





POTRMETR

LABORATORIAL ROTAMETERS ROS TYPE

The rotameters ROS are used to measurement of volume fluxes or mass of gases in experimental and laboratorial installations. The rotameters can be produced with scale or with graph of flow for another gases. It is possible to produce this rotameters with control valve.

EXEMPLARY MEASURING RANGES

Туре	Connection on hose ø mm	Air dm³/h 293 K, 0,1013 MPa		Water dm³/h 293K, 0,1013MPa		Length of measuring pipe	Permissible conditions (pressure, temperature)
		min	max	min	max		
ROS 06	6	1 2 3 5 10 12 15 20 25 30 35 40 50 60 80 100	10 20 30 50 100 120 150 200 250 300 350 400 500 600 800 1 000	2,5 3,1 4	25 31,5 40	300	0,6 MPa 363 K
ROS 10	10	100 140 170 190 200 250 300	1 200 1 400 1 700 1 900 2 200 2 700 3 400	2,5 4,0 6,0 8 10	25 40 63 80 100		



Zakłady Automatyki "ROTAMETR" Sp. z o.o. ul. Chorzowska 44b 44-100 Gliwice

tel. 32 331 11 11 biuro@rotametr.com.pl www.rotametr.com.pl



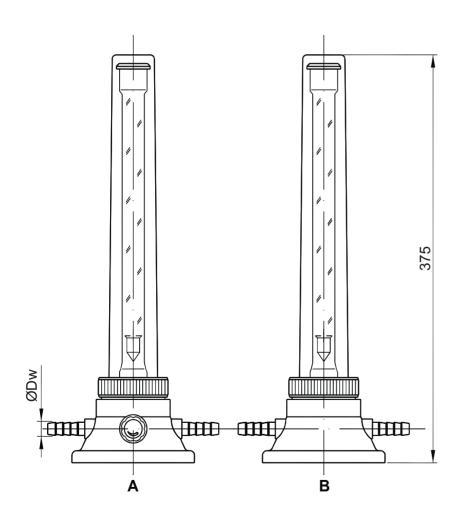
ROS 16	15	200 250 300 315 400 400 500 700 750	2 200 2 800 3 400 3 150 4 000 4 300 5 600 7 000 7 700	10 12,5 16 20 25	100 125 160 200 250	300	0,6 MPa 363 K
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On demand it is possible to fit the measuring range to individual needs of customer.

ACCURACY OF READING

The standard accuracy class is 2,5 according with PN-85/M-42371.

On demand there is possible to execute the rotameter in higher accuracy class with calibration certificate from our laboratory, Weights and Measures Office or from Accredited Laboratory.



A – rotameter with valve

B- rotameter without valve



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CONSTRUCTION MATERIALS

Basic elements of rotameters are glass pipe and float.

Material of pipe: glass (allay of boron and silicon) in sort simax or termisil.

Float's material: allay of Al, chrominium-nickel steel sort 1H18N9T, tarflen, PCV.

Seal of glass pipe: rings for suitable factor.

Connections, including hose ends, may be manufactured from the same material than floats.

In standard version it is aluminium. Flanges and pipe are made of carbon steel.

The rotameter's shield is made from plexiglass.

INSTALLATION DIRECTIONS

- 1) The rotameter's stresses and vibrations are not allowed.
- 2) For rotameter reading we used the biggest dimension of float. Very often it is the upper edge of float. In reading time the float has to assume a steady position without vertical oscillation. The flux of fluid can not contains the gas bubbles.
- 3) Pollutants which flows through the rotameter creating the sediments on measuring elements so it is necessary disassemble the rotameter and flush it by dissolving substances.

 If the user is not able to clean up the rotameter there is possible to clean the rotamater by manufacturer. The sediments in rotameter causes falsility measurements.
- 4) The rotameter should be install in vertical position. The permissible devotion: 1.

ORDER OF ROTAMETERS

The necessary information in order:

- 1) data of medium which flows through the rotameter: type, name, density, absolute pressure, temperature, viscosity
- 2) measuring range and kind of scale execution type: (standard or acid-proof steel) with valve or without valve