



LABORATORIAL ROTAMETERS ROL TYPE



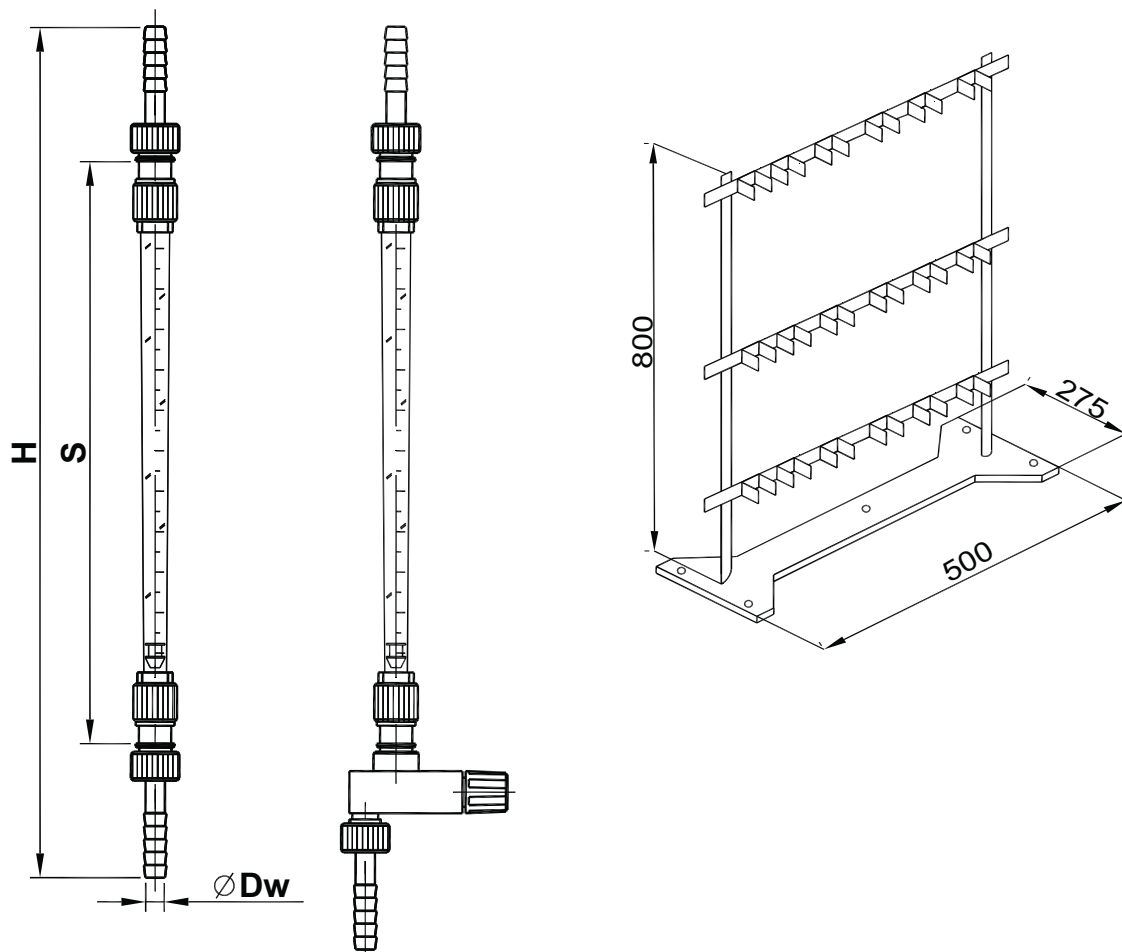
The rotameters ROL are used to measurement of volume fluxes or mass fluxes of gases in experimental and laboratorial installations.

EXEMPLARY MEASURING RANGES

Type	Air, dm ³ /h 293K, 0,1013 MPa		Water, dm ³ /h 293 K, 0,1013 MPa		Pressure drop, Pa	Permissible conditions (pressure, conditions)
	min	max	min	max		
ROL-06	1	10	-	-	3	0,25 MPa 363 K
	2	20	-	-	3	
	3	30	-	-	4	
	7	70	-	-	4	
	10	100	-	-	4	
	14	140	-	-	5	
	18	180	-	-	5	
	22	220	-	-	5	
	30	300	-	-	4	
	40	400	-	-	6	
	50	500	1,6	16	10	
	60	600	2	20	16	
	80	800	2,5	25	20	
	100	1 000	3,15	31,5	25	
-	-	4	40,0	40		
80	800	2,5	25	23		
ROL-10	100	1 000	-	-	12	
	120	1 200	4	40	18	
	160	1 600	5	50	24	
	200	2 000	6,3	63	30	
	250	2 500	8	80	45	
	-	-	10	100	61	
	200	2 000	6,3	63	38	

ROL-16 B	250	2 500	-	-	13	0,25 MPa 363 K
	320	3 200	10	100	26	
	400	4 000	12,5	125	38	
	500	5 000	16	160	45	
	630	6 300	20	200	70	
	-	-	25	250	110	
	500	5 000	16	160	60	
ROL-16	400	4 000	-	-	13	
	500	5 000	16	160	26	
	630	6 300	20	200	38	
	800	8 000	25	250	45	
	1 000	10 000	31,5	315	70	
	-	-	40	400	110	
	800	8 000	25	250	60	
ROL-25	1 000	10 000	-	-	23	
	1 200	12 000	40	400	32	
	1 600	16 000	50	500	47	
	-	-	63	630	67	
	-	-	63	630	67	
	-	-	63	630	78	

On demand it is possible to fit the measuring range to individual needs of customer.





Type	S, mm	H, mm	Mass, kg
ROL-06	360	505	0,4
ROL-10			0,45
ROL-16	660	805	1,0
ROL-25			1,3

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.

CONSTRUCTION

Standard version:

- glass pipe
- float (made of CrNi steel sort 1H18N9T, Al, ebonite, teflon)
- screwed mounting (alloy of Al)
- connection on hose (it is possible to join rotameter with installation with the aid of rubber hose)

Special version:

ZA – with control valve of alloy of AL

ZK – with control valve of CrNi steel

ST –additional equipment on tripod (stand) with handles on 6 rotameters

K – endings on hose are made of CrNi steel

D – ROL-16 and ROL-25 rotameters can be made in higher accuracy class

INSTALLATION DIRECTIONS

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.

The rotameters type ROL should be install in vertical position, in typical laboratory handles or in tripod (stand).

Theses rotameters join with installation with the aid of rubber hose. Factor flows through the rotameter from the bottom (lower part) to the top.

It is possible to mount the control valve which allows controlling the volume or mass flux.