TESCOM[™] Pressure Reducing Regulators

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

Media: Limit determined by most restrictive element (See table below).

Ambient: See note below table.

Flow Capacity C_V = 0.02, 0.06, 0.12

MEDIA CONTACT MATERIALS

Body

316 Stainless Steel Seal, Vent and Main Valve See Part Number Selector

O-Ring and Back-Up Ring See Part Number Selector

Remaining Parts 300 Series Stainless Steel, 17-4 PH Stainless Steel, and Nitronic 60

OTHER

Cleaning CGA 4.1 and ASTM G93
Weight 5.5 lbs / 2.5 kg

Vespel® is a registered trademark of E.I. du Pont de Nemours and Company.

O-RING SEAL	MEDIA TEMPERATURE				
ETHYLENE PROPYLENE	-30 °F TO +200 °F / -34 °C TO +93 °C				
BUNA-N	-30 °F TO +165 °F / -34 °C TO +74 °C				
FKM	-15 °F TO +200 °F / -26 °C TO +93 °C				

SEAT	MEDIA TEMPERATURE				
VESPEL	-30 °F TO +200 °F / -34 °C TO +93 °C				
17-4 STAINLESS STEEL	N/A				

Note: Maximum ambient temperature rating is 165 °F (74 °C) for regulators with plastic hand knobs or air actuators. Minimum ambient temperature is determined by soft goods minimum media temperature.



Applications

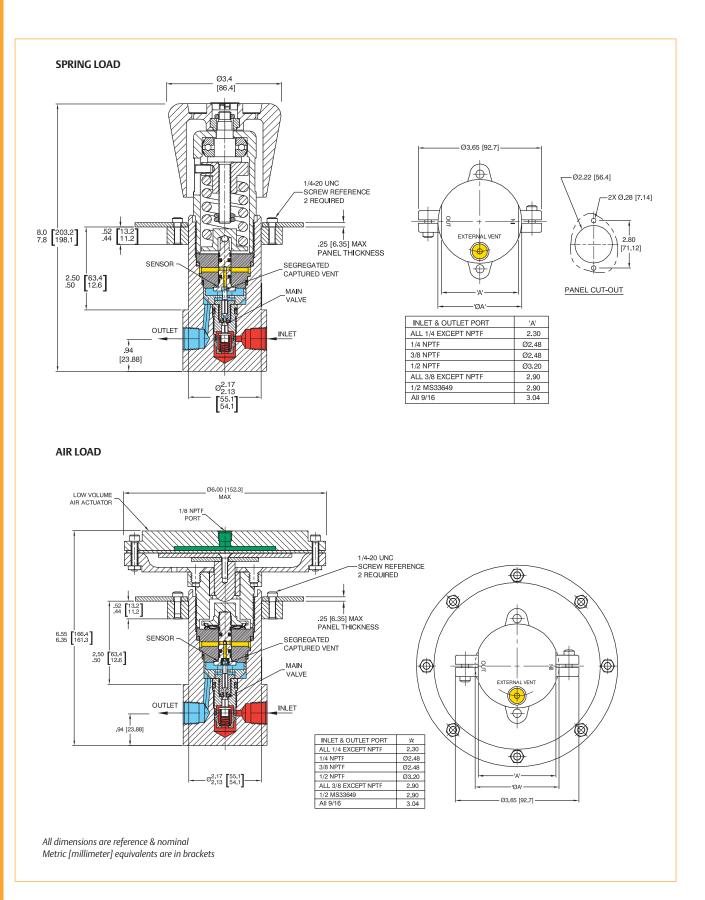
- Wellhead control panels
- Subsea valve actuation
- Chemical injection
- Hydraulic Power Units (HPU)

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



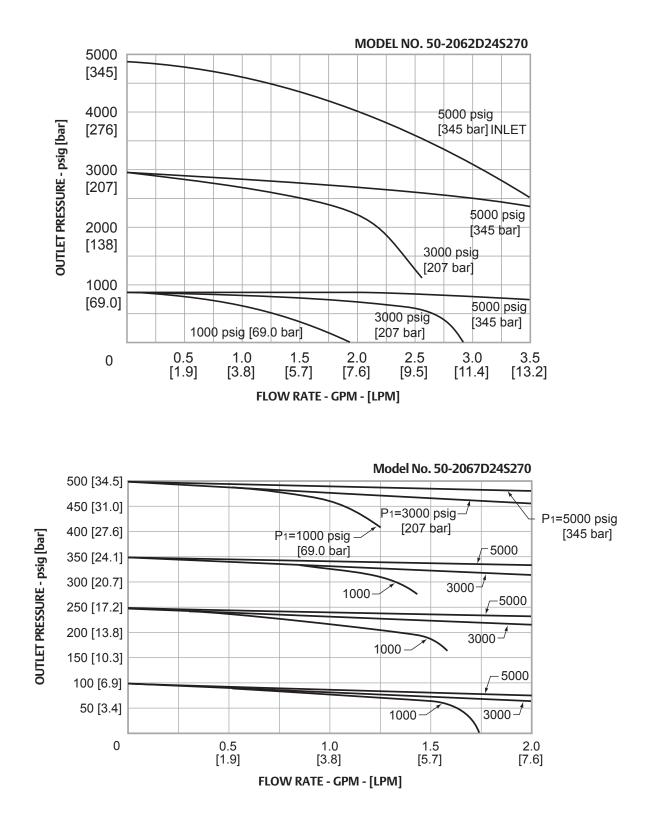
Regulator Drawings





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.





Regulator Part Number Selector

(i) Learn more about common options. For modifications, repair kits and accessories, contact factory. S – Spring Load A – Air Load

50-20	6	1	-	D		2	4	5 1	7	0
	MAXIMUM INLET PRESSURE	OUTLET PRESSURE	SOFT GOODS MATERIAL			INLET AND			MAIN VALVE	
BASIC SERIES			O-RING		BACK-UP	OUTLET PORT SIZE	INLET AND OUTLET PORT SIZE	FLOW CAPACITY	SEAT AND VENT SEAT	GAUGE PORT OPTIONS 1/4" NPTF
			DYNAMIC	STATIC	RING	(VENT PORT)	PURI SIZE		MATERIAL	
50-20	6 – 10,000 psig 690 bar 9 – 15,000 psig ¹ 1034 bar	Spring load 1 – 200-10,000 psig 13.8-690 bar 2 – 50-6000 psig 3.4-414 bar 3 – 25-4000 psig 1.7-276 bar 4 – 15-2500 psig 0.69-103 bar 6 – 5-800 psig 0.35-55.2 bar 7 – 5-500 psig 0.35-34.5 bar Air load 1 – 200-10,000 psig 13.8-690 bar 2 – 50-6000 psig 3.4-414 bar 4 – 15-2500 psig 1.0-172 bar 5 – 10-1500 psig 0.69-103 bar	1. 15,0 NPT, 9/16 2. Not c 3. Not c 4. Not c 5. High	1/4" High Pressu Wailable in h Wailable for I Wailable for I Wailable with	essure, 1/4" Ire, 9/16" Me igh or mediu metal seatec h 15,000 psi d medium pi	Medium Pressure, . dium Pressure. Im pressure. I models. g / 1034 bar inlet v	3/8" High Pres. with Vespel® se	1 - $C_V = 0.02^3$ 2 - $C_V = 0.06$ 3 - $C_V = 0.12^4$ and is available or sure, 3/8" Medium		 None None 1 - 1 outlet gauge at 90° 2 - 2 gauge ports at 60° 3 - 2 gauge ports at 60° (left hand inlet) 4 - 2 gauge ports at 90° 5 - 1 gauge ports at 90° (left hand inlet) 5 - 1 gauge ports at 90° (left hand inlet)

