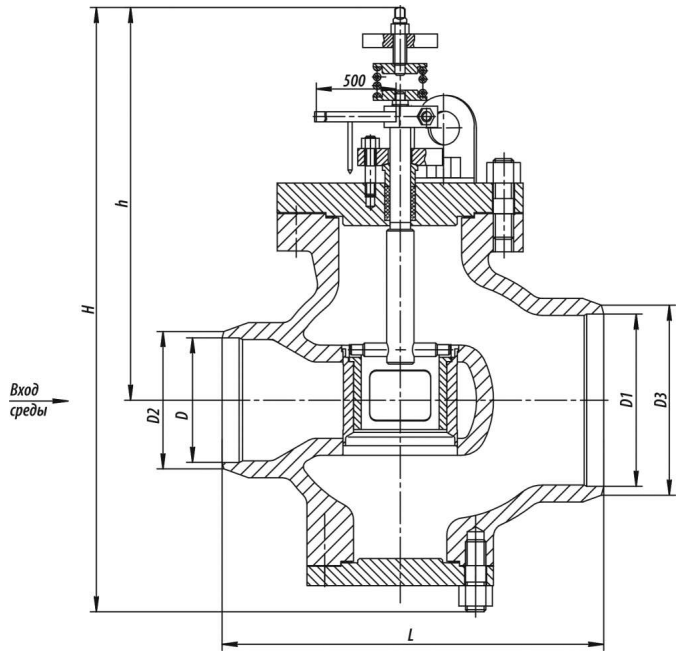
# 6c-12-1-2




Production according to TR 3740-002-15365247-2004.

**Pipeline connection:** welded connection.
**Installation position:** on horizontal and vertical pipeline sections in the places convenient for maintenance and repair.
**Spindle position:**
— for the actuator of single-turn electric actuator type (МЭО) – horizontal and vertical position;
— for the actuator of single-turn electric flanged actuator type (МЭОФ) – vertical position with the actuator upwards.
**Working medium supply direction:** set according to the arrow drawn on the body.
**Climatic version:** У, УХЛ, ХЛ, Т according to GOST 15150-69.
**Placement category:** 1, 2, 3 according to GOST 15150-69.

# Specifications

| DN, mm | PN, MPa | Tmax of the Medium, °C | Body Material, Steel | Working Medium | Max. Kv, m³/h | F, cm² | TQ, N•m, maximum torque at spindle plug | μ, not less than | Inlet/Outlet Diameter, mm | Full Stroke Rotation Number | Designation - display in a group | Designation - display in the product table | L, mm | Designation of the electric drive | N, kW | t хода, с. | H, mm | h, mm | D, mm | D1, mm | D2, mm | D3, mm | Weight without Electric Actuator, kg | Full Weight, kg | Updated | Torque, N*m |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50 | 6,3 | 425 | 25Л | Вода-пар | 25,5 | 11,0 | 100 | 0,46 | 50/50 | 0,25 | 0 | 0 | 350 | МЭО-250/25-0,25У-99К | 0,25 | 25 | 560 | 396 | 50 | 50 | 60 | 60 | 67 | 94,5 | 0 | 0 |

**Legend**

**DN** - Nominal Diameter
**PN** - Nominal Pressure
**P** - Pressure
**Tmax** - Maximum Design Temperature
**Мкр** - Spindle Torque
**t** - Response time
**μ** - Fluid Flow Coefficient
**h -** Valve Stroke
**Kv -** Throughput Capability
**F** - Seat Area
**ζ** - Resistance Coefficient

The valves of type 6c are intended for the control of the working medium flow or pressure.

The medium flow through the valve is controlled by means of changing the passage area, which is achieved when turning the spool with regard to the sleeve (seat). The maximum turning angle of the spool is 90°.
The controlled passage sections in the valve are performed in form of rectangular windows in the spool and seat.
The valves are not used as shutoff devices.

The control of the control valves of type 6c is carried out with the help of:
— a built-in electric actuator of single-turn electric flanged actuator type;
— an electric actuator of single-turn electric actuator type manufactured by ABS Automation, Cheboksary;
— built-in quarter-turn electric actuators SAR (AUMA) etc. or quarter-turn pneumatic actuators FESTO, VALBIA, Air Torgue, ROTORK etc., chosen considering the working medium pressure and air pressure.

The allowed pressure differential is as follows:
— for superheated steam – ΔP=Pp-0,546 Pp;
— for water – not more than ΔP=1,0 MPa (10 kgf/cm2).

The throughput capability depending on the spool turning angle is shown in the diagrams.

According to GOST 356-80, the items designed for the ultimate pressure allow their application on operating parameters within the following range:
— at PN 100 MPa – from 10 MPa, 200 oC to 3,6 MPa, 455 oC;
— at PN 63 MPa – from 6,3 MPa, 200 oC to 2,3 MPa, 455 oC.

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