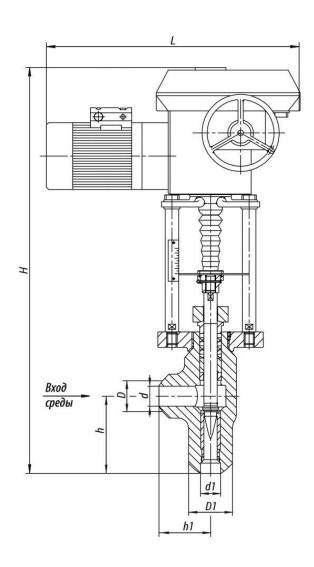
## 1438-20-9-02



Production according to TR 2913-001-15365247-2004

Installation place: as a rule, the valves are installed on the cooling water injection

pipelines in DS, PRDS, FRPRDS and industrial pipelines. Installation requirements: the valves are designed for outdoor installation and in

closed premises with the ambient temperature up to +70 C.

The valves equipped with built-in actuators shall be only installed on horizontal

pipeline sections with the actuator position upwards. Pipeline connection: welded connection.

Climatic version: У, УХЛ, ХЛ, Т according to GOST 15150-69.

Placement category: 1, 2, 3 according to GOST 15150-69.

Depending on the lifting height of the valve needle, the throughput capability is shown in the diagrams.

## **Specifications**

DN, mm	Pp, MPa	x of the Med	Bod y M ateri al, Stee	king	ratin	. Kv,	Max . Pr ess ure Diff eren tial, MPa	F, cm²	TQ, N·m , ma xim um t orqu e at spin dle plug	d1, mm	Desi gnat ion of the elec tric driv e	N, kW	t хо да, с.	H, mm	h, mm	D, mm	D1, mm	d, mm	h1, mm	Wei ght with out Elec tric Act uato r, kg	Full Wei ght, kg	Tor que, N*m
20	37,3	280	20	Вод а	29	2	4	0,41	20к Н*	28	M9 П-2 500 0/1 00-5 0-y- 99	0,3	58	905	115	32	45	20	70	13	38	0

**DN** - Nominal **Tmax** - Maximum **h -** Valve Stroke

Diameter Design Temperature **Kv** - Throughput Capability

PN - Nominal Mkp - Spindle Torque F - Seat Area

Pressure t - Response time ζ - Resistance Coefficient

**P** - Pressure  $\mu$  - Fluid Flow Coefficient

The control needle valves are used as fluid flow regulators.

The provision of smooth control within the limits of the rated throughput capability is achieved with the help of the valve needle form. The seat has reinforced hard-facing of increased hardness which is resistant erosive and corrosive wear. They are not used as shutoff devices.

## According to the actuator type of the working body and control method, the control needle valves are divided into the following types:

- Lever-operated control needle valves. The valve control is carried out on a remote basis (automatically) with actuators of single-turn electric actuator type (M30) through the lever. The allowed pressure differential on the valve shall not exceed 1 MPa.
- Control needle valves. The valve control is carried out with a handwheel or an
  actuator with a current position sensor of electric multi-turn actuator types
  (ΠЭΜ) (ABS ZEIM Automation), SAR (AUMA) or linear pneumatic actuators
  FESTO, VALBIA, AIR Torque, ROTORK etc., chosen considering the working
  medium pressure and air pressure. The valves equipped with actuators shall be
  only installed on horizontal pipeline sections with the actuator position
  upwards.
- Control angle valves. The valves are controlled with a built-in multi-turn electric
  actuator with a current position sensor of electric multi-turn actuator / electric
  multi-turn mechanism types (ΠΘΜ/ΜΘΜ) (ABS ZEIM Automation), SAR (AUMA)
  etc. or linear pneumatic actuators of electric multi-turn actuator types (ΜΘΠ)
  (ABS ZEIM Automation), REGADA etc., chosen considering the working medium
  pressure.

According to GOST 356-80, the valves designed for the ultimate pressure allow their application on operating parameters within the following range:

- at PN 100 MPa from 10 MPa, 200 °C to 3,6 MPa, 455 °C;
- at PN 63 MPa from 6,3 MPa, 200 °C to 2,3 MPa, 455 °C;
- at PN 25 MPa from 25 MPa, 200 °C to 9 MPa, 455 °C.

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