Specifications

For other materials or modifications, please consult TESCOM.

OPERATING PARAMETERS

Pressure rating per criteria of ANSI/ASME B31.3

Maximum Inlet Pressure 6000 psig / 414 bar

Outlet Pressure Range 0-5000 psig / 0-345 bar

Design Proof Pressure 150% maximum rated

Leakage Bubble-tight

Ambient Operating and Fluid Temperature See Part Number Selector

Flow Capacity

1/4" Main Valve: $C_V = 0.80$

3/8" Main Valve: C_V = 2.0

MEDIA CONTACT MATERIALS

Body

303, 316 Stainless Steel, or Brass

Main Valve Seat CTFE, Teflon[®], or Vespel[®]

O-Ring

Buna-N, Viton-A[®], or Ethylene Propylene

Back-up Ring Teflon[®]

Gasket

CTFE or Vespel®

Remaining Parts 300 Series Stainless, 17-4 PH

OTHER

Connections Inlet and Outlet: 1/4", 1/2", and 3/4" NPTF Dome Port: 1/4" NPTF

Cleaning

CGA 4.1 and ASTM G93

Weight

8.0 lbs / 3.6 kg

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



TESCOM 44-4200 Series is a high pressure, dome loaded, pressure reducing regulator with a $C_V = 0.80$ or 2.0 available. This regulator is rated up to 6000 psig / 414 bar inlet and 5000 psig / 345 bar outlet.

Applications

- Fire suppression equipment
- CNG filling

Features and Benefits

- Available in Brass or Stainless Steel
- Features piston-style sensor and balanced main valve
- Non-venting
- Body and soft goods material options
- High flow, high pressure



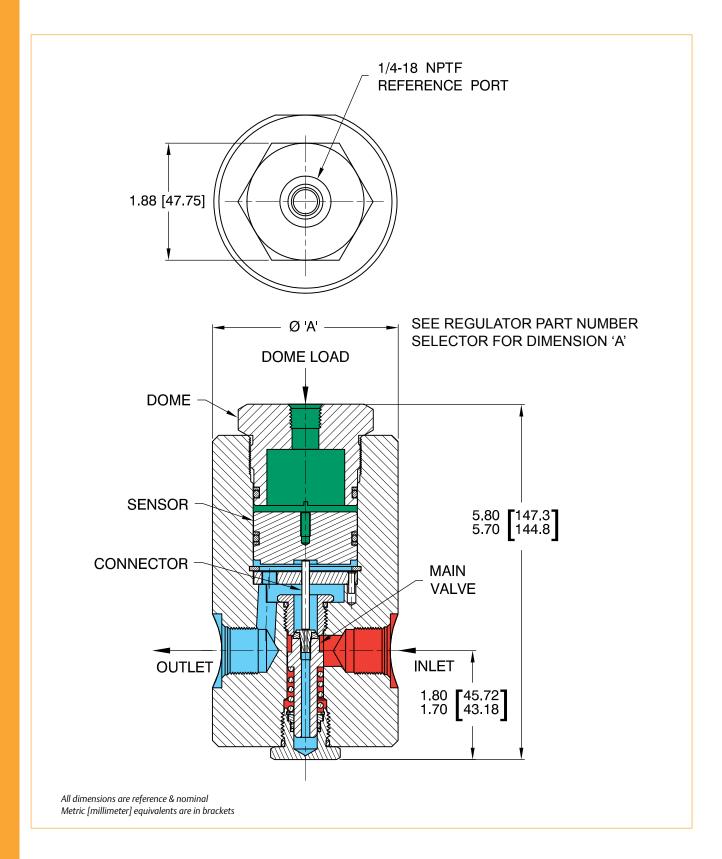
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TESCOM

44-4200 Series Regulator Drawing

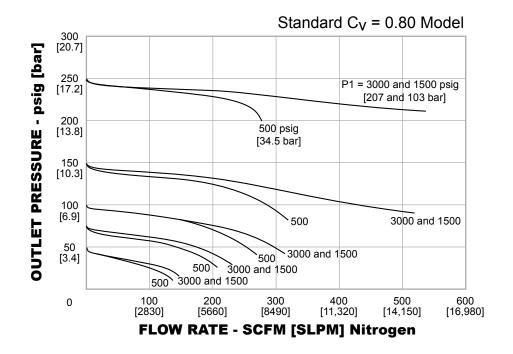




TESCØM

44-4200 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.



Optional C_V = 2.0 Model 300 [20.7] **OUTLET PRESSURE - psig [bar]** 250 [17.2] P1 = 3000 psig . [207 bar] 1500 psig [103 bar] 200 [13.8] 500 psig [34.5 bar] 150 [10.3] 100 [6.9] 3000 and 1500 500 500 50 [3.4] 3000 and 1500 1500 500 500 and 1500 100 [2830] 300 [8490] 400 [11,320] 500 [14,150] 600 [16,980] 200 0 [5660] FLOW RATE - SCFM [SLPM] Nitrogen



TESCØM

44-4200 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:

44-42	1	5	Α				2	4		- 005
BASIC SERIES	BODY MATERIAL	OUTLET PRESSURE RANGE	SOFT GOODS				INLET AND OUTLET	INLET AND	DIAMETER	MOD.
			O-RING	SEAT	GASKET	TEMPERATURE	PORT TYPE	OUTLET PORT SIZE	'A'	NUMBER
44-42	1 – Brass 2 – 303	5 – 0-5000 psig 0-345 bar	A – Buna-N	CTFE	CTFE	-40°F to 165°F -40°C to 74°C	1 – SAE 2 – NPTF	4 – 1/4" 8 – 1/2"	2.47" 2.47"	-005 – C _v = 2.0
	Stainless Steel		B – Buna-N	Teflon®	CTFE	-40°F to 165°F -40°C to 74°C	3 – MS33649	12 – 3/4"	(2.98" SAE) 2.98"	·
	6 – 316 Stainless		E – Viton-A®	CTFE	CTFE	-15°F to 165°F -26°C to 74°C		(NPTF and SAE only)	(3.48" SAE)	
	Steel		F – Viton-A®	Teflon®	CTFE	-15°F to 165°F -26℃ to 74℃				
			G – Viton-A®	Vespel®	Vespel®	-15°F to 250°F -26°C to 121°C				
			H – E.P.	Vespel®	Vespel®	-40°F to 250°F -40°C to 121°C				
			L – E.P.	CTFE	CTFE	-40°F to 165°F -40°C to 74°C				



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.

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