### Regulators - Pressure Reducing

#### D50202005X012

### **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 PH Stainless Steel, Polyimide (Vespel<sup>®</sup>)

Back-up O-Rings 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

Teflon  $^{\circ},$  Vespel  $^{\circ},$  and Viton  $^{\circ}$  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)

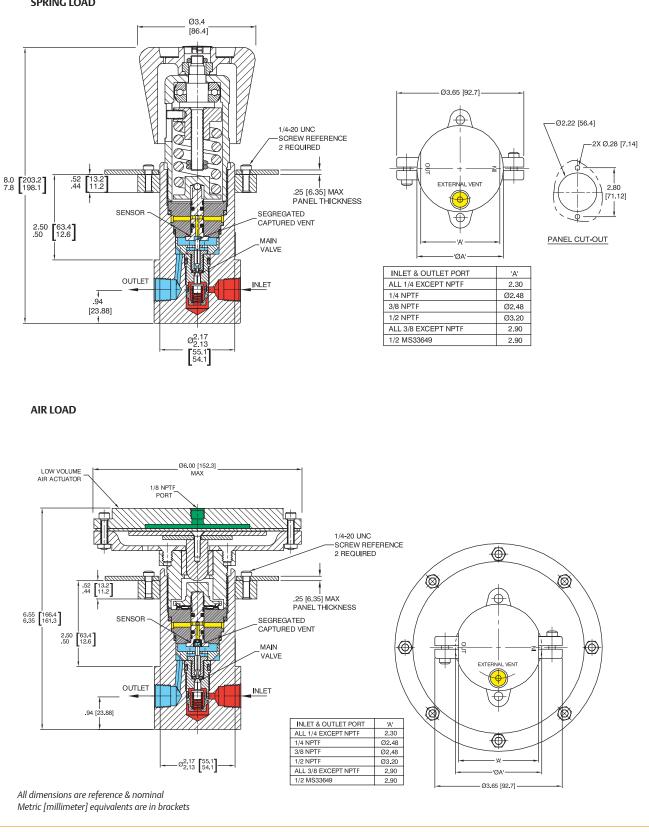
### **Features and Benefits**

- 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



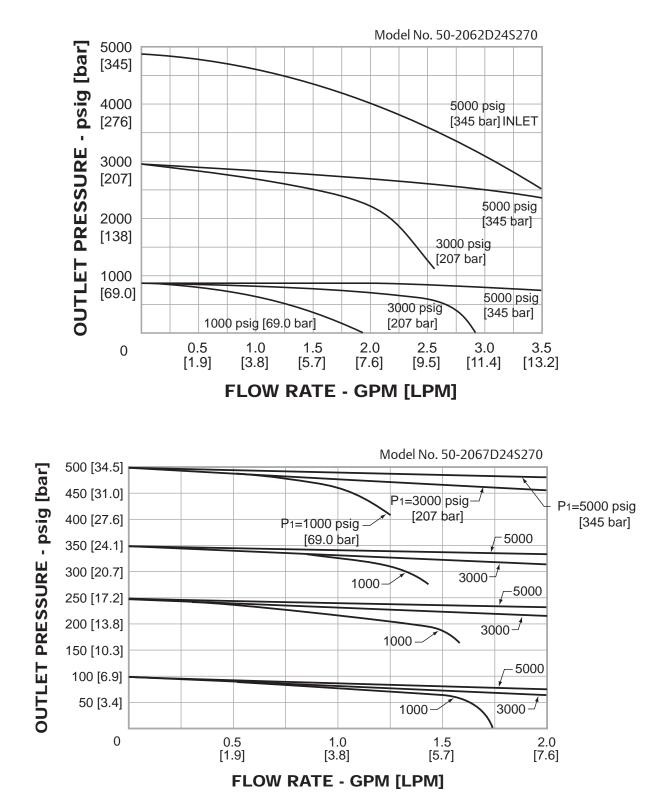
### 50-2000 Series Regulator Drawings







### 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

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

Example for selecting a part number:								ng Load .oad		
50-20	6	1	-	D		2	4 S	5 1	7	0
BASIC SERIES	MAXIMUM INLET PRESSURE	OUTLET PRESSURE	SOFT GOODS MATERIAL			INLET AND	INLET AND		MAIN VALVE	GAUGE
			O-RING		BACK- UP		OUTLET PORT	FLOW CAPACITY	SEAT AND VENT SEAT MATERIAL	PORT
			DYNAMIC	STATIC	RING	(VENT PORT)	SIZE		WATERIAL	
50-20	6 – 10,000 psig 690 bar 9 – 15,000 psig <sup>1</sup> 1034 bar	<ul> <li>Spring Load</li> <li>1 - 200-10,000 psig 13.8-690 bar</li> <li>2 - 50-6000 psig 3.4-414 bar</li> <li>3 - 25-4000 psig 1.7-276 bar</li> <li>4 - 15-2500 psig 0.69-103 bar</li> <li>5 - 10-1500 psig 0.35-55.2 bar</li> <li>7 - 5-500 psig 0.35-34.5 bar</li> <li>1 - 200-10,000 psig 13.8-690 bar</li> <li>2 - 50-6000 psig 3.4-414 bar</li> <li>4 - 15-2500 psig 1.0-172 bar</li> <li>5 - 10-1500 psig 0.69-103 bar</li> </ul>	2. Not av 3. Not av 4. Not av	ailable in high or ailable for metal	· mediun seated n 100 psig j	, nodels. / 1034 bar inlet wit			5 - 17-4 Stainless Steel 7 - Polyimide (Vespel®)	<ul> <li>None</li> <li>None</li> <li>1 - 1 outlet gauge at 90°</li> <li>2 - 2 gauge ports at 60°</li> <li>3 - 2 gauge ports at 60° (left hand inlet)</li> <li>4 - 2 gauge ports at 90°</li> <li>5 - 1 gauge port at 90° (left hand inlet)</li> <li>5 - 1 gauge port at 90° (left hand inlet)</li> </ul>

