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[1]
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
Nitrile, Buna-N, FKM (Viton®-A), Ethylene Propylene, FFKM, Perfluoroelastomer (Kalrez®)

Back-up Rings
PTFE

Remaining Parts
300 Series Stainless Steel

OTHER

Cleaning
CGA 4.1 and ASTM G93

Weight
35 lbs / 15.9 kg

1. For extended temperatures up to 350°F / 177°C, consult TESCOM.
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AIR LOADED

HYDRAULIC (DOME) LOADED

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

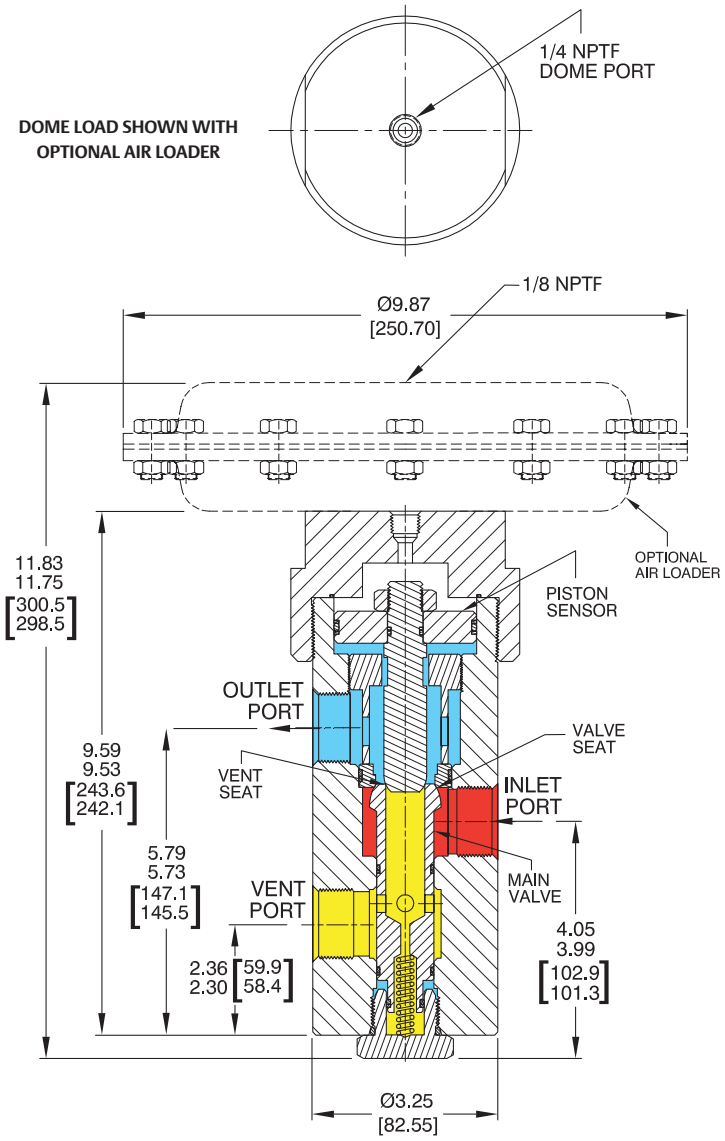
- Hydraulically operated blowout preventers (BOP)
- Hydraulic component testing

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

54-2800 Series Regulator Drawing

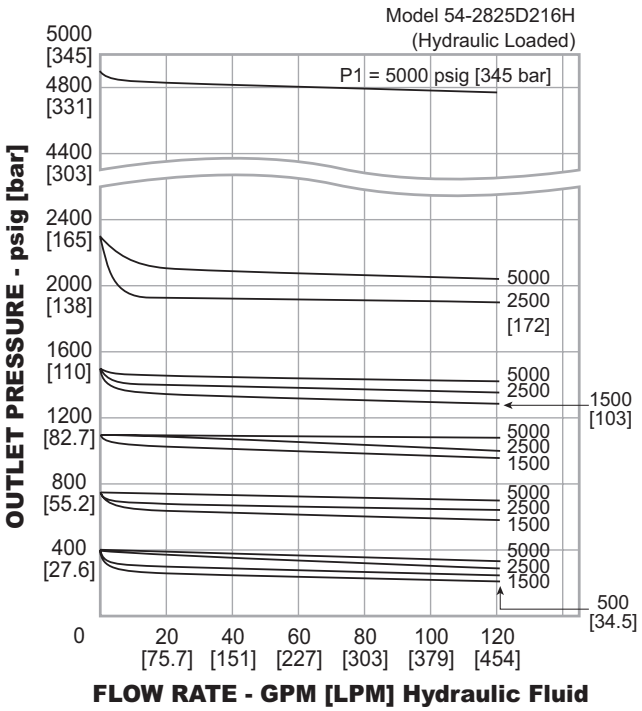


All dimensions are reference & nominal
Metric [millimeter] equivalents are in brackets

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.

PRESSURE REDUCING



54-2800 SERIES

54-2800 Series Regulator Part Number Selector

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

Example for selecting a part number:

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

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