



## SIA Kinematics Go LTD

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# General purpose gas and hydraulic sealed valve

## Technical description

General purpose gas and hydraulic hermetically sealed valve maintains the pressure difference with high accuracy irrespective of pressure surges in the network. It allows accurate tune of the value of the pressure difference. It has a function of smoothing the output pressure.

The basic purpose of the device is to control the differential pressure of fluid flow.

## Specification

$\Delta P$ limits (kPa):	10...300 kPa (standard) 2.8...500 kPa (custom-made)
$\Delta P$ steplength:	from 6 kPa.
Pressure	PN 100
Nomenclature ( range)	DN10, DN15, DN25, DN32, DN40, DN50, DN65, DN80, DN100, DN125 , DN150
Connection:	DN10...DN40–threaded G ½" ...G 1½" DN50...DN150–flange ГOCT12820-80, DIN2633, 2635
Operating position of the valve	vertical

Models DN10, DN15 have been successfully tested.

## Ownership and rights

EAPO patent application is listed on the valve design. Valve design is a joint development of “Tatneftkhiminvest” JSC and “SIA Kinematics” Go Ltd.

## Optional functions

In addition to regulating the pressure difference of the fluid flow, the valve may also perform the function of the check valve. The valve can also be used as an emergency valve, when the rail pressure exceeds a predetermined relief flow through the drain pipe conduit. Furthermore, the valve can also be used as a metering valve capable of smoothly change the flow rate or stepwise changed at a predetermined pitch in dependence on the pressure.

As the nozzle for use in a turbine for supplying gas to the turbine blades, the outlet is designed as a slit or a cylindrical nozzle.

It should be noted that the valve was initially developed for use in the turbine to maintain a predetermined variable turbine operation.