

## 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

$C_v = 0.8$

$C_v = 2.0$



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.

### MEDIA CONTACT MATERIALS

#### Body

303 Stainless Steel, 316 Stainless Steel, Brass

#### Main Valve Seat

PCTFE, Polyimide (Vespel®)

#### Back Cap

300 Series Stainless Steel

#### O-Rings

Nitrile, Buna-N 90 Durometer; Nitrile, Buna-N; FKM (Viton®-A), Urethane, FFKM, Perfluoroelastomer (Kalrez®), Ethylene Propylene

#### Back-up Rings

PTFE

#### Gaskets

PCTFE

#### Remaining Parts

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

### OTHER

#### Cleaning

CGA 4.1 and ASTM G93

#### Weight

14 lbs / 6.2 kg

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## Applications

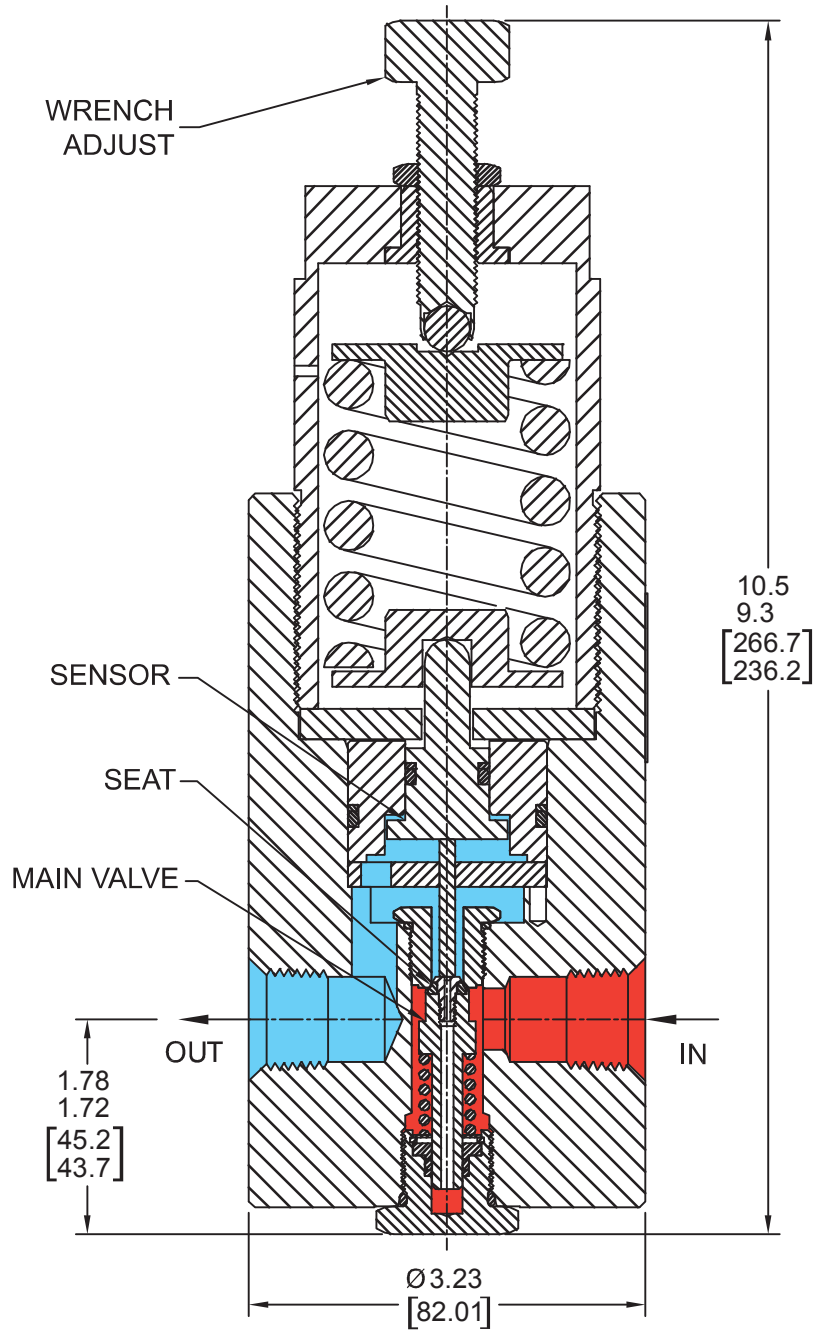
- CNG dispensing
- Hydraulic or pneumatic test stands

## 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

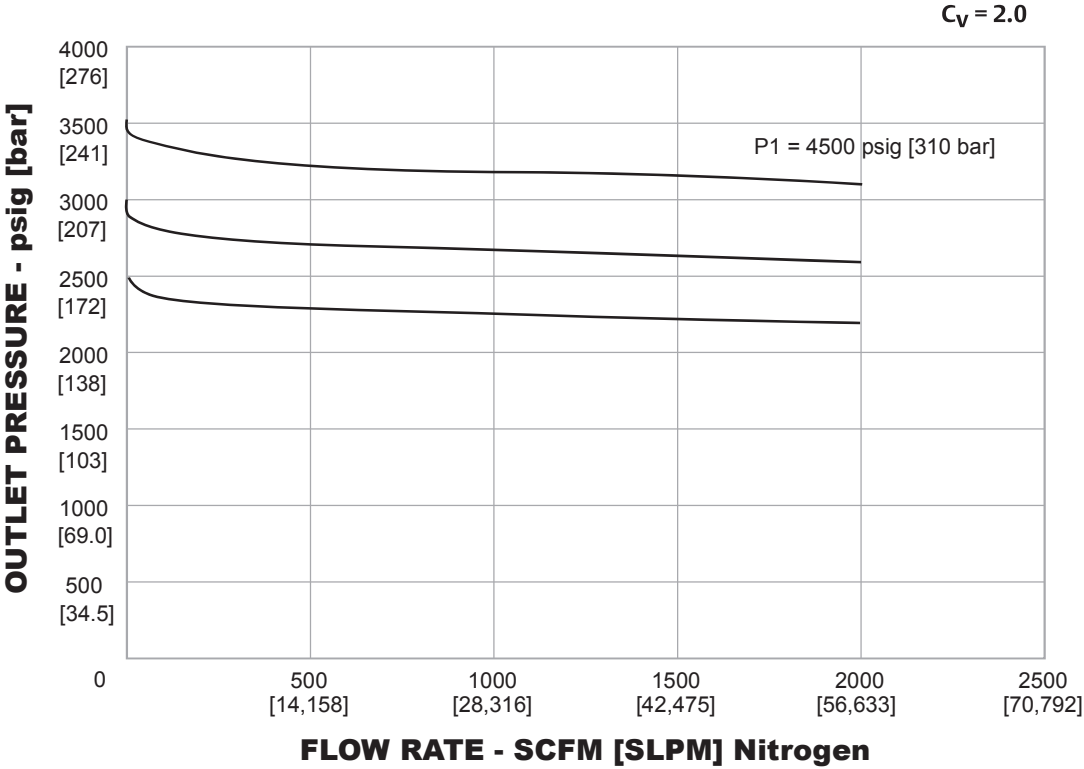
## 44-7400 Series Regulator Drawing



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 TESCO catalog or on www.tescom.com.









# 44-7400 SERIES

## 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:

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  6 – 316 Stainless Steel	4500 psig 310 bar  6000 psig 414 bar  6000 psig 414 bar	5 – 4000 psig 276 bar (Brass body only)  6 – 5000 psig 345 bar (Stainless Steel body only)	B – Nitrile, Buna-N 90 PTFE  D – Nitrile, Buna-N PTFE  T – FKM (Viton®-A) PTFE  U – Urethane PTFE  V – FFKM, Perfluoroelastomer (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 – PCTFE  7 – Polyimide (Vespel®)	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)  

W – Wrench adjust