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

5500-15,000 psig / 380-1034 bar 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-Rina

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

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



TESCOM 50-4000 and 50-4100 Series pressure reducing regulators, with their integrated bypass valve, reduce time to production and maintenance cost. These unique regulators control high pressure water glycol, decrease pressurization time and extend service life of the regulator.

Applications

- Hydraulic Power Units (HPU)
- Wellhead control panels

Features and Benefits

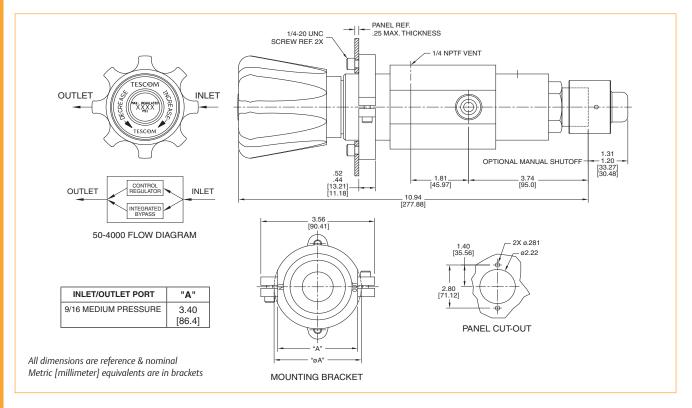
- Unique integrated bypass valve simplifies the high pressure system design which results in fewer components and leak paths for added safety
- The addition of the 50-4000 to HPU units simplifies complex start up procedures while decreasing down time associated with filling long umbilicals
- Controls large variations in flow rates at pressures up to 15,000 psig / 1034 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.

S = Spring Load

Example for selecting a part number: **A** = Air Load 50-40 D 6 S 5 0A SOFT GOODS MATERIAL MAXIMUM OUTLET INTEGRATED MAXIMUM INLET AND OUTLET INLET AND MAIN **PRFSSURF BASIC FLOW BYPASS** INLET VALVE AND PORT TYPE OUTLET **SERIES** DYNAMIC STATIC BACK-UP CAPACITY MANUAL OVERIDE CONTROL REGULATOR PRESSURE 1 **PORT SIZE** (VENT PORT) **VENT SEAT** O-RINGS **O-RINGS** RINGS **SHUTOFF** INTEGRATED BYPASS 50-40 9 -1 - 3000-10,000 psig D - Buna-N Buna-N CTFE **0** - BSPP (1/4") $3 - C_V = 0.12$ **5 –** 17-4 OA - Included 6 - 3/8"² 207-690 bar 15,000 psig 2 - NPTF (1/4") (Control Stainless T - Viton® Viton® CTFE 8 - 1/2" 3 Not Included 2000-3000 psig 1034 bar 4 – High Pressure Regulator) Steel **Z** – EP 9 - 9/16" 4 138-207 bar 7 – Vespel® (Medium/ (1/4" NPTF) $C_V = 1.9$ High Pressure) **2 –** 3000-6000 psig 6 - Medium (Integrated 207-414 bar Pressure Bypass) 10,000 psig (1/4" NPTF) 2000-3000 psig 690 bar 138-207 bar (NPTF & BSPP) 3 - 3000-4000 psiq 207-276 bar 1. Pressure at which regulator is used must 2000-3000 psiq be compatible with the pressure rating of 138-207 bar the regulator and port size/type provided 2. Integrated Bypass C_V is limited to 1.0 50-41 **0** – 5500-15,000 psig 4 – High Pressure **6** - 3/8" ² 3. Not available in Medium Pressure and 380-1034 bar (1/4" NPTF) High Pressure 9 - 9/16" 4 4200-5200 psig 4. Not available in NPTF and BSPP 6 - Medium 290-358 bar Pressure (1/4" NPTF)

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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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