Economy Corrosive Environment Two Stage Regulator

**Description:** This economically priced two stage regulator is designed for analytical applications where the regulator is located in corrosive environments but uses none corrosive gases. The regulator has a stainless steel diaphragm for high purity applications; the needle valve is built into the body to shorten the gas path.

These regulators also have a check valve CGA that prevents contaminants from entering the gas stream during cylinder change out.

The regulator has liquid filled gauges to protect the gauge movement from corrosive environments damaging this movement. The bonnets are a resin material to prevent discoloration from the environment as well. This regulator will last a long time in these environments and prevent common failures as seen on other regulator commonly used in corrosive environments.

**Design Features**
- **Check Valve CGA**
  - Prevents air and contaminants from entering the process stream during cylinder change out
- **Liquid filled gauges**
  - prevent the environment from causing gauge failure
- **Resin bonnets and nickel plated brass body**
  - protects the appearance
- **Stainless steel diaphragm**
  - eliminates off gassing associated with elastomeric diaphragms
- **Needle valve**
  - is built into the body to shorten gas path

**Specifications**
- **Maximum Rated Inlet Pressure**: 3,500 psig
- **Outlet Pressure Ranges**: 0-25, 0-50, 0-100, 0-250 psig
- **Flow Capacity**: Cv=0.13
- **Ambient Operating Temperature**: -40° F to +165° F
- **Designed Leak Rate**: Bubble-Tight (helium)
- **Weight**: 5 lbs
- **Ports (4)**: 1/4" FNPT
- **Inlet**: 1/4" FNPT
- **Outlet**: 1/4" MNPT
- **Decay Inlet Characteristic**: 0.23/100 psi

**Materials**
- **Body**: Nickel-Plated Brass
- **Bonnet**: Nickel-Plated Brass
- **Seat**: PTFE
- **Diaphragm**: 316 Stainless Steel
- **Gauges**: 2 1/2" Nickel-Plated Brass
- **Filter**: 316 Stainless Steel and Bronze
- **Valve Stem**: 316 Stainless Steel
- **Valve Spring**: 316 Stainless Steel
- **Outlet Valve**: Needle valve in body
- **Trim**: Nickel-Plated Brass

**Ordering Information**

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Material</th>
<th>Max Inlet Pressure (psig)</th>
<th>Max Outlet Pressure (psig)</th>
<th>Capacity (scfh @ Max Del. Pressure)</th>
<th>Relief Valve Setting (psig)</th>
<th>Inlet Gauge Range (psig)</th>
<th>Delivery Gauge Range (psig)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y12-DW215A(CGA)</td>
<td>Brass</td>
<td>3500</td>
<td>25</td>
<td>250</td>
<td>85</td>
<td>0-4,000</td>
<td>30° Hg-0-30</td>
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<td>1500</td>
<td>350</td>
<td>0-4,000</td>
<td>0-400</td>
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