

# Product Overview | High Pressure Gas Regulator

**7337A Regulators** reduce high gas supply pressures to practical use levels. Since capacities will vary with the pressure drop across the regulator (see Table D), due care must be exercised in properly sizing both the regulator and downstream piping. Outlet pressure of regulators (except where noted) may be varied through use of interchangeable compression springs within the groups indicated in selection Table B. Compression springs are identified by either color or part number. Products ending in "-SS" contain an integrated overpressure slam-shut device.

## SPECIFICATIONS

**Body Sizes and End Connections:** 1½" NPT

**Orifice Diameter:** See Table C

**Maximum Operating Inlet Pressure:** See Table C

**Maximum Outlet (Casing) Pressure:** 15 psig

**Maximum Operating Outlet Pressure to Avoid Internal Parts Damage - The Outlet Pressure Rating:**  
3 psig above outlet pressure setting

**Temperature Capabilities:** -20° to 150°F

**Pressure Registration:** Internal registration

**Slam-Shut Pressure Registration:** Internal registration

**Approximate Weight:** 25 lbs

## SELECTION

When selecting a regulator, specify its complete designation including pipe size code and spring designation or outlet pressure range.

*Example:* Select a regulator for 2000 scfh of 0.6 specific gravity natural gas from 5 psig supply pressure to 26" w.c. outlet pressure.

*Solution:* Entering Table D, the required spring range is 14 to 30" w.c. Further, the regulator with the appropriate capacity is determined to be the 7337A-3-GNS.

**Table A. Specific Gravity Correction Factor**

Sp Gr	Factor
0.4	1.22
0.6	1.00
1.0	0.774
1.5	0.632
2.0	0.547

If the specific gravity of the gas is other than 0.6, divide desired flow by gravity factor to get equivalent flow of natural gas; then select regulator from Table D.

Multiply a given size regulator's natural gas capacity by gravity factor to get regulator capacity with different gas.

## RELIEF VALVES

The 7337A-3 Regulator comes equipped with a non-adjustable internal limited capacity relief valve feature. This internal relief valve is intended to minimize overpressure that could occur due to seat leakage. If the downstream pressure exceeds the regulator setting by 7 to 56" w.c. depending on the main spring used (see Table B), the relief valve opens and excess gas is vented through the vent in the upper spring case.

