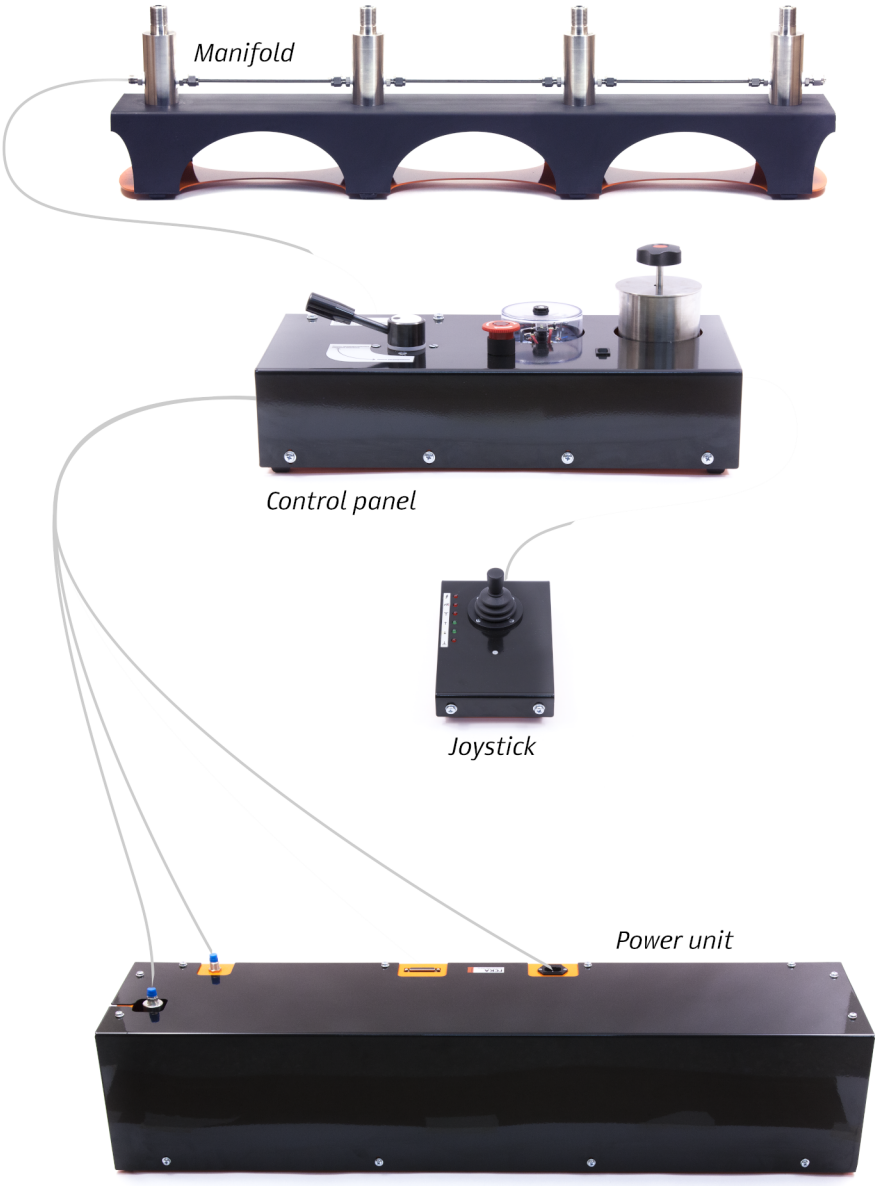
Alfapascal

Automated hydraulic calibrating system "GSKA"



Intended use

Automated high pressure generation for laboratory needs: large-scale calibrating measuring instruments, control valves calibrating, leakage and strength tests of various equipment.

* Use of GSKA with measuring instruments with the upper measurement limit lower than 0.1 MPa is not recommended.

Highlights

- Simultaneous control of large quantity of instruments;
- decreasing of user physical load and productivity increase;
- the following liquids may be used as working medium: oil, water, alcohol and other non-aggressive liquids;
- high rate of system priming and smooth pressure adjustment;
- built-in overpressure protection system;
- no need in pneumatic air supply;
- possibility of the system to be built-in the stand;
- low noise level and power consumption;
- low cost.

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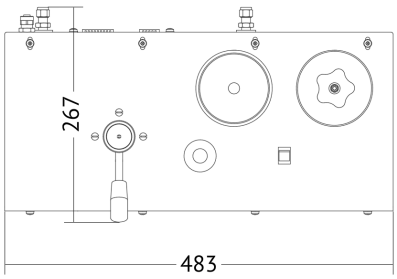
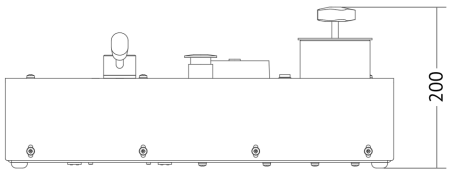
Main Technical and Performance Data

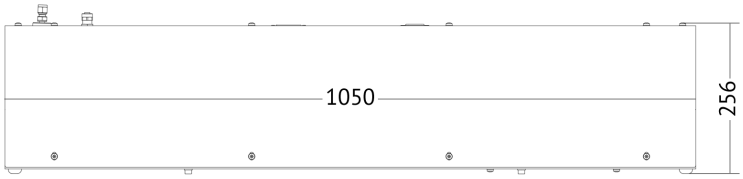
	GSKA
Pressure generation range, MPa	0...60
Units under test, pc	3*
Panel weight, kg	14
Drive weight, kg	50
Volume of glass for working medium, ml	500
Power consumption, W	400
Working medium	oil, water

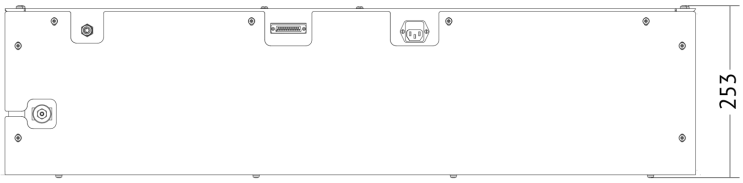
Overall dimensions



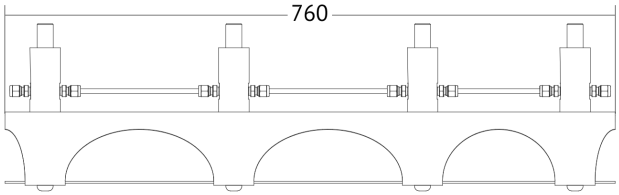


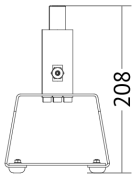
Control panel



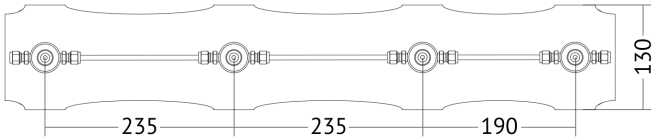


Power unit





Manifold



** Standard scope of supply includes 4-connections manifold to mount 1 standard and up to three units under test.*
Optionally, other design of manifold for another quantity of racks is possible.

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Principle of operation

GSKA consists of four main units: joystick, control panel, power unit and manifold for standards and instruments to be calibrated mounting. These units are connected with each other by low-pressure pipe work, high-pressure pipe work and signal cables.

Pressure is generated by the power unit. To facilitate installation at the working place, the power unit is made as floor-standing unit.

Power unit operation control: pressure increase/decrease is realized by means of joystick (forward - increase pressure, backward - decrease pressure). Pressure generation rate depends on joystick operation force.

On the control panel, there is a glass for working medium with pressure relieve valve, switch for fast system filling and soft pressure regulation, electric-contact manometer for overpressure protection, and emergency stop button.

Manifold has four seats (one - for standard and three - for units under test). Optionally, manifolds with different number of seats and shut-off valves for racks may be ordered.

Certification

— Declaration of Conformity: registered number No. RU Д-RU.АУ37.В.14861

Package

Standard package:
— control panel;
— joystick;
— power unit;
— 4-connections manifold;
— connecting piping and cables kit
— threaded fittings kit for connecting units under test: M20*1.5 (4 pcs); M12*1.5 (3 pcs); G1/2 (3 pcs); G1/4 (3 pcs).
— set of sealing rubber-metal rings;
— spare parts kit;
— user manual.

Options:
— fittings with special threads for connection with instruments to be calibrated.
— reference measurement instruments;
— manifolds with different quantity of racks;
— finished working place (stand) as per required dimensions and sketches with built-in GSKA, calibrator, voltmeter and other measuring equipment;
— phase separators.