Pig Valves
Complete Solutions for Industrial Valves

JAG FLOCOMPONENTS N.A..
8440 Roper Road Edmonton
Alberta Canada, T6E 6V4
Phone: +780-485-2333
Fax: +780-485-2316
E-mail: info@jagflo.com

JAG Flocomponents USA, Ltd.
12315 Parc Crest Drive Suite 190
Stafford, Texas 77477
Phone: 281-933-5775
Fax: 281-933-5779
E-mail: ussales@jagflo.com
Complete Solutions for Engineered Valves

Being one of the leading valve manufacturer in the world, Neway exclusively specializes in the development of innovative designs, through intensive R&D programs and engineering excellence. We engineer and manufacture valve solutions for all industries. Main product lines include Gate, Globe, Check, Butterfly and Ball valves. Neway’s quality and innovative designs are recognized by many global users and EPC’s. These products have been installed throughout the world, handling a wide variety of applications in the Gas, Oil, Refining, Chemical, Marine, Power Generation and Pipeline Transmission Industries.

Neway Facilities

Neway’s management groups are structured based on operating several plants. Neway valves are manufactured in 6 specialized manufacturing facilities, four in China, one in Mexico and the other in Saudi Arabia. Castings are sourced from Neway-owned specialized foundries. Of the company employs over 1700 people. The company operates an intranet consisting of over 400 computers, running the most advanced R&D software including CAD, I-Deas, Pro-E, a number of CNC & machine centers and warehouse bar code management systems. We are one of the few valve manufacturers performing Enterprise Resource Planning (ERP), in-house fire safe and cryogenic tests, high pressure gas and low fugitive emission test.

Quality Assurance

Neway’s quality assurance is dedicated to the pursuit of zero defect valve supply to our customers. We have implemented a 6 sigma management process in order to continually improve our process and management control through the use of advanced statistical data analysis. Neway holds most of industrial valve manufacturing certificates, such as ISO 9001, CE/PED, TA-Luft, API 6A, API 6D, ABS, and API 607 Fire Safe certificate.

Neway recognizes the importance of valve quality for the safety and protection of personnel health and property. It is our quality commitment to focus our resources to provide our customers with first class products at a competitive price, that are designed, manufactured, inspected and tested in accordance with our customer’s specifications and that comply with all international standards. With respect to the facts that the current industrial standards do not always take into consideration the likelihood and consequences of possible deterioration in service, related to specific service fluids or the external environment in which they operate. Our customers are requested to keep an open line of communication with our engineering department to identify and implement standards, that will provide valves with the possibility of deterioration in service, so as to ensure safety over the valves expected lifetime.
Complete Solutions for Engineered Valves

Being one of the leading valve manufacturers in the world, Neway exclusively specializes in the development of innovative designs, through intensive R&D programs and engineering excellence. We engineer and manufacture valve solutions for all industries.

Main product lines include Gate, Globe, Check, Butterfly and Ball valves. Neway’s quality and innovative designs are recognized by many global users and EPC’s. These products have been installed throughout the world, handling a wide variety of applications in the Gas, Oil, Refining, Chemical, Marine, Power Generation and Pipeline Transmission Industries.

Neway Facilities

Neway’s management groups are structured based on operating several plants. Neway valves are manufactured in 6 specialized manufacturing facilities, four in China, one in Mexico and the other in Saudi Arabia. Castings are sourced from Neway-owned specialized foundries. Of the company employs over 1700 people.

The company operates an intranet consisting of over 400 computers, running the most advanced R&D software including CAD, I-Deas, Pro-E, a number of CNC & machine centers and warehouse bar code management systems. We are one of the few valve manufacturers performing Enterprise Resource Planning (ERP), in-house fire safe and cryogenic tests, high pressure gas and low fugitive emission test.

Quality Assurance

Neway’s quality assurance is dedicated to the pursuit of zero defect valve supply to our customers. We have implemented a 6 sigma management process in order to continually improve our process and management control through the use of advanced statistical data analysis. Neway holds most of industrial valve manufacturing certificates, such as ISO 9001, CE/PED, TA-Luft, API 6A, API 6D, ABS, and API 607 Fire Safe certificate.
Pig valve, normally consists of Pig Launching & Pig Receiving valve, is a device to clean the internal pipe periodically, and it is especially widely used in Oil & Gas pipeline industry. Neway series pig valves are developed from our existing series BS forged steel 3PC trunnion mounted ball valves, and have the function of launching or receiving pig as well as all the natural function of standard pipe line ball valves. This field-tested pig valve offers durability and reliability service for oil and gas applications to improve the piping transportation efficiency. It can easily and safely use most of popular pig styles, either One-Piece Molded Pigs or Spherical Pigs that are intended for use in pig ball valves.

Main Application:
- Clean the new installed pipe internal residue prior first commissioning.
- Internal pipe wall anti-rust and corrosion-resistant coating.
- Pipe regular maintenance to removal of liquid, wax and general cleaning.
- Isolation and transition of differential working media in same pipe.

Above ratings are for soft seat components Please consult ASME B16.34 for Body and Closure Pressure/Temperature ratings.
### How to Order

<table>
<thead>
<tr>
<th>Type</th>
<th>Construction Style</th>
<th>Port</th>
<th>Size</th>
<th>Connection Type</th>
<th>Pressure Rating</th>
<th>Style/Service</th>
<th>Top Works</th>
</tr>
</thead>
<tbody>
<tr>
<td>P-V</td>
<td>Pig Valve</td>
<td>F=Full</td>
<td>2&quot;</td>
<td>A=RF Smooth Face</td>
<td>01-150 ASME</td>
<td>Gear Op.</td>
<td>H - Handle</td>
</tr>
<tr>
<td>V-L</td>
<td>Pig Valve</td>
<td>F=Full</td>
<td>3&quot;</td>
<td>B=BW Sch. 40</td>
<td>02-300 ASME</td>
<td></td>
<td></td>
</tr>
<tr>
<td>L-R</td>
<td>Pig Valve</td>
<td>F=Full</td>
<td>4&quot;</td>
<td>C=BW Sch. 80</td>
<td>03-600 ASME</td>
<td></td>
<td></td>
</tr>
<tr>
<td>R-R</td>
<td>Pig Valve</td>
<td>F=Full</td>
<td>6&quot;</td>
<td>D=BW Sch. 160</td>
<td>04-900 ASME</td>
<td></td>
<td></td>
</tr>
<tr>
<td>R-R</td>
<td>Pig Valve</td>
<td>F=Full</td>
<td>8&quot;</td>
<td>E=BW Sch XXH</td>
<td>05-1500 ASME</td>
<td></td>
<td></td>
</tr>
<tr>
<td>G-V</td>
<td>Gear Valve</td>
<td>F=Full</td>
<td>10&quot;</td>
<td>F=Stainless Steel</td>
<td>15-2500 ASME</td>
<td></td>
<td></td>
</tr>
<tr>
<td>L-V</td>
<td>Pig Valve</td>
<td>F=Full</td>
<td>12&quot;</td>
<td>G=Low Temp Nace</td>
<td>16-3000 ASME</td>
<td></td>
<td></td>
</tr>
<tr>
<td>G-V</td>
<td>Gear Valve</td>
<td>F=Full</td>
<td>14&quot;</td>
<td>H=High Temp</td>
<td>17-4500 ASME</td>
<td></td>
<td></td>
</tr>
<tr>
<td>L-V</td>
<td>Pig Valve</td>
<td>F=Full</td>
<td>16&quot;</td>
<td>I=Stainless Steel</td>
<td>18-6000 ASME</td>
<td></td>
<td></td>
</tr>
<tr>
<td>L-V</td>
<td>Pig Valve</td>
<td>F=Full</td>
<td>18&quot;</td>
<td>J=Stainless Steel</td>
<td>19-8000 ASME</td>
<td></td>
<td></td>
</tr>
<tr>
<td>L-V</td>
<td>Pig Valve</td>
<td>F=Full</td>
<td>20&quot;</td>
<td>K=Stainless Steel</td>
<td>20-10000 ASME</td>
<td></td>
<td></td>
</tr>
<tr>
<td>L-V</td>
<td>Pig Valve</td>
<td>F=Full</td>
<td>24&quot;</td>
<td>L=Stainless Steel</td>
<td>21-12000 ASME</td>
<td></td>
<td></td>
</tr>
<tr>
<td>L-V</td>
<td>Pig Valve</td>
<td>F=Full</td>
<td>30&quot;</td>
<td>M=Stainless Steel</td>
<td>22-15000 ASME</td>
<td></td>
<td></td>
</tr>
<tr>
<td>L-V</td>
<td>Pig Valve</td>
<td>F=Full</td>
<td>36&quot;</td>
<td>N=Stainless Steel</td>
<td>23-20000 ASME</td>
<td></td>
<td></td>
</tr>
<tr>
<td>L-V</td>
<td>Pig Valve</td>
<td>F=Full</td>
<td>42&quot;</td>
<td>O=Stainless Steel</td>
<td>24-25000 ASME</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**PVL-F60R06LG** is a Pigging Valve, Launcher, 6 inch, RF, 600 Class, Low Temp Nace Trim, Gear Op.

### Pressure / Temperature

![Temperature Chart](chart.png)

**Above ratings are for soft seat components Please consult ASME B16.34 for Body and Closure Pressure/Temperature ratings**

### Product Introduction

Pig valve, normally consists of Pig Launching & Pig Receiving valve, is a device to clean the internal pipe periodically, and it is especially widely used in Oil & Gas pipeline industry. Neway series pig valves are developed from our existing series BS forged steel 3PC trunnion mounted ball valves, and have the function of launching or receiving pig as well as all the natural function of standard pipe line ball valves. This field-tested pig valve offers durability and reliability service for oil and gas applications to improve the piping transportation efficiency. It can easily and safely use most of popular pig styles, either One-Piece Molded Pigs or Spherical Pigs that are intended for use in pig ball valves.

**Main Application:**

- Clean the new installed pipe internal residue prior first commissioning.
- Internal pipe wall anti-rust and corrosion-resistant coating.
- Pipe regular maintenance to removal of liquid, wax and general cleaning.
- Isolation and transition of differential working media in same pipe.
NEWAY reserves the right to change design, materials or specifications without notice and free of obligation to furnish or install such changes on products previously sold.

Additional materials are available upon request.

<table>
<thead>
<tr>
<th>No.</th>
<th>Part Name</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Body</td>
<td>ASTM A350 LF2</td>
</tr>
<tr>
<td>2</td>
<td>Left Closure</td>
<td>ASTM A350 LF2</td>
</tr>
<tr>
<td>3</td>
<td>Right Closure</td>
<td>ASTM A350 LF2</td>
</tr>
<tr>
<td>4</td>
<td>Seat Insert</td>
<td>PTFE</td>
</tr>
<tr>
<td>5</td>
<td>Seat Retainer</td>
<td>ASTM A350 LF2/ENP</td>
</tr>
<tr>
<td>6</td>
<td>Ball</td>
<td>ASTM A350 LF2/ENP</td>
</tr>
<tr>
<td>7</td>
<td>Stem</td>
<td>A55 4140/ENP</td>
</tr>
<tr>
<td>8</td>
<td>Trunnion</td>
<td>ASTM A350 LF2/ENP</td>
</tr>
<tr>
<td>9</td>
<td>Body Gasket</td>
<td>316+Graphite</td>
</tr>
<tr>
<td>10</td>
<td>Gasket</td>
<td>316+Graphite</td>
</tr>
<tr>
<td>11</td>
<td>Spacer</td>
<td>PTFE</td>
</tr>
<tr>
<td>12</td>
<td>Packing</td>
<td>PTFE</td>
</tr>
<tr>
<td>13</td>
<td>Fire Safe Gasket</td>
<td>316+GRAPHITE</td>
</tr>
</tbody>
</table>
NEWAY reserves the right to change design, materials or specifications without notice and free of obligation to furnish or install such changes on products previously sold.

### Material Specifications

<table>
<thead>
<tr>
<th>No.</th>
<th>Part Name</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>Gland Cap</td>
<td>ASTM A350 LF2</td>
</tr>
<tr>
<td>16</td>
<td>Cap</td>
<td>ASTM A350 LF2-N2</td>
</tr>
<tr>
<td>17</td>
<td>O Ring</td>
<td>HSN</td>
</tr>
<tr>
<td>18</td>
<td>O Ring</td>
<td>HSN</td>
</tr>
<tr>
<td>19</td>
<td>Plug &amp; Vent Valve</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>20</td>
<td>Wave Spring</td>
<td>Inconel X-750</td>
</tr>
<tr>
<td>21</td>
<td>Grounding Spring</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>22</td>
<td>Grounding Plunger</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>23</td>
<td>O Ring</td>
<td>HSN</td>
</tr>
<tr>
<td>24</td>
<td>O Ring</td>
<td>HSN</td>
</tr>
<tr>
<td>25</td>
<td>O Ring</td>
<td>HSN</td>
</tr>
<tr>
<td>26</td>
<td>O Ring</td>
<td>HSN</td>
</tr>
<tr>
<td>27</td>
<td>Body Nut</td>
<td>ASTM A194 TM</td>
</tr>
<tr>
<td>28</td>
<td>Screw</td>
<td>ASTM A320 L7M</td>
</tr>
<tr>
<td>29</td>
<td>Screw</td>
<td>ASTM A320 L7M</td>
</tr>
<tr>
<td>30</td>
<td>Screw</td>
<td>ASTM A320 L7M</td>
</tr>
<tr>
<td>31</td>
<td>Gland Pin</td>
<td>Carbon Steel</td>
</tr>
<tr>
<td>32</td>
<td>Bolt</td>
<td>ASTM A320 L7M</td>
</tr>
<tr>
<td>33</td>
<td>Key</td>
<td>Carbon Steel</td>
</tr>
<tr>
<td>34</td>
<td>Pin</td>
<td>Carbon Steel</td>
</tr>
<tr>
<td>35</td>
<td>Injection</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>36</td>
<td>Injection</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>37</td>
<td>Handle</td>
<td>Carbon Steel</td>
</tr>
<tr>
<td>38</td>
<td>Seat Retainer</td>
<td>ASTM A350 LF2/ENP</td>
</tr>
</tbody>
</table>

Additional materials are available upon request.
Ensure both seats are sealing.
Open body vent valve.
Close valve.

**Step 1**
Valve in Open position
Ensure no debris is or wax is trapped inside valve bore.

**Step 2**
Close valve.
Ensure both seats are sealing.
Open body vent valve.

**Step 3**
Remove cap closure.
Insert pig into valve ball.

**Step 4**
Screw cap into place.
Close body vent valve.

**Step 5**
Open valve.
Line pressure moves the pig downstream.

**Step 1**
Valve in open position
Stopper on seat will stop pig.

**Step 2**
Close valve.
Ensure both seats are sealing.
Open Body vent valve.

**Step 3**
Remove cap closure.
Remove pig from ball.

**Step 4**
Screw cap closure into place.
Close body vent valve.

**Step 5**
Open valve.

**Double O-Ring Sealing to Prevent the Leakage From Stem Area.**

**Secondary Metal-to-Metal Sealing Perform When non-metal Sealing is damaged.**

**Isolated Pig Chamber to eliminate the requirement for additional shut-off valve.**

**Energized Wave Spring Seats to ensure the Sealing even at low pressure.**

**Trunnion mounted ball design to Extend seat life and reduce the Torque of operation.**

**Double O-Ring Sealing Plug with Two Pressure-relieve holes to easy & Safe the Operation on the Field.**

**Emergency Seat sealant Injection Fitting to Stop Leakage From the Seat.**

**Double O-Ring Sealing to Prevent the Leakage From Stem Area.**
**Working Sequences**

**Pig Launching - Clockwise To Close**

**Step 1**
Valve in Open position
Ensure no debris is or wax is trapped inside valve bore.

**Step 2**
Close valve.
Ensure both seats are sealing.
Open body vent valve.

**Step 3**
Remove cap closure.
Insert pig into valve ball.

**Step 4**
Screw cap into place.
Close body vent valve.

**Step 5**
Open valve.
Line pressure moves the pig downstream.

**Pig Receiving - Clockwise To Close**

**Step 1**
Valve in open position
Stopper on seat will stop pig.

**Step 2**
Close valve.
Ensure both seats are sealing.
Open body vent valve.

**Step 3**
Remove cap closure.
Remove pig from ball.

**Step 4**
Screw cap closure into place.
Close body vent valve.

**Step 5**
Open valve.

**Design Features**

- Double O-Ring Sealing to Prevent the Leakage From Stem Area.
- Secondary Metal-to-Metal Sealing to Perform When non-metal Sealing is damaged.
- Trunnion mounted ball design to Extend seat life and reduce the Torque of operation.
- Isolated Pig Chamber to eliminate the requirement for additional shut-off valve.
- Energized Wave Spring Seats to ensure the Sealing even at low pressure.
- Emergency Seat sealant injection fitting to Stop Leakage From the Seat.
- Double O-Ring Sealing Plug with Two Pressure-relieve holes to easy & Safe the Operation on the Field.
- Double O-Ring Sealing to Prevent the Leakage From Stem Area.
- Double O-Ring Sealing to Prevent the Leakage From Stem Area.
Seller will replace without charge or refund the purchase price of products provided by Seller which prove to be defective in material or workmanship, provided in each case that the product is properly installed and is used in the service for which Seller recommends it and that written claim, specifying the alleged defect, is presented to the Seller within 18 months from the date of shipment or 12 months after installation, whichever occurs first. Seller shall in no event bear any labor, equipment, engineering or other costs incurred in connection with repair or replacement. The warranty stated in this paragraph is in lieu of all other warranties, either expressed or implied. With respect to warranties, this paragraph states Buyer's exclusive remedy and seller's exclusive liability.

Notes: Face to Face Length that meet API Spec. 6D are marked with (*).
Seller will replace without charge or refund the purchase price of products provided by Seller which prove to be defective in material or workmanship, provided in each case that the product is properly installed and is used in the service for which Seller recommends it and that written claim, specifying the alleged defect, is presented to the Seller within 18 months from the date of shipment or 12 months after installation, whichever occurs first. Seller shall in no event bear any labor, equipment, engineering or other costs incurred in connection with repair or replacement. The warranty stated in this paragraph is in lieu of all other warranties, either expressed or implied. With respect to warranties, this paragraph states Buyer’s exclusive remedy and seller’s exclusive liability.

Notes: Face to Face Length that meet API Spec. 6D are marked with (*)