Manufacturers of Standard and Custom Charging Valves
WE WERE FOUNDED IN 1983

OUR MAILING ADDRESS IS:
2029 Verdugo Blvd. #710
Montrose, CA 91020

CUSTOMER SERVICE/ORDER DESK DIRECT:
(310) 676-3057

OUR MAIN SWITCHBOARD PHONE NUMBER IS:
(310) 676-3050

OUR FAX NUMBER IS:
(310) 676-1398

OUR E-MAIL ADDRESS IS:
usavalvecompany@yahoo.com

OUR WEBSITE ADDRESS IS:
usavalvecompany.com

WE'RE ALWAYS READY TO TAKE YOUR ORDER

CALL OUR ORDER DESK DIRECT
Monday thru Friday: 8 a.m. to 4 p.m.
We have been manufacturing HIGH PRESSURE Charging Valves to military and commercial standards since 1983. We also design and manufacture special charging valves to customer requirements or design. Unlike our competitors, our only product line is valves & related support parts for charging valve applications.

We manufacture all our own valve components (except for the seals and o-rings). All metal parts are machined to exact drawing and military spec requirements. This control of both the manufacturing process and the assembly of the valves insure the reliability and integrity of our products and our reputation as a quality manufacturer.

We supply free of charge all material certifications, including chemical and physical test reports. At our company we believe that service to our customers is the first step in being a quality world class supplier. We specialize in working with blanket type orders to meet “Just-in-Time” shipments to our customers.

*OUR PLANT LOCATION IS IN HAWTHORNE, CALIFORNIA AND IS FILLED WITH EXPERIENCED KNOWLEDGEABLE PEOPLE COMMITTED TO OUR QUALITY OUR COMPETITIVE PRICING AND THE BEST POSSIBLE CUSTOMER SERVICE

*FOR AN ONLINE PLANT TOUR. PLEASE GO TO OUR WEBSITE usavalvecompany.com
HIGH PRESSURE CHARGING VALVES

Bodies constructed of stainless steel for use in high pressure shock absorber struts, hydraulic pressure accumulators, surge cylinders, they all have a .305-32 threads on the inflating end and a 1/2” – 20 thread for connection to the container.

AV812 Charging Valve
For operating pressures up to 2,000 P.S.I
Conforms to AN-812-1.
This valve has a core that meets AN809
* Optional 4,000 P.S.I. core is available.

AV4361 Charging Valve
For operating pressures up to 3,000 P.S.I.
Conforms to AN-6287-1.
This valve has a core that meets AN809
* Optional 4,000 P.S.I. core is available

AV798 Charging Valve
For operating pressures up to 5,000 P.S.I.
Conforms to MS-28889-2.

AV10K Charging Valve
Our exclusive (Patented)
For operating pressure up to 10,000 P.S.I.
Conforms to M6164-12
Extra heavy duty construction,
Features our trademark CONICAL COPPER SEAT™
Designed to function 1,000 cycles minimum
These high-pressure inflating connections attach securely to the .305-32 threads of high-pressure valves. It can be fitted to gauging and inflating devices by a variety of methods. Various angles permit easy attachment to hard to reach valves.

<table>
<thead>
<tr>
<th>Connection ID</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AV2755 High Pressure Inflating Connection</strong></td>
<td>Fits .305-32 valve thread with a 3/8-24 thread to fit a 3/16” flare tube fitting, <strong>connection meets MS33656E3</strong>. Has core depressor pin, and copper sealing washer. Maximum working pressure 5,000 PSI</td>
</tr>
<tr>
<td><strong>AV556 High Pressure Inflating Connection</strong></td>
<td>Fits .305-32 valve thread with a 1/8” NPT male connection. Has core depressor pin, and copper sealing washer. Maximum working pressure 5,000 PSI</td>
</tr>
<tr>
<td><strong>AV6116 High Pressure Inflating Connection</strong></td>
<td>Fits .305-32 valve thread with a 1/8” NPT female connection. Air line connection is 70° to the axis of the valve. Has a fiber sealing washer. Maximum working pressure 3,000 PSI</td>
</tr>
<tr>
<td><strong>AV5007 High Pressure Inflating Connection</strong></td>
<td>Fits .305-32 valve thread with a 7/16-20 thread to fit a ¼” flare tube fitting connection has swivel type construction to prevent kinking of tube or hose while tightening and has a copper sealing washer. Maximum working pressure 15,000 PSI</td>
</tr>
<tr>
<td><strong>AV5008 High Pressure Inflating Connection</strong></td>
<td>Fits .305-32 valve thread with a 1/8” NPT female connection has swivel type construction to prevent kinking of tube or hose while tightening and has a copper sealing washer. Maximums working pressure 15,000 PSI</td>
</tr>
</tbody>
</table>
TANK VALVES

Bodies constructed from 303 stainless steel. All have .305-32 threads on the inflating end

**AV 300 Stainless Steel Tank Valve**
Designed to be used with an internal valve core.
Conforms to SAE #3
3/8-24 threads
1/2” hex wrench flats

**AV 500 Stainless Steel Tank Valve**
Designed to be used with an internal valve core.
Conforms to SAE #5
1/2-20 threads
5/8” hex wrench flats

**AV 700 Stainless Steel Tank Valve**
Designed to be used with an internal valve core.
1/8 NPT threads
7/16” hex wrench flats

BLEEDER VALVES

Used for quick and easy way to evacuate air from the system

**AV125B**
Made from Brass. 7/16 wrench flats,
1/8 NPT threads. 1” overall

**AV250B**
Made from Brass. 9/16 wrench flats,
1/4 NPT threads. 1-5/8 overall length
**Heavy Duty Valve Caps**

**AV 813SS**
Our stainless steel version of the standard yellow MS Valve Cap is designed for heavy-duty use in Harsh environments, and is longer in length to protect more of the valve threads. Max working pressure 20,000 PSI

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**STANDARD BRASS VALVE CAPS**
All of our valves come with a standard yellow MS 20813 valve cap which is a Q.P.L. item. We secure Q.P.L. items only from qualified Q.P.L. manufacturers and we can supply them in a variety of colors.

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**AGRICULTURAL VALVE CAPS**
Available in 3”, 3 ½”, and 4” sizes
Construction made from all non-metal Rust proof polymer. Universal design Fits both Fresno valves and Waterman valves.
Manufactured to Military specifications made from stainless steel. They have 1/2 -20 class 3A threads for connection to the container.

**Standard**
**MS28889-2**
Working Pressure
5,000 psi

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**AV10K**

Manufactured to Military specifications made from stainless steel. They have 1/2 -20 class 3A threads for connection to the container.

**Standard**
**Mil-V-6164-12**
Working Pressure
10,000 psi

**AV10K** (patent pending) is the most heavy duty charging valve made. It features an extra heavy duty swivel nut with thicker walls and wider flats. The main body is heavier and has one extra thread. The internal stem is more rigid and most important it comes equipped with our trademarked “Conical Copper Seat™” which allows the valve to cycle over 1,000 opening and closing cycles, this conical copper seat gives this valve more reliable sealing and more sealing cycles, and make this valve the most economical charging valve made because its operational life is at least 10 times longer than that of any other valve we sell.
AN6287-1

Manufactured to aeronautical specifications made from stainless steel. They have 1/2 - 20 class 3A threads for connection to the container. Assembly includes High pressure valve cap per MS 20813-1, and an internal valve core per AN809-1, available with an optional 4,000 psi valve core.

\[ \text{Standard} \]
\[ \text{AN6287-1} \]

\[ \text{Working Pressure} \]
\[ 3,000 \text{ psi with an optional core} \]
\[ 4,000 \text{ psi} \]

AN812

Manufactured to aeronautical specifications made from stainless steel. They have 1/2 - 20 class 3A threads for connection to the container. Assembly includes High pressure valve cap per MS 20813-1, and an internal valve core per AN809-1, available with an optional 4,000 psi valve core.

\[ \text{Standard} \]
\[ \text{AN812} \]

\[ \text{Working Pressure} \]
\[ 2,500 \text{ psi with an optional core} \]
\[ 4,000 \text{ psi} \]
HIGH PRESSURE INFLATING CONNECTORS

<table>
<thead>
<tr>
<th>Our No.</th>
<th>Schrader No.</th>
<th>Fits Thread Size</th>
<th>Air Line Connection</th>
<th>Max. Pressure Rating</th>
<th>Configuration</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>AV556</td>
<td>556</td>
<td>.305-32</td>
<td>1/8” NPT Male</td>
<td>5,000</td>
<td>Air line connection 90° to axis of valve</td>
<td>Has core depressor pin Copper sealing washer</td>
</tr>
<tr>
<td>AV2755</td>
<td>2755</td>
<td>.305-32</td>
<td>3/8”-24 thread for 3/16” flare tube fitting, meets MS-33656E4</td>
<td>5,000</td>
<td>Air line connection 90° to axis of valve</td>
<td>Has core depressor pin, copper sealing washer</td>
</tr>
<tr>
<td>AV6116</td>
<td>6116</td>
<td>.305-32</td>
<td>1/8” NPT Female</td>
<td>3,000</td>
<td>Air line connection 70° to axis of valve</td>
<td>Hard fiber sealing washer</td>
</tr>
<tr>
<td>AV5007</td>
<td>5007</td>
<td>.305-32</td>
<td>7/16”-20 thread for 1/4” flare tube fitting, meets MS-33656E4</td>
<td>15,000</td>
<td>Straight short air line connection</td>
<td>Copper sealing washer.</td>
</tr>
<tr>
<td>AV5008</td>
<td>5008</td>
<td>.305-32</td>
<td>1/8” NPT Male</td>
<td>15,000</td>
<td>Straight short air line connection</td>
<td>Copper sealing washer</td>
</tr>
</tbody>
</table>

* It may be necessary to replace sealing washers after a number of uses to ensure a good seal at the valve mouth.

**Our Exclusive:**
All Stainless Steel Components: Only our company’s inflating connectors are made with all stainless steel components. This makes our inflating connectors corrosion proof. At the time of this printing, all of our competitors made their inflating connector components from plain steel; which of course corrodes (rusts).

Extra Heavy Duty construction and double stem seals allow our AV556 and AV2755 Air Chucks to be rated 5,000 P.S.I.

All stainless (except for the sealing washer and brass body) on AV556, AV2755 and AV6116

All stainless (except for the copper seat) on AV5007 and AV5008
AIR CHUCKS/INFLATING CONNECTORS
WHY OURS ARE BETTER

- Rated to 5,000 psi
- All stainless steel components (except main body and seals)
- Corrosion proof
- Heavy duty construction for longer service life.

Optional: STAINLESS STEEL THREADED INSERT

Increases functional life
Increases Torque capacity
Cost less in the long run due to longer service life
AV10K
OUR COMPANY’s SUPER HEAVY DUTY
10,000 psi CHARGING VALVE

- Thicker wall on nut to prevent nut from dislodging under heavy torque
- One extra thread for added strength in mating part
- Thicker flats on operating nut to better accommodate wench
- More threads on nut and stem to accommodate higher torque without stripping
- Wall of stem thicker to allow higher torquing without “stretching stem”
- Square seal is more reliable at higher pressures.
- Conical Copper Seat (patent pending) provides a more reliable seal and allows more cycles. (see Brochure pages 2 and 6)
Quality Control

Valves are tested in submersion tanks at their operating pressure to ensure product reliability and trouble-free performance.

Our Quality Control system meets the following Specification:

ISO-9001-2008 & MIL-I-45208 and we are approved by most major prime contractors.

Checking and double checking visually on optical comparators as well as bench checking using standard inspection methods throughout the entire manufacturing process is standard procedure for all items manufactured by our company.
# PART NUMBER CROSS REFERENCE GUIDE

<table>
<thead>
<tr>
<th>OUR</th>
<th>SCHRADER</th>
<th>DILL</th>
<th>STD</th>
<th>DESCRIPTION</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>AV812</td>
<td>7607AH</td>
<td>SK15171</td>
<td>AN-812-1</td>
<td>Charging Valve</td>
<td>2, 7</td>
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<tr>
<td>AV798</td>
<td>798</td>
<td>9019C</td>
<td>MS-28889-2</td>
<td>Charging Valve</td>
<td>2, 6</td>
</tr>
<tr>
<td>AV4361</td>
<td>436S</td>
<td>8990C</td>
<td>AN-6287-1</td>
<td>Charging Valve</td>
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<tr>
<td>AV10K</td>
<td>N/A</td>
<td>N/A</td>
<td>M-6164-12</td>
<td>Charging Valve</td>
<td>2, 6, 10</td>
</tr>
<tr>
<td>AV813SS</td>
<td>2525</td>
<td>637</td>
<td>MS-20813-1</td>
<td>High Pressure valve cap</td>
<td>5</td>
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<tr>
<td>AV556</td>
<td>556</td>
<td>8921</td>
<td></td>
<td>High pressure inflating connection</td>
<td>3, 8, 9</td>
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<tr>
<td>AV2755</td>
<td>2755</td>
<td>9043</td>
<td>MS-33656E3*</td>
<td>High pressure inflating connection</td>
<td>3, 8, 9</td>
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<tr>
<td>AV6116</td>
<td>6116</td>
<td>SK2043C</td>
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<td>3, 8</td>
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<tr>
<td>AV5007</td>
<td>5007</td>
<td>N/A</td>
<td>MS-33656E4*</td>
<td>High pressure inflating connection</td>
<td>3, 8</td>
</tr>
<tr>
<td>AV5008</td>
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<td>N/A</td>
<td></td>
<td>High pressure inflating connection</td>
<td>3, 8</td>
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<tr>
<td>AV300</td>
<td>N/A</td>
<td>N/A</td>
<td>SAE # 3</td>
<td>Tank Valve</td>
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<tr>
<td>AV500</td>
<td>N/A</td>
<td>N/A</td>
<td>SAE # 5</td>
<td>Tank Valve</td>
<td>4</td>
</tr>
<tr>
<td>AV700</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
<td>Tank Valve</td>
<td>4</td>
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<tr>
<td>AV125B</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
<td>Bleeder Valve</td>
<td>4</td>
</tr>
<tr>
<td>AV250B</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
<td>Bleeder Valve</td>
<td>4</td>
</tr>
</tbody>
</table>

*Also meets fitting connections AS4395-3, AS4395-4 respectively
We have made a sincere effort to describe the products in this catalog accurately. However, descriptions, illustrations, and photos are for identification and decorative purposes only and not intended to imply a warrantee of function, fit, or purpose of the product.

OUR QUALITY GUARANTEE

We will always stand behind our products 100%. If at any time, any customer finds any manufacturing defects in parts made by us we will replace them at no cost.

OUR PRICE GUARANTEE

*We will beat any competitor’s price by at least 5% on any product we make, no matter what!*  
*No IFS, ANDS, OR BUTS!*