# 26-1200 Series
Regulators - Pressure Reducing

## Specifications
For other materials or modifications, please consult TESCOM.

### OPERATING PARAMETERS
Pressure rating per criteria of ANSI/ASME B31.3

<table>
<thead>
<tr>
<th>Maximum Inlet Pressure</th>
<th>3600 and 6000 psig</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>248 and 414 bar</td>
</tr>
<tr>
<td>Outlet Pressure</td>
<td>To maximum inlet</td>
</tr>
<tr>
<td>Design Proof Pressure</td>
<td>150% maximum rated operating</td>
</tr>
<tr>
<td>Leakage</td>
<td>Bubble-tight</td>
</tr>
<tr>
<td>Flow Capacity</td>
<td>$C_V = 3.3, 6.0,$ or $12.0^*$</td>
</tr>
</tbody>
</table>

### MEDIA CONTACT MATERIALS

| Body | 303, 316 Stainless Steel |
| Seat | CTFE or Vespel® |
| Diaphragm | Buna-N or Viton® |
| O-Rings | Buna-N or Viton® |
| Back-up Rings | Teflon® |
| Remaining Parts | 300 Series Stainless Steel |

### OTHER

| Cleaning | CGA 4.1 and ASTM G93 |

*Teflon®, Tefzel®, Vespel®, and Viton® are registered trademarks of E.I. du Pont de Nemours and Company.

*A secondary pressure drop due to the outlet cross-hole can significantly affect the rated flow capacity. Contact TESCOM for flow curve data when outlet pressure is less than 1000 psig / 69.0 bar.

## Applications
- Rocket engine testing
- Fueling
- Facilities supply

## Features and Benefits
- Diaphragm sensed and highly sensitive
- Modular construction for easy service
- External sensing available for improved accuracy
- Balanced main valve increases seat life
- Mounts in any position
- Low droop and lockup

**Typical Application**

[Diagram of typical application]

[Image of 26-1200 Series regulator]

TESCOM 26-1200 Series dome loaded, high flow pressure reducing regulator is externally loaded with 6000 psig / 414 bar maximum inlet and outlet pressures. The 26-1200 Series offers three orifice sizes and $C_V$ ratings, balanced main valve, and available external sensing.
# 26-1200 Series Regulator Specifications

## CV = 3.3

### OPERATING PARAMETERS

*Pressure rating per criteria of ANSI/ASME B31.3*

- **Maximum Inlet Pressure**
  - Stainless Steel Body: 6000 psig / 414 bar
  - CTFE or Tefzel®: 3600 psig / 248 bar

- **Operating Temperature**
  - Buna-N: -40°F to 165°F / -40°C to 74°C
  - Viton®: -15°F to 165°F / -26°C to 74°C

- **Flow Capacity**
  - CV = 3.3

### MEDIA CONTACT MATERIALS

- **Body**
  - 303 or 316 Stainless Steel

- **Seat**
  - CTFE or Vespel®

- **Diaphragm**
  - Buna-N

- **O-Rings**
  - Buna-N

- **Back-up Rings**
  - Teflon®

- **Gasket**
  - CTFE

- **Retaining Ring**
  - 15-7 Stainless Steel

- **Valve Cap**
  - 17-4 Stainless Steel

- **Remaining Parts**
  - 300 Series Stainless Steel

### OTHER

- **Weight**
  - Stainless Steel: 25 lbs / 11.3 kg

## CV = 6.0

### OPERATING PARAMETERS

*Pressure rating per criteria of ANSI/ASME B31.3*

- **Maximum Inlet Pressure**
  - Vespel: 6000 psig / 414 bar
  - CTFE or Tefzel®: 3600 psig / 248 bar

- **Operating Temperature**
  - Buna-N: -40°F to 165°F / -40°C to 74°C
  - Viton®: -15°F to 165°F / -26°C to 74°C

- **Flow Capacity**
  - CV = 6.0

### MEDIA CONTACT MATERIALS

- **Body**
  - 316 Stainless Steel

- **Seat**
  - CTFE or Vespel®

- **Diaphragm**
  - Buna-N or Viton®

- **O-Rings**
  - Buna-N or Viton®

- **Back-up Rings**
  - Teflon®

- **Connecting Rod**
  - 17-4 Stainless Steel

- **Valve**
  - Nitronic 60

- **Remaining Parts**
  - 300 Series Stainless Steel

### OTHER

- **Weight**
  - Stainless Steel: 40 lbs / 18.1 kg

## CV = 12.0

### OPERATING PARAMETERS

*Pressure rating per criteria of ANSI/ASME B31.3*

- **Maximum Inlet Pressure**
  - 6000 psig / 414 bar

- **Operating Temperature**
  - -15°F to 165°F / -26°C to 74°C

- **Flow Capacity**
  - CV = 12.0

### MEDIA CONTACT MATERIALS

- **Body**
  - 316 Stainless Steel

- **Seat**
  - Vespel®

- **Diaphragm**
  - Viton®

- **O-Rings**
  - Viton®

- **Back-up Rings**
  - Teflon®

- **Valve**
  - Nitronic 60

- **Remaining Parts**
  - 300 Series Stainless Steel

### OTHER

- **Weight**
  - Stainless Steel: 60 lbs / 27.2 kg

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*For extended temperature applications, consult TESCOM.*
26-1200 Series Regulator Drawings

**C_v = 3.3 - 1/2” [12.7] ORIFICE**

**C_v = 6.0 - 5/8” [15.9] ORIFICE**

**C_v = 12.0 - 1” [25.4] ORIFICE**

All dimensions are reference & nominal
Metric [millimeter] equivalents are in brackets
For more information on how to read flow curves, please refer to the Flow Curves and Calculations document (debul2007x012) in the TESCOM catalog or on www.tescom.com.

\( C_v = 3.3 \)

Model No. 26-1261-3161

FLOW RATE - SCFM [SLPM] Nitrogen
26-1200 Series Regulator Flow Charts

For more information on how to read flow curves, please refer to the Flow Curves and Calculations document (debul2007x012) in the TESCOM catalog or on www.tescom.com.

$C_v = 6.0$

Model No. 26-126T-3162-076

$C_v = 12.0$

Model No. 26-1261-2163-083

The curves above were generated using analytical methods - error is estimated at ±10%
**26-1200 Series Regulator Part Number Selector**

*Repair Kits, Accessories & Modifications may be available for this product. Please contact TESCOM for more information.*

*Example for selecting a part number:*

**Cv = 3.3**

<table>
<thead>
<tr>
<th>BASIC SERIES</th>
<th>BODY MATERIAL</th>
<th>LOADING METHOD</th>
<th>INLET AND OUTLET PORT TYPE</th>
<th>DOME PORT</th>
<th>PORT SIZE</th>
<th>ORIFICE SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>26-12</td>
<td>2 – 303 Stainless Steel</td>
<td>1 – External</td>
<td>1 – SAE</td>
<td>1/4’ MS33649</td>
<td>12 – 3/4’</td>
<td>1 – 1/2” 12.7 mm</td>
</tr>
<tr>
<td></td>
<td>6 – 316 Stainless Steel</td>
<td></td>
<td>2 – NPTF</td>
<td>1/4’ NPTF</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3 – MS33649</td>
<td>1/4’ MS33649</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Cv = 6.0**

<table>
<thead>
<tr>
<th>BASIC SERIES</th>
<th>BODY MATERIAL</th>
<th>DIAPHRAGM/ O-RING</th>
<th>SEAT</th>
<th>TEMPERATURE</th>
<th>INLET AND OUTLET PORT TYPE</th>
<th>DOME PORT</th>
<th>INLET AND OUTLET PORT SIZE</th>
<th>INNER VALVE SIZE</th>
<th>MOD. NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>26-12</td>
<td>6 – 316 Stainless Steel</td>
<td>A – Buna-N</td>
<td>Vespel® SP1</td>
<td>-40°F to 165°F</td>
<td>1 – SAE</td>
<td>1/4’ MS33649</td>
<td>12 – 3/4’</td>
<td>2 – 5/8” 15.9 mm</td>
<td>076</td>
</tr>
<tr>
<td></td>
<td></td>
<td>B – Buna-N</td>
<td>Vespel® SP21</td>
<td>-40°F to 165°F</td>
<td>2 – NPTF</td>
<td>1/4’ NPTF</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>D – Buna-N</td>
<td>CTFE</td>
<td>-40°F to 165°F</td>
<td>3 – MS33649</td>
<td>1/4’ MS33649</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>E – Viton®</td>
<td>Vespel® SP1</td>
<td>-15°F to 300°F</td>
<td>16 – 1”</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>T – Viton®</td>
<td>CTFE</td>
<td>-15°F to 165°F</td>
<td>20 – 1-1/4” SAE or MS only</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>V – Viton®</td>
<td>Vespel® SP21</td>
<td>-15°F to 300°F</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>W – Viton®</td>
<td>Tefzel®</td>
<td>-15°F to 165°F</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Mandatory for Cv = 6.0* 

**Cv = 12.0**

<table>
<thead>
<tr>
<th>BASIC SERIES</th>
<th>BODY MATERIAL</th>
<th>LOADING METHOD</th>
<th>INLET AND OUTLET PORT TYPE</th>
<th>DOME PORT</th>
<th>INLET AND OUTLET PORT SIZE</th>
<th>SENSE TYPE</th>
<th>MODEL NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>26-12</td>
<td>6 – 316 Stainless Steel</td>
<td>1 – External</td>
<td>1 – SAE</td>
<td>1/4’ MS33649</td>
<td>16 – 1”</td>
<td>3 – Internal</td>
<td>083</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2 – NPTF</td>
<td>1/4’ NPTF</td>
<td>20 – 1-1/4”</td>
<td>4 – External</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3 – MS33649</td>
<td>1/4’ MS33649</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Mandatory for Cv = 12.0 Model* 

**WARNING!** Do not attempt to select, install, use or maintain this product until you have read and fully understood the TESCOM Safety, Installation and Operation Precautions.