

An ISO 9001 : 2008



PLACKA™

PURGE ROTAMETERS

Rotameters are the mostly widely used type of Variable Area (VA) flowmeters. The movement of a float in a tapered tube provides a measure of flow rate.

A Rotameter is designed in accordance with the basic volumetric flow rate equation of

$$Q = kA\sqrt{gh}$$

Where **Q** is the flow rate

K is a constant

A is the annular area

G is the force of gravity &

H is the pressure drop across the float

all the rest being a constant in a given Rotameter, the flow rate (**Q**) is directly proportional to the area (**A**) so the height of the tube is a measure of the flow rate. In PLACKA Purge Rotameter a constant flow differential pressure flow regulator is used to maintain the purge flow-rate at the desired level. A needle valve is used for convenient setting of the flow rate.



LGPR - 2

SALIENT FEATURES

➤ Economical ➤ Compact ➤ Panel/Side Mounting ➤ Good Accuracy ➤ Ease of Maintenance



LGPR - 4



LGPR - 2SS



APPLICATIONS

- ★ Accurate Level Measurement
- ★ Purging for Corrosive Fluids
- ★ Continuous Lubrication (Bearings)
- ★ Density Measurement
- ★ Gas Analysers (Sample Delivery)

SPECIFICATIONS

PERFORMANCE

Model No. : LGPR 1.2.3 & 4

Fluids	: An transparent liquids and gases
Maximum Pressure	: 12 Kg/cm ³
Maximum Temperature	: 100°C
Flow Rate	: Upto 200 LPM for Air & 5 LPM for Water Standard (Higher flow rates on request)
Accuracy	: 5% FSD Std (others on request)
Connections (Inlet & Outlet)	: 1/8", 1/4" 1/2"NPT & BSP Standard, (Other sizes and flanged connections on request)

MATERIAL

Materring Tube	: Borosilicate Glass
Body of Rotameter	: 304SS / 316SS / Brass Plated / Carbon Steel plated
Body of DP Regulator	: Die Cast Aluminum / 304 SS / 316 SS (Others on request)
Connections	: 304 SS / 316 SS / Brass plated
Inter connecting Tube for Rotameter and DP regulator	: 304SS / 316SS / Copper Plated
Needle Valve	: 304 / 316SS
Packing	: Teflon / Neoprene

Manufactured & Marketed by :

PLACKA INSTRUMENTS INDIA PVT. LTD.

No.5, Ramamoorthy Street, Nehru Nagar, Chrompet, Chennai - 600 044. INDIA

Phone : 044-2223 1559, 2223 4562 Fax : 044-222 6984

E-mail : sales@plackainstruments.com / Website : www.plackainstruments.com