

Valves

1-1/2" 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*

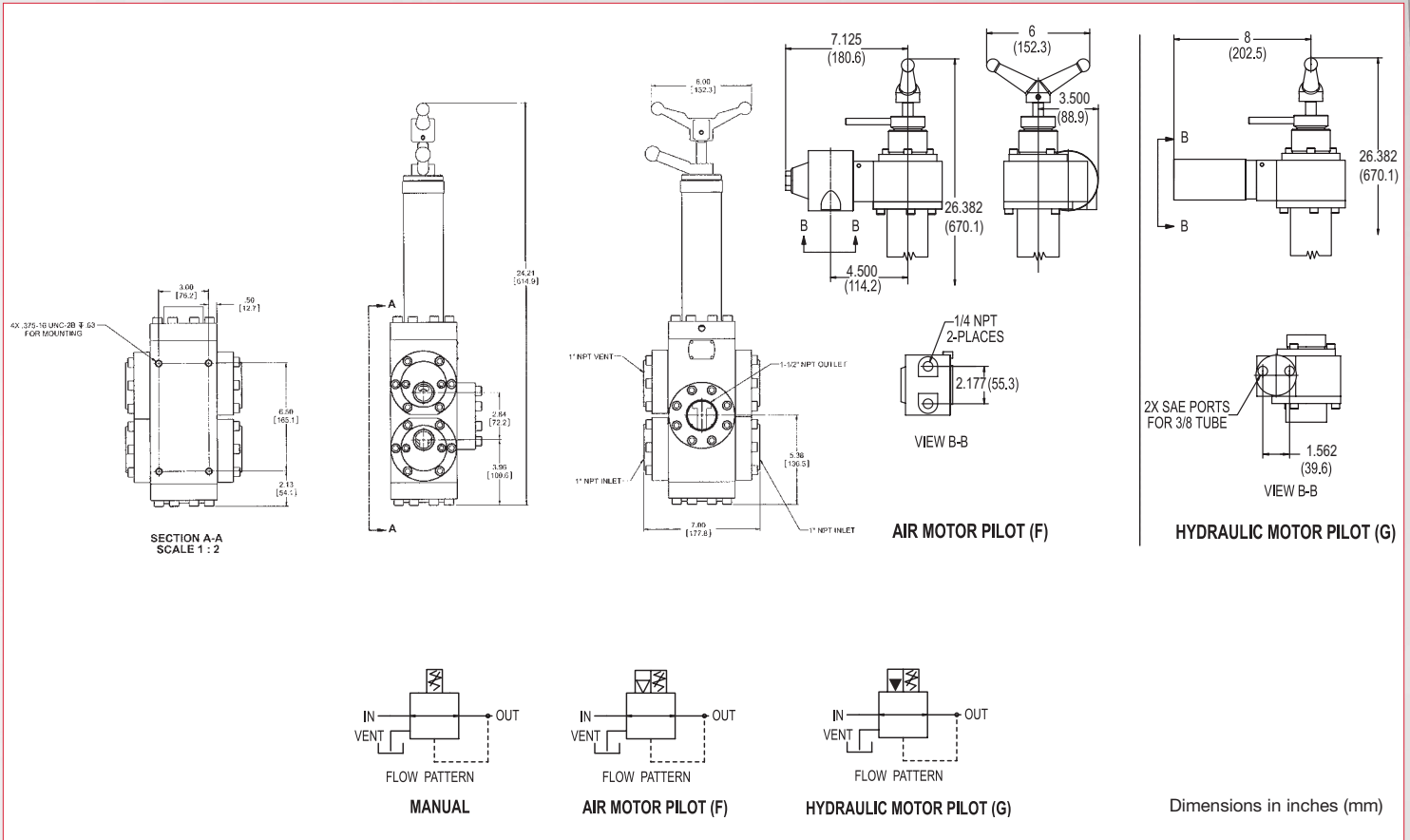
Pressure: Supply/Inlet Pressure: 3,000 psi (207 bar) 5,000 psi (345 bar) Regulated Pressure Range at 3,000 psi Supply Pressure: High Sensitivity: 200 - 1600 psi (13.7 - 110 bar) Full Range: 350 - 2800 psi (24.1 - 193 bar) Regulated Pressure Range at 5,000 psi Supply Pressure: High Sensitivity: 300 -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

* See product configurator for additional options.

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Technical Drawings



Product Configurator

Example:

Adjustment Method

Blank	Manual
F	Pneumatic failsafe motor
G	Hydraulic failsafe motor

* Highlighted options represent those most frequently used. Select these common options for improved availability. (5/21)

Option

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

Series

20597S6WQ2 1-1/2" Pressure regulator

Regulated Pressure Range

		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)

