

# 44-7400 Series

## Regulators - Pressure Reducing

D44741992X012

### Specifications

For other materials or modifications, please consult TESCOM.

#### OPERATING PARAMETERS

Pressure rating per criteria of ANSI/ASME B31.3

##### Maximum Inlet Pressure

**Stainless Steel:** 6000 psig / 414 bar  
**Brass:** 4500 psig / 310 bar

##### Maximum Outlet Pressure Ranges

**Stainless Steel:** 5000 psig / 345 bar  
**Brass:** 4000 psig / 276 bar

##### Design Proof Pressure

150% maximum rated

##### Leakage

Bubble-tight

##### Ambient Operating Temperature

0°F to 165°F / -17°C to 74°C

##### Flow Capacity

$C_V = 0.8$   
 $C_V = 2.0$

#### MEDIA CONTACT MATERIALS

##### Body

303 Stainless Steel, 316 Stainless Steel, Brass

##### Main Valve Seat

CTFE, Vespel®

##### Back Cap

300 Series Stainless Steel

##### O-Rings

Buna-N 90, Buna-N, Viton®, Urethane, Kalrez®, Ethylene Propylene

##### Back-up Rings

PTFE

##### Gaskets

CTFE

##### Remaining Parts

Type 17-4, 300 Series Stainless Steel, 17-7, Teflon® and Brass

#### OTHER

##### Cleaning

CGA 4.1 and ASTM G93

##### Weight

6.2 lbs / 2.8 kg

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



TESCOM 44-7400 Series high flow, high pressure, spring loaded pressure reducing regulator offers outlet pressures up to 5000 psig / 345 bar with flow rates from 25-2000 SCFM / 708-56,633 SLPM. Available in Brass or Stainless Steel and two standard  $C_V$ s.

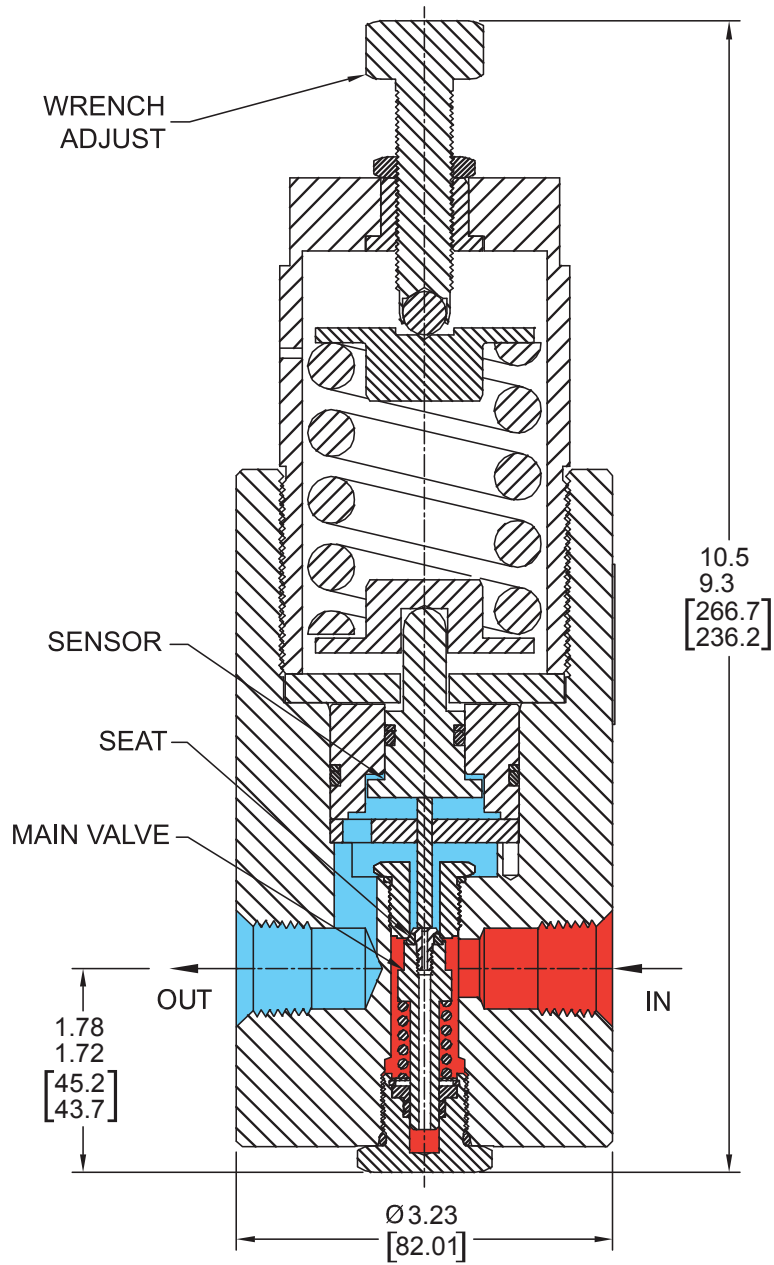
### Applications

- CNG dispensing
- Hydraulic or pneumatic test stands

### Features and Benefits

- Several porting configurations are available
- Spring adjust, high outlet and high flow
- Special design for dispensing compressed natural gas
- Balanced main valve minimizes supply pressure effect
- Modular design
- High safety and reliability

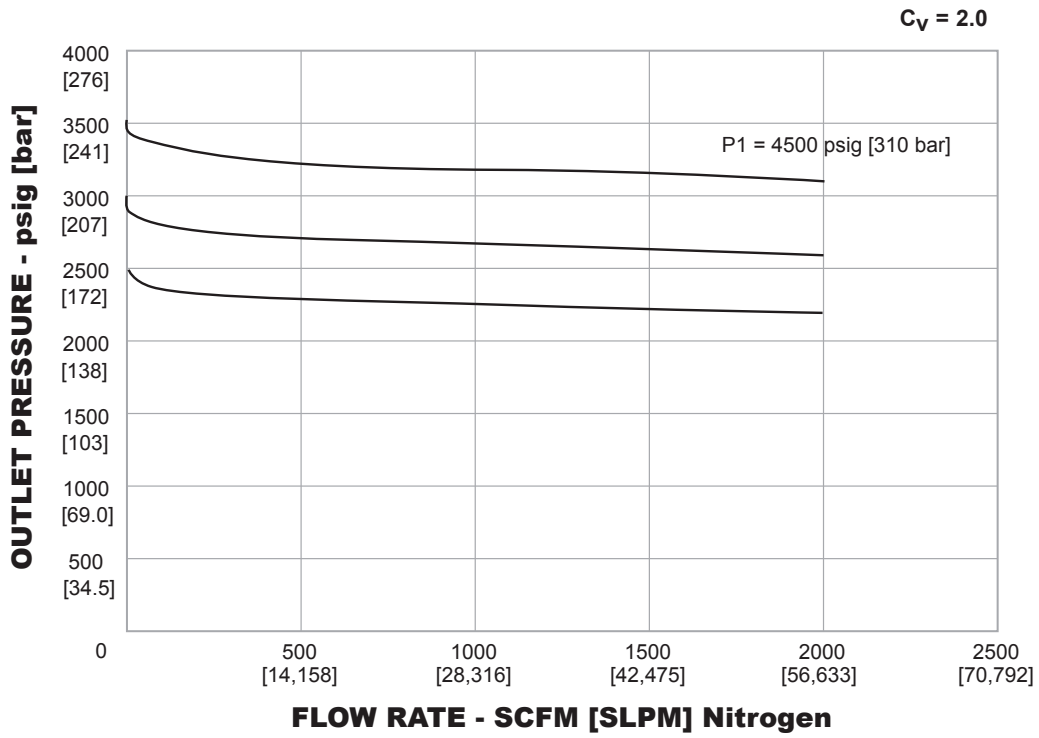
44-7400 Series Regulator Drawing



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

### 44-7400 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).








### 44-7400 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:

W – Wrench adjust

44-74	1	5	T	2	8	W	2	3	0
BASIC SERIES	BODY MATERIAL	MAXIMUM INLET PRESSURE	OUTLET PRESSURE	SOFT GOODS	INLET AND OUTLET PORT TYPE	INLET AND OUTLET PORT SIZE	FLOW CAPACITY	MAIN VALVE SEAT	GAUGE PORT OPTIONS
				O-RINGS BACK-UP RINGS					
44-74	1 – Brass 2 – 303 Stainless Steel 3 – 316 Stainless Steel	4500 psig 310 bar 6000 psig 414 bar 6000 psig 414 bar	5 – 4000 psig 276 bar 6 – 5000 psig 345 bar (Stainless Steel body only)	B – Buna-N 90 PTFE D – Buna-N PTFE T – Viton® PTFE U – Urethane PTFE V – Kalrez® PTFE Z – Ethylene Propylene PTFE	1 – SAE 2 – NPTF 3 – MS33649	8 – 1/2" 7 – 3/4"	1 – $C_V = 0.8$ 2 – $C_V = 2.0$	3 – CTFE 7 – VespeI®	0 – No gauge ports  1 – One gauge port at 90°  2 – Two gauge ports at 60°  3 – Two gauge ports at 60° (left hand inlet)  4 – Two gauge port at 90°  5 – One gauge port at 90° (left hand inlet) 