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 SCMH. SG DR Series Stations are widely used as District Regulating Stations / Common Pressure Regulating Stations in City Gas Networks for flows upto 11000 SCMH. The SG Series Stations lend itself to most sophisticated features of SCADA based remote monitoring & control functions.
GAS METERING & REGULATING STATION
SERIES SG

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

<table>
<thead>
<tr>
<th>Technical Specifications</th>
<th>SG DR Series</th>
<th>SG MR Series</th>
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<tbody>
<tr>
<td>End Connections</td>
<td>Flanged, SG-DR-204: Inlet-2&quot; x Outlet-4&quot; &amp; SG-DR-306: Inlet-3&quot; x Outlet-6&quot;, ANSI-B16.5; Rating 300# class and 150#</td>
<td>Flanged 2&quot;, 3&quot; &amp; 4&quot;; Rating 150# class</td>
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<tr>
<td>Filtration</td>
<td>5 Micron</td>
<td>5 Micron</td>
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<tr>
<td>Inlet Pressure</td>
<td>6 to 45 Kg/cm2g</td>
<td>2 to 16 Kg/cm2g</td>
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<tr>
<td>Outlet Pressure</td>
<td>2 to 4 Kg/cm2g (Adjustable) Higher outlet pressures available with alternate spring ranges</td>
<td>1 to 3 Kg/cm2g (Adjustable) Higher outlet pressures available with alternate spring ranges</td>
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<tr>
<td>Regulation</td>
<td>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 &amp; EN14382</td>
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