Low Delivery Pressure Regulator

Model 8-2

DESIGN FEATURES

- Low delivery pressure – < 0.06 psi
- 3,000 psi inlet pressure rating
- Brass body construction
- Interstage relief device
- Viton diaphragms
- Outlet shutoff valve with ¼" hose barb

DESCRIPTION

The Matheson Model 8-2 Pressure Regulator is a unique two-stage regulator that reduces full cylinder gas pressure from up to 3,000 psi to very low pressures (0.06-2 psi). This eliminates the need for two regulators when very low delivery pressures are required.

The Model 8-2 Regulator features brass body, Viton diaphragm construction and can be used for a wide range of inert and non-corrosive gases and gas mixtures.

Each Model 8-2 Regulator is fitted with both a cylinder pressure gauge to monitor cylinder contents and a delivery pressure gauge. A high sensitivity diaphragm type 0-3 psi delivery pressure gauge is provided to permit accurate setting of the desired outlet pressure.

APPLICATIONS

Common applications are:

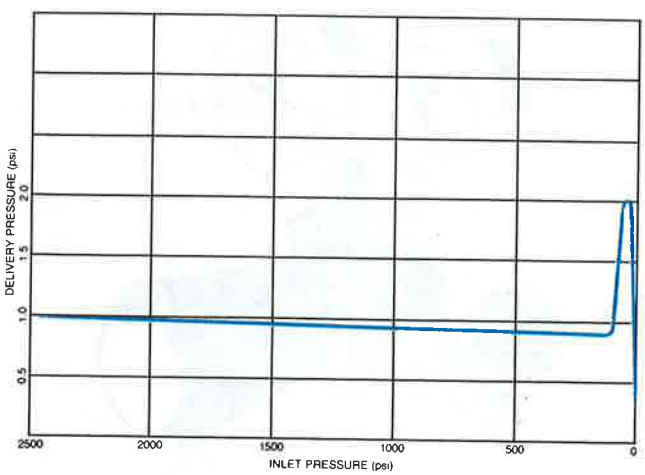
- Fuel control to gas burners (eliminates the need for 2 separate regulator units).
- Purging environmental chambers with cylinder gases and mixtures.
- Maintaining low pressure blanket of inert gas on fuel and chemical storage tanks.

MATERIALS OF CONSTRUCTION

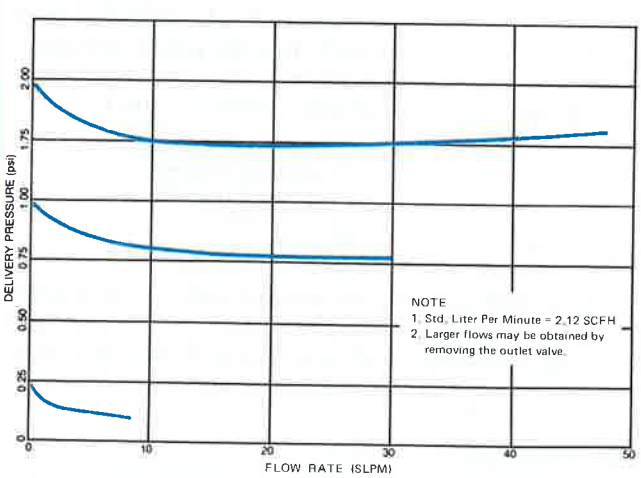
Body:	Brass
Diaphragms:	Viton (both 1st and 2nd stages)
Seat:	1st stage: Kel-F™ 2nd stage: Viton

SPECIFICATIONS

Maximum inlet pressure:	3,000 psi (20,700 kPa)
Cylinder pressure gauge:	0-3000 psi (0-20,700 kPa)
Operating temperature:	0°F - 140°F (– 17 - 60°C)
Interstage relief pressure:	100 psi (690 kPa)
Inlet port in body:	½" - 27
Outlet connection:	¼" MNPT
Dimensions overall:	7½"w x 7½"h x 7"d (19 x 19 x 18 cm)
Shipping weight:	7 lb. 3 oz. (3.2 kg)
Maximum flow:	46 SLPM (98 SCFH)
Delivery pressure range:	0-2 psi (0-13.8 kPa)
Delivery pressure gauge:	0-3 psi (0-20.7 kPa)



Regulation Curve



Flow Curve

MODELS

Model	Delivery Pressure Range (psig)	Delivery Pressure Gauge (psig)	Cylinder Pressure Gauge (psig)
8-2-CGA	0.06-2	0-3	0-3000

Please request Tech/Brief TB-197 for complete details.