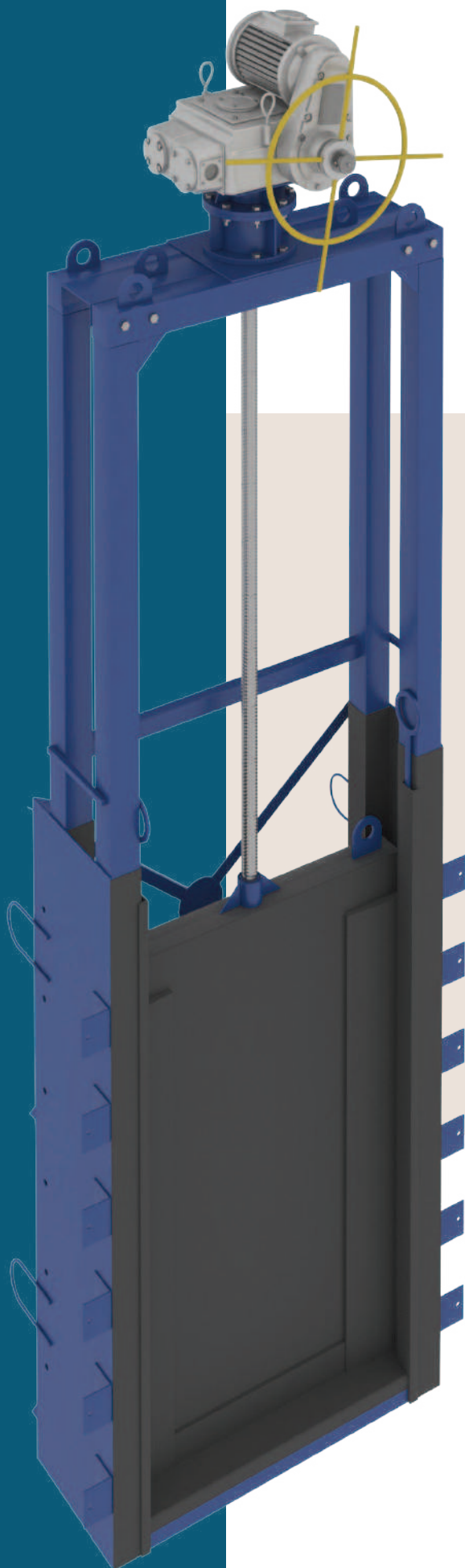


UKRAINE & DNIPRO



NEW TECHNOLOGIES



**PENSTOCKS WITH
ELECTRIC DRIVES AND
MANUAL OVERRIDES**

One of the most popular types of pipeline accessories produced by LLC "New Technologies" is a penstock.

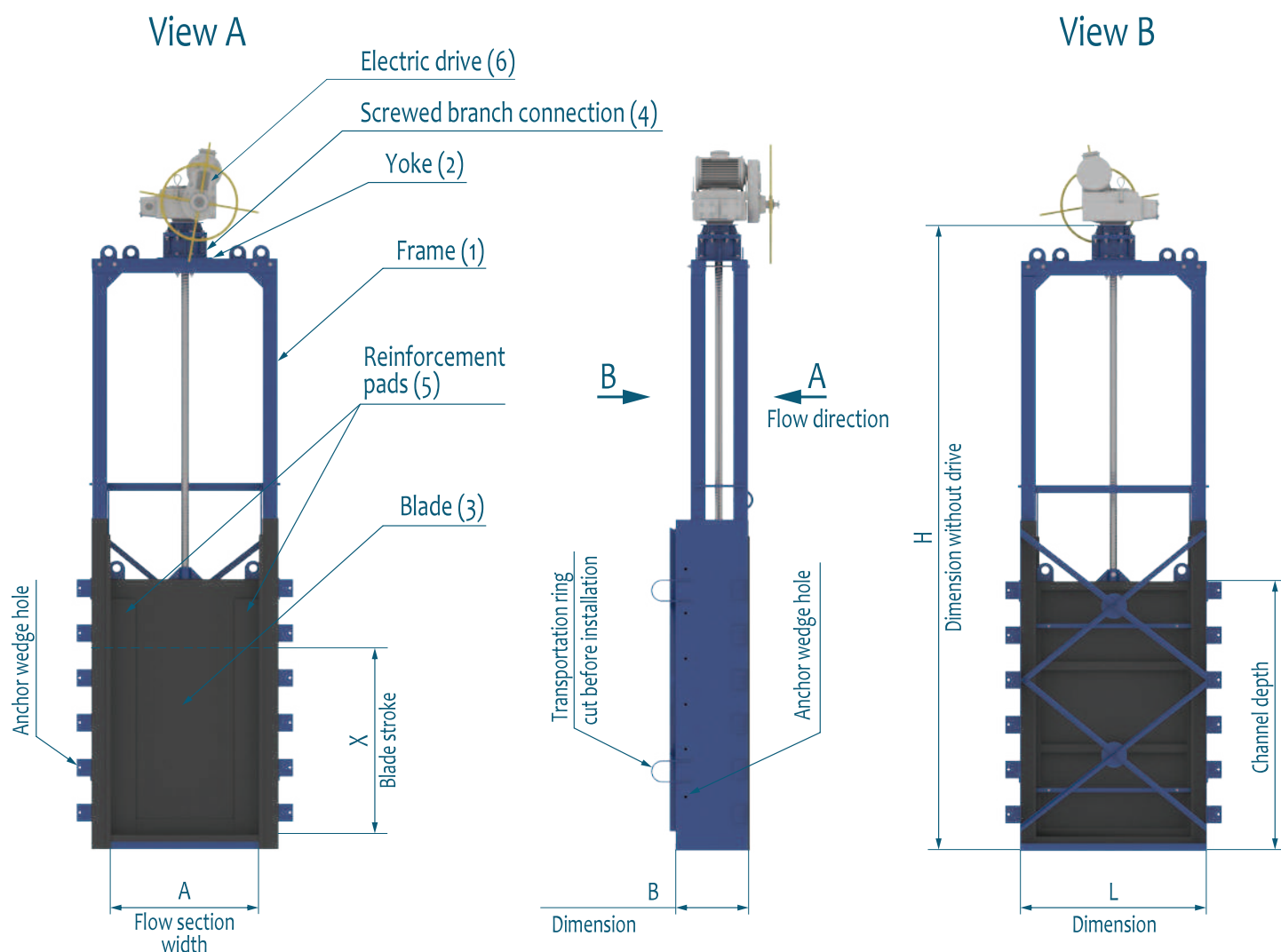
A **penstock** is used in cases when it is necessary to block the flow of liquids (for complete blocking of the pipe) saturated with a large amount of different impurities, solid fractions, or otherwise to control the volumes of its flow (for the partial blocking of the channel).

In recent years, we have manufactured and supplied over 70 penstocks of various standard sizes.

Structurally, the penstock consists of: frame (1), yoke (2), blade (3), screwed branch connection (4), reinforcement pads (5) and electric drive (6).

BY THE AID OF THE ELASTIC SEALING PACKINGS AROUND THE PERIMETER OF THE PENSTOCK, THE DEVICES ARE WIDELY USED AT THE FOLLOWING OBJECTS:

- at enterprises with a circulating water supply systems (metallurgical, coke-chemical, etc.)
- at ore mining and processing plants (in tailings storage facilities of the tailings management facilities)
- in main channels of irrigation systems
- in urban water supply and sanitation facilities
- in sewer constructions
- at state district power stations (GRES), at hydro-electric power stations (GES), at combined heat and power plants (TES), at heat electric generation plants (TEC), etc.



THE PENSTOCK IS A STEEL FRAME WITH A STEEL SHIELD (BLADE), WHICH IS THE MAIN LOCKING ELEMENT. THE BLOCKING (ADJUSTMENT) OF THE LIQUID FLOW IS CARRIED OUT BY MOVING THE BLADE ALONG THE GUIDES PERPENDICULAR TO THE FLOW.

THE PENSTOCK IS FUNCTIONING IN THE FOLLOWING MODES:



open



closed



flow adjustment
(partially opened)

The required level of tightness of the penstock is achieved by creating a zero gap between the interlocking surfaces of the blade and the lower part of the frame.

The penstock blade control is provided by an electric drive with a manual override.

You must mount the penstock in the necessary pipeway in a vertical position using anchors, followed by pouring cement mortar.

To increase the level of tightness, resistance to wear of the working surfaces of the product during operation, the main working elements of the penstock (namely, its frame, blade and reinforcement pads) are partially rubberized with wear-resistant rubber.

BASIC PARAMETERS OF PENSTOCKS MANUFACTURED BY LLC "NEW TECHNOLOGIES"

Installation channel dimensions			Dimensions of the penstock without drive			Flow width, A	Blade stroke, X	Weight without drive
Channel width	Channel depth	Liquid height	Width, L	Depth, B	Height, H			
mm	mm	mm	mm	mm	mm	mm	mm	kg
1250	2090	2000	1240	600	4100	920	1500	1350
1250	2100	1800	1240	400	4255	920	1650	1400
1300	1100	1000	1280	600	2555	960	900	1000
1900	2500	2300	1880	600	5355	1560	2300	2100
1520	2000	1700	1500	600	3805	1185	1650	1550
1520	3000	1900	1500	500	4290	1185	1790	1600
1360	3200	2500	1340	490	5465	1025	2385	1800
1470	2300	2100	1450	600	4900	1134	2100	1700



THE ADVANTAGES OF THE PENSTOCKS MANUFACTURED BY LLC "NEW TECHNOLOGIES":

- high degree of tightness
- durability and low degree of wear of working elements due to partial rubberizing of the main working elements of the penstock
- resistance to environmental exposure factors (temperature extremes, high humidity)
- resistance to chemical aggressiveness of the working environment
- simplicity and reliability of operation
- ease of maintenance and repair

INSTALLATION OF PENSTOCK AT THE MINING AND PROCESSING PLANT OF UKRAINE



www.newtech.dp.ua

LLC "New Technologies" is ready to design and manufacture the penstocks according to the Customer's individual technical requirements.

LLC "New Technologies" has all the resources to produce only high-quality products.

The production of penstocks includes all important technical processes: from purchasing of high-quality raw materials and materials, developing design documentation, putting products into production, controlling product quality at all stages of production ending with manufacturing finished products at our own production sites.

**ALL THE DESIGN
DOCUMENTATION IS
DEVELOPED BY THE DESIGN
OFFICE TAKING INTO
ACCOUNT THE TECHNICAL
REQUIREMENTS OF TU U
25.9-31296718-005:2015, AS
WELL AS OTHER STATE
STANDARDS OF UKRAINE
(GOST).**

