Pipe Line Regulators

LM Series -Linemaster Pipeline Regulators

The increased use of manifold cylinders and piped gasses have created a need for specialised regulators. One benefit of a piped gas supply is relatively low pressure of gas within the building. This demands a regulator with large orifics and streamline gas passage to pass large volumes at low inlet pressure.

The LINEMASTER is specially designed for this service and is available for use with most gasses at range outlet pressure 14 bar and is now fitted with a captive pressure adjustment knob for added control and safety.

LM - 200

LM - 9

Specifications : Pipeline Regulators

Model	Max. Outlet Pressure		Gas Application
	Bar	lbf./sq.in.	
LM 9	0.6	9	Acetylene
LM 30	2	30	Fuel gas, Oxygen, Nitrogen
LM 70	5	70	Fuel gas, Oxygen, Argon
LM 200	14	200	Oxygen, Nitrogen

Flow Characteristics of Linemaster Regulators

Delivery Range (lb/sq.in)	Max. Inlet Pressure (lb/sq.in)	Capacity* (cu.ft./hr.)	Inlet Connections	Outlet Connedctions
9	22	100	1/4" NPT (Male)	3/8" BSP
30	435	500	1/4" NPT (Male)	3/8" BSP
70	435	850	1/4" NPT (Male)	3/8" BSP
200	435	2000	1/4" NPT (Male)	3/8" BSP

Special Regulators

ESAB

ISG 43 Series for High Purity Gases

The ISG 43 Series Regulators are the latest in a long line of superb gas control equipment manufacturered with world class ESAB technology.

ISG 43 incorporates latest design changes and proven diffusion-resistant materials to control the exacting requirements of services for speciality gases and provides the user with enhanced safety, durability and precision.

The ultra - high purity gases are expensive and use of diffusion prone components in this most critical control equipments (i.e. regulators) may lead not only to their wastage but may also distort the analytical results. Hence, the need for use of only specially engineered ISG 43 regulators.

The SS packless flow control valve available as an optional extra ensures constant flow of gases at varying pressure ranges.

ISG 43 regulators offer another exclusive feature - provision for using three instruments simultaneously with a single regulator (by adding outlets to ports for purging and relief valve.)

- **Flow :**
  Upto 9000 Liters per Hour

- **Purge Facility :**
The special purge assembly available optionally can be connected to the port for body purge to drive away undersirable contaminating elements before use.

- **Extremely Low inboard Leakage Rate**
Helium leak-tested to ensure non-contamination by diffusion - an assurance of the highest degree of gas purity.

- **Packless Disphragm Valve for high - precision Flow Control (Optional extra)**
Stainless steel packless diaphragm - type valve ensures extermely fine control of outlet flows. Models with suffix 'F' are supplied with flow control valve.

- **Contructed from Non Contaminating materials**
  - Body made of Austentic Stainless Steel AISI 304/316 grade
  - Seat made of TEFZEL
  - Teflon Seals
  - Teflon - lined Stainless Steel Diaphragm
    Guage-Stainless Steel with SS Bourdon Tubes.

- **For a Wide Variety of Gases**
Ammonia, Argon, Helium, Hydrogen, Nitrogen, Nitrous Oxide, Nitric Oxide, Oxygen, Sulphur Dioxide, Rare Gases like Neon, Krypton & Xenon, Arsine, Carbon Monoxide, Carbon Sulphide, Methylene and for many other gases e.g. doping gases etc.

- **Standard Accessories**
  - Inlet & Outlet Gauges
  - Inlet Connection of Ext G 5/8" with Bull Nose Nipple
  - Bonnet Vent Pipe
  - Outlet Compression Fitting for (6.35 mm OD) stainless steel tube

- **Optional Accessories**
  - Stainless Steel Packless Flow Control Valve with one way Check valve
  - Stainless Steel Purge Assembly
  - Special inlet connections made to customer's specification

- **Ordering Details**
  - Specify the model with the gas/gas mixtures for which the regulators are required
  - Specify if any optional items required with details

- **Special Gas Regulators with Brass Body**
ISG regulators with Brass body can also be made available - please refer to us for further details.

Description

Single Stage Regulators

1. ISG 43 S RH I SS
2. ISG 43 S LH I SS
3. ISG 43 S RH II SS
4. ISG 43 S LH II SS
5. ISG 43 S RH III SS
6. ISG 43 S LH III SS

Double Stage Regulators

7. ISG 43 D RH I SS
8. ISG 43 D LH I SS
9. ISG 43 D RH II SS
10. ISG 43 D LH II SS
11. ISG 43 D RH III SS
12. ISG 43 D LH III SS

Note :

- ISG 43 denotes - Regulators for speciality Gases.
- S Denotes - Single Stage.
- RH/LH denote - Type of thread used.
- I, II, III denotes - Pressure and Flow Rate Range as indicated in the box under "Specifications".
- F denotes - with Flow control valve

Specifications

Model	ISG 43 I	ISG 43 II	ISG 43 III
Max. inlet Pressure (kg/cm^2)	250	250	250
Outlet Pressure Range (kg/cm^2)	0.14-5.27	0.8-15	5-25
Flow Ltrs. per hour (Max.)	6000	9000	9000

Available with RH or LH threads depending upon the type of gas