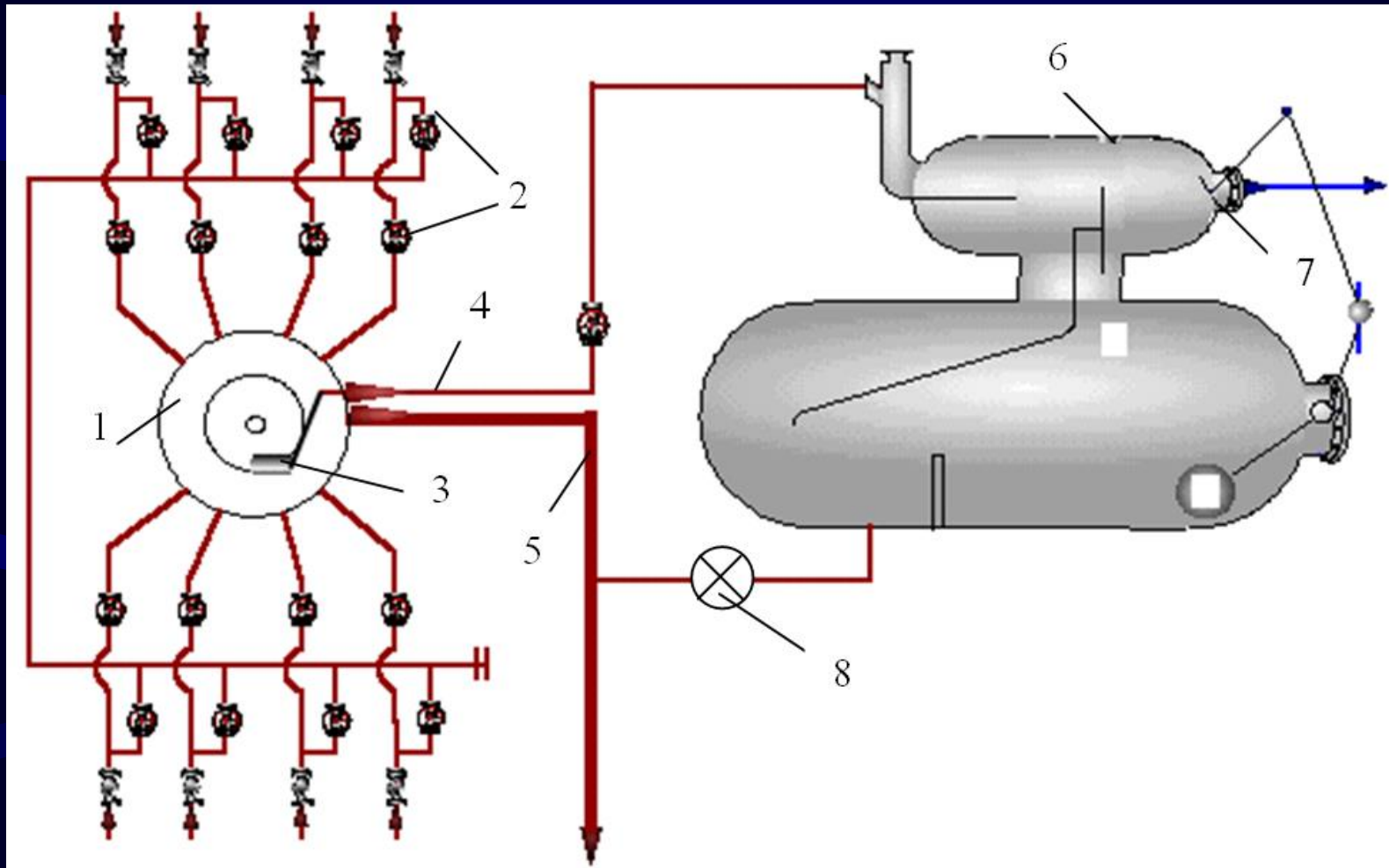


Well Production Measurement

To measure the flow rate of oil and gas In modern technological schemes for the gathering of petroleum products used automated group measuring units, which were once called "Sputnik"



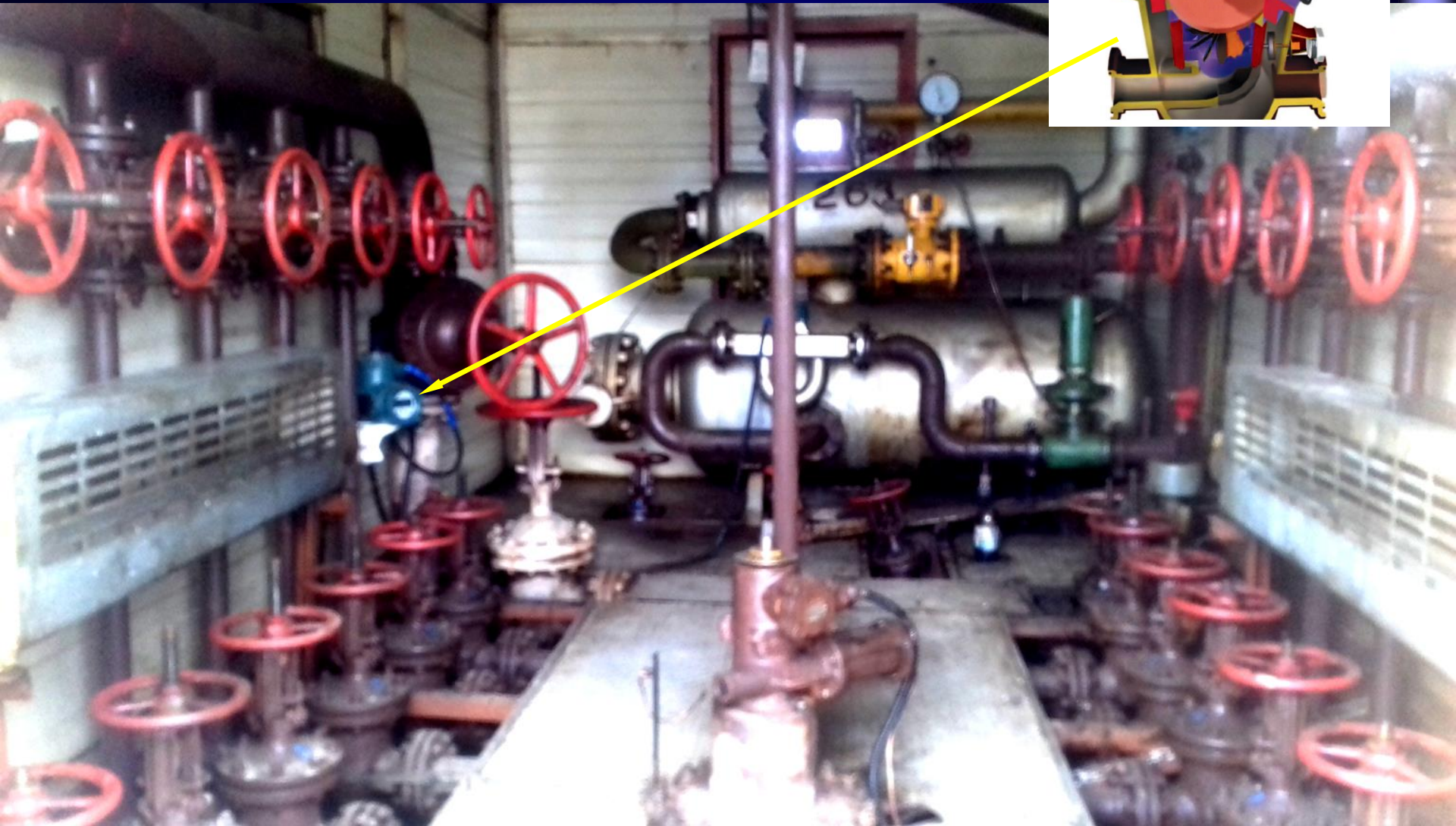
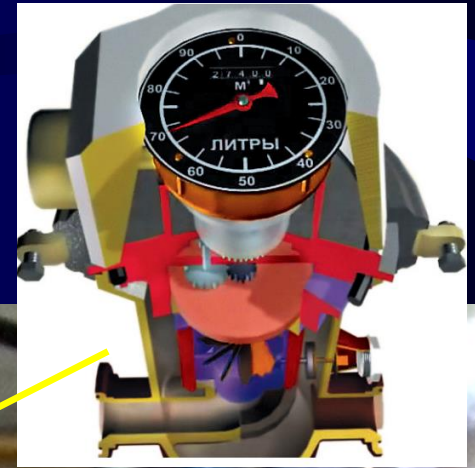
1-multi-stream switching manifold (MSM); 2-valves; 3-hydraulic drive; 4-test line; 5-general collector ; 6-hydrocyclone separator; 7-valve; 8-turbine-type flowmeter

**Figure 1 – Diagram of Automated Group Measuring Unit
“Sputnik-AM”**

General view of AGMU



Turbine-type flowmeter for measuring the flow rate of a liquid



Most units “Sputnik-AM” are designed to be connected to 14 wells that operate with the flow rate ranging from 1.0 to 500 m³/day at the maximum product viscosity up to 80 mPa·s. The unit is designed in the form of two blocks: measuring block (its diagram is shown in fig. 1) and control block or local automation block, where the recording apparatus and telemetry system are located.