

# 54-2800 Series

## Regulators - Pressure Reducing

D54281663X012

### Specifications

For other materials or modifications, please consult TESCOM.

#### OPERATING PARAMETERS

Pressure rating per criteria of ANSI/ASME B31.3

**Maximum Inlet Pressure**

5000 psig / 345 bar

**Outlet Pressure Ranges**

50-1500, 200-5000 psig / 3.4-103, 13.8-345 bar

**Design Proof Pressure**

150% maximum rated

**Leakage (maximum)**

2 drops/min at 150 S.U.S. at 2500 psig / 172 bar

**Operating Temperature<sup>1</sup>**

0°F to 165°F / -17°C to 74°C

**Flow Capacity**

**Main Valve:**  $C_v = 8.0$

**Vent Valve:**  $C_v = 6.5$

#### MEDIA CONTACT MATERIALS

**Body**

303 Stainless Steel

**Seat, Poppet, Sensor**

17-4 PH Stainless Steel

**O-Ring**

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

**Back-up Rings**

Teflon®

**Remaining Parts**

300 Series Stainless Steel

#### OTHER

**Cleaning**

CGA 4.1 and ASTM G93

**Weight**

35 lbs / 15.9 kg

<sup>1</sup> For extended temperatures up to 350°F / 177°C, consult TESCOM. Teflon®, Viton® and Kalrez® are registered trademarks of E.I du Pont de Nemours and Company.



TESCOM 54-2800 Series high pressure, high flow, pressure reducing regulator is designed for hydraulic applications. Inlet and outlet rated up to 5000 psig / 345 bar;  $C_v = 8.0$  for high flows. Air operated and dome loaded versions are available. Hardened Stainless Steel seat and poppet for excellent wear resistance.

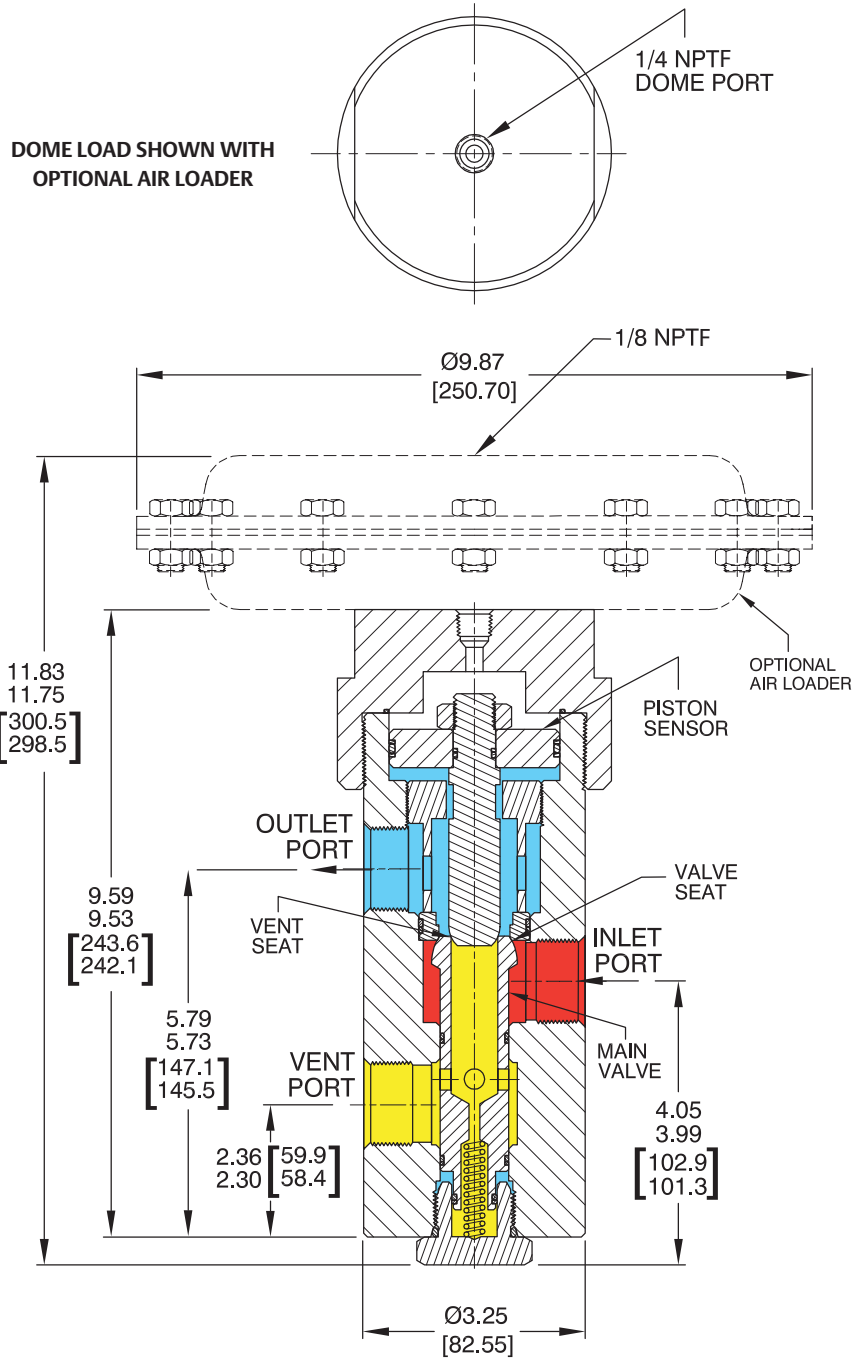
### Applications

- Hydraulically operated blowout preventers (BOP)
- Hydraulic component testing

### Features and Benefits

- High flow and compact design
- Hardened 17-4 PH Stainless Steel seat and poppet provides excellent protection against shock and erosion
- Utilizes a piston style sensor, balanced main valve poppet and a non-adjustable vent

54-2800 Series Regulator Drawing

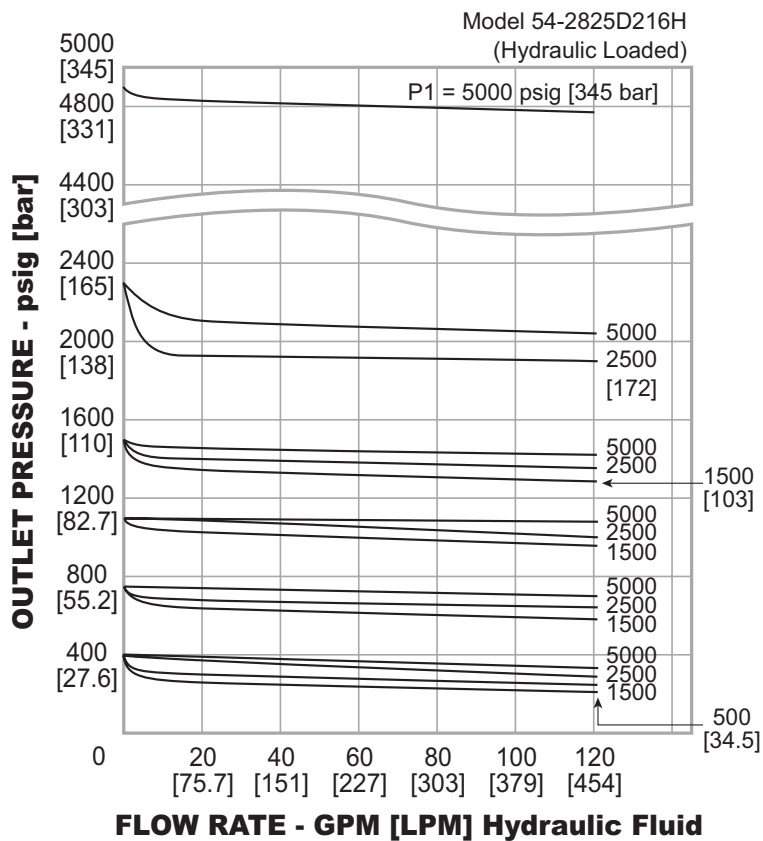


All dimensions are reference & nominal  
Metric [millimeter] equivalents are in brackets

## 54-2800 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).

### PRESSURE REDUCING



## 54-2800 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:

BASIC SERIES	BODY MATERIAL	OUTLET PRESSURE RANGES	O-RING MATERIAL		PORT TYPE	PORT SIZE	NUMBER OF PORTS	LOADING
			DYNAMIC	STATIC				
54-28	2 – 303 Stainless Steel	1 – 50-1500 psig 3.4-103 bar (air load - 18:1) <sup>2</sup> 5 – 200-5000 psig 13.8-345 bar (air load - 52:1) <sup>2</sup>	D – Buna-N T – Viton <sup>®3</sup> V – Kalrez <sup>®3</sup> Z – Ethylene Propylene	Buna-N Viton <sup>®3</sup> Kalrez <sup>®3</sup> Ethylene Propylene	1 – SAE 2 – NPTF	16 – 1"	3	H – Hydraulic 1:1 A – Air

2. Ratio is for reference only.  
3. Air load only.



**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*.