

Specifications

For other materials or modifications, please consult TESCOM.

OPERATING PARAMETERS

Pressure rating per criteria of ANSI/ASME B31.3

Maximum Inlet Pressure

Spring and Dome Loaded: 5000 psig / 345 bar

Air Actuated: 10,000 psig / 690 bar

Control Pressure Ranges

1000, 1500, 2500, 3500, 5000 and 10,000 psig

69.0, 103, 172, 241, 345 and 690 bar

Design Proof Pressure

150% of maximum rated

Leakage

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

Operating Temperature (media)¹

-40°F to 165°F / -40°C to 74°C

Flow Capacity

$C_v = 1.6$

MEDIA CONTACT MATERIALS

Body

303 or 316 Stainless Steel

Seat, Poppet and Sensor

17-4 PH Stainless Steel

O-Rings

Buna-N, Viton®, Ethylene Propylene or Polyurethane

Back-up Rings

PTFE

Bonnet (Spring load only)

303 Stainless Steel

Remaining Parts

300 Stainless Steel

OTHER

Cleaning

CGA 4.1 and ASTM G93

Weight

Spring and Dome Loaded: 15 lbs / 6.8 kg

Air Actuated: 30 lbs / 13.6 kg

¹ Operating temperature range dependent on o-ring material.

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



TESCOM 54-2300 Series backpressure hydraulic regulator is capable of flows from 5-50 GPM and is available in air load for use with the TESCOM ER3000 Electropneumatic Controller.

Applications

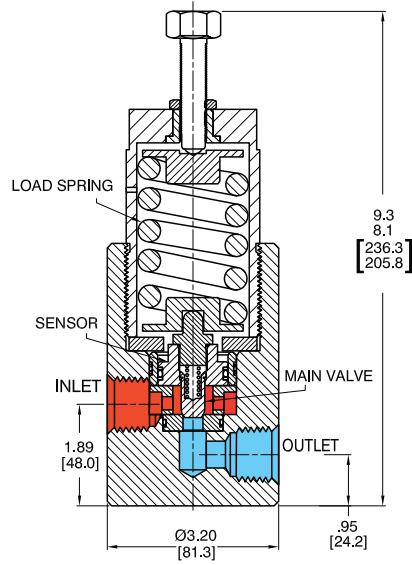
- Hydraulic test stands
- Process control

Features and Benefits

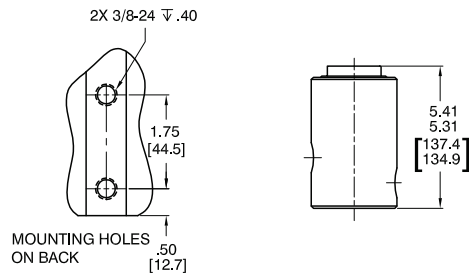
- Wear rings available for non-lubricating media
- Control pressure up to 10,000 psig / 690 bar
- Flow Capacity $C_v = 1.6$
- Excellent crack-to-reseat ratio
- Hardened metal-to-metal seats for heavy duty service
- Choice of spring, dome and air actuated loading
- Standard side mounting holes

54-2300 Series Regulator Drawing

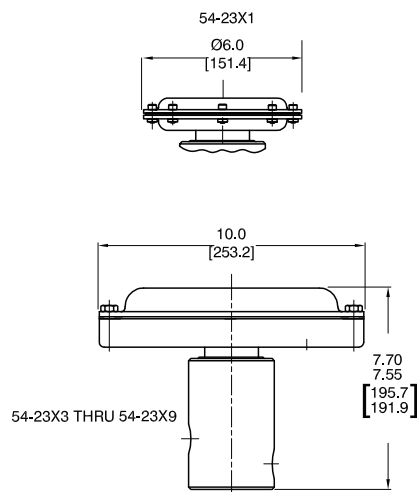
SPRING LOAD



DOME LOAD (1/2) SCALE



AIR LOAD (1/2) SCALE

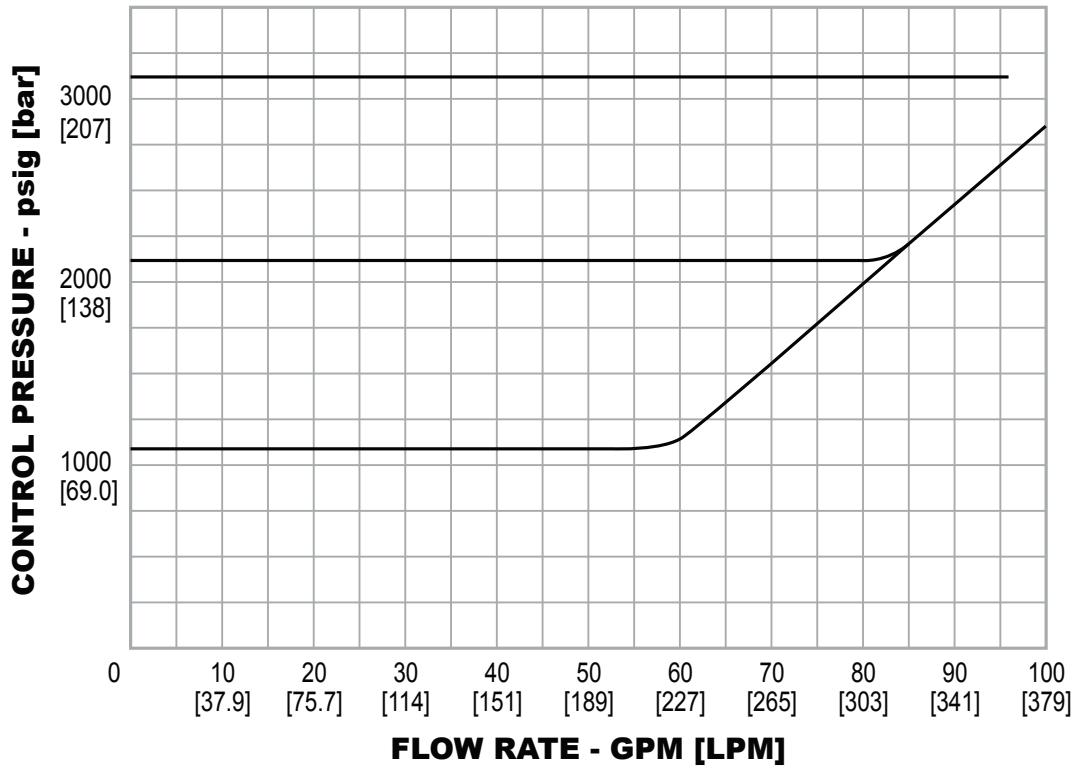


All dimensions are reference & nominal
Metric [millimeter] equivalents are in brackets

54-2300 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.

Model 54-2325D212H
 E.I. No. 0428 and 0429
 (Hydraulic Loading Option)



54-2300 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:

54-23	2	1	T				2	12	S
			SOFT GOODS MATERIAL						
			O-RINGS		SEAT	TEMPERATURE (MEDIA ONLY)			
DYNAMIC	STATIC								
BASIC SERIES	BODY MATERIAL	CONTROL PRESSURE RANGES					PORT TYPE	PORT SIZE	LOADING METHOD
54-23	2 – 303 Stainless Steel	0 – 20-1000 psig 1.4-69.0 bar (spring only)	D – Buna-N	Buna-N	17-4 Stainless Steel	-40°F to 165°F -40°C to 74°C	1 – SAE 2 – NPTF	8 – 1/2" 12 – 3/4"	S – Spring H – Dome A – Air
			T – Viton®	Viton®	17-4 Stainless Steel	-15°F to 300°F -26°C to 149°C			
	6 – 316 Stainless Steel	1 – 20-1500 psig 1.4-103 bar (spring and air only)	U – Polyurethane	Polyurethane	17-4 Stainless Steel	-15°F to 125°F -26°C to 52°C			
			Z – Ethylene Propylene	Ethylene Propylene	17-4 Stainless Steel	-40°F to 225°F -40°C to 107°C			
		3 – 50-3500 psig 3.4-241 bar (spring only) 50-2500 psig 3.4-172 bar (air only 30:1*)							
		5 – 200-5000 psig 13.8-345 bar (spring and dome 1:1 and air 75:1)							
		9 – 250-10,000 psig 17.2-690 bar (air only 125:1*)							
							*Ratio is for reference only.		