Project Details

Date: 

Company: 

Key Contact: 

Phone: 

E-Mail: 

Project Name: 

Project Number: 

Installation City/State: 

Proposal Number/Work Up By: 

Configuration: 

Description: 

Application Details

Fuel: (Natural Gas, Propane, Butane, Air) 

Fuel Supply Pressure: (3-15 psig) 

Emergency Fuel Supply Pressure: (< 80 psig) 

Burner Pressure at High Fire: (inwc) 

Chamber Static Pressure: (inwc) 

Elevation: (< 6,500 feet) 

Ambient Temperature Range: (Std = 14-140°F) 

Special Notes: 

Standardized Valve Safety Train

ENGINEERING GUIDE

Ventless • Industrial • Fast Delivery

Two Year Warranty

Standard Items Included with Every Order

- Dual Unit Gauges
- Full Port Ball Valves
- 2D Certified Drawings
- Technical Documentation
- Pressure and Leak Testing
- Baked Powder Enamel Finish
- #100 Mesh Strainer
- Leak Test Fittings
- 2-Year Warranty
- CSA Compliant
- 3D Models

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Special Notes: 

Safety Train Engineering Guide

Rev. EG071123
Pressure Correction (PC) = \left( \frac{\text{Burner Pressure}}{\text{Chamber Pressure}} \right)^2 \times \text{Field Piping} \times \text{Control Valve} \times \text{NEMA 12 Drop} \times \text{NEMA 4 Adder}

Regulator Spring Flow

- Chamber Pressure = _____ inwc
- Burner Pressure = _____ inwc
- Field Piping = _____ inwc
- Control Valve = _____ inwc
- NEMA 12 Drop = _____ inwc
- NEMA 4 Adder = _____ inwc

Regulator Spring
- Green (2-5.1 inwc)
- Yellow (10-27 inwc)
- Red (2-7.9 inwc)
- Violet (24-59 inwc)
- Black (6-14 inwc)
- Orange (55-118 inwc)

Calculate Pressure Correction

Pressure Correction (PC) = \left( \frac{\text{Burner Max. / Std. Flow}}{\text{Regulator Setting (Total)}} \right)^2 \times \text{C} \times \text{PC}

Select Options and Features

Flow Direction
- Right Handed (flows from left to right)
- Left Handed (flows from right to left)

Inlet Options
- Flexible Connector
  - Yes
  - No
- Lockable Inlet Valve
  - Yes
  - No

Location
- Indoors
- Outdoors to 14°F
- Outdoors, -20°F winterized (NEMA 4 rating required)

NEMA Rating
- NEMA 12 (standard)
- NEMA 4 (alternate)

Electrical
- Terminals Only
- Quick Connections

Pilot Options (150,000 Btu/hr max.)
- 6-14 inwc Pilot Pressure (standard)
- 2-7 inwc Pilot Pressure (alternate)
Add Pilot
- Add
- Omit

Safety Valve Switch Options

<table>
<thead>
<tr>
<th>Valve 1</th>
<th>Valve 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - None</td>
<td>0 - None</td>
</tr>
<tr>
<td>1 - POC</td>
<td>1 - POC</td>
</tr>
<tr>
<td>2 - POC + AUX</td>
<td>2 - POC + AUX</td>
</tr>
</tbody>
</table>

Gauges (inwc ranges unless noted)

<table>
<thead>
<tr>
<th>Inlet</th>
<th>Regulated</th>
<th>Outlet</th>
<th>Control</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-100</td>
<td>0-15</td>
<td>0-15</td>
<td>0-15</td>
</tr>
<tr>
<td>0-5 psi</td>
<td>0-32</td>
<td>0-32</td>
<td>0-32</td>
</tr>
<tr>
<td>0-10 psi</td>
<td>0-55</td>
<td>0-55</td>
<td>0-55</td>
</tr>
<tr>
<td>0-15 psi</td>
<td>0-100</td>
<td>0-100</td>
<td>0-100</td>
</tr>
</tbody>
</table>

Outlet Options
- Flexible Connector
  - Yes
  - No
- Control Valve
  - Yes
  - No

Pressure Switches (inwc ranges)

<table>
<thead>
<tr>
<th>Low</th>
<th>VPS</th>
<th>High</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.2-1.2</td>
<td>0.2-1.2</td>
<td>0.2-1.2</td>
</tr>
<tr>
<td>0.4-4.0</td>
<td>0.4-4.0</td>
<td>0.4-4.0</td>
</tr>
<tr>
<td>2-20</td>
<td>2-20</td>
<td>2-20</td>
</tr>
<tr>
<td>12-60</td>
<td>12-60</td>
<td>12-60</td>
</tr>
<tr>
<td>40-200</td>
<td>40-200</td>
<td>40-200</td>
</tr>
</tbody>
</table>

Reset Type and Range
- Manual
- Automatic

- 1-20
- None
- 1-20
- 12-60
- 40-200
- 40-200