SmartSense™
Excess Flow & Thermal Shutoff Valve
For extra safety in gas appliance connections

KEEPS YOUR FAMILY AND HOME SAFE

• Helps protect against excessive gas leaks, fires, and explosions
• Simple installation
• Compatible with most residential gas appliances
• Made in the USA

Choose appliance connector kits with SmartSense technology for extra protection

Patent Pending

Dormont.com
Natural gas has become essential to our everyday lives, be it for cooking meals or heating our homes. Dormont SmartSense™ technology helps safeguard your home against gas appliance connection hazards. With its unique and innovative design, SmartSense provides your family with the safety and protection they deserve.

Detection and reaction to a gas appliance connector rupture, disconnect or fire is critical in protecting your home and family. Our SmartSense could be a life-saving investment, so the next time you connect, Connect with Confidence, Connect with Dormont.

Appliance connector kits with SmartSense EFV-TS (Excess Flow & Thermal Shutoff Valve) technology are available for these applications and more.

<table>
<thead>
<tr>
<th></th>
<th>SuprSafe® Stainless Steel</th>
<th>SafetyShield® Yellow Coated</th>
<th>LV® Black Coated</th>
<th>Whisperflex®</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dryer</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cooktop</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water heater</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Furnace</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Space heater</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Outdoor grill</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Outdoor fire pit</td>
<td>✓</td>
<td></td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Fireplace</td>
<td>✓</td>
<td></td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>
SmartSense™ provides two levels of protection

SmartSense is an intricately-designed valve comprised of two primary components – a gas flow-limiting plunger and thermal shutoff sensing ring. Under normal operating conditions, both parts remain open to allow gas flow at standard flow rates. However, in the event of a rupture, disconnect of an appliance gas connector, or even a fire, SmartSense automatically activates to help ensure your safety.

1. Excess Flow Limiting
   The plunger limits gas flow in the event of a gas appliance connector rupture or disconnect, helping to protect against a harmful build up of gas within the home. Once the gas line is restored and the pressure equalizes, SmartSense will automatically reset to provide the standard rate of flow.

2. Fire Safe Shutoff
   The thermal ring expands to stop gas flow when exposed to extreme temperatures and the valve reaches 350°F to 425°F.

Connector Kit Selection

Select gas appliance connector kits by intended use, capacity, connection length, fitting size, and type.

- **Shutoff Valve**
  Note the type and size of connection.

- **SmartSense EFV-TS**
  In select kits.

- **Connector**
  Note the required length. Select type to match installation requirements.

- **Adapters**
  Most kits include MIP and FIP options.

- **Appliance**
  Note the connection and required BTU/hr.

Included in connector kits

- Male Adapter
- Female Adapter

or

- Included in connector kits
Benefits

- Thermal sensing shutoff mechanism
- Prevents excessive gas leaks
- Simple installation
- Compatible with most residential gas appliances
- Made in the USA

Features

- High temperature thermal reaction ring
- High temperature, gas-compatible, flow-limiting plunger
- CSA Certified
- California DSA Certified (CA-DSA 16-F01)
- Commonwealth of Massachusetts Approved

SmartSense EFV-TS Specifications

1. Rated Trip Flow and Max Flow Capacity values are kBTU/hr @ max. "w.c. PD (natural gas, 0.64 s.g., 1000 BTU/cu.ft.).
2. A minimum of 5" w.c. inlet pressure is required with a maximum inlet pressure of 14" w.c. (1/2 psig).
3. For more information on flow rates with a specific Dormont gas connector, contact 1-800-DORMONT.
4. Operating temperature: -20°F to 150°F (-29°C to 66°C).
5. Bypass rate: MAX 2.5 SCFH at 0.5 psi.
6. Installation orientation: Multi-poise (horizontal, vertical up, vertical down).
7. EFV Type: EFVB (Bypass with automatic reset).
8. Maximum trip flow is 1.4 times the rated trip flow.
9. Model -TS (Thermal Shutoff) Reaction Temperature Range: 350°F to 425°F (176.7°C to 218.3°C).

<table>
<thead>
<tr>
<th>MODEL 90-1031-V1-TS</th>
<th>MODEL 90-1031-V2-TS</th>
<th>MODEL 90-2031-V4-TS</th>
<th>MODEL 90-3041-V5-TS</th>
<th>MODEL 90-303M-V6-TS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Horizontal</strong></td>
<td><strong>Vertical Up</strong></td>
<td><strong>Vertical Down</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>68 @ 1.05</td>
<td>48 @ 0.30</td>
<td>95 @ 1.55</td>
<td>60 @ 0.40</td>
<td>115 @ 0.70</td>
</tr>
<tr>
<td>105 @ 1.95</td>
<td>65 @ 0.50</td>
<td>115 @ 2.25</td>
<td>80 @ 0.60</td>
<td>145 @ 1.05</td>
</tr>
<tr>
<td>36 @ 0.40</td>
<td>30 @ 0.15</td>
<td>60 @ 0.70</td>
<td>45 @ 0.25</td>
<td>85 @ 0.45</td>
</tr>
<tr>
<td>1/2&quot; MNPT x 3/8&quot; FNPT</td>
<td>1/2&quot; MNPT x 3/8&quot; FNPT</td>
<td>1/2&quot; MNPT</td>
<td>3/4&quot; MNPT x 1/2&quot; FNPT</td>
<td>1/2&quot; MNPT</td>
</tr>
<tr>
<td>Inlet</td>
<td>Outlet</td>
<td>3/8&quot; OD Flare</td>
<td>3/8&quot; OD Flare</td>
<td>1/2&quot; OD Flare</td>
</tr>
</tbody>
</table>