

# 26-1200 Series Regulators - Pressure Reducing

D26120540X012

## Specifications

For other materials or modifications, please consult TESCOM.

### OPERATING PARAMETERS

Pressure rating per criteria of ANSI/ASME B31.3

<b>Maximum Inlet Pressure</b>
3600 and 6000 psig 248 and 414 bar
<b>Outlet Pressure</b>
To maximum inlet
<b>Design Proof Pressure</b>
150% maximum rated operating
<b>Leakage</b>
Bubble-tight
<b>Flow Capacity</b>
$C_v = 3.3, 6.0, \text{ or } 12.0^*$

### MEDIA CONTACT MATERIALS

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

### OTHER

<b>Cleaning</b>
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.



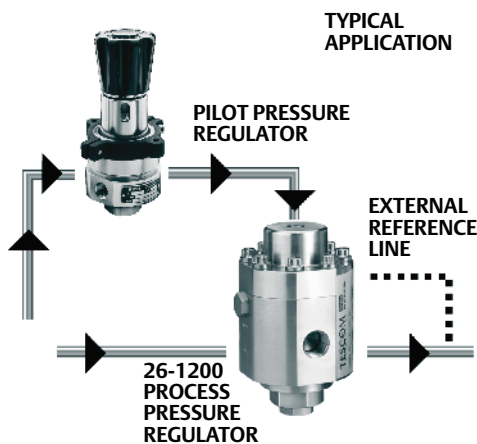
TESCOM 26-1200 Series dome loaded, high flow pressure reducing regulator is externally loaded with 6000 psig / 414 bar maximum inlet and outlet pressures. The 26-1200 Series offers three orifice sizes and  $C_v$  ratings, balanced main valve, and available external sensing.

## 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



## 26-1200 Series Regulator Specifications

### **C<sub>v</sub> = 3.3**

#### OPERATING PARAMETERS

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

##### **Maximum Inlet Pressure**

**Stainless Steel Body:**  
6000 psig / 414 bar

##### **Operating Temperature\***

-40°F to 165°F / -40°C to 74°C

##### **Flow Capacity**

C<sub>v</sub> = 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

### **C<sub>v</sub> = 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**

C<sub>v</sub> = 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

### **C<sub>v</sub> = 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**

C<sub>v</sub> = 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

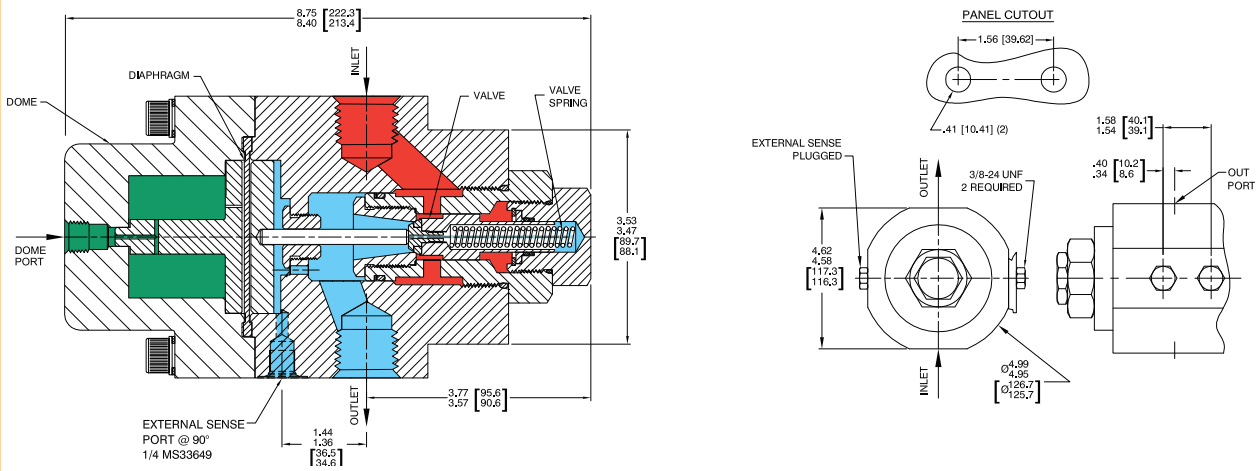
##### **Weight**

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

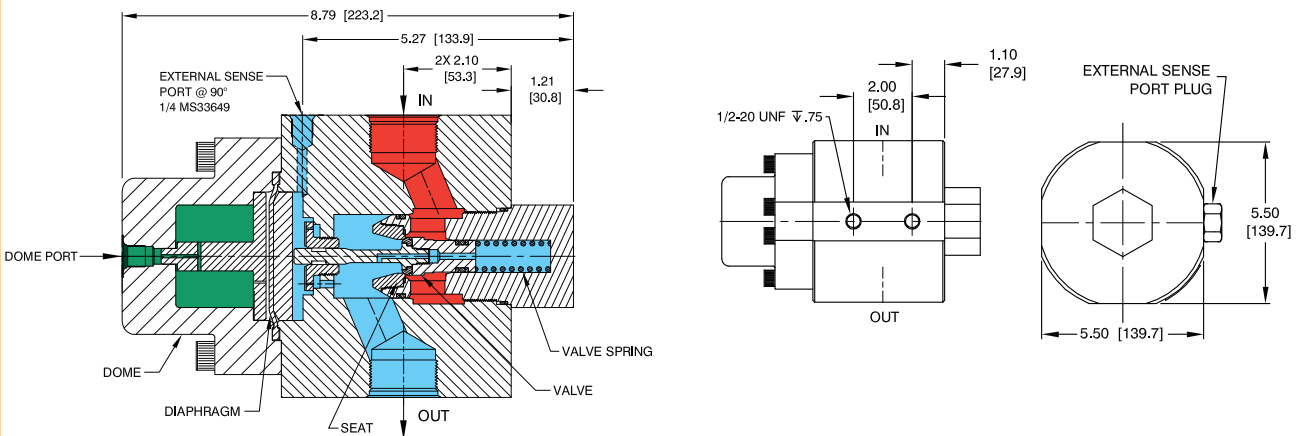
\*For extended temperature applications, consult TESCOM.

## 26-1200 Series Regulator Drawings

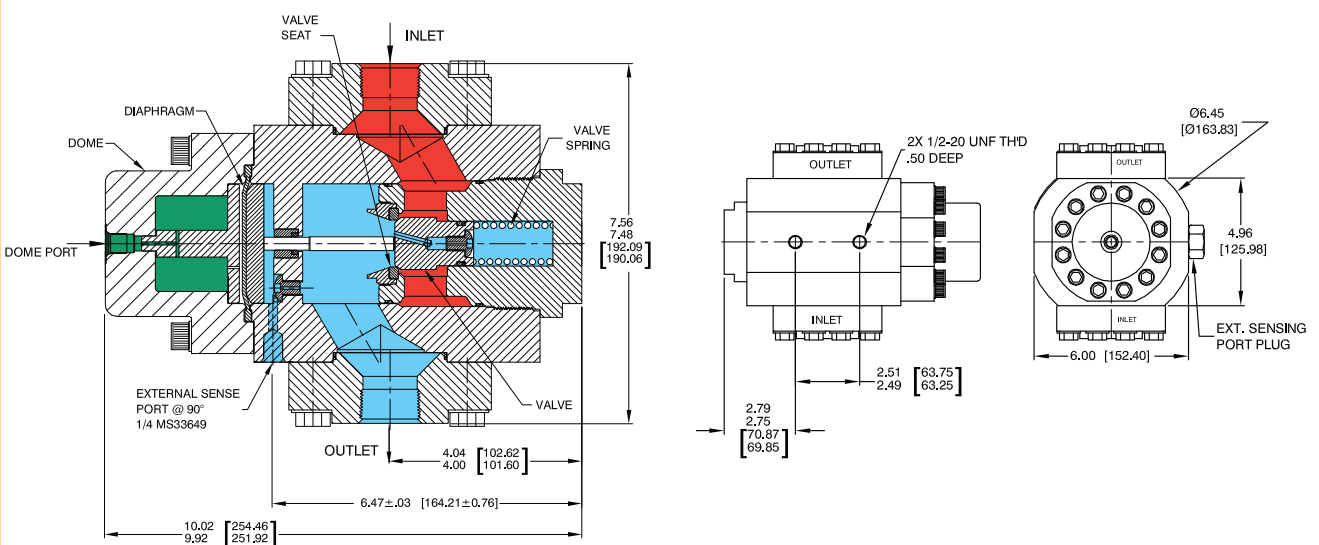
### $C_v = 3.3 - 1\frac{1}{2}" [12.7]$ ORIFICE



### $C_v = 6.0 - 5\frac{1}{8}" [15.9]$ ORIFICE



### $C_v = 12.0 - 1" [25.4]$ ORIFICE



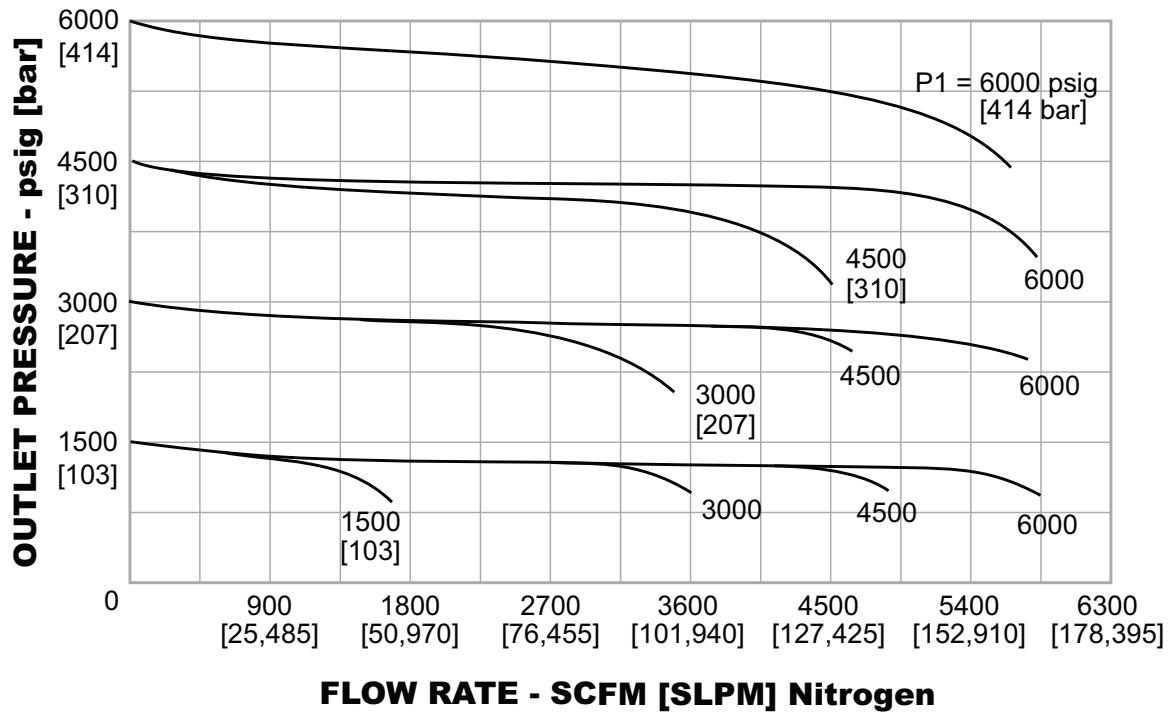
All dimensions are reference & nominal  
Metric [millimeter] equivalents are in brackets

### 26-1200 Series Regulator Flow Chart

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](http://www.tescom.com).

$C_v = 3.3$

Model No. 26-126T-3162-076

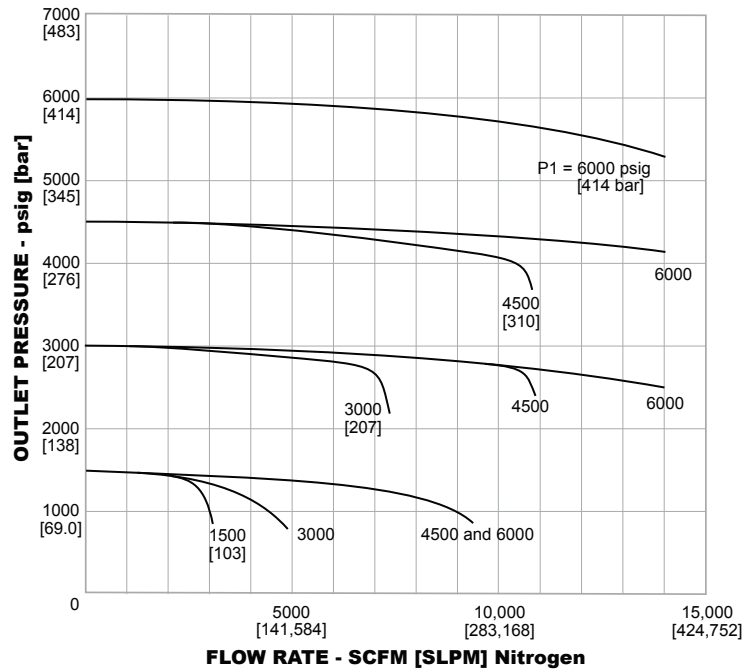


## 26-1200 Series Regulator Flow Charts

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](http://www.tescom.com).

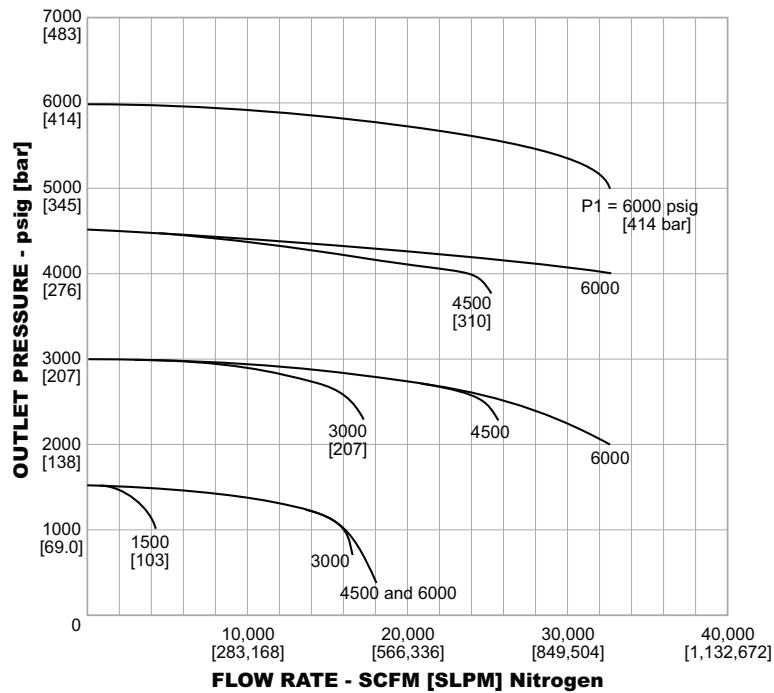
**C<sub>v</sub> = 6.0**

Model No. 26-126T-3162-076



**C<sub>v</sub> = 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:

**C<sub>v</sub> = 3.3**

26-12      2                      1      -                      3                                      16                      1

BASIC SERIES	BODY MATERIAL	LOADING METHOD	INLET AND OUTLET PORT TYPE	DOMES PORT	PORT SIZE	ORIFICE SIZE
26-12	2 – 303 Stainless Steel 6 – 316 Stainless Steel	1 – External	1 – SAE 2 – NPTF 3 – MS33649	1/4" MS33649 1/4" NPTF 1/4" MS33649	12 – 3/4" 16 – 1"	1 – 1/2" 12.7 mm

**C<sub>v</sub> = 6.0**

26-12      6                      T                      -                      3                                      16                      2      -      076

MANDATORY FOR C<sub>v</sub> = 6.0

BASIC SERIES	BODY MATERIAL	DIAPHRAGM/O-RING	SEAT	TEMPERATURE	INLET AND OUTLET PORT TYPE	DOMES PORT	INLET AND OUTLET PORT SIZE	INNER VALVE SIZE	MOD. NUMBER
26-12	6 – 316 Stainless Steel	A – Buna-N B – Buna-N D – Buna-N E – Viton® T – Viton® V – Viton® W – Viton®	VespeI® SP1 VespeI® SP21 CTFE VespeI® SP1 CTFE VespeI® SP21 Tefzel®	-40°F to 165°F -40°C to 74°C -40°F to 165°F -40°C to 74°C -15°F to 300°F -26°C to 149°C -15°F to 165°F -26°C to 74°C -15°F to 300°F -26°C to 149°C -15°F to 165°F -26°C to 74°C	1 – SAE 2 – NPTF 3 – MS33649	1/4" MS33649 1/4" NPTF 1/4" MS33649	12 – 3/4" * 16 – 1" 20 – 1-1/4" SAE or MS only	1 – 5/8" 15.9 mm	076

\*3/4" ports reduce overall C<sub>v</sub> to 5.0

**C<sub>v</sub> = 12.0**

26-12      6                      1      -                      2                                      16                      3      -      083

MANDATORY FOR C<sub>v</sub> = 12.0 MODEL

BASIC SERIES	BODY MATERIAL	LOADING METHOD	INLET AND OUTLET PORT TYPE	DOMES PORT	INLET AND OUTLET PORT SIZE	SENSE TYPE	MODEL NUMBER
26-12	6 – 316 Stainless Steel	1 – External	1 – SAE 2 – NPTF 3 – MS33649	1/4" MS33649 1/4" NPTF 1/4" MS33649	16 – 1" 20 – 1-1/4"	3 – Internal 4 – External	083