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54-2100 SERIES

Regulators - Relief / Backpressure

D54211635X012

Specifications

For other materials or modifications, please consult TESCOM.

OPERATING PARAMETERS

Pressure rating per criteria of ANSI/ASME B31.3

Maximum Inlet Pressure

15,000 psig / 1034 bar

Controlled Pressure Ranges

0-500, 0-800, 10-1500, 15-2500, 25-4000, 50-6000, 200-10,000, 300-15,000 psiq

0-34.5, 0-55.2, 0.69-103, 1.0-172, 1.7-276, 3.4-414, 13.8-690, 20.7-1034 bar

Design Proof Pressure

150% maximum rated

Leakage

Maximum 2 drops/minute at 150 SUS at 2500 psig / 172 bar

Ambient Operating Temperature¹

-15°F to 165°F / -26°C to 74°C

Flow Capacity

 $C_V = 0.08$

Maximum Operating Torque

40 in-lbs / 4.5 N•m

MEDIA CONTACT MATERIALS

Body

316 Stainless Steel

Seat and Poppet

17-4 PH Stainless Steel

O-Ring

See Part Number Selector

Back-up Ring

Inlet Pressure Ranges

2500-10,000 psig / 172-690 bar: PTFE 15,000 psig / 1034 bar: PCTFE

Valve Seal

Polyimide (Vespel®)

Sensor Seal

Inlet Pressure Ranges

500-10,000 psig / 34.5-690 bar: PCTFE 15,000 psig / 1034 bar: Polyimide (Vespel®)

Remaining Parts

300 Series Stainless Steel

OTHER

Cleaning

CGA 4.1 and ASTM G93

Weight

5 lbs / 2.3 kg

1. For extended temperatures from -40°F to 400°F / -40°C to 204°C, consult TESCOM.

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DOME LOADED

TESCOM 54-2100 Series backpressure regulator is suitable for 15,000 psig / 1034 bar liquid applications. Modifications are also available for 20,000 psig / 1379 bar and 30,000 psig / 2068 bar. Hardened Stainless Steel seat and stem provide excellent wear resistance in harsh applications.

Applications

- Pump discharge pressure control
- Chemical injection
- Burst testing

Features and Benefits

- Accuracy ± 1% of control pressure range
- Easily adjusted, low torque handknob control, dome and air loaded versions are available
- Hardened Stainless Steel seats
- Safe and reliable piston-style sensor
- Panel mounting is standard
- Compatible with TESCOM's air actuator and ER5000 Electropneumatic Controllers

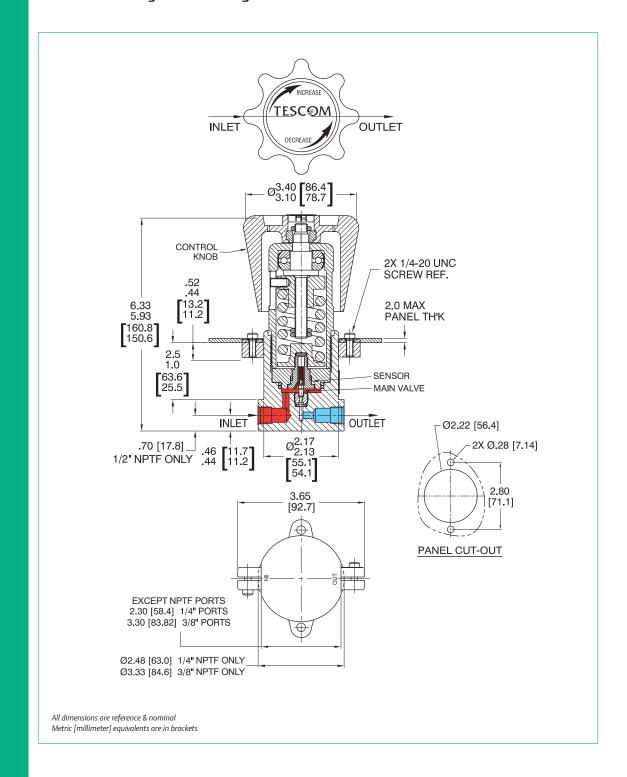


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54-2100 SERIES

54-2100 Series Regulator Drawing





Visit our website at emerson.com or contact us at (800) 447-1250

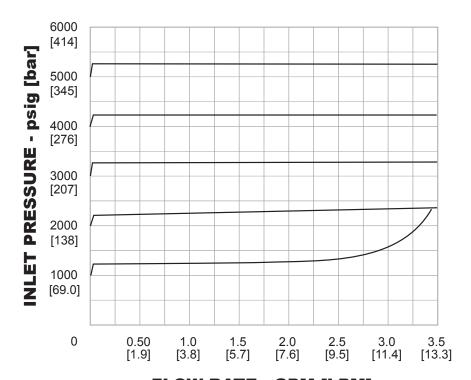
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54-2100 Series Regulator Flow Chart

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.



FLOW RATE - GPM [LPM]

Hydraulic Fluid - Mobil DTE 20 Series



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54-2100 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:

6	1	I	D		2	4	
	INLET PRESSURE	SOFT GOODS MATERIAL			INILET	INIET	
BODY MATERIAL		DYNAMIC	STATIC	SEAT	AND OUTLET PORT TYPE	AND OUTLET PORT SIZE	LOADING
6 – 316 Stainless Steel	0 - 300-15,000 psig 20.7-1034 bar¹ (Spring only) 1 - 200-10,000 psig 13.8-690 bar² 2 - 50-6000 psig 3.4-414 bar (Spring and Air only) 3 - 25-4000 psig 1.7-276 bar (Spring only) 4 - 15-2500 psig 1.0-172 bar (Spring and Air only) 5 - 10-1500 psig 0.69-103 bar (Spring and Air only) 6 - 0-800 psig 0-55.2 bar (Spring only) 7 - 0-500 psig	D – Nitrile, Buna-N T – FKM (Viton®-A) V – FFKM, Perfluoroelastomer (Kalrez®) Z – Ethylene Propylene	Nitrile, Buna-N FKM (Viton®-A) FFKM, Perfluoroelastomer (Kalrez®) Ethylene Propylene				- Spring (no letter required) H - Dome A - Air ³
	BODY MATERIAL 6 – 316 Stainless	BODY MATERIAL 6 - 316 Stainless Steel 0 - 300-15,000 psig 20.7-1034 bar¹ (Spring only) 1 - 200-10,000 psig 13.8-690 bar² 2 - 50-6000 psig 3.4-414 bar (Spring and Air only) 3 - 25-4000 psig 1.7-276 bar (Spring only) 4 - 15-2500 psig 1.0-172 bar (Spring and Air only) 5 - 10-1500 psig 0.69-103 bar (Spring and Air only) 6 - 0-800 psig 0-55.2 bar (Spring only) 7 - 0-500 psig	BODY MATERIAL INLET PRESSURE DYNAMIC	SOFT GOODS MATE MATERIAL INLET PRESSURE DYNAMIC STATIC	SOFT GOODS MATERIAL SEAT	SOFT GOODS MATERIAL INLET PRESSURE DYNAMIC STATIC SEAT SEAT STATIC SEAT SEAT STATIC SEAT SEAT STATIC SEAT STATIC SEAT STATIC SEAT SEAT STATIC SEAT SEAT SEAT SEAT STATIC SEAT SEAT	BODY MATERIAL INLET PRESSURE DYNAMIC STATIC SEAT SEAT



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