

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

Maximum Inlet Pressure

3600 and 6000 psig
248 and 414 bar

Outlet Pressure

To maximum inlet

Design Proof Pressure

150% maximum rated operating

Leakage

Bubble-tight

Flow Capacity

$C_v = 3.3, 6.0, \text{ or } 12.0^*$

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.



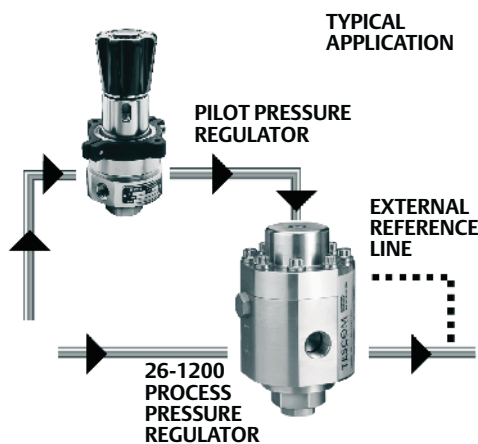
TESCOM 26-1200 Series dome loaded, high flow pressure reducing regulator is externally loaded with 6000 psig / 414 bar maximum inlet and outlet pressures. The 26-1200 Series offers three orifice sizes and C_v ratings, balanced main valve, and available external sensing.

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_v = 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_v = 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_v = 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_v = 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_v = 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_v = 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

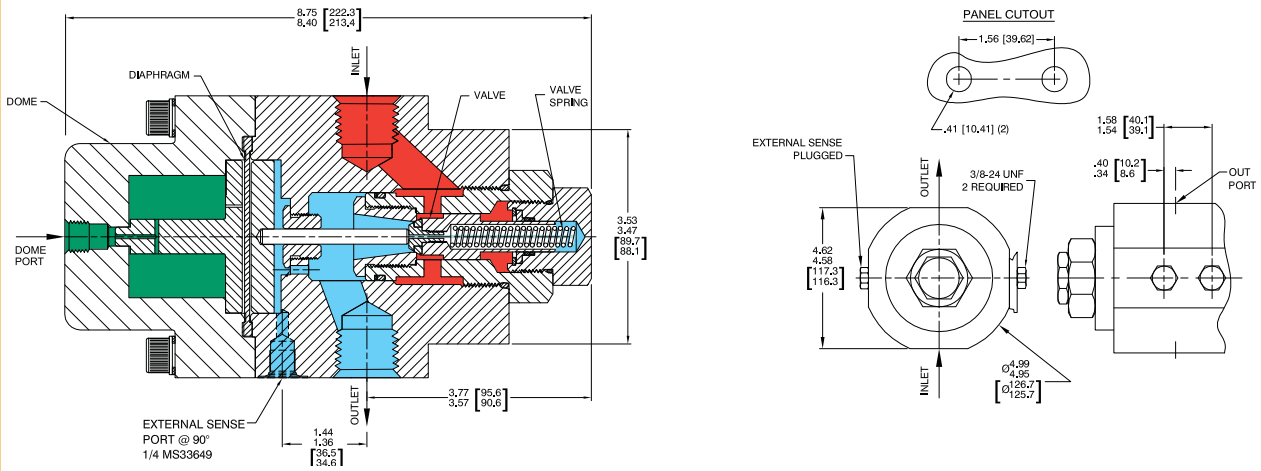
Weight

Stainless Steel: 60 lbs / 27.2 kg

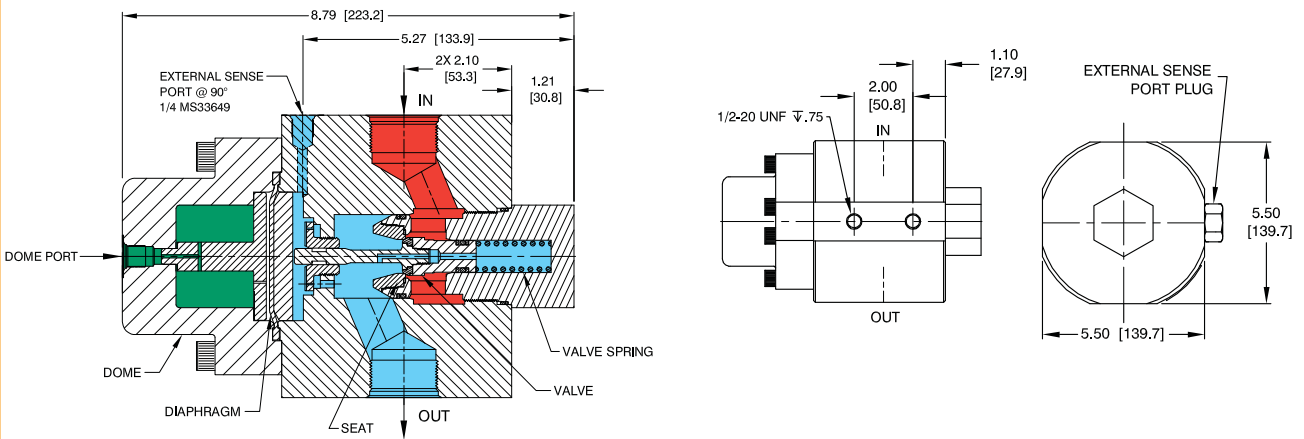
*For extended temperature applications, consult TESCOM.

26-1200 Series Regulator Drawings

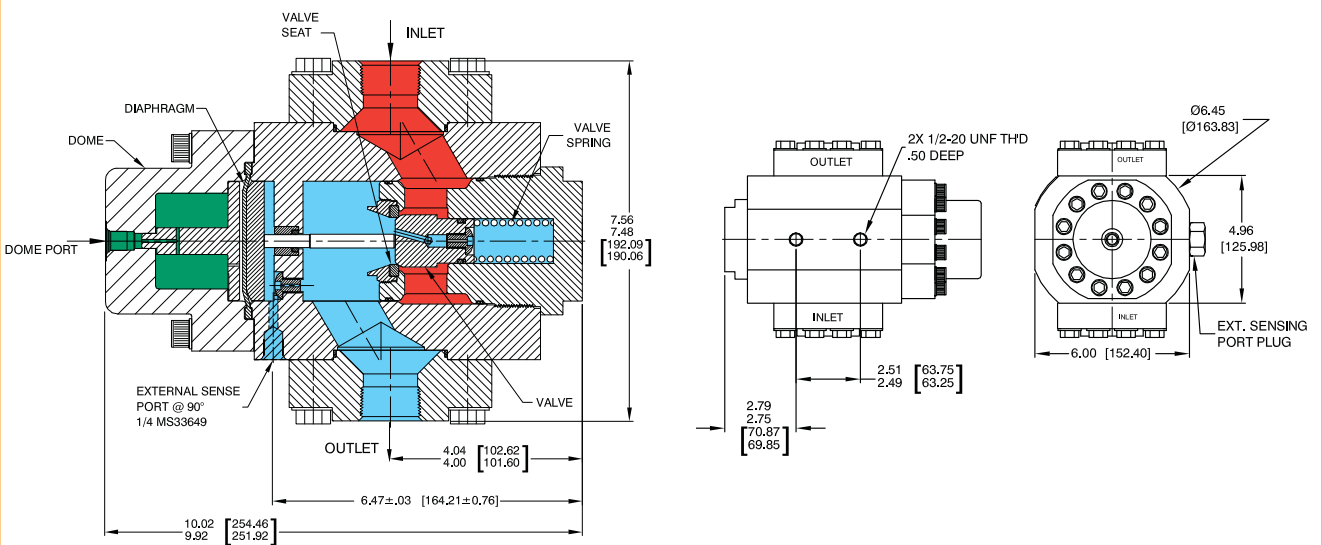
$C_v = 3.3 - 1/2" [12.7]$ ORIFICE



$C_v = 6.0 - 5/8" [15.9]$ ORIFICE



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



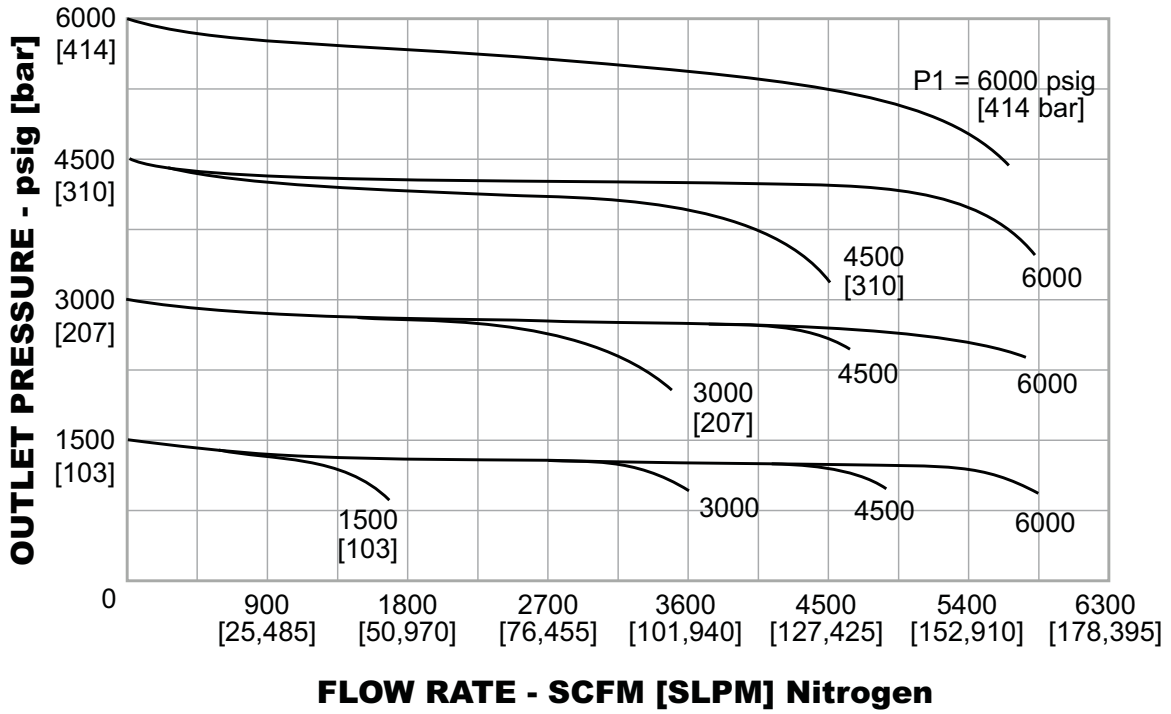
All dimensions are reference & nominal
Metric [millimeter] equivalents are in brackets

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.

$C_v = 3.3$

Model No. 26-126T-3162-076

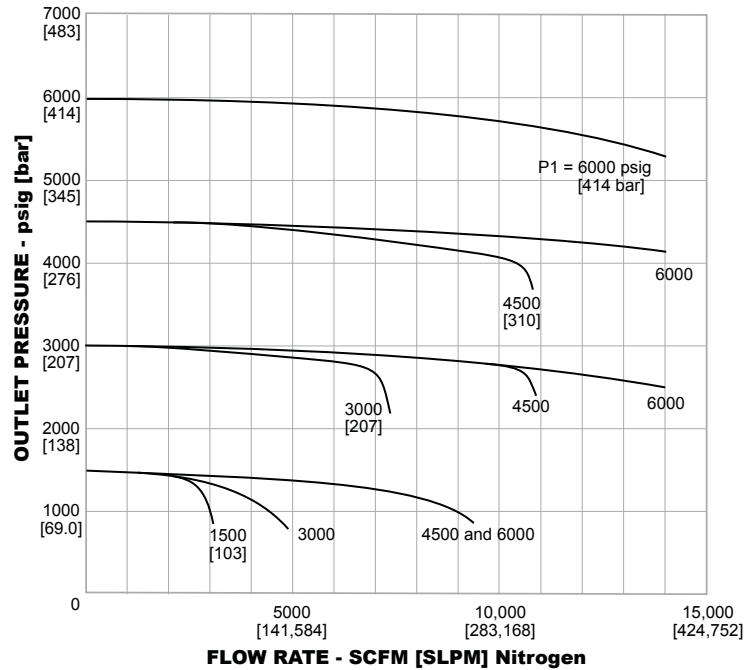


26-1200 Series Regulator Flow Charts

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.

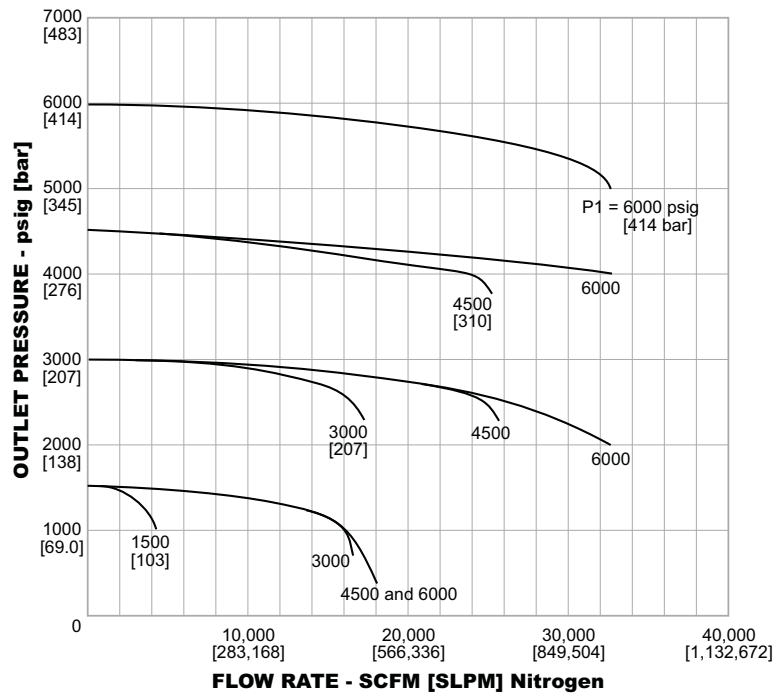
C_v = 6.0

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:

C_v = 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_v = 6.0

26-12 6 T - 3 16 2 - 076

MANDATORY FOR C_v = 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_v to 5.0

C_v = 12.0

26-12 6 1 - 2 16 3 - 083

MANDATORY FOR C_v = 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