H Series ISO Valve
(with Universal Manifold)
Bulletin 0600-B95
H Series ISO Valve

Right Sizing

The next evolution of the H Series ISO global valve family has arrived and has expanded to meet the needs of the market today and beyond. The H Series product is a range of robust general service valves for multi-purpose applications adhering to International Standards Organization (ISO) 15407 and 5599 for easy interchangeability. The new design is enhanced in functionality, weight reduced and designed to make it easy to size and install.

Right Sizing

The development of new manifold bases allows you to mix valves from size 02 to size 2 (0.55 to 3 Cv) on one common manifold without utilizing a transition plate. Up to 6.0 Cv can be achieved utilizing a separate size 3 manifold. Right sizing means maximizing the valve to your best advantage, reducing the compressed air [energy] used and minimizing the form factor which lowers the total cost of ownership. The new enhanced universal manifold takes H Series product to the next level by providing the flexibility of multiple electrical connectivity options and several pneumatic zoning possibilities.

For more information visit us at www.parker.com/pdn/HSeriesISO
H Series ISO Valve Connectivity

Network Connectivity

Collective Wiring Connectivity

EtherCAT

Modbus

PLC

H Series Fieldbus

P2M Network Node

Turck Fieldbus

IO-Link

P2H Network Node

Terminal Box

25 pin D-Sub Top

M23

25 pin D-Sub Side
H Series ISO Valve
Features and Benefits

**Pressure Zoning** Multiple Pressure Zones (P1 P2 ... Pn) provide flexibility to meet a variety of applications. Supplying the valves on the manifold with different pressures will allow for variable force output from any attached actuators. In addition, you can control vacuum and remove supply pressure from certain sections while leaving other areas operable. This can be useful in safety applications as well as for maintenance.

**Additional Flow** can be added throughout the manifold. This can be achieved by using a high flow right hand end plate or additional air supply modules.

**Energy Efficient Coils** can be selected to reduce power consumption with minimal performance impact, for 24VDC size 1 & 2 valves.

**Pilot Pressure Zoning** is offered in addition to zoning the supply pressure. The pilot exhaust module (PXM) is available to remove pilot pressure while maintaining supply pressure in the manifold. Removing pilot pressure is a quick way to bring the valve to a safe state in an emergency situation while maintaining pressure at the working ports and coupled with other products can be part of a complete safety solution.

**Sandwich Accessories** are available such as flow controls and pressure regulators which allow for force and speed control of individual valves in the manifold.

**Ease of Assembly and Installation** were the primary principles behind the design of this product. Card edge electrical connectors allow for simple assembly and a robust connection without the hassle of bent pins. The manifold bases feature an interlocking design so they go together easily and reliably and the fasteners are guided to help ensure they go in the right way each time. Installation of the assembled product is simplified with the addition of installation brackets that hold the unit in place while you attach the permanent fasteners in both horizontal or vertical mounting.
## General Specifications

<table>
<thead>
<tr>
<th>Cylinder Bore Size - inches (mm)</th>
<th>1-1/4&quot; (32 mm)</th>
<th>1-1/2&quot; (40 mm)</th>
<th>2.00&quot; (50 mm)</th>
<th>2-1/2&quot; (63 mm)</th>
<th>3-1/4&quot; (80 mm)</th>
<th>4.00&quot; (100 mm)</th>
<th>5.00&quot; (125 mm)</th>
<th>6.00&quot; (150 mm)</th>
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<tbody>
<tr>
<td>1.96 (50)</td>
<td>0.03</td>
<td>0.04</td>
<td>0.06</td>
<td>0.10</td>
<td>0.17</td>
<td>0.26</td>
<td>0.41</td>
<td>0.59</td>
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<tr>
<td>3.93 (100)</td>
<td>0.05</td>
<td>0.08</td>
<td>0.13</td>
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<td>0.35</td>
<td>0.53</td>
<td>0.82</td>
<td>1.19</td>
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<tr>
<td>5.90 (150)</td>
<td>0.08</td>
<td>0.12</td>
<td>0.20</td>
<td>0.31</td>
<td>0.52</td>
<td>0.79</td>
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<td>1.78</td>
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<tr>
<td>7.87 (200)</td>
<td>0.10</td>
<td>0.16</td>
<td>0.26</td>
<td>0.41</td>
<td>0.69</td>
<td>1.05</td>
<td>1.64</td>
<td>2.37</td>
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<tr>
<td>9.84 (250)</td>
<td>0.13</td>
<td>0.20</td>
<td>0.33</td>
<td>0.52</td>
<td>0.87</td>
<td>1.32</td>
<td>2.06</td>
<td>2.97</td>
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<tr>
<td>11.81 (300)</td>
<td>0.16</td>
<td>0.25</td>
<td>0.40</td>
<td>0.62</td>
<td>1.05</td>
<td>1.58</td>
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<tr>
<td>13.77 (350)</td>
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<td>1.85</td>
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<tr>
<td>15.74 (400)</td>
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<td>0.53</td>
<td>0.82</td>
<td>1.39</td>
<td>2.11</td>
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<tr>
<td>17.71 (450)</td>
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<td>0.37</td>
<td>0.59</td>
<td>0.93</td>
<td>1.57</td>
<td>2.37</td>
<td>3.71</td>
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<th>Cylinder Speed - in/s (mm/s)</th>
<th>HB</th>
<th>HA</th>
<th>H1</th>
<th>H2</th>
<th>H3</th>
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### Application Guide

Cylinder to valve: The chart below contains recommendations for selecting air valve products based on cylinder sizes, actuation speed and 80 PSI (5.5 bar) with a 5 PSI (0.35 bar) pressure drop. The values within the chart show the corresponding Cv values.
H Series ISO Valve
2 easy ways to order H Universal

1. Online Configuration

Navigate to the landing page
www.parker.com/pdn/HSeriesISO
Customize your manifold assembly
Create and save a unique assembled part number
Generate a CAD model

OR

2. Order Components

A. Select Endplate Kit
   Includes Left and Right Hand Endplate

B. Select Valve Manifold Segments
   Manifold [size HB, HA, H1 or H2]
   Air Supply Module

C. Select Valve Stations
   Valves [size HB, HA, H1 or H2]
   Blanking Plate

D. Select Sandwich Accessories
   Sandwich Regulators
   Sandwich Flow Control
   Pilot Exhaust