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

303 Stainless Steel or 316 Stainless Steel

Seat, Poppet and Sensor

17-4 PH Stainless Steel

Nitrile, Buna-N, FKM (Viton®-A), Ethylene Propylene or Polyurethane

Back-up Rings

PTFE

Bonnet (Spring load only)

303 Stainless Steel, 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.

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DOME LOADED

SPRING LOADED

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 ER5000 Electropneumatic Controller.

Applications

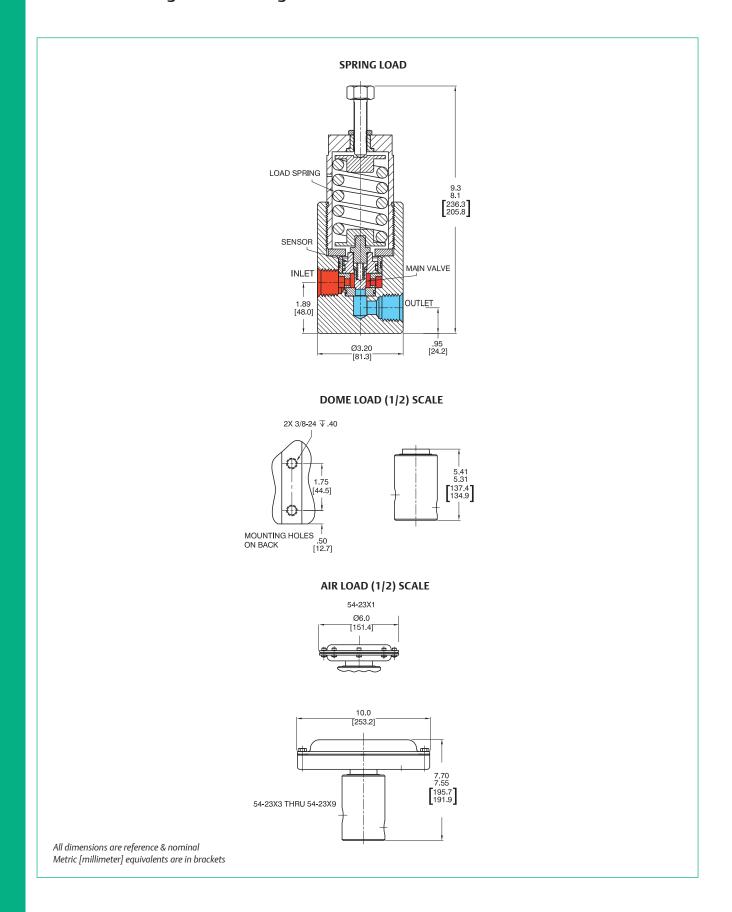
- · Hydraulic test stands
- Process control

Features and Benefits

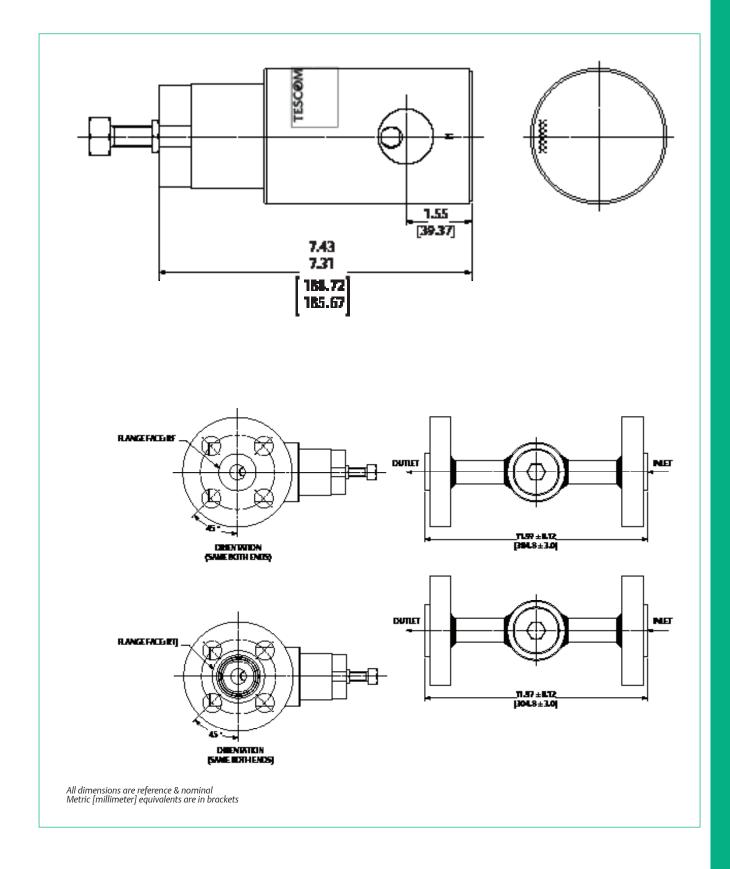
- Wear rings available for non-lubricating media
- Control pressure up to 10,000 psig / 690 bar
- Flow Capacity C_V = 1.6
- Excellent crack-to-reseat ratio
- Hardened metal-to-metal seats for heavy duty service
- · Choice of spring, dome and air actuated loading
- Standard side mounting holes
- Flanged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

54-2300 SERIES

54-2300 Series Regulator Drawing



54-2300 Series Regulator with Flanges Drawing

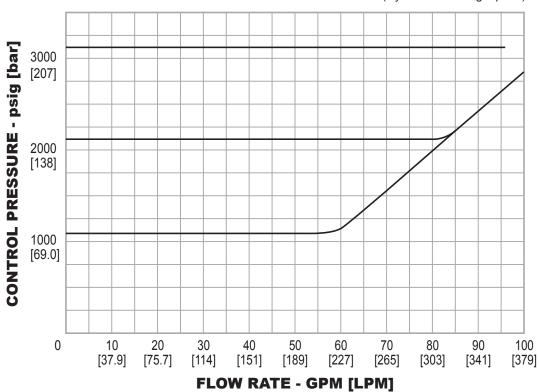


54-2300 SERIES

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

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

Threaded End Connector Part Number Selection:

54-23	2	1		Т				12	S
BASIC SERIES	BODY MATERIAL	CONTROL PRESSURE RANGES	SOFT GOODS MATERIAL						
			O-RIN DYNAMIC	GS STATIC	SEAT	TEMPERATURE (MEDIA ONLY)	PORT TYPE	PORT SIZE	LOADING METHOD
54-23	2 - 303 Stainless Steel6 - 316 Stainless Steel	 0 - 20-1000 psig 1.4-69.0 bar (spring only) 1 - 20-1500 psig 1.4-103 bar (spring and air only) 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*) 	 D - Buna-N T - Viton® U - Polyurethane Z - Ethylene Propylene 	Buna-N Viton® Polyurethane Ethylene Propylene	17-4 Stainless Steel 17-4 Stainless Steel 17-4 Stainless Steel 17-4 Stainless Steel	-40°F to 165°F -40°C to 74°C -15°F to 300°F -26°C to 149°C -15°F to 125°F -26°C to 52°C -40°F to 225°F -40°C to 107°C	1 - SAE 2 - NPTF	08 - 1/2" 12 - 3/4"	S – Spring H – Dome A – Air

54-2300 SERIES

54-2300 Series Regulator Part Number Selector

Flanged End Connector Part Number Selection:

54-23W	6	1	Α				1	52	1	
BASIC SERIES	BODY, PIPE & FLANGE MATERIAL	INLET PRESSURE	SOFT GOOD MATERIAL							
			Dash O-R		ings		Operating	FLANGE SIZE	FLANGE CLASS	FLANGE FACE
			No.	Dynamic	Static	SEAT	Temperature			
54-23W	6 – 316 Stainless steel	0 – 20-600 psig 1.4-41.4 bar	А	Nitrile, Buna-N	Nitrile, Buna-N	17-4 SST	-20 to 165°F / -29 to 74°C	41 – 6 52 – 9	21 – 300# 41 – 600# 52 – 900# /1500# 63 – 2500#	1 – RF 2 – RTJ
		1 – 20-1000 psig 1.4-69.0 bar 2 – 20-1500 psig 1.4-103.0 bar 3 – 50-3500 psig 3.4-172.0 bar 4 – 200-5000 psig 13.8-344.0 bar	В	FKM	FKM	17-4 SST	-10 to 200°F / -23 to 93°C			
			С			Polyimide (Vespel® SP21)				
			D			Polyimide (Vespel® SP21)				
			Е	EP F	EP	17-4 SST	-20 to 200°F / -29 to 93°C			
			F			Polyimide (Vespel® SP21)				
			G		PTFE	17-4 SST	-20 to 200°F / -29 to 93°C			