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

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

316 Stainless Steel

Seat, Vent and Main Valve

17-4 PH Stainless Steel, Polyimide (Vespel®)

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®, Vespel®, and Viton® 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

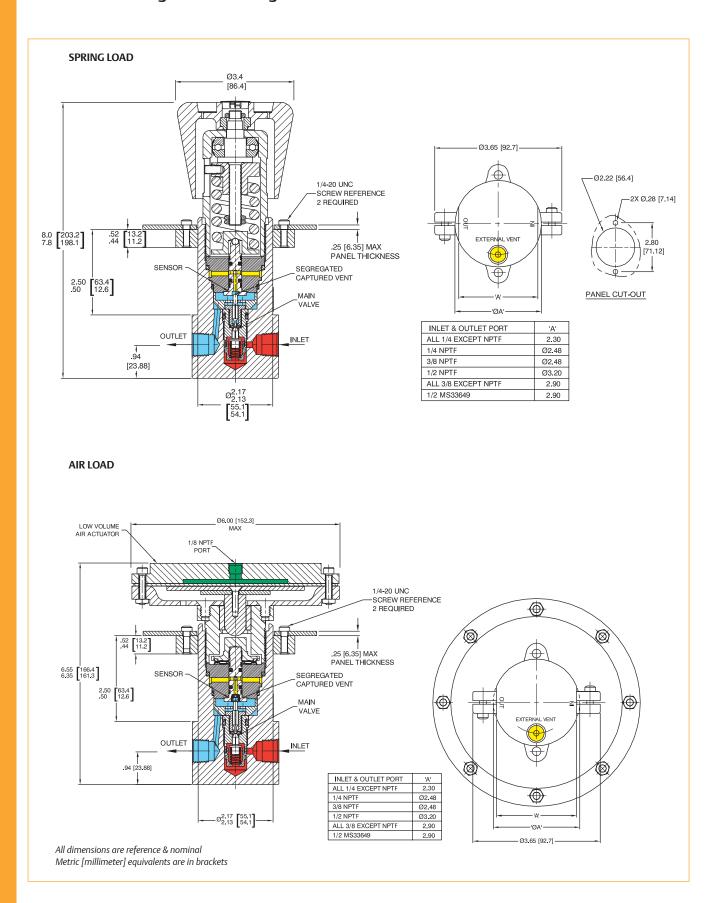
- Wellhead control panels
- Subsea valve actuation
- · Chemical injection
- Hydraulic Power Units (HPU)

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

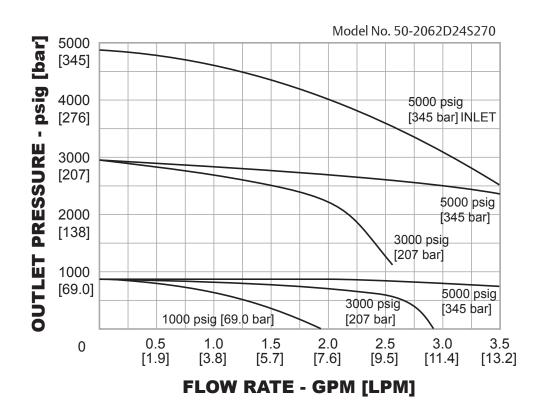
50-2000 SERIES

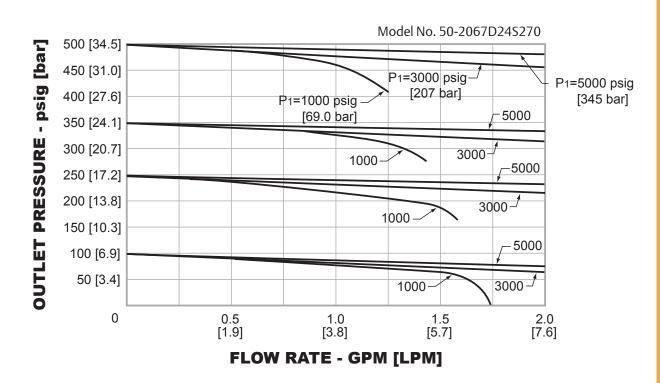
50-2000 Series Regulator Drawings



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

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:							S – Spring Load A – Air Load			
1	-	D		2	4 5	1	7	0		
Л	SOFT GO	SOFT GOODS MATERIAL			INLET		MAIN VALVE	GAUGE		
PRESSURE	O-RING		BACK- UP		OUTLET	FLOW CAPACITY	SEAT AND VENT SEAT	PORT OPTIONS		
	DYNAMIC	STATIC	RING	(VENT PORT)	SIZE		MATERIAL			
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 1.0-172 bar 5 – 10-1500 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	T – FKM (Viton®-A) Z – Ethylene Propylene 1. 15,000 2. Not av 3. Not av 4. Not av	0 psig / 1034 bar ailable in high or ailable for metal ailable with 15,0	r mediun I seated r 200 psig ,	n pressure. nodels. / 1034 bar inlet wii	. 3		5 – 17-4 Stainless Steel 7 – Polyimide (Vespel®)	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 port at 90° (left hand inlet)		
N.	Doig Spring Load 1 - 200-10,000 psig 3.4-414 bar 3 - 25-4000 psig 1.7-276 bar 4 - 15-2500 psig 1.0-172 bar 5 - 10-1500 psig 0.35-55.2 bar 7 - 5-500 psig 0.35-34.5 bar Air Load 1 - 200-10,000 psig 3.4-414 bar 2 - 50-6000 psig 0.35-34.5 bar Air Load 1 - 200-10,000 psig 1.8-690 bar 2 - 50-6000 psig 3.4-414 bar 4 - 15-2500 psig 1.0-172 bar 5 - 10-1500 psig	1 - SOFT GO PRESSURE 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 1.0-172 bar 5 - 10-1500 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 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. 15,000 2. Not av 4. Not	Not available for metal 1	Note Pressure Soft Goods Material	Total Tot	Note Compared to the part of the part	Comparison Com	1		