

|                                 |   |                    |                 |               |           |
|---------------------------------|---|--------------------|-----------------|---------------|-----------|
| <b>SIZES :</b>                  | 1/4", 3/8", 1/2", 3/4" & 1"   |                    |                 |               |           |
| <b>BODY :</b>                   | Forged, CS-ASTM-A 105 Plated conforming to NACE MR-01-75, ASTM A182 F 316 SS Straight Pattern   |                    |                 |               |           |
| <b>END CONNECTIONS :</b>        | Screwed NPT / Tube End Connections  |                    |                 |               |           |
| <b>STEM :</b>                   | Close tolerance surface finish, cold rolled threads, ASME SA-479 Type 316 SS  |                    |                 |               |           |
| <b>NEEDLE TIP :</b>             | Hardened & Ground   |                    |                 |               |           |
| <b>UPPER/LOWER GLAND BODY :</b> | SS locking pin provided. CS, ASTM A108 plated or ASME SA-479 Type 316 SS  |                    |                 |               |           |
| <b>GLAND PACKING :</b>          | Adjustable, below stem thread design (PBT), prevent process fluid contact with stem threads. PTFE for Temp. below 400°F/Graphite for Temp above 400° F  |                    |                 |               |           |
| <b>HANDLE :</b>                 | 'T' bar handle. CS, ASTM A108 plated or ASME-SA-479 Type 316 SS   |                    |                 |               |           |
| <b>WASHER :</b>                 | ASME-SA-479 Type 316 SS   |                    |                 |               |           |
| <b>PRESSURE/TEMPERATURE :</b>   | <table border="0"> <tr> <td><u>TEMPERATURE</u></td> <td><u>PRESSURE</u></td> </tr> <tr> <td>-65 to 100° F</td> <td>6,000 psi</td> </tr> </table>  | <u>TEMPERATURE</u> | <u>PRESSURE</u> | -65 to 100° F | 6,000 psi |
| <u>TEMPERATURE</u>              | <u>PRESSURE</u>   |                    |                 |               |           |
| -65 to 100° F                   | 6,000 psi   |                    |                 |               |           |
| <b>PRESSURE RATING:</b>         | Body: Hydrostatic at 6,000 psi<br>Seat – 1,000 psi with Nitrogen  |                    |                 |               |           |
| <b>MINIMUM TEMPERATURE :</b>    | CS-ASTM-A-105: - 20° F /<br>316SS-ASTM-A-479: - 65° F   |                    |                 |               |           |
| <b>OPTIONS :</b>                | Material construction confirming to NACE-MR-01-75   |                    |                 |               |           |
| <b>DESIGN STANDARD:</b>         | <p><b>A) Pressure Piping/Vessel codes</b><br/>ANSI B31.1 – Power Piping<br/>ANSI B31.2 – Fuel Gas Piping<br/>ANSI B31.3 – Chemical Plant petroleum refinery piping<br/>Section VIII-DIV1-Boiler &amp; Pressure vessel code</p> <p><b>B)Threads &amp; Dimensional Codes</b><br/>ANSI B2.1 – Pipe Threads<br/>ANSI B1.1 – Straight Threads<br/>ASME – B16.10 F To F Dimension of Valve.</p> <p><b>C)Temperature-Pressure Standard</b><br/>ASME B 31.3</p> |                    |                 |               |           |
| <b>REFERENCE DRAWING :</b>      | JVF-PNV-HS-001, JVFPNV-HS-002, JVFPNV-HS-003, JVFPNV-HS-004   |                    |                 |               |           |



Alberta Boilers Safety Association Canada

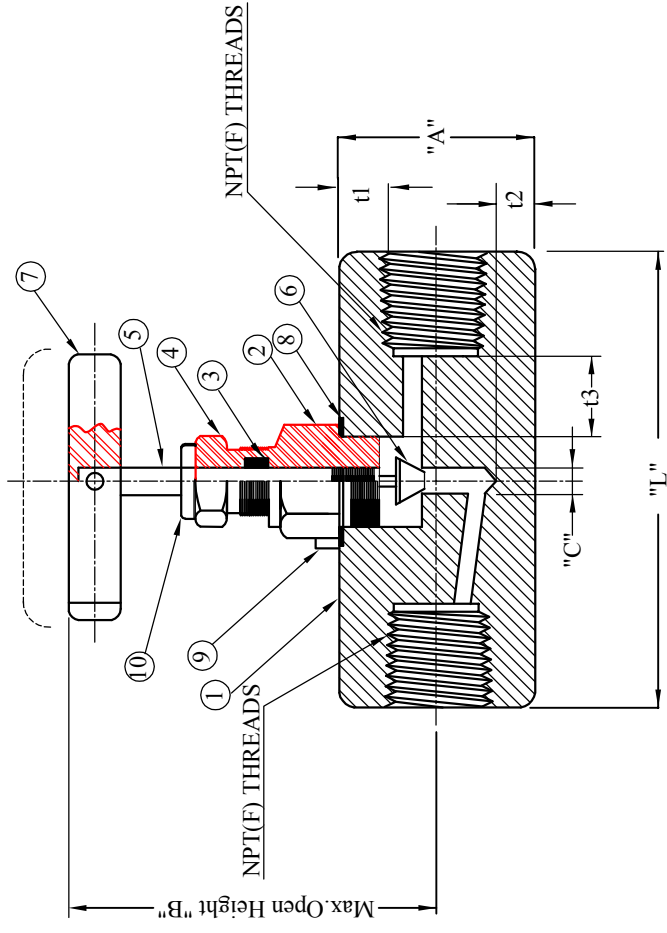
CRN: 0C13720.2



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| ITEM NO. | DESCRIPTION | QTY. | MATERIAL                           |
|----------|-------------|------|------------------------------------|
| 1        | BODY        | 1    | C.S.-ASTM A105/<br>SS316-ASTM A479 |
| 2        | GLAND BODY  | 1    | C.S.-ASTM A105/<br>SS316-ASTM A479 |
| 3        | GLAND SEAL  | 1    | PTFE/<br>GRAFOIL                   |
| 4        | HEX NUT     | 1    | C.S.-ASTM A105/<br>SS316-ASTM A479 |
| 5        | SPINDLE     | 1    | SS316-ASTM A479                    |
| 6        | TIP         | 1    | SS316-ASTM A479                    |
| 7        | HANDLE      | 1    | C.S.-ASTM A105/<br>SS316-ASTM A479 |
| 8        | WASHER      | 1    | STAINLESS STEEL                    |
| 9        | LOCK PIN    | 1    | STAINLESS STEEL                    |
| 10       | DUST CAP    | 1    | AL./PLASTIC                        |

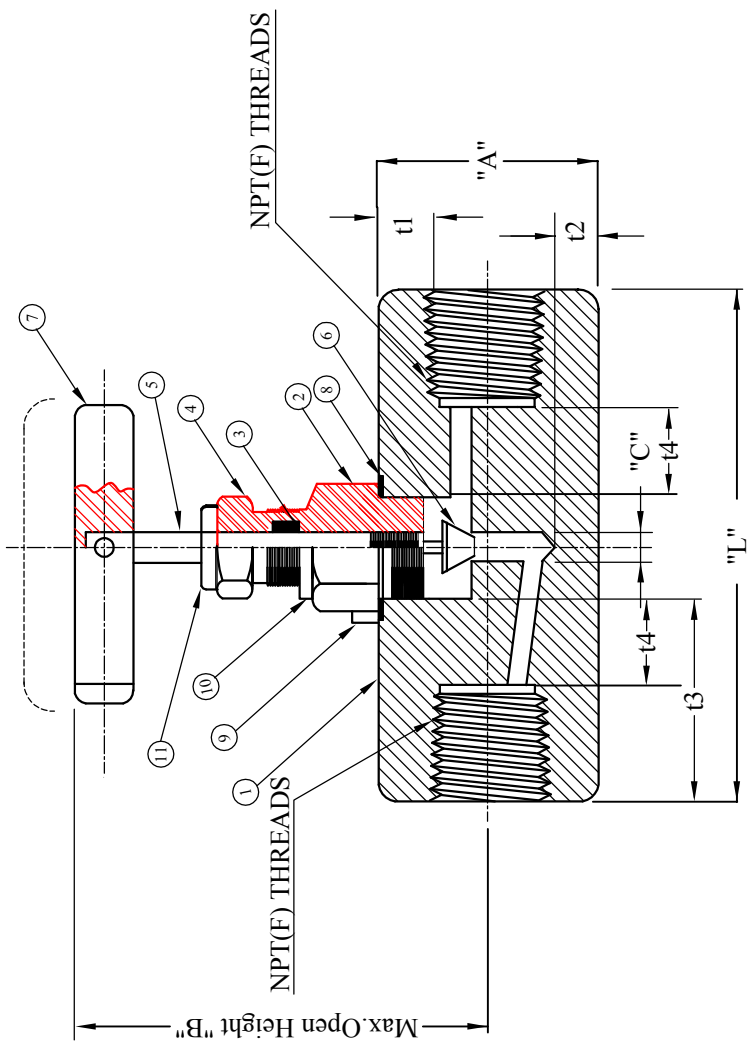
\*Note:- Material Grade  
C.S :- ASTM A105  
FINISH ZN PLATED  
SS316 :- ASTM A479

|                    |          |
|--------------------|----------|
| PRESSURE RATING    | 6000 PSI |
| TEMPERATURE RATING | 200°F    |

|   |  |
|---|--|
| <b>PROJECT/CLIENT</b>   |  |
| <b>JVF</b>  |  |
| 15060 West Drive<br>Houston, TX77053<br>USA                                       |  |
| <b>TITLE</b>  |  |
| <b>PACKAGER NEEDLE VALVE<br/>6000 PSI F X F NPT</b>                               |  |
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| <b>DRG NO :-JV.F-PNV-HS-001</b>   |  |

| PART NO.    | SIZE                   | NPT.            | ENDS.          | MATERIAL.                       | A      | B      | C     | L       | t1     | t2    | t3    | APPROVED |  |
|-------------|------------------------|-----------------|----------------|---------------------------------|--------|--------|-------|---------|--------|-------|-------|----------|--|
| JVF1612P    | 1/4"X 1/4"             | F X F           | F X F          | C.S.-ASTM A105<br>-NACE-MR-0175 | 22.0mm | 62.0mm | 3.3mm | 53.85mm | 4.14mm | 5.5mm | 4.8mm | G.G.A    |  |
| JVF1412P    | 1/4"X 1/4"             | F X F           | F X F          | SS316-ASTM A479                 | 22.0mm | 62.0mm | 3.3mm | 53.85mm | 4.14mm | 5.5mm | 4.8mm |          |  |
| <b>REV.</b> | <b>DATE OF DRAWING</b> | <b>DRAWN BY</b> | <b>CHECKED</b> | <b>APPROVED</b>                 |        |        |       |         |        |       |       |          |  |
| 0.02        | 18/2/2014              | P.S             | D.K.D          | G.G.A                           |        |        |       |         |        |       |       |          |  |

|      |                  |          |      |        |
|------|------------------|----------|------|--------|
| REV. | REASON FOR ISSUE | DATE     | DRN. | CHKD.  |
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\*Note:- Material Grade

C.S :- ASTM A105

FINISH ZN PLATED

SS316 :- ASTM A479

| ITEM NO. | DESCRIPTION         | QTY. | MATERIAL                          |
|----------|---------------------|------|-----------------------------------|
| 1        | BODY                | 1    | C.S-ASTM A105/<br>SS316-ASTM A479 |
| 2        | GLAND BODY          | 1    | C.S-ASTM A105/<br>SS316-ASTM A479 |
| 3        | GLAND SEAL          | 1    | PTFE/<br>GRAFOIL                  |
| 4        | HEX NUT             | 1    | C.S-ASTM A105/<br>SS316-ASTM A479 |
| 5        | SPINDLE             | 1    | SS316-ASTM A479                   |
| 6        | TIP                 | 1    | SS316-ASTM A479                   |
| 7        | HANDLE              | 1    | C.S-ASTM A105/<br>SS316-ASTM A479 |
| 8        | WASHER              | 1    | STAINLESS STEEL                   |
| 9        | LOCK PIN            | 1    | STAINLESS STEEL                   |
| 10       | IDENTIFICATION RING | 1    | ALUMINIUM                         |
| 11       | DUST CAP            | 1    | AL./PLASTIC                       |

| PART NO. | SIZE NPT.  | ENDS. | MATL.    | A         | B      | C           | L      | t2      | t1     | t3      | t4     |
|----------|------------|-------|----------|-----------|--------|-------------|--------|---------|--------|---------|--------|
| JVF1613P | 3/8"X 3/8" | F X F | C.S.NACE | 28.5mmsq  | 85.0mm | 3.18/3.30mm | 68.0mm | 5.10mm  | 5.68mm | 24.5mm  | 9.48mm |
| JVF1614P | 1/2"X 1/2" | F X F | C.S.NACE | 28.50mmsq | 85.0mm | 3.18/3.30mm | 76.2mm | 5.10mm  | 3.58mm | 28.60mm | 8.78mm |
| JVF1616P | 3/4"X 3/4" | F X F | C.S.NACE | 35.0mmsq  | 89.0mm | 6.00mm      | 68.0mm | 5.00mm  | 4.16mm | 24.5mm  | 3.88mm |
| JVF1618P | 1"X 1"     | F X F | C.S.NACE | 45.0mmsq  | 91.0mm | 6.00mm      | 76.2mm | 14.50mm | 5.80mm | 28.6mm  | 3.18mm |
| JVF1413P | 3/8"X 3/8" | F X F | SS316    | 28.5mmsq  | 85.0mm | 3.18/3.30mm | 68.0mm | 5.10mm  | 5.68mm | 24.5mm  | 9.48mm |
| JVF1414P | 1/2"X 1/2" | F X F | SS316    | 28.50mmsq | 85.0mm | 3.18/3.30mm | 76.2mm | 5.10mm  | 3.58mm | 28.60mm | 8.78mm |
| JVF1416P | 3/4"X 3/4" | F X F | SS316    | 35.0mmsq  | 89.0mm | 6.00mm      | 68.0mm | 5.00mm  | 4.16mm | 24.5mm  | 3.88mm |
| JVF1418P | 1"X 1"     | F X F | SS316    | 45.0mmsq  | 91.0mm | 6.00mm      | 76.2mm | 14.50mm | 5.80mm | 28.6mm  | 3.18mm |

|                    |          |
|--------------------|----------|
| PRESSURE RATING    | 6000 PSI |
| TEMPERATURE RATING | 200°F    |

**PROJECT/CLIENT**

**JVF**

15060 West Drive  
Houston, TX 77053  
USA

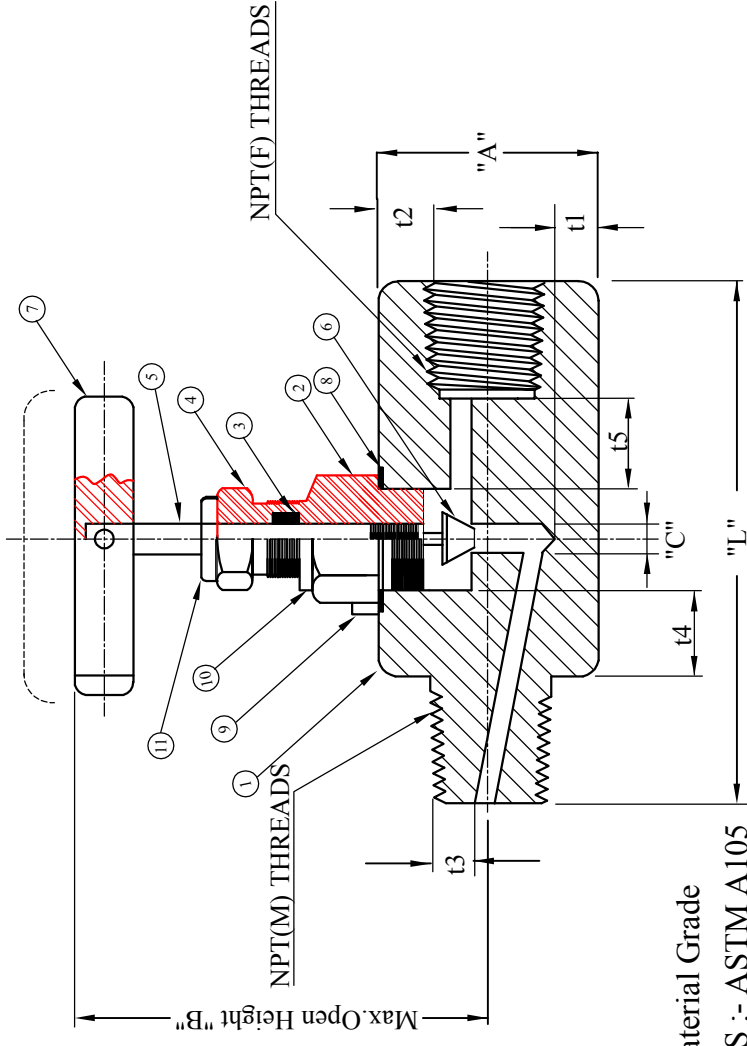
**TITLE**

**PACKAGER NEEDLE VALVE  
6000 PSI F X F NPT**

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**DRG NO :-JVf-PNV-HS-002**

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\*Note:- Material Grade

C.S :- ASTM A105  
 FINISH ZN PLATED  
 SS316 :- ASTM A479

NOTE:- BREAK ALL SHARP EDGES & REMOVE BURR

| PART NO.  | SIZE NPT.  | ENDS. | MATERIL.         | A        | B      | C     | L       | t1     | t2     | t3     | t4     | t5    |
|-----------|------------|-------|------------------|----------|--------|-------|---------|--------|--------|--------|--------|-------|
| JVF1634 P | 1/2"X 1/2" | M X F | C.S.-ASTM A105   | 28.5mmsq | 55.0mm | 3.2mm | 76.20mm | 5.10mm | 3.58mm | 8.10mm | 11.0mm | 7.3mm |
| JVF1434 P | 1/2"X 1/2" | M X F | SS316--ASTM A479 | 28.5mmsq | 55.0mm | 3.2mm | 76.20mm | 5.10mm | 3.58mm | 8.10mm | 11.0mm | 7.3mm |

| ITEM NO. | DESCRIPTION         | QTY. | MATERIAL                          |
|----------|---------------------|------|-----------------------------------|
| 1        | BODY                | 1    | C.S-ASTM A105/<br>SS316-ASTM A479 |
| 2        | GLAND BODY          | 1    | C.S-ASTM A105/<br>SS316-ASTM A479 |
| 3        | GLAND SEAL          | 1    | PTFE/<br>GRAFOIL                  |
| 4        | HEX NUT             | 1    | C.S-ASTM A105/<br>SS316-ASTM A479 |
| 5        | SPINDLE             | 1    | SS316-ASTM A479                   |
| 6        | TIP                 | 1    | SS316-ASTM A479                   |
| 7        | HANDLE              | 1    | C.S-ASTM A105/<br>SS316-ASTM A479 |
| 8        | WASHER              | 1    | STAINLESS STEEL                   |
| 9        | LOCK PIN            | 1    | STAINLESS STEEL                   |
| 10       | IDENTIFICATION RING | 1    | ALUMINIUM                         |
| 11       | DUST CAP            | 1    | AL./PLASTIC                       |

|                    |          |
|--------------------|----------|
| PRESSURE RATING    | 6000 PSI |
| TEMPERATURE RATING | 200°F    |

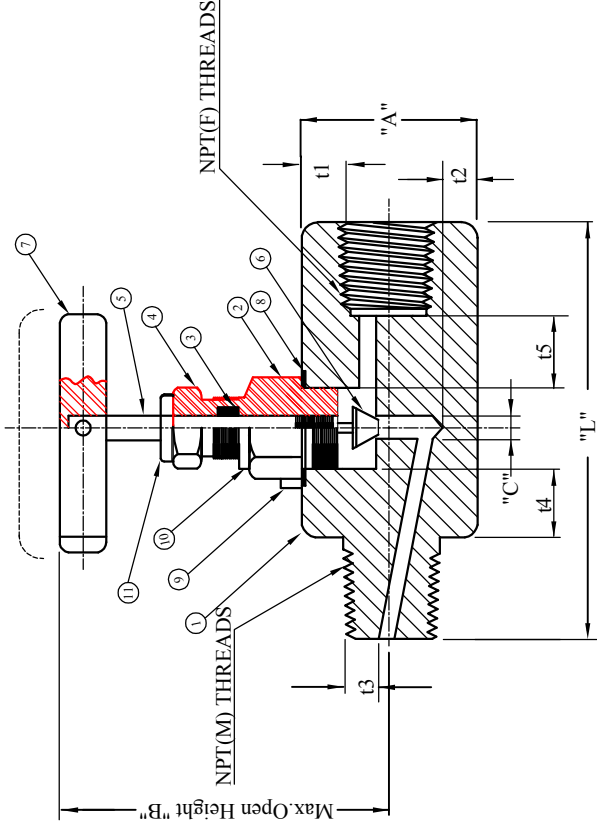
|  |   |  |
|--|---|--|
| <b>PROJECT/CLIENT</b>  | <b>JVF</b>  |  |
|  | 15060 West Drive<br>Houston, TX77053<br>USA         |  |
| <b>TITLE</b>   | <b>PACKAGER NEEDLE VALVE<br/>6000 PSI M X F NPT</b> |  |
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| DRG NO:-JVf-PNV-HS-003   |   |  |

NOTE:- BREAK ALL SHARP EDGES & REMOVE BURR

| REV. | DATE OF DRAWING | DRAWN BY | CHECKED | APPROVED |
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| 0.00 | 28/1/2010       | P.S      | D.K.D   | G.G.A    |

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| REV. | REASON FOR ISSUE | DATE     | DRN. | CHKI   |
| 0.00 | REL.FOR MANU.    | 28.01.10 | P.S  | D.K.D. |



\*Note:- Material Grade  
C.S :- ASTM A105  
FINISH ZN PLATED  
SS316 :- ASTM A479

| PART NO. | SIZE NPT.  | ENDS. | MATL.    | A          | B       | C           | L       | t2      | t1     | t3      | t4     | t5      |
|----------|------------|-------|----------|------------|---------|-------------|---------|---------|--------|---------|--------|---------|
| JVF1633P | 3/8"X 3/8" | M X F | C.S.NACE | 28.5mmmsq  | 85.0mm  | 3.18/3.30mm | 76.20mm | 5.13mm  | 5.68mm | 6.18mm  | 16.0mm | 12.08mm |
| JVF1634P | 1/2"X 1/2" | M X F | C.S.NACE | 28.5mmmsq  | 85.0mm  | 3.2mm       | 76.20mm | 5.13mm  | 3.58mm | 8.1mm   | 11.0mm | 7.28mm  |
| JVF1635P | 1/2"X 1/4" | M X F | C.S.NACE | 28.50mmmsq | 85.0mm  | 3.20mm      | 76.20mm | 5.38mm  | 7.40mm | 8.1mm   | 11.0mm | 11.98mm |
| JVF1636P | 3/4"X 3/4" | M X F | C.S.NACE | 35.0mmmsq  | 89.0mm  | 6.00mm      | 76.20mm | 5.00mm  | 4.16mm | 10.0mm  | 11.0mm | 6.48mm  |
| JVF1637P | 3/4"X 1/2" | M X F | C.S.NACE | 30.0mmmsq  | 78.0mm  | 4.2mm       | 76.20mm | 5.60mm  | 4.33mm | 10.46mm | 11.0mm | 7.28mm  |
| JVF1638P | 1"X 1"     | M X F | C.S.NACE | 45.0mmmsq  | 112.0mm | 6.0mm       | 90.00mm | 14.5mm  | 5.80mm | 13.3mm  | 16.8mm | 4.68mm  |
| JVF1433P | 3/8"X 3/8" | M X F | SS316    | 28.5mmmsq  | 85.0mm  | 3.2mm       | 76.20mm | 5.13mm  | 5.68mm | 6.18mm  | 16.0mm | 12.08mm |
| JVF1434P | 1/2"X 1/2" | M X F | SS316    | 28.50mmmsq | 85.0mm  | 3.2mm       | 76.20mm | 5.13mm  | 3.58mm | 8.1mm   | 11.0mm | 7.28mm  |
| JVF1435P | 1/2"X 1/4" | M X F | SS316    | 28.50mmmsq | 85.0mm  | 3.20mm      | 76.20mm | 5.38mm  | 7.40mm | 8.1mm   | 11.0mm | 11.98mm |
| JVF1436P | 3/4"X 3/4" | M X F | SS316    | 35.0mmmsq  | 89.0mm  | 6.0mm       | 76.20mm | 5.00mm  | 4.16mm | 10.0mm  | 11.0mm | 6.48mm  |
| JVF1437P | 3/4"X 1/2" | M X F | SS316    | 30.0mmmsq  | 78.0mm  | 4.2mm       | 76.20mm | 5.60mm  | 4.33mm | 10.46mm | 11.0mm | 7.28mm  |
| JVF1438P | 1"X 1"     | M X F | SS316    | 45.0mmmsq  | 112.0mm | 6.0mm       | 90.00mm | 14.50mm | 5.80mm | 13.3mm  | 16.8mm | 4.68mm  |

|                    |          |
|--------------------|----------|
| PRESSURE RATING    | 6000 PSI |
| TEMPERATURE RATING | 200°F    |

|                       |   |
|-----------------------|---|
| <b>PROJECT/CLIENT</b> | <b>JVF</b><br>15060 West Drive<br>Houston, TX77053<br>USA |
| <b>TITLE</b>          | <b>PACKAGER NEEDLE VALVE<br/>6000 PSI M X F NPT</b>       |
| <b>REV.</b>           | <b>DRG NO :-JVF-PNV-HS-004</b><br>0.00                    |

|      |                 |          |         |          |
|------|-----------------|----------|---------|----------|
| REV. | DATE OF DRAWING | DRAWN BY | CHECKED | APPROVED |
| 0.00 | 28/1/2010       | P.S      | D.K.D   | G.G.A    |

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