

GAS PIPING & UTILITIES PROJECTS



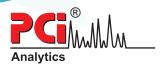












We introduce ourselves as one of the leading manufacturing of Laboratory Gas Handling and Control Systems for various Inert, High Purity, Flammable and Non Flammable Gases. We design, supply, install & develop Turnkey projects for all types of Pharma, Chemicals, Petroleum, Food & Pesticides Laboratories our scope includes

- Supply & Installation of gas piping & utility system
- Gas detection system
- ◆ Low gas alarm panel system
- HPLC drain system
- Gas cabinate & Gas bank shed
- ◆ AAS & ICP Ducting & Exaust
- Gas cylinder automation

Under PCi we have our own manufacturing brand called P-Lok, Under P-Lok we manufacture various products like:

- Change Over Panel
- ◆ Regulator
- ◆ Valve & Micron Filter
- Flexible Hoses
- ◆ Tube & Pipe Fitting
- Clamp / Support / Tagging

We undertake the total Turnkey projects for High Purity Gases, Utilities, Cylinder Storage Systems, Cylinder Cabinets and Drainage Systems.

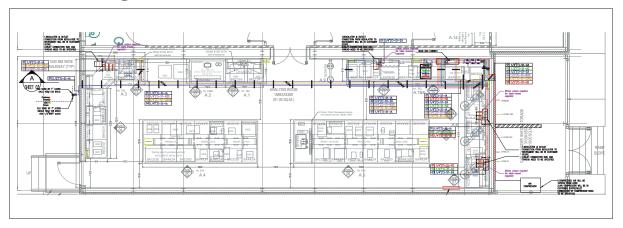
Some of the our prestigious customers are:

- ◆ Hindustan Petroleum Corporation Ltd.
- ◆ Indian Oil Corporation Ltd. (IOCL)
- International Flavour and Fragrances (IFF)
- Mangalore Refinery and Petrochemicals Ltd. (MRPL)
- ◆ Research Centre Imarat (RCI) Hyderabad
- National Thermal Power Corporation Ltd. (NTPC)
- ◆ Bhabha Atomic Research Centre (BARC)
- ◆ Ajanta Pharma Ltd.
- Lupin Ltd.
- Cipla Ltd.
- ◆ Aditya Birla Research Laboratories
- Sun Pharmaceutical Industries Ltd.
- Mylan Laboratories Ltd.

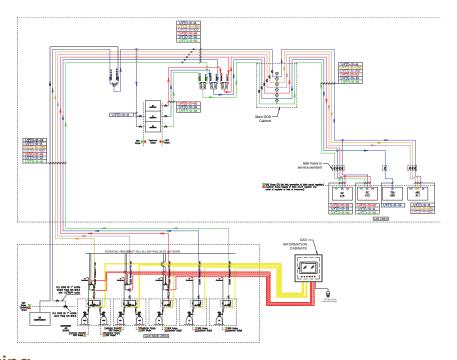
Analytics ®

DESIGNING & LAYOUT

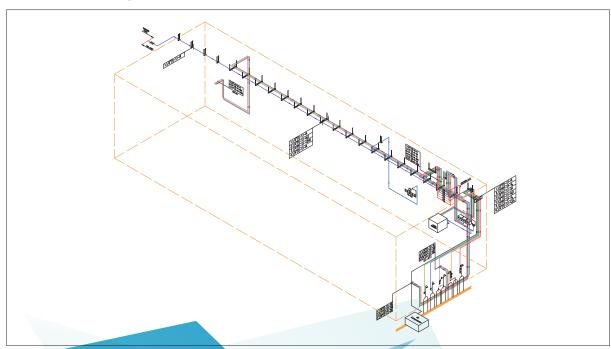
Autocad Drawing



P & ID Drawing

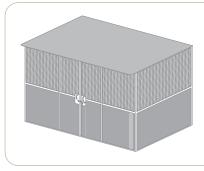


Isometric Drawing



SUPPLY







Cylinder Storage Cabinet / Cage



Unistrut Support Frame



Wall Mounting Bracket



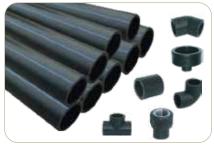
Gas Cylinders / **Gas Mixture Canisters**



Cylinder Trolleys



GI Pipes & Fittings



HDPE Pipes & Fittings



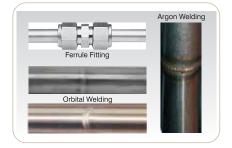
PVC / UPVC / CPVC Pipes & Fittings



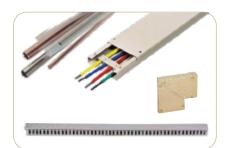
Gas Purification / Distribution Systems



Single / Two Way Valve & Flexible Hose



Types of Tubes & Pipe Joints



PVC & Aluminium Casing Caping



Flash Back Arrester / Quick release Coupling



LPG Burner & Manifold





AUTO GAS CHANGEOVER SYSTEM



Semi Automatic Changeover



Semi Automatic Changeover without Outlet Regulator



Semi Automatic Changeover with Pressure Transmitter

MANUAL CHANGEOVER & MANIFOLD SYSTEM



Manual Changeover Panel for Two Cylinder



Manual Changeover Panel for Single Cylinder



CYLINDER REGULATOR



NGS Series

Double Stage Cylinder Regulator



NGSH Series

Double Stage Cylinder Regulator
with Pre Heater



NGSS Series Single Stage Cylinder Regulator



FBG Series High Piston Type Cylinder Regulator

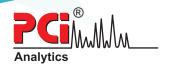


Single Stage Cylinder Regulator



HFS Series High Flow Double Stage Cylinder Regulator





POINT OF USE REGULATORS



Regulator with Outlet Pressure Gauge



Regulator with Inlet & Outlet Pressure Gauge



Regulator with Outlet Pressure Gauge & Ball Valve



Regulator with Inlet & Outlet Pressure Gauge & Ball Valve



Regulator with Inlet & Outlet Pressure Guage



Regulator with Outlet Pressure Guage



Regulator with Outlet Pressure Gauge & Ball Valve



Regulator with Outlet Pressure Gauge, Needle Valve & Shut Off Valve



Regulator with Outlet Pressure Gauge, Needle Valve

BALL VALVES



Ball Valve with Tube Fittings



Ball Valve with Female Fittings



Three Way Ball Valve with Tube Fittings



Ball Valve with Female Fittings





NEEDLE VALVES



Needle Valve with Female Fittings





CHECK VALVE









MICRON FILTER





QUICK RELEASE COUPLING



FLEXIBLE HOSES













FITTINGS

COMPRESSION END FITTINGS



CONNECTOR



CONNECTOR (TEE & ELBOW)



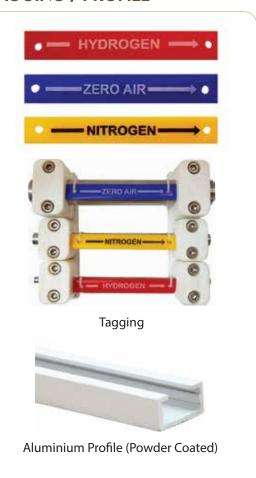
SOCKET WELD FITTINGS



ORBITAL WELD FITTINGS



TAGGING / PROFILE



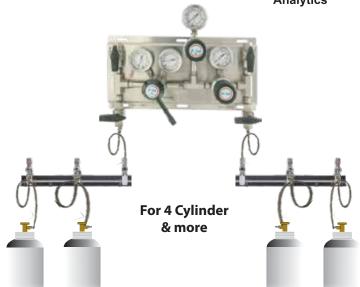
PP CLAMP



AUTOMATIC MECHANICAL GAS CHANGE OVER







Specifications:

Inlet Pressure Guage : 2 Nos. of 0 - 210 kg/cm² guage.

Outlet Pressure Guage : 1 No. of 0 - 14 kg/cm² guage / as per requirement.

Flow : 300 LPM (Max)

Gas Services : Air, N2, H2, He, Ace, Arg, N2o, P10 and other gas and also flammable / non flammable & corrosive gases.

Outlet Connection: 1/4" OD ferrule fitting with ball valve.

Mounting Dimension Size : 500 (L) X 300 (H) X 45 (D) in mm

MANUAL SUPPLY PANEL

Technical Data Sheet:

• Body & Bonnet: Stainless Steel 316 / SS 316L / Brass Chromplated.

• Stage : Single Stage

• Diaphragm: SS 316 / hastelloy having good Protection against Corrosion & burst

· Seat & Sealing: PTFE.

• Safety Relief Valve : MOC: SS316

• Inlet Pressure Gauge: SS316 or Brass Chromplated.

• Outlet Pressure Gauge: SS316 or Brass Chromplated.

Inlet Pressure: 150 BarOutlet Pressure: 12 BarMax Flow - 250 Lpm @ 7Bar.

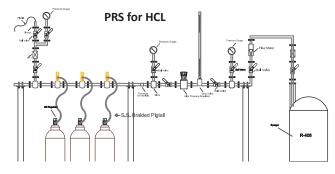
• Purge Value - 1/4" NPTF, Inlet Value - 1/4" NPTF





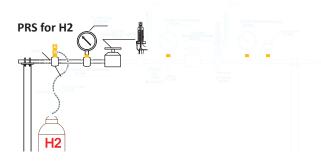
MODEL: PL-MGC-20

PRESSURE REDUCING SYSTEM



PCI make Pressure Regulation System is the most safest method of using flammable & corrosive gases as it has built-in safety shut off arrangement with 100% redundant safety measures. Additional safety interlocks can be incorporated as per process requirements. Provision of Nitrogen purging for safe operation.

These pressure reducing systems are supplied for flows as high as 4000 nm3/hr and are known for its simple design and easy to maintain components.

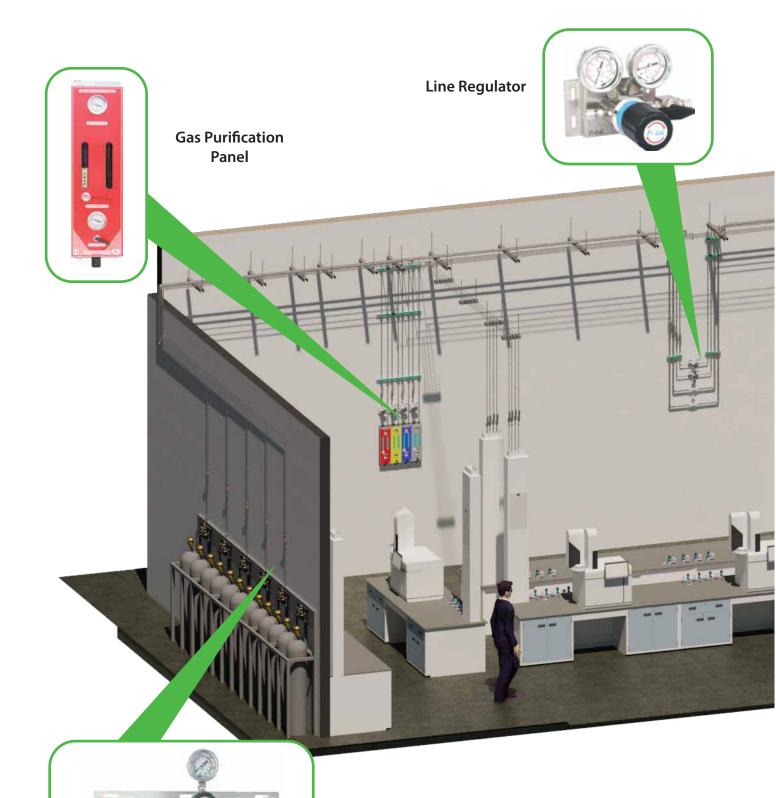


Advantages:

- Ensures fast & maximum possible emptying of gas cylinders.
- Reduced batch time and no. of cylinders change over compared to other means of hydrogen unloading.
- No electrical or pneumatic supply is required to ensure normal working and safety shut-off operation.
- High accuracy in control of final outlet pressure supplied to process is guaranteed.

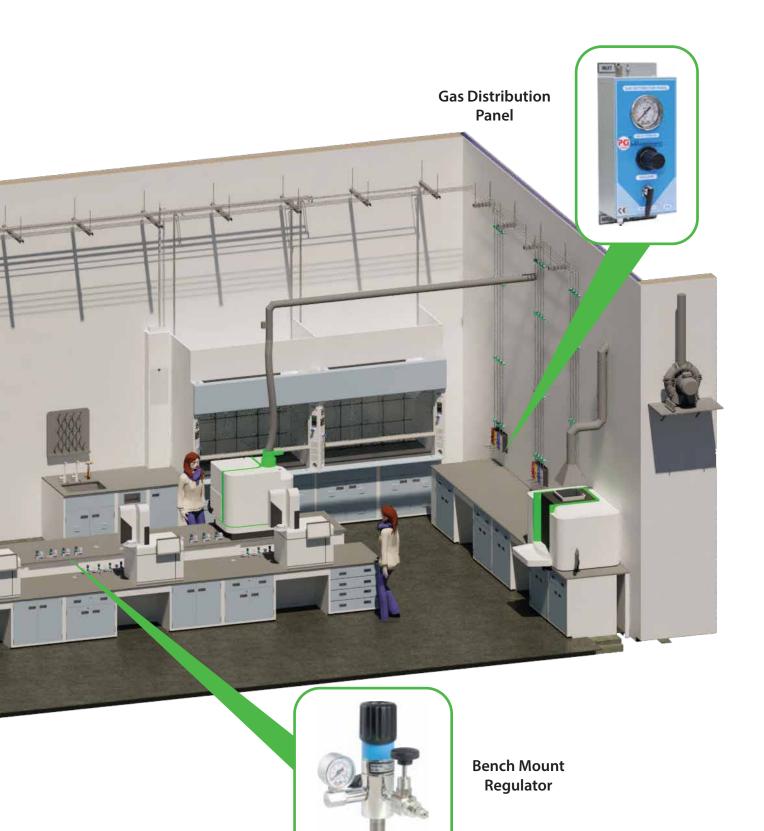


GAS / UTILITY PIPE ROUTING THROUGH FALSE CEILINGS



Semi Automatic Changeover Panel

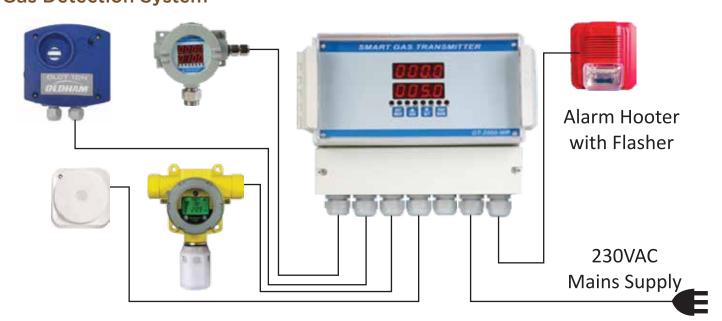




GAS / DETECTOR / DETECTION SYSTEMS

Gas Detection System







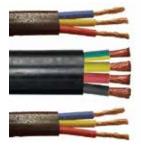
Gas Monitoring Panel Make: OLDHAM



Gas Monitoring Panel Make: Honeywell (Digi Guard)



Gas Monitoring Panel Make : Honeywell (Touch Point)



3 core, 1.5 sq mm Armoured Cable



Cable Tray



Conduit & Saddle



Alarm Hooter with Flasher

Features:

- Dual display of gas concentration & set point / unit of the gas
- Plug in smart field proven sensor
- Programmable linear 4-20mA / 20-4mA O/P with respect to gas concentration
- Easy one man calibration at site
- Optional RS-485 with modbus RTU protocol
- Suitable in hazardous area ATEX, CCOE, CMRI & IP-65 approved.

Applications:

- Gas cylinder bank
- Gas pipeline project
- Chemical processing plant
- Refineries
- Chemical & petrochemical plants
- Oil & gas industries
- Fertilizers plants
- Gas metering station
- Chemical storage area

LOW GAS ALARM SYSTEM

Low gas alarm panel is used to monitor the low pressure level of cylinder, the contact guage / pressure transmitter used in this system helps to give 4 - 20 mA or NO/NC signal to panel to monitor the cylinder empty and filled position.

PCI ®

Specifications of low gas alarm system:

- Fully electronic
- Dual colour / multi colour LED to show the status of cylinder
- Pressure set point (user adjustable)
- External hooter canbe connected
- Acrylic body enclosure
- Single or multiple guage connection provision
- Power supply 230V, 50Hz
- Micro controller based contact guage





Low Gas Alarm Panel

Contact Guage:

Contact guage is used to produce visual and acoustic warning of low gas supply pressure to monitor the cylinder pressure.

Technical Specifications:

- Measuring element : Bourbon tube- Diameter : 50 mm / 100 mm

- Design : Chemical-safety version DIN 16063

- Housing : Brass / SS 316

- Measuring element : CrNi-steel 1.4571, circular form / copper-zink-alloy

Inspection glass
 Nominal pressure
 Display range
 Gas suitability
 Polycarbonate
 230 bar/ 300 bar
 see guage scale
 All gases

- Contact : inductive slit sensor (in accordance with NAMUR)

- Protection class : II 2 G EEx ia IIC T6, PTB 99 ATEX 2219 X

- Connection : NPT 1/4"m outside thread



Pressure Transmitter:

Pressure transmitter is used to produce 4-20 mA to low Gas Alarm Panel to monitor the cylinder pressure.

Technical Specifications:

- Service : Compatible gases and liquids

- Wetted materials : Type 316L SS

- Accuracy : 626: 0.25% FS; 626: 0.20% RSS; 628: 1.0% FS; 628: 0.5% RSS; 626

Absolute Ranges: 0.5% FS; 626 absolute ranges: 0.30% RSS. (Includes linearity,

hysteresis and repeatability)

- Temperature limit : 0 to 200°F (-18 to 93°C) - Compensated temperature range : 0 to 175°F (-18 to 79°C)

- Thermal Effect : ±0.02% FS/°F lincludes zero and span)

- Pressure Limite : see table

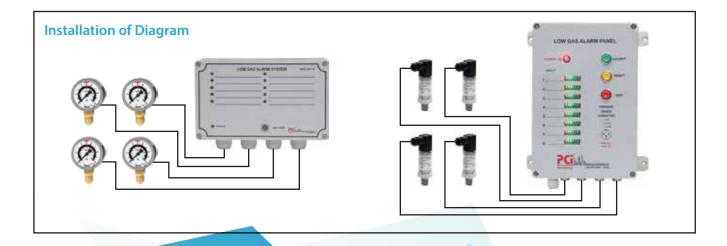
- Power requirements : 10-30 VDC (for 4-20 mA, 0-5, 1-5, 1-6 VDC outputs); 13-30

VDC (for 0-10, 2-10 VDC outputs); 5 VDC \pm 0.5 VDC (for 0.5-4.5 VDC ratio-metric output), 10-35 VDC (for 4-20 mA with - CB option), 13-35 VDC or isolated 16-33

VAC (for selectable output with - CB option)

- Response Time : 300 ms





INSTALLATION SITE PHOTOGRAPHY GAS BANK AREA













SUPPORTING / STRUCTURES













LAB AREA

















































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