Specifications

For other materials or modifications, please consult TESCOM.

OPERATING PARAMETERS

Pressure rating per criteria of ANSI/ASME B31.3

Maximum Inlet Pressure

10,000 psig / 690 bar 15,000 psig / 1034 bar

Maximum Outlet Pressure

Up to 10,000 psig / 690 bar standard

Design Proof Pressure

150% maximum rated

Leakage

Non Metal Seat: Bubble-tight

Metal Seat: 2 drops/minute at 150 SUS at 2500 psig / 172 bar

Operating Temperature

-15°F to 165°F / -26°C to 74°C

Flow Capacity

 $C_V = 0.02, 0.06, 0.12$

MEDIA CONTACT MATERIALS

Body

316 Stainless Steel

Seat, Vent and Main Valve

17-4 Stainless Steel, Vespel®

Back-up O-Rings

See Part Number Selector

Remaining Parts

300 Series Stainless Steel, 17-4 Stainless Steel, and Nitronic 60

OTHER

Cleaning

CGA 4.1 and ASTM G93

Weight

5.5 lbs / 2.5 kg

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



TESCOM 50-2000 Series pressure reducing regulator is specifically designed for extended life operation in high pressure hydraulic applications.

Applications

- Wellhead control panels
- Subsea valve actuation
- Chemical injection
- Hydraulic Power Units (HPU)

Features and Benefits

- New stem and seal design extends service life in crucial high pressure water-based hydraulic applications
- Specially designed seat and valve for excellent operation in hydraulic applications
- Segregated captured venting
- Tapered poppet design for better pressure control
- Higher pressure models are available

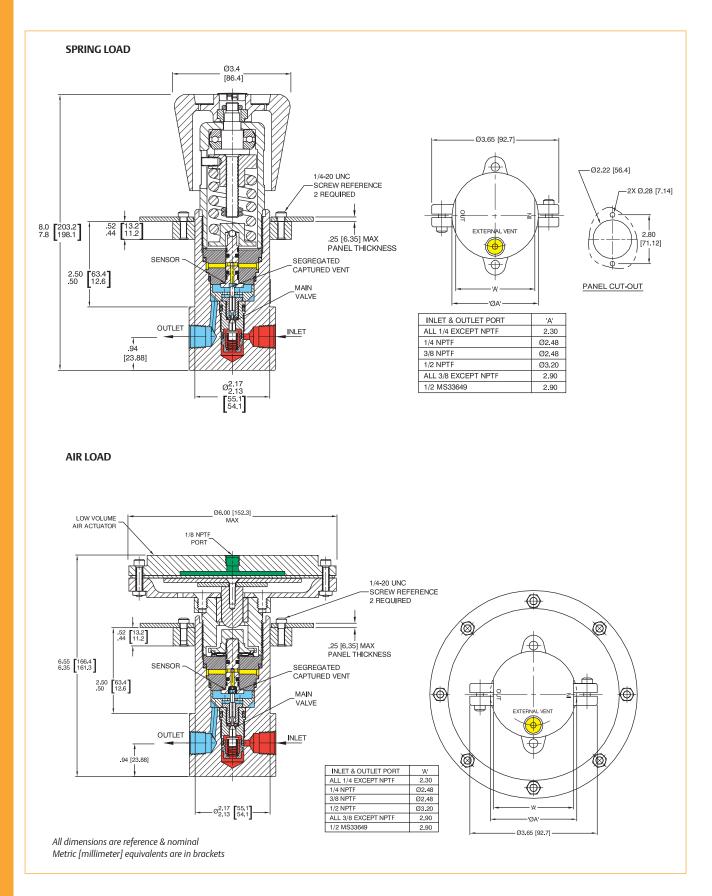






TESCOM

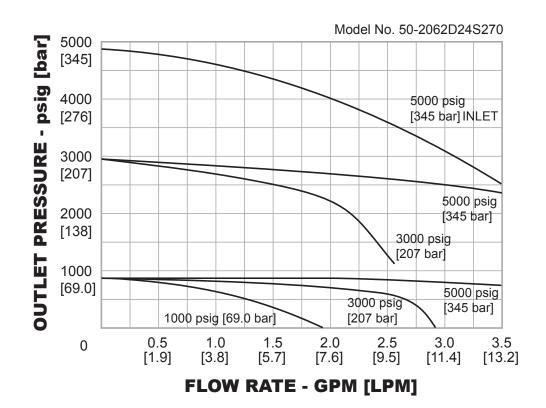
50-2000 Series Regulator Drawings

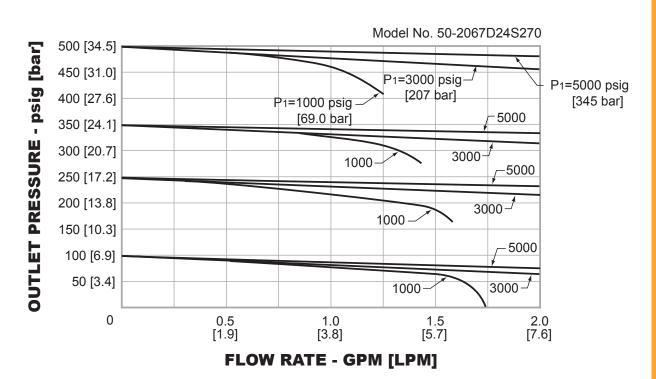




50-2000 Series Regulator Flow Charts

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.







50-2000 Series Regulator Part Number Selector



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

50-20	6	1	- D			2	4 S	1	7	0
BASIC SERIES	MAXIMUM INLET PRESSURE	OUTLET PRESSURE	SOFT GOODS MATERIAL			INLET AND	I <mark>NLET</mark> AND	F1 0347	MAIN VALVE	GAUGE
			O-RING		BACK-UP	OUTLET PORT TYPE	OUTLET PORT	FLOW CAPACITY	SEAT AND VENT SEAT	PORT OPTIONS
			DYNAMIC	STATIC	RING	(VENT PORT)	SIZE		MATERIAL	
50- <mark>20</mark>	6 – 10,000 psig	Spring Load	D – Buna-N	Buna-N	Teflon®	1 – SAE	4 – 1/4"	$1 - C_V = 0.02^3$	5 - 17-4	0 – None
	690 bar 9 – 15,000 psig ¹	1 – 200-10,000 psig	T – Viton®	Viton®	Teflon [®]	(1/4" SAE)	6 – 3/8"	$2 - C_{V} = 0.06$	Stainless Steel	4
	1034 bar	13.8-690 bar 2 – 50-6000 psig	Z – Ethylene Propylene	Ethylene Propylene	Teflon®	2 – NPTF (1/4" NPTF)	8 – 1/2" ²	$3 - C_{V} = 0.12^4$	7 – Vespel®	
		3.4-414 bar	Propylene	Propylene			9 – 9/16" ⁵	V	7 – vespei	1 – 1 outlet gauge
		3 – 25-4000 psig 1.7-276 bar				3 – MS33649 (1/4"				at 90°
		4 – 15-2500 psig				MS33649)				<u></u>
		1.0-172 bar 5 – 10-1500 psiq				4 – High				←) ←
		0.69-103 bar				Pressure (1/4" NPTF)				2 – 2 gauge
		6 – 5-800 psig				` '				ports at 60°
		0.35-55.2 bar 7 – 5-500 psiq				6 – Medium Pressure				K-K
		0.35-34.5 bar				(1/4" NPTF)				← ○ ←
		Air Load								3 – 2 gauge
		1 – 200-10,000 psig 13.8-690 bar								ports at 60°
		2 – 50-6000 psig								(left han
		3.4-414 bar 4 – 15-2500 psig								illiet)
		1.0-172 bar								→
		5 – 10-1500 psig								
		0.69-103 bar								4 – 2 gauge ports
										at 90°
										\wedge
										←
			1. 15,000 psig / 1034 bar inlet requires a CTFE back-up ring on main valve. 2. Not available in high or medium pressure.							5 – 1 gauge
										port at 90°
		3. Not available for metal seated models.4. Not available with 15,000 psig / 1034 bar inlet with Vespel® seat.								(left han
			5. High pressure and medium pressure only.							inlet)
										\rightarrow

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.



