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, 20,000 psig / 690, 1034, 1379 bar

Outlet Pressure

9000 to 20,000 psig / 621 to 1379 bar 8000 to 15,000 psig / 552 to 1034 bar 6000 to 15,000 psig / 414 to 1034 bar 4000 to 10,000 psig / 276 to 690 bar 2000 to 6000 psig / 138 to 414 bar 2000 to 4000 psig / 138 to 276 bar 1700 to 2500 psig / 117 to 172 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, Nitronic 60 (20,000 psig / 1379 bar Inlet)

Seat, Main Valve, Vent 17-4 PH Stainless Steel, Polyimide (Vespel®)

O-ring

Nitrile, Buna-N, FKM (Viton®-A), EP

Back-up Ring

PCTFE

Remaining Parts

316 Series Stainless Steel, 17-4 PH Stainless Steel, Nitronic 60

OTHER

Cleaning CGA 4.1 and ASTM G93 Weight (approximate)¹ 50-4000: 15 lbs / 6.8 kg 50-4100: 20 lbs / 9.1 kg 50-4200: 20 lbs / 9.1 kg

1. Air loaded versions will have an additional approx. 5 lbs / 2.3 kg to account for the actuator.

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SPRING LOADED

TESCOM 50-4000, 50-4100 and 50-4200 Series pressure reducing regulators, with their integrated bypass valve, control high pressure water glycol. These unique regulators decrease pressurization time and lower maintenance costs.

Applications

- Hydraulic Power Units (HPU)
- Wellhead control panels

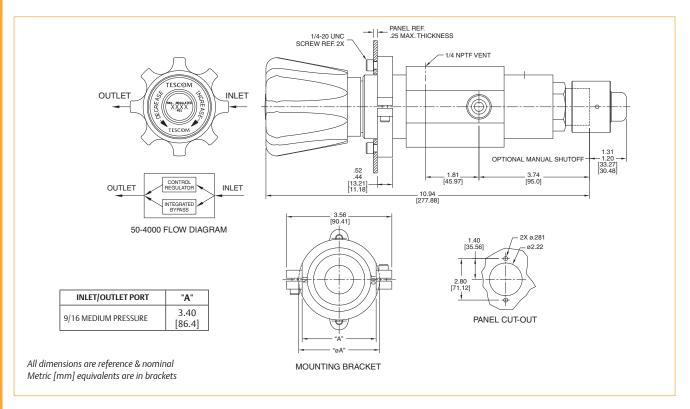
Features and Benefits

- 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 Series 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 20,000 psig / 1379 bar
- New stem and seal design extends regulator service life in crucial high pressure water-based hydraulic applications



50-4000 SERIES

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:

50-40	9	1		D		6	9	S	3	5	0	Α
BASIC SERIES	BODY MATERIAL MAXIMUM INLET PRESSURE ¹	OUTLET PRESSURE	SOFT GOODS MATERIAL									
		CONTROL REGULATOR INTEGRATED BYPASS	DYNAMIC O-RINGS	static O-rings	BACK-UP RINGS	INLET AND OUTLET PORT TYPE (VENT PORT)	INLET AND OUTLET PORT SIZE	load Option	Flow Capacity	MAIN VALVE AND VENT SEAT	1/4" GAUGE PORT OPTIONS	INTEGRATED BYPASS MANUAL OVERRIDE SHUTOFF
50-40	10,000 psig 690 bar (NPTF & BSPP)	 1 - 4000 to 10,000 psig 276 to 690 bar 0 to 3000 psig 0 to 207 bar 4 - 2000 to 6000 psig 138 to 414 bar⁵ 5 - 2000 to 4000 psig 138 to 276 bar⁵ 6 - 1700 to 2500 psig 117 to 172 bar⁵ 	D – Nitrile, Buna-N T – FKM (Viton®-A) Z – EP	Nitrile, Buna-N FKM (Viton®-A) EP	PCTFE PCTFE PCTFE	2. 3. 4.	. Pressure at w	vith the press d port size/t (pass C _V is li e in Medium e e in NPTF an (pass pressu ig at 10,000 t 689 bar or g at 15,000	sure rating of ype provided mited to 1.0 Pressure and d BSPP re range: psig inlet / psig inlet /	ist be	 0 - no gauge ports - Ore outlet gauge port at 90° - Ore outlet gauge port at 90° 	A – Included Blank – Not Included

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