

# 50-4000 Series

## Regulators - Pressure Reducing

D50402088X012

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

**Maximum Outlet Pressure**

3000-10,000 psig / 207-690 bar

3000-6000 psig / 207-414 bar

3000-4000 psig / 207-276 bar

**Design Proof Pressure**

150% maximum rated

**Leakage**

2 drops/min. at 150 S.U.S and 2500 psig / 172 bar

**Operating Temperature**

-15°F to 165°F / -26°C to 74°C

**Flow Capacity**

$C_v = 0.12$  (Control Regulator),  $C_v = 1.9$  (Integrated Bypass)

#### MEDIA CONTACT MATERIALS

**Body**

316 Stainless Steel

**Seat, Main Valve, Vent**

17-4 Stainless Steel, Vespel®

**O-Ring**

Buna-N, Viton®, EP

**Back-up Ring**

CTFE

**Remaining Parts**

316 Series Stainless Steel, 17-4 Stainless Steel

#### OTHER

**Cleaning**

CGA 4.1 and ASTM G93

**Weight (approximate)**

14 lbs / 6.4 kg

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TESCOM 50-4000 Series pressure reducing regulator, with its integrated bypass valve, reduces time to production and maintenance cost. This unique regulator controls high pressure water glycol, decreases pressurization time and extends service life of the regulator.

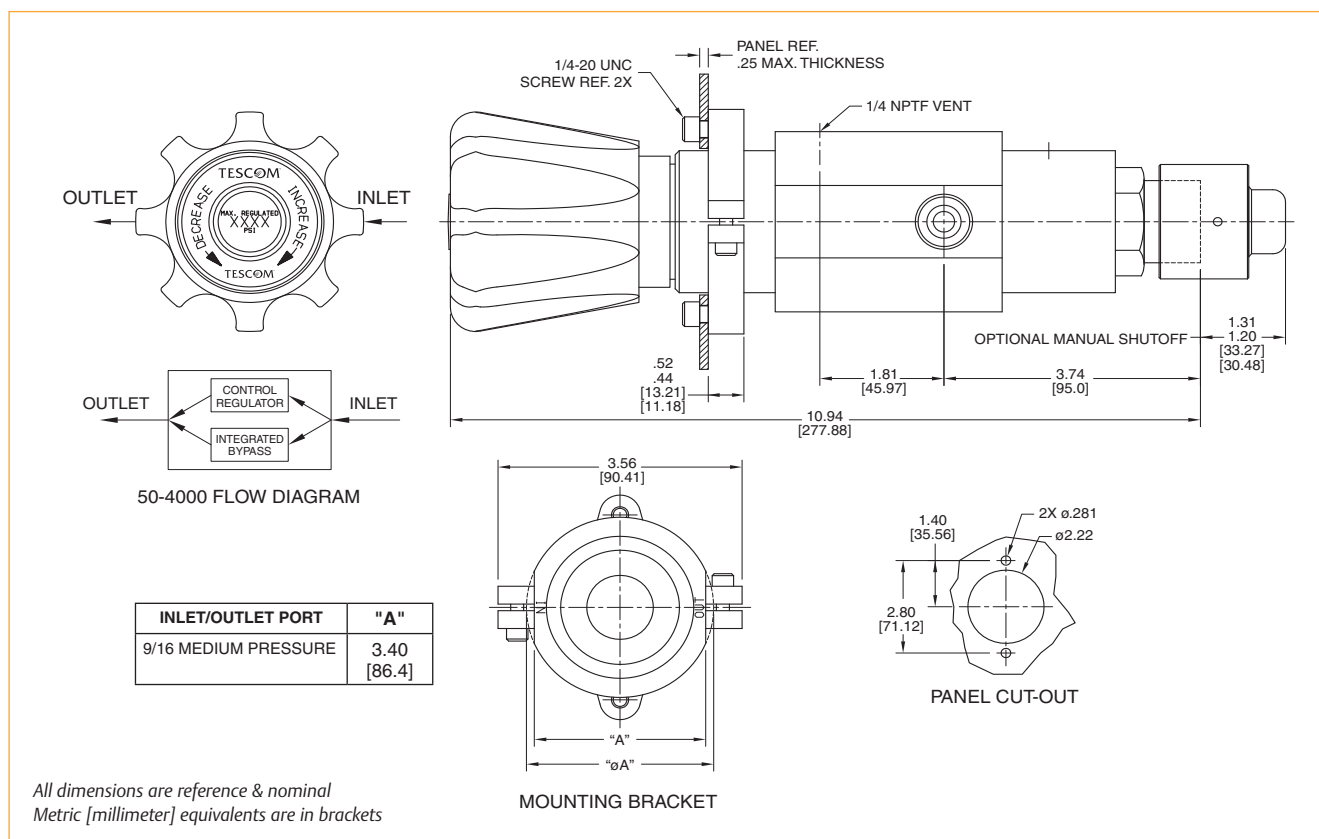
### Applications

- Hydraulic Power Units (HPU)
- Wellhead control panels

### Features and Benefits

- Unique integrated bypass valve simplifies the high pressure system design which results in fewer components and leak paths for added safety
- The addition of the 50-4000 to HPU units simplifies complex start up procedures while decreasing down time associated with filling long umbilicals
- Controls large variations in flow rates at pressures up to 15,000 psig / 1304 bar
- New stem and seal design extends regulator service life in crucial high pressure water-based hydraulic applications

## 50-4000 Series Regulator Drawing



## 50-4000 Series Regulator Part Number Selector

Repair Kits, Accessories & Modifications may be available for this product. Please contact TESCOM for more information.

Example for selecting a part number:

Spring Load

50-40	9	1	D			6	9	S	3	5	0A
BASIC SERIES	MAXIMUM INLET PRESSURE <sup>1</sup>	MAXIMUM OUTLET PRESSURE CONTROL REGULATOR INTEGRATED BYPASS	SOFT GOODS MATERIAL			INLET AND OUTLET PORT TYPE (VENT PORT)	INLET AND OUTLET PORT SIZE	FLOW CAPACITY	MAIN VALVE AND VENT SEAT	INTEGRATED BYPASS MANUAL OVERRIDE SHUTOFF	
			DYNAMIC O-RINGS	STATIC O-RINGS	BACK-UP RINGS						
50-40	9 – 15,000 psig 1034 bar (Medium/High Pressure)  10,000 psig 690 bar (NPTF & BSPP)	1 – 3000-10,000 psig 207-690 bar 2000-3000 psig 138-207 bar  2 – 3000-6000 psig 207-414 bar 2000-3000 psig 138-207 bar  3 – 3000-4000 psig 207-276 bar 2000-3000 psig 138-207 bar	D – Buna-N T – Viton® Z – EP	Buna-N Viton® EP	CTFE CTFE CTFE	0 – BSPP (1/4") 2 – NPTF (1/4") 4 – High Pressure (1/4" NPTF) 6 – Medium Pressure (1/4" NPTF)	6 – 3/8" <sup>2</sup> 8 – 1/2" <sup>3</sup> 9 – 9/16" <sup>4</sup>	3 – C <sub>V</sub> = 0.12 (Control Regulator)  C <sub>V</sub> = 1.9 (Integrated Bypass)	5 – 17-4 Stainless Steel 7 – Vespel®	0A – Included 0 – Not Included	
<div>1. Pressure at which regulator is used must be compatible with the pressure rating of the regulator and port size/type provided</div> <div>2. Integrated Bypass C<sub>V</sub> is limited to 1.0</div> <div>3. Not available in Medium Pressure and High Pressure</div> <div>4. Not available in NPTF and BSPP</div>											



**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.

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