

1-½" Heavy Duty Hydraulic Regulator

Series 20597

Features

- ▶ Original Shear-Seal® technology
- ▶ High flow capacity
- ▶ Large pressure range
- ▶ Tolerates contaminated media
- ▶ Fail-safe motor control options
- ▶ Self venting
- ▶ Surge dampening

Applications

- ▶ Land-based and offshore oil drilling controls
- ▶ BOP control units
- ▶ Pressure sensitive equipment



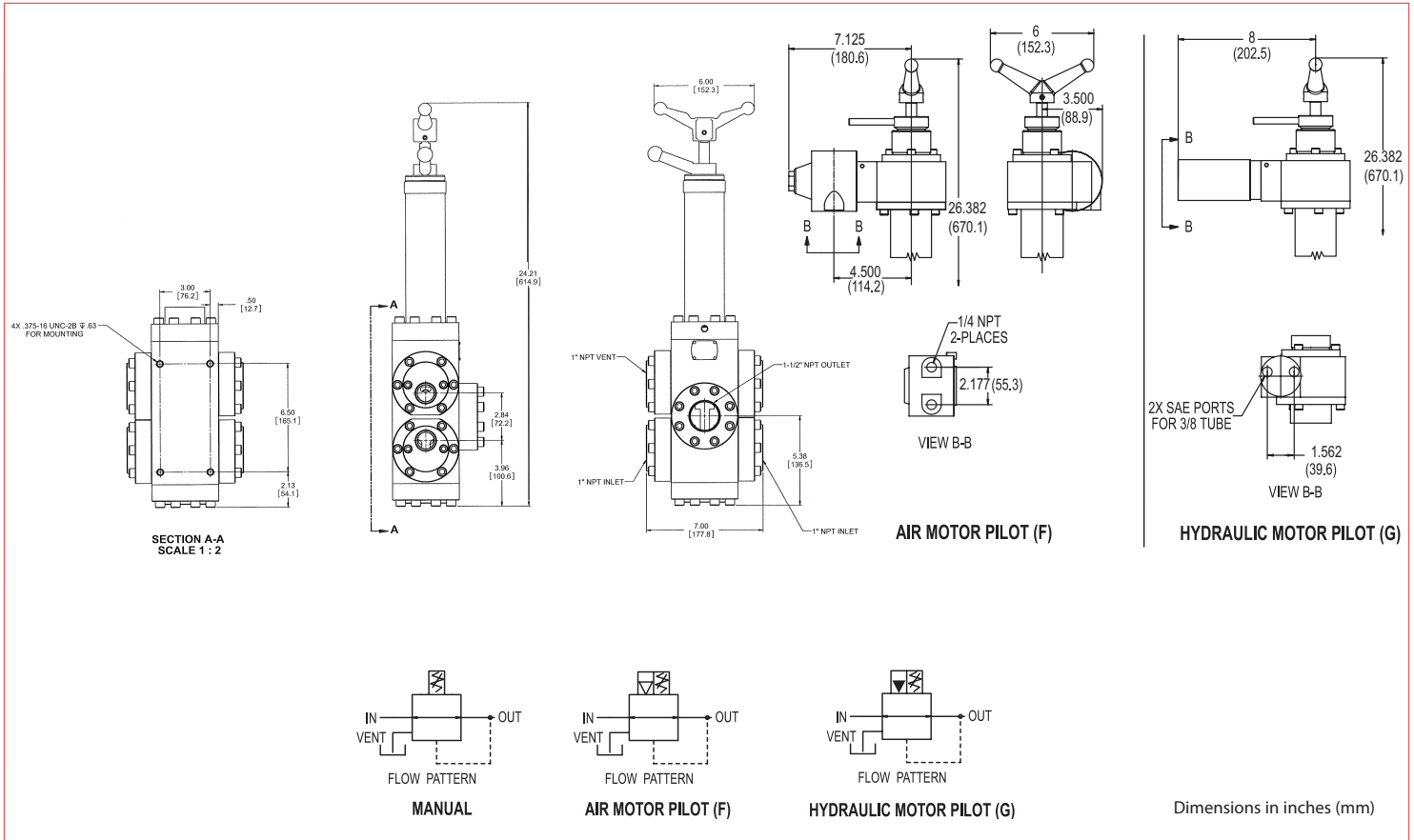
General Specifications*

Pressure: Supply/Inlet Pressure:	3,000 psi (207 bar) 5,000 psi (345 bar)	Materials of Construction: Body:	Stainless steel (std.)
Regulated Pressure Range at 3,000 psi Supply Pressure: High Sensitivity: Full Range:	200 - 1600 psi (13.7 - 110 bar) 350 - 2800 psi (24.1 - 193 bar)	Flanges:	Phosphate coated alloy steel (std.) Option: Stainless steel
Regulated Pressure Range at 5,000 psi Supply Pressure: High Sensitivity: Full Range:	300 - 1600 psi (21 - 110 bar) 500 - 3300 psi (34 - 228 bar)	Spring Tower: Manual Pneumatic Motor model Hydraulic Motor model	Stainless steel (std.) Phosphate coated alloy steel (std.) Phosphate coated alloy steel (std.)
Media:	Hydraulic oil or lubricated water	Standard O'ring Material:	Buna N
Fluid Temperature Range:	-30° to +250°F (-34° to +121°C)	Socket Head Screws:	Stainless steel (std.)
Proof Pressure:	7,500 psi (517 bar)	Wetted Parts:	Stainless steel
Flow: Flow Rate:	120 GPM (@ 50 ft/s)	Pneumatic Pilot Motor ("F" prefix): Pilot Motor Working Pressure:	80 - 120 psi (5.5 - 8.3 bar)
Cv Inlet:	17.5	Porting A & B:	1/4" NPT
Cv Vent:	2.6	Operating Temperature Range:	32° to +250°F (0° to +120°C)
Porting: Inlet 1:	1" NPT Standard, SAE Optional	Hydraulic Pilot Motor ("G" prefix): Pilot Motor Working Pressure:	400 - 1600 psi (6.9 - 110 bar)
Inlet 2:	1" NPT Standard, SAE Optional	Porting A & B:	SAE for 3/8" Tube (Size -6)
Outlet:	1-1/2" NPT Standard, SAE Optional	Operating Temperature Rating:	-40° to +250°F (-40° to +121°C)
Vent:	1" NPT Standard, SAE Optional	Approximate Shipping Weight: Manual:	67 lbs. (30.4 kg)
		Pneumatic or Hydraulic Motor:	90 lbs. (40.8 kg)

1-1/2" Heavy Duty Hydraulic Regulator

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Technical Drawings



Product Configurator

Example:

Adjustment Method

Blank	Manual
F	Pneumatic failsafe motor
G	Hydraulic failsafe motor

Series

20597S6WQ2	1-1/2" Pressure regulator
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Option

Blank	NPT porting
-MS	SAE porting
-SS	Stainless steel flanges & trim



		Inlet Pressure	Regulated Range
Blank	High sensitivity	3000 psi	200 - 1600 psi (13.7 - 110 bar)
		5000 psi	300 - 1600 psi (21 - 110 bar)
-1	Full range	3000 psi	350 - 2800 psi (24.1 - 193 bar)
		5000 psi	500 - 3300 psi (34 - 228 bar)