POWERFUL INTELLIGENCE. BREAKTHROUGH FUNCTIONALITY.

SV2 Series Intelligent Safety Shut-off Valve
MEET THE VALVE THAT CHANGES EVERYTHING

In a competitive industry, every advantage matters. The SV2 Series will change how you go to market. Improve how you deliver solutions. And dramatically increase the value you offer customers. So you can drive revenue and grow market share like never before.

FROM ORDINARY TO EXTRAORDINARY

Valve trains today contain multiple components from multiple vendors. They require weeks to assemble, install and commission. Days to troubleshoot and service. And they’re not exactly user friendly.

The Honeywell SV2 Series will redefine the entire valve category as you know it. Embedded intelligence helps you develop differentiated solutions. Modular components reduce assembly, install and commissioning time. The intuitive user interface speeds troubleshooting and service.

And that’s just the beginning.

SMARTER SOLUTIONS FOR MORE CUSTOMERS

Commercial
- Make-up air
- Steam and hydronic boilers
- Schools and universities
- Multi-unit dwellings
- Hospitals

Light industrial
- Paint booths
- Heat treat
- Ovens and kilns
We believe intelligence should address critical business issues and solve customer challenges. That’s why we developed every single intelligent feature in the SV2 Series platform from voice-of-customer feedback. To help you deliver smarter solutions truly aligned with your audience’s needs.

**IMPROVED ENERGY EFFICIENCY**
- Premix electronic regulation for higher turndown
- Premix flexible start eliminates ignition back-pulse issues for smoother light-off
- Variable fuel/air ratio across the whole firing curve for excess air reduction
- Power saving solenoid design reduces electrical energy usage

**INCREASED UPTIME AND PRODUCTIVITY**
- Valve proving using Pressure Module simplifies setup and eliminates separate components
- Onboard diagnostics and remediation steps streamline troubleshooting
- Electronic sensors deliver accurate and repeatable control, eliminating the need to readjust (premix valves only)
- Open-protocol Modbus communication can interface with Thermal IQ or a Building Automation System (BAS) for real-time, remote system monitoring

**EASIER COMPLIANCE MANAGEMENT**
- Smart Pressure Module facilitates valve proving to detect leaks and mitigate costly leaks and potential fines
- Proof of closure switch to help meet code requirements

Impressive capabilities in one streamlined package.
MODULAR DESIGN SIMPLIFIES AND SPEEDS PRODUCT DEVELOPMENT

Time to market is everything. But it can’t come at the expense of cost management. With integrated functions and modular components, the SV2 Series delivers unparalleled business efficiencies that enable you to get solutions to market faster while also helping you control costs.

**REDUCED LABOR AND WARRANTY COSTS**
- Embedded setup and test wizards streamline commissioning
- On-board diagnostics and historical data logs reduce need for service calls
- Intuitive, icon-based user interface for faster troubleshooting
- Field-replaceable electronics and components enable users to service or replace individual components instead of the entire valve

**FASTER ASSEMBLY, INSTALL AND COMMISSIONING**
- 3-in-1 smart pressure module covers high gas, low gas and valve proving
- Normally open vent valve (NOVV) port in all bodies
- Side-flexible electronics, large wire terminals and robust connectors speed install
- Human machine interface (HMI) with setup and test wizards for easier setup and programming

**REDUCED INVENTORY AND CONVERSION COSTS**
- V1 and V2 in a single body
- --40°F/C minimum temperature (on/off function only) eliminates need for additional warming device
- Several integrated functions mean fewer SKUs, reducing inventory carrying costs
- Multiple global agency approvals including CE, CSA, FM, UL, and CSD-1 help contain conversion costs

**FLEXIBLE OPTIONS HELP YOU SERVE MORE MARKETS AND APPLICATIONS WITH ONE PLATFORM**
2 Levels of intelligence to meet a variety of customer needs

**SV20**
- C6097 or C60VR pressure switch
- Proof of closure
- NEMA 4/IP66 enclosure

**SV200**
- External VPS using Pressure Module
- Premix efficiency
- BAS Interface
- Self-diagnostics
- HMI interface
- Communication BUS
- Smart pressure module
- Proof of closure
- NEMA 1/4 (IP20/66) enclosure
**INPUT SKU DESCRIPTION**

**STEP 1: FUNCTION**

<table>
<thead>
<tr>
<th>PRODUCT FAMILY IDENTIFIER</th>
<th>SKU</th>
<th>DESCRIPTION</th>
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</thead>
<tbody>
<tr>
<td>V2F</td>
<td>On/off</td>
<td></td>
</tr>
<tr>
<td>V2V</td>
<td>Fuel/air premix</td>
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**STEP 2: GENERAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Capacity</th>
<th>Port Threads</th>
<th>Enclosure Rating</th>
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</thead>
<tbody>
<tr>
<td>2</td>
<td>B</td>
<td>N</td>
<td>1 NEMA 1/IP20, No electrical connectors (EU only)</td>
</tr>
<tr>
<td>4</td>
<td>C</td>
<td>B</td>
<td>2 NEMA 1/IP20 With electrical connectors</td>
</tr>
<tr>
<td>8</td>
<td>D</td>
<td>N</td>
<td>3 NEMA 4/IP66 No electrical connectors With conduit connections (EU only)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>B</td>
<td>4 NEMA 4/IP66 With electrical connectors With conduit connections</td>
</tr>
</tbody>
</table>

**STEP 3: ELECTRONICS**

<table>
<thead>
<tr>
<th>PROOF OF CLOSURE (POC)</th>
<th>INTELLIGENT FEATURES</th>
<th>ELECTRONICS ORIENTATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Modbus, smart pressure switch interface</td>
<td>As viewed from gas outlet end</td>
</tr>
<tr>
<td>1</td>
<td></td>
<td>L Left hand</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>R Right hand</td>
</tr>
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</table>

**STEP 4: NOT USED**

<table>
<thead>
<tr>
<th>PACK TYPE</th>
<th>CUSTOMIZATION</th>
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<tr>
<td>N</td>
<td>0000 None/Honeywell</td>
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</table>

**STEP 5: FUEL/AIR**

<table>
<thead>
<tr>
<th>FUEL/AIR CONTROL MODULE RANGE</th>
<th>Amplification factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>N</td>
<td>Not applicable</td>
</tr>
<tr>
<td>4</td>
<td>Premix/0.3 - 0.9</td>
</tr>
<tr>
<td>5</td>
<td>Future usage</td>
</tr>
<tr>
<td>6</td>
<td>Future usage</td>
</tr>
</tbody>
</table>

**STEP 6: PACK TYPE**

<table>
<thead>
<tr>
<th>PACK TYPE</th>
<th>CUSTOMIZATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>U</td>
<td>0000 None/Honeywell</td>
</tr>
</tbody>
</table>

**STEP 7: CUSTOMIZATION**

| CUSTOMIZATION | |
|---------------||
| 000X          | Customer specific |

**NOTES**

1. V2F temperature range: -40°F to 145°F (-40°C to 63°C). Max Inlet Pressure: 10psi (0.7kg/mm2) (689mbar). V2V temperature range: -5°F to 145°F (-15°C to 63°C). Max Inlet Pressure: 7.25psi (0.5kg/mm2) (500mbar).
2. Most voltages are -15% / +10% VAC. 100-120VAC voltage for C/D valves is -6% / +10% VAC. All voltages are Class A rated (EN161).
3. Port thread includes NOVV port and pressure taps. NPT only available on 24 VAC and 100-120 VAC models. BSP only available on 200-240 VAC models.
4. Options 1 and 2 only available on V2V models. Options 1 and 3 only available on 200-240 VAC models in EU (no electrical connectors included).
5. POC not available on NEMA 1/IP20 enclosures or 200-240 VAC models. Only 1 POC available on V2V capacity D models with 100-120 VAC and NEMA 4/IP66 enclosures.
6. Pressure Module required for VPS and Pressure Switch functionality. 5=Basic: Only available on V2F models.
7. The required module depends on the gas quality range with a single size gas injector. Gas injector diameter will also determine the amplification factor.
LEGACY VALVE EQUIVALENTS
It’s easy to migrate to the SV2 Series Intelligent Safety Shut-off valve from our legacy valves.

<table>
<thead>
<tr>
<th>LEGACY VALVES</th>
<th>SV20</th>
<th>SV200</th>
</tr>
</thead>
<tbody>
<tr>
<td>(2) V4055/V5055 1&quot;, 120 VAC, POC, NEMA 4/IP66</td>
<td>V2F2BN425LNNNU0000</td>
<td>V2F2BN426LNNNU0000</td>
</tr>
<tr>
<td>(2) V4055/V5055 2&quot;, 220 VAC, POC, NEMA 4/IP66</td>
<td>V2F4DB425LNNNU0000</td>
<td>V2F4DB426LNNNU0000</td>
</tr>
<tr>
<td>V4730, 120 VAC, 1&quot;, NEMA 1</td>
<td>-</td>
<td>V2V2BN206LNNNU0000</td>
</tr>
<tr>
<td>V4370, 24 VAC, 1&quot;, NEMA 1</td>
<td>-</td>
<td>V2V8BN206LNNNU0000</td>
</tr>
</tbody>
</table>

NOTE: Opening time and characteristics may vary between legacy and SV2 Series valves.
Learn More
http://www.combustion.honeywell.com/sv2

For more information
The Honeywell Thermal Solutions family of products includes Honeywell Combustion Safety, Honeywell Combustion Service, Eclipse, Exothermics, Hauck, Kromschröder and Maxon. To learn more about our products, visit ThermalSolutions.honeywell.com or contact your Honeywell Sales Engineer.

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