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50-2000 Series

Regulators - Pressure Reducing

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

www.tescom.com



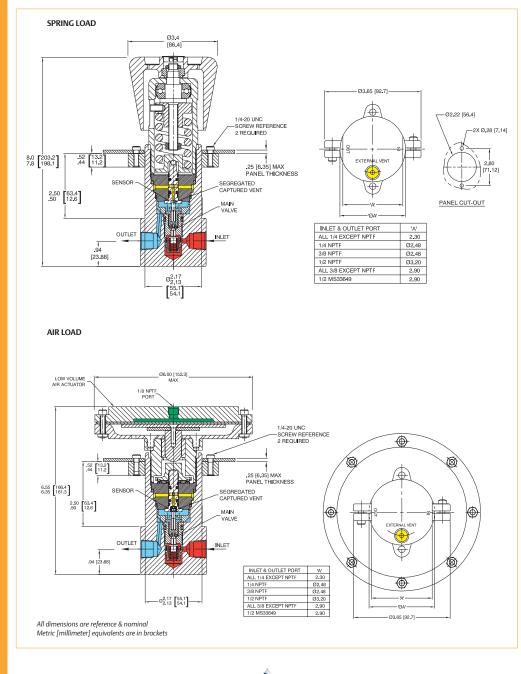
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50-2000 Series Regulator Drawings



EMERSON

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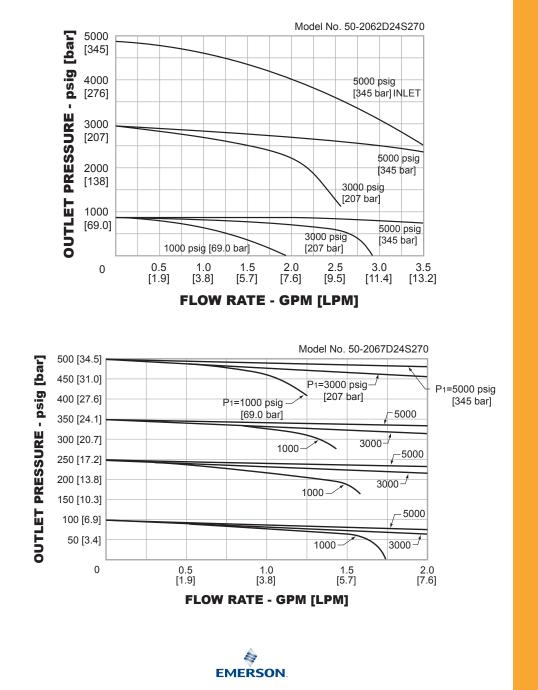




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50-2000 Series Regulator Flow Charts

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.



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	ole for selecting	g a part number:					A – Air L	, ,		
50-20	6	1	- D			2	4 S	1	7	0
BASIC	MAXIMUM INLET PRESSURE	OUTLET PRESSURE	SOFT GOODS MATERIAL			INLET AND OUTLET	INLET AND OUTLET	FLOW	MAIN VALVE SEAT AND	GAUC POR
SERIES			DYNAMIC	STATIC	BACK-UP RING	PORT TYPE (VENT PORT)	PORT	CAPACITY	VENT SEAT MATERIAL	OPTIO
	6 - 10,000 psig 690 bar 9 - 15,000 psig ¹ 1034 bar	 200-10,000 psig 13.8-690 bar 50-6000 psig 3.4-414 bar 25-4000 psig 1.7-276 bar 15-2500 psig 1.0-172 bar 10-1500 psig 0.69-103 bar 5-3600 psig 0.35-55.2 bar 5-500 psig 0.35-34.5 bar Air Load 200-10,000 psig 13.8-690 bar 2-50-6000 psig 3.4-414 bar 15-2500 psig 1.0-172 bar 5-10-1500 psig 0.69-103 bar 	T – Viton [®] Z – Ethylene Propylene	Viton® Ethylene Propylene	Teflon®	(1/4* SAE) 2 – NPTF (1/4* NPTF) 3 – MS33649 (1/4* MS33649) 4 – High Pressure (1/4* NPTF) 6 – Medium Pressure (1/4* NPTF)	6 - 3/8" 8 - 1/2" ² 9 - 9/16" ⁵	$1 - C_{V} = 0.02^{3}$ $2 - C_{V} = 0.06$ $3 - C_{V} = 0.12^{4}$	Stainless Steel 7 – Vespel®	 I - 1 ou gatu at 9 2 - 2 ga pori at 6 3 - 2 ga pori at 6 4 - 2 ga pori at 9 4 - 2 ga
			2. Not av 3. Not av 4. Not av	ailable in higi ailable for me	h or medium etal seated m 5,000 psig /	nodels. 1034 bar inlet wi	, ,			5 - 1 ga port at 9 (left inlet