GAS PRESSURE REGULATORS FOR DEMANDING GAS OPERATIONS
Rely on Recognized Expertise in Gas Pressure Control

When it comes to today’s demanding natural gas industry, there is no room for error. Measurement and control instruments must provide a high level of performance—all the time, in every environment. Honeywell offers a comprehensive line of gas regulation products enabling dependable operations for the various applications in the gas value chain.

With our comprehensive product portfolio, gas industry companies are assured of precise and reliable pressure control. Honeywell’s rugged and accurate gas pressure regulators and control/safety valves deliver outstanding long-term performance and a low total cost of ownership.

Meet Today’s Challenges

Throughout the global gas industry, there are critical challenges related to energy security, climate change, regulatory oversight and more. Rising energy demand is accompanied by key concerns such as regulatory policies and geopolitics as well as price volatility and economic uncertainty. At the same time, developments like shale gas and expansion of the liquefied natural gas (LNG) trade are changing the face of the energy market.

Now, more than ever, gas operators need to partner with an equipment supplier with deep domain expertise, a comprehensive portfolio, and experience helping users integrate operations, maximize asset utilization, and reduce total cost of ownership (TCO).

Responsive Local Support

The world’s major gas providers turn to Honeywell to optimize their diverse operations. We have pioneered regulators for the gas business for more than 100 years, offering end-to-end, smart metering solutions for a host of crucial applications. Customers also count on responsive local support delivered by over 1000 Honeywell employees. We maintain 7 locations in five countries, strategically situated worldwide.

Honeywell regulators have been deployed worldwide more than 250,000+ times and have a customer base of 1400+ customers ranging from local gas distribution companies and power plants to major national gas transportation companies, from direct end customers to pressure station builders.

Experience Where It’s Needed

No other regulator supplier has more expertise in natural gas than Honeywell. From upstream gas production, to transmission, storage and distribution, we understand all aspects of the industry. We collaborate with industrial, commercial and gas distribution customers to apply unsurpassed measurement and control experience—wherever it’s needed.

Solutions Across the Gas Value Chain

Honeywell understands the unique business processes of companies in the rapidly growing natural gas market. The gas value chain demands tightly integrated solutions that provide lower TCO and increased asset utilization to help maximize profitability.

Honeywell delivers accurate, stable and efficient pressure regulation solutions for use across the gas value chain from underground storage units, gas-fired power plants, industrial plants to city gate stations. We have solutions for all tough applications. We work closely with customers to ensure the safety, dependability and performance of their gas assets once they become operational—and throughout the entire life of the investment.

We have products for all possible applications meeting the most diverse customer needs. Our portfolio spans these whole pressure ranges—from regulators which operate at inlet pressures as low as 100 mbar/1.5 psi up to products which accurately regulate at inlet pressures as high as 350 bar/5000 psi. Apart from regulators our portfolio includes all auxiliary equipment needed to compliment the regulator to form a full pressure reduction offering including safety valves, actuators, pilot, filters, gas pre-heater, venting valves, etc.

Beyond single products we can offer our customers the fully engineered gas regulation solution. This can range from off-the-shelf solutions, offered as standardized packages up to fully customized solutions, which are provided as turnkey projects.

From stand-alone products to complete engineered solutions, Honeywell covers the needs of the entire natural gas value chain with a comprehensive line-up of gas regulators, from low to high pressure applications and with a broad range of valve designs.

Standardized Solutions

Example of a standardized package is our gas trains offering. These are small skids which provide a stable and reliable supply of natural gas to gas engines. Gas engines is a rapidly growing segment of combustion engines which can be deployed at land as small power supply or emergency backup as well as at sea as propulsion engine for LNG tankers or power supply for cruise ships. Another example of a standardized solution are underground modules. These are standard pressure reduction skids in a container which can be buried underground and are ideal solution for urban areas with space limitations.

Engineered Automation

Beyond this we can support our customers by helping them to integrate their regulators into the remote operations. Our engineered automation solution enables remote monitoring and control and is targeted at customers who want to optimize their existing gas station or gas supply.

Sub Verticals
Covering the whole natural gas value chain

Transmission Distribution

Power Generation Commercial/Industrial Utilization

Pressure Classes
From high to low

High 350 bar/5000 psi
Medium 20 bar/300 psi
Low 1 bar/15 psi

Designs
Covering all possible customer needs

Avail Globe Membrane

Pilot Operated Direct

Offerings
From products, productized solutions to engineered solutions

Single Product Gas Train Buried Modules

Regulator Stations Automation
Flagship Regulator Portfolio

From the large portfolio of regulator and valve products, Honeywell has selected the Flagship offerings to cover the majority of our customer applications over the entire gas value chain. The advantages of having this Flagship Portfolio are that it allows for faster lead times and quicker responses to inquiries and request for quotations. The rest of the portfolio remains and constitutes one of the key strengths of Honeywell gas solutions: the ability to address the most diverse customer needs with a comprehensive offering.

### Accurate and Reliable

Honeywell’s Portfolio of gas pressure regulation solutions sets the standard for accuracy and reliability. Our gas regulators are rigorously tested and employ state-of-the-art technology. They are designed to handle higher system pressures, ensuring gas delivery and reduced noise output, resulting in increased capacity without emission of natural gas.

<table>
<thead>
<tr>
<th>Product Category</th>
<th>Application</th>
<th>Pressure Range</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regulator</td>
<td>Transmission, Storage, Distribution, Power, Industrial</td>
<td>High Pressure (from 20 Bar up to 100 Bar)</td>
<td>Globe</td>
</tr>
<tr>
<td>Flow Control Valve</td>
<td>Distribution, Industrial</td>
<td>Medium Up to 20 Bar</td>
<td>Globe</td>
</tr>
<tr>
<td>Safety Shut-off Valve</td>
<td>Regulator</td>
<td>High Pressure (from 20 Bar up to 100 Bar)</td>
<td>Globe</td>
</tr>
<tr>
<td>Regulator—Direct and with Pilot</td>
<td>Regulator with Option of Integrated Shutoff</td>
<td>Medium Up to 20 Bar</td>
<td>Globe</td>
</tr>
</tbody>
</table>

- **HON 512**
  - The HON 512 is recognized for its use in transmission and distribution stations and large industrial facilities such as feeding gas turbines in natural gas power plants. It is highly configurable with superior stability and reliability. Users benefit from unmatched gas throughput thanks to an axial flow design, as well as exceptionally fast response. It is easily integrated into standard distributed control system (DCS) platforms, and its versatile expansion options enable lower capital expenditures (CAPEX).

- **HON R100**
  - At the transition points of the large national gas networks into the regional distribution grid and at the connection points of large power plants and industrial facilities to the high pressure grid, large volumes of natural gas have to be reduced from high inlet pressures to much lower values. Essential is that the outlet pressure is kept accurately constant even when the high inlet pressure strongly fluctuates and large variations in demand occur. HON R100 series of high-pressure regulators is ideal for these applications.

- **HON 530-E SP**
  - The HON 530 series consists of electrically operated flow control valves. These valves supply a constant flow of gas independent of the inlet pressure and are available up to inlet sizes of 20”/DN500. Best suited for flow control in gas storage and natural gas networks.

- **HON 530-E WG**
  - The HON 530-E WG is a flow control valve with an electric actuator for electronic flow or pressure control. It is ideal for feeding gas into and/or withdrawing gas from gas storage facilities and important gas mains.

- **HON 503**
  - The HON 503 is a design variant of HON 502, which incorporates an integrated Safety Shut-off Valve (SSV).

- **HON 502**
  - The HON 502 is a pilot-operated gas pressure regulator which is widely deployed in transfer stations in gas transport networks, power plants and industrial facilities, as well as gas storage facilities.

- **HON 5020**
  - The HON 5020 gas pressure regulator features state-of-the-art external pilot operation for safe and accurate control of outlet pressure. Known for its industry-leading stability and reliability, the regulator is a quieter, better performing, modular pilot solution for a wide range of gas applications. Users also achieve lower maintenance and support costs. Target applications are distribution and industrial pressure reducing stations.

- **HON 370**
  - The HON 370 is a spring-loaded, direct-acting pressure regulator that is excellent for dynamic regulating lines (i.e., gas furnaces).

- **HON 372**
  - The HON 372 is the pilot-operated version of the HON370. Ease of maintenance is due to interchangeable functional units. This regulator is ideal for off-take stations in gas transmission as well as commercial and industrial facilities.

- **HON HSV086**
  - The HON HSV086 is a Safety Shut-off Valve (SSV) offering superior over-pressure and under-pressure protection. This shut-off valves is used in gas transmission systems, gas distribution networks and industrial gas pressure regulating systems.

- **HON 711**
  - The HON 711 is a Safety Shut-off Valve (SSV) used for safeguarding against emergency situations. The SSV’s unique axial design ensures minimum pressure drop, while at the same time it supports an in-line maintenance capability, which saves time and money for the operator. This safety valve is used in transmission stations in gas networks, as well as in power plants and industrial facilities.

- **HON 502**
  - The HON 502 is a pilot-operated gas pressure regulator with integrated safety shut-off valve (SSV). This regulator is ideal for use in gas transmission stations as well as in power plants and industrial facilities with inlet pressures of up to 50 bar.

- **HON 402**
  - The HON 402, a pilot-operated gas pressure regulator with integrated safety shut-off valve (SSV). This regulator is ideal for use in gas transmission stations as well as in power plants and industrial facilities with inlet pressures of up to 50 bar.
Discover Integrated Solutions and Technology

Smart, integrated solutions that deliver optimum performance no matter where you operate in the gas value chain.

Choosing the Right Product

In a natural gas system, pressure reducing regulators are used both for transmission and distribution applications. With the broad diversity of pressure-related measurement and control requirements, it is essential to choose a regulator that’s right for the job.

### Application

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Type</th>
<th>Max. Inlet Size</th>
<th>Min. Outlet Size</th>
<th>Max. Outlet Size</th>
<th>Min. Inlet Pressure</th>
<th>Max. Outlet Pressure</th>
<th>AC</th>
<th>SG</th>
<th>Capacity KG</th>
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<tbody>
<tr>
<td>HON 512 Regulator</td>
<td>100/1450</td>
<td>0.3/4</td>
<td>90/1305</td>
<td>25/1</td>
<td>30/12</td>
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<td>5</td>
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<td>HON R100 Regulator</td>
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<td>60/970</td>
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<td>HON 530 F-EP Flow Control</td>
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<td>HON C210S Flow Control</td>
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<td>HON 503 Regulator</td>
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<td>HON 402 Regulator</td>
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<td>HON 372 Regulator</td>
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*1 300/1250 is upon request

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Compressor Stations
Gas/Precision Reducing Skids
Gas Storage
Gas Power Stations (on Transmission Network)
Industrial & Commercial (on Transmission Network)
City/Regional Gas Suppliers
Local Distribution Stations
Industrial & Commercial Utilization
CHP Station Marine
CHP Station Land (Natural Gas)
CHP Station Land (Biogas, Mine Gas, Sewage Gas)
For more information
To learn more about Honeywell’s Flagship Regulator Portfolio, visit www.honeywellprocess.com or contact your Honeywell account manager.

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Scan this QR Code to see how Honeywell’s integrated gas solutions can help you to better manage your gas assets and optimize your value chain.