



# **GAS MONITORING SYSTEM (AUTOMAT)**



# GAS MONITORING SYSTEM (AUTOMAT) :

## Application :

Used in Transformer or other sealed tank while Storing / Transportation to provide constant Nitrogen (N<sub>2</sub>) / Inert Gas / Dry Air pressure so as not to allow atmospheric air & moisture to enter Tank.

## Working :

Gas regulator is used to automatically maintain a positive pressure of 0.05 to 0.50 kg / cm. sq. or as desired (pre information necessary) inside the connected tank by help of attached High Pressure gas cylinder In case pressure falls below set pressure(or as set) due to leakage or temperature variation, regulator automatically allows required additional gas to flow from the attached High-Pressure gas cylinder This builds up the required pressure. Double Stage regulation beside minimizes the risk also increases the flow rate thus the efficiency of system. To know the inlet & outlet pressure, gauges are attached. Safety valve at High-Pressure (H.P) & Low-Pressure (L.P.) is attached so that if any unwanted pressure builds up in regulator chamber is released.

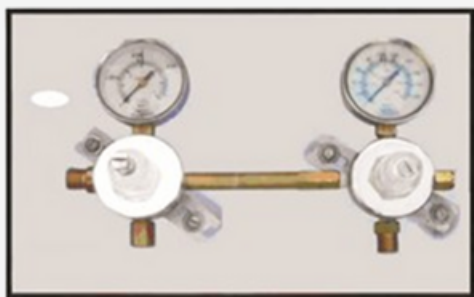
High Pressure cylinder is not a standard part of our item / supply

## Model :

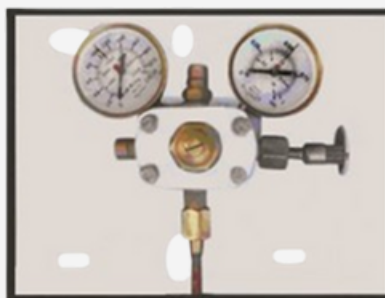
MODEL	No. of Cylinders	No. of Stages	No. of Gauges	Features
SDGR-02	1 or 2	2	2	Box Mounting.
SDGR-02D	1	2	2	Direct Single Cylinder Mounting
DGR-02	1 or 2	2	2	Box Mounting.
DGR-05	1 or 2	2	5	Box Mounting. Individual Cylinder Pressure can be visualized
TGR-02	1 or 2	3	2	Box Mounting. It gives precise control of even very Low Pressure. Gas Purging at Higher Pressure for Conservator without Air Cell can be done by help of 3 Way Valve

## Note:

- Except SDGR-02D all other models are available in Single or Double cylinder.
- In special case number of cylinders can be even higher as desired.
- Heaters can be provided if required.
- Housing for cylinder along with regulator can be provided in all models, as shown in Model TGR-02.



**DGR-02**



**SDGR-02**



**SDGR-02D**

# GAS MONITORING SYSTEM (AUTOMAT) :



## Testing :

Each assembly is tested for Functional & Leakage Test for 24 hrs by compressed gas after blocking outlet connection. During testing Inlet Pressure (of cylinder) is 150 10 kg / cm. sq. & Outlet Pressure is 0.25 0.025 kg / cm. sq. or higher as desired.

L.P hose is tested at 0.7 kg / cm. sq. for 15 minutes or as desired.

H.P hose is tested at 130 10 kg / cm. sq. for 15 minutes.

## Mounting :

Mounting Holes or brackets are provided as desired by customer.

## Identification :

Each Regulator bears a Serial no., Month, Year of manufacturing for proper identification.

## Test Certificate :

Test Certificate is provided with each regulator for the above test performed.

## Special features are :

- Gauges of size 63 mm. with white dial to ensure better readability & are confirming to IS 3624.
- No intermediate setting is required as Automatic regulating of pressure is done after desired single setting.
- Normally Copper HP hose 800 mm. long is provided with Brass socket of 5/8" B.S.P. Male thread to directly connect to cylinder and 3/8" B.S.P. to monitoring system.
- L.P. hose normally 3600 mm. long is of PVC (1 No.) with 3/8" B.S.P. female thread outlet connection. It has Non-Return Valve (NRV) to ensure in case of hose gets leaked the gas in tank does not flows out.