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, 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®

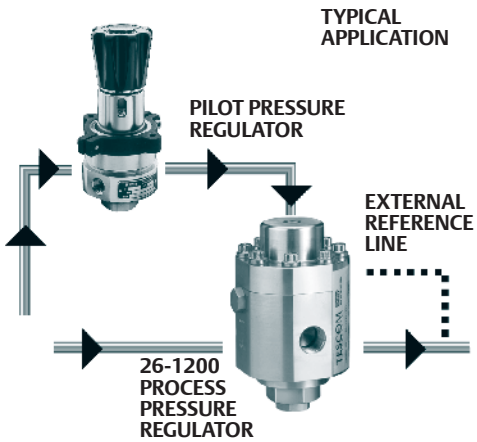
Remaining Parts
300 Series Stainless Steel

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

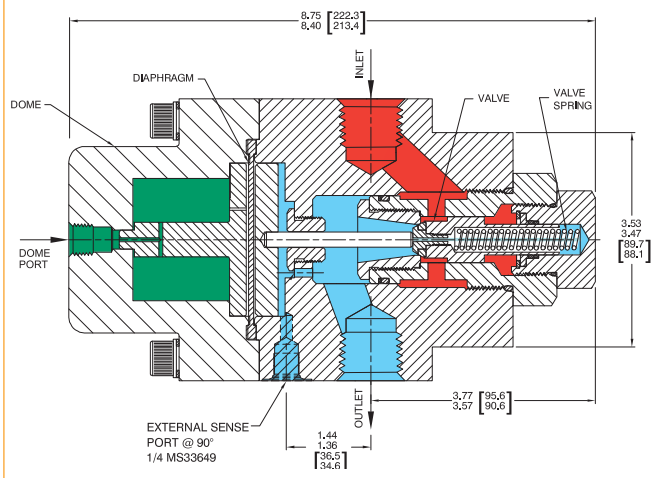
OTHER

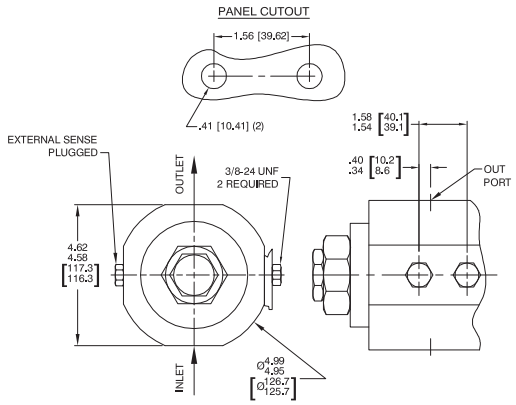
Weight
Stainless Steel: 60 lbs / 27.2 kg

*For extended temperature applications, consult TESCOM.

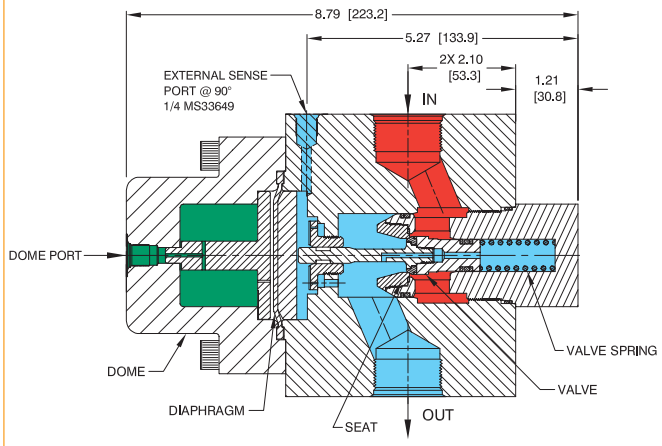
26-1200 Series Regulator Drawings

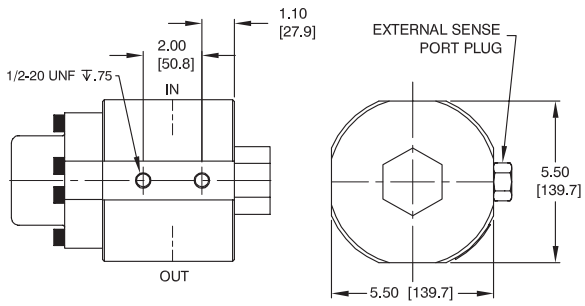
C_V = 3.3 - 1/2" [12.7] ORIFICE



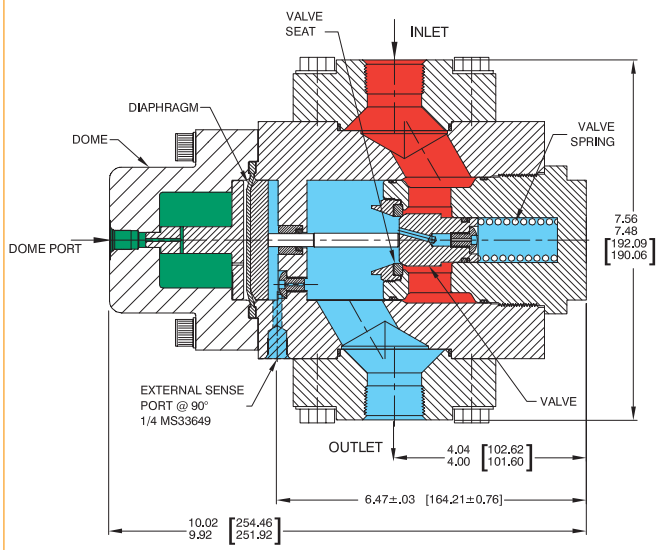


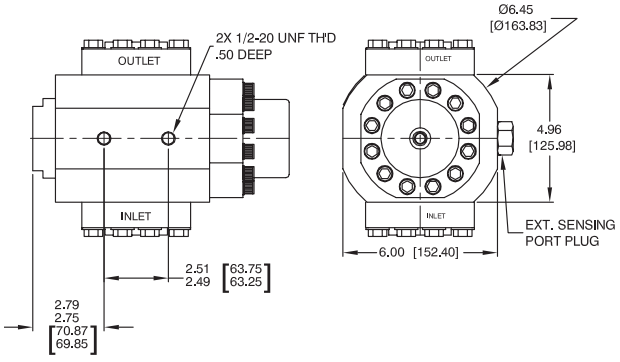
C_V = 6.0 - 5/8" [15.9] ORIFICE





C_V = 12.0 - 1" [25.4] ORIFICE



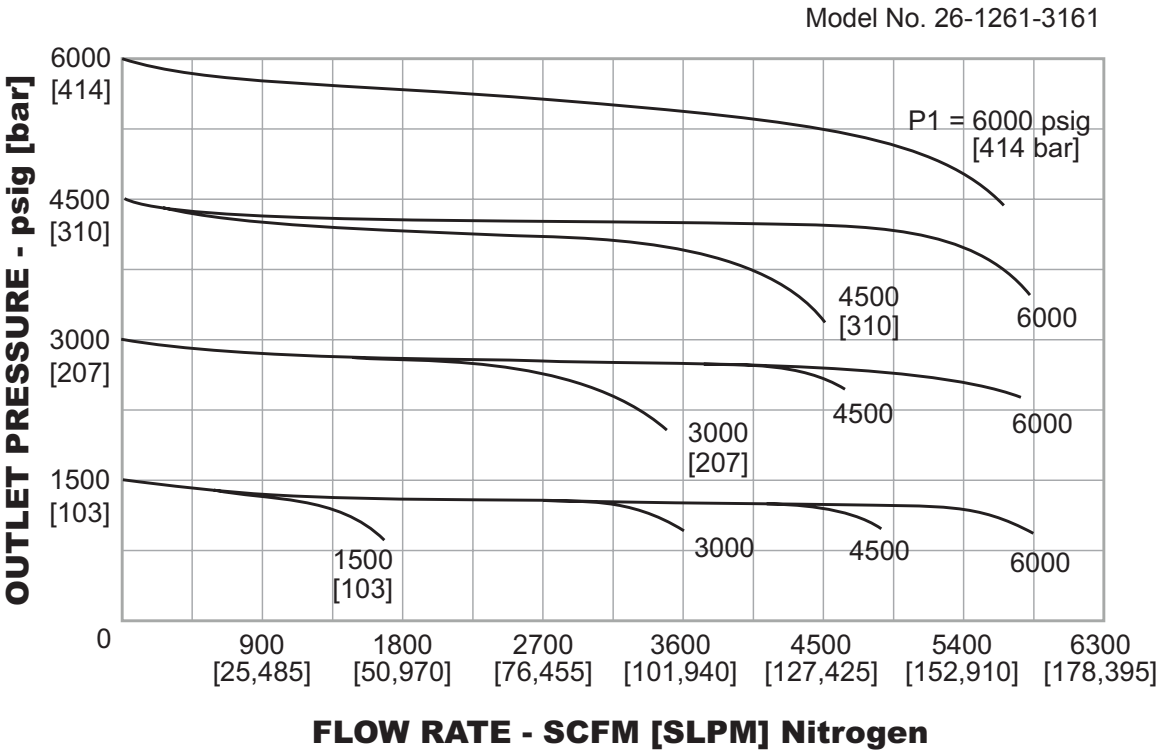


All dimensions are reference & nominal
Metric [millimeter] equivalents are in brackets

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.

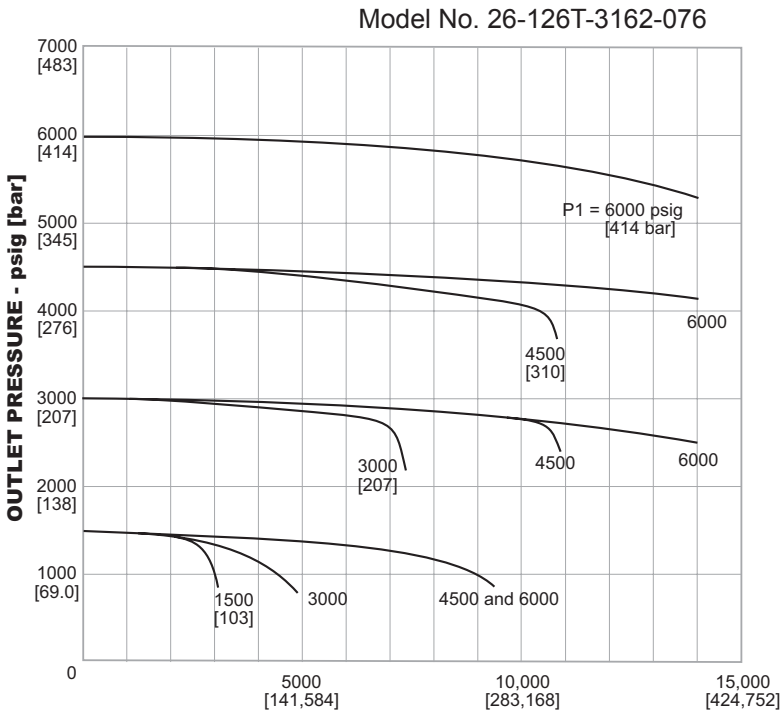
$C_V = 3.3$



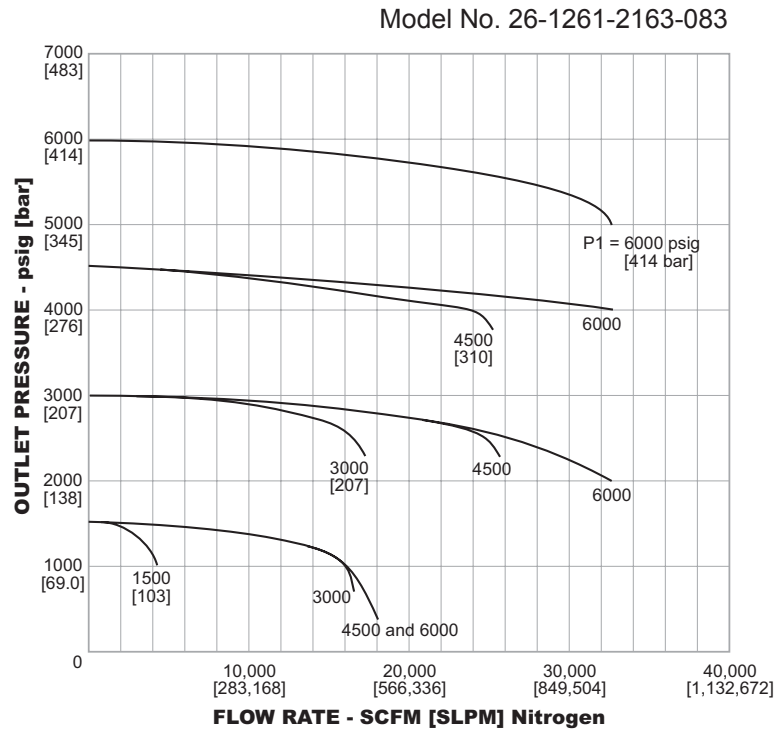
26-1200 Series Regulator Flow Charts

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



C_V = 12.0



The curves above were generated using analytical methods - error is estimated at ±10%

26-1200 Series Regulator Part Number Selector

Learn more about common options.
For modifications, repair kits and accessories, contact factory.

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	DOME 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

MANDATORY FOR C_V = 6.0

26-12 6 T - 3 16 2 - 076

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

**3/4" ports reduce overall C_V to 5.0*

C_V = 12.0

MANDATORY FOR C_V = 12.0 MODEL

26-12 6 1 - 2 16 3 - 083

BASIC SERIES	BODY MATERIAL	LOADING METHOD	INLET AND OUTLET PORT TYPE	DOME 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**

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.*

EMERSON