



## **INTRODUCTION**

SG Series are the most popular Metering & Regulating Stations with very large number of installations operating for many years. SG MR Series & SG DR Series are complete packaged solutions ensuring highest level of security & reliability for supply of gas to commercial, industrial installations and City Gas Distribution Networks. SG MR Series Metering & Regulating Station caters to flows up to 2300 SCM/H. SG DR Series Stations are widely used as District Regulating Stations / Common Pressure Regulating Stations in City Gas Networks for flows upto 11000 SCM/H. The SG Series Stations lend itself to most sophisticated features of SCADA based remote monitoring & control functions.

## FEATURES

- Station design meets various requirements of international standards such as ANSI B-31.3/31.8; ASME Sec-VIII, Div-I; EN-12279; EN-12186; IGE-TD-13; AGA-7; AGA-5; AGA-8
- PED/97/23/EC Compliance can be provided.
- Twin Stream; Hot Stand-by; Active Monitoring Configuration offers multiple levels of security & redundancy ensuring trouble-free service for years together even at un-manned locations.
- Over pressure safety shut off in case of abnormally high outlet pressure.
- High Accuracy Outlet Pressure Control, irrespective of variation in inlet pressure & flow through the MRS / DRS.
- RPD / Turbine Meter Options : Count on Nirmal expertise for the selection of metering techniques to suit particular requirement.
- No External Power required : With solar panel powered flow computer / RTU option of external power with battery back up also available.
- Smart Gas Remote Alarm Indications :
  - a) Supply / Distribution Grid Pressure High / Low
  - b) Door Lock Open
  - c) SSV Trip Status
  - d) Excess Flow consumption (for sG MR Series)
  - e) High Filter Differential Pressure
- Smart Gas Remote Control Functions : Emergency gas supply cut off; outlet pressure set point adjustment; flow nomination & flow limiting.
- Remote logging & configuration of all flow & process parameters using various telemetry options such as telephone lines / GSM / GPRS/ Radio/Optic fibre/V-SAT
- Flow Computer / RTU in place of EVC with more features. Power supply options of solar panel or external power with battery back up.

## SPECIFICATIONS

| Technical Specifications | SG DR Series   | SG MR Series  |
|--------------------------|--|---|
| End Connections          | Flanged, SG-DR-204: Inlet-2" x Outlet-4" & SG-DR-306: Inlet-3" x Outlet-6", ANSI-B16.5; Rating 300# class and 150#   | Flanged 2", 3" & 4"; Rating 150# class  |
| Filtration               | 5 Micron   | 5 Micron  |
| Inlet Pressure           | 6 to 45 Kg/cm <sup>2</sup> g   | 2 to 16 Kg/cm <sup>2</sup> g  |
| Outlet Pressure          | 2 to 4 Kg/cm <sup>2</sup> g (Adjustable) Higher outlet pressures available with alternate spring ranges  | 1 to 3 Kg/cm <sup>2</sup> g (Adjustable) Higher outlet pressures available with alternate spring ranges |
| Regulation               | Pilot operated monitor regulator with integral slam shut off valve and pilot operated active regulator with pressure control accuracy to AC 1; Regulator and slam shut comply to EN334 & EN14382 |   |