RMC-001

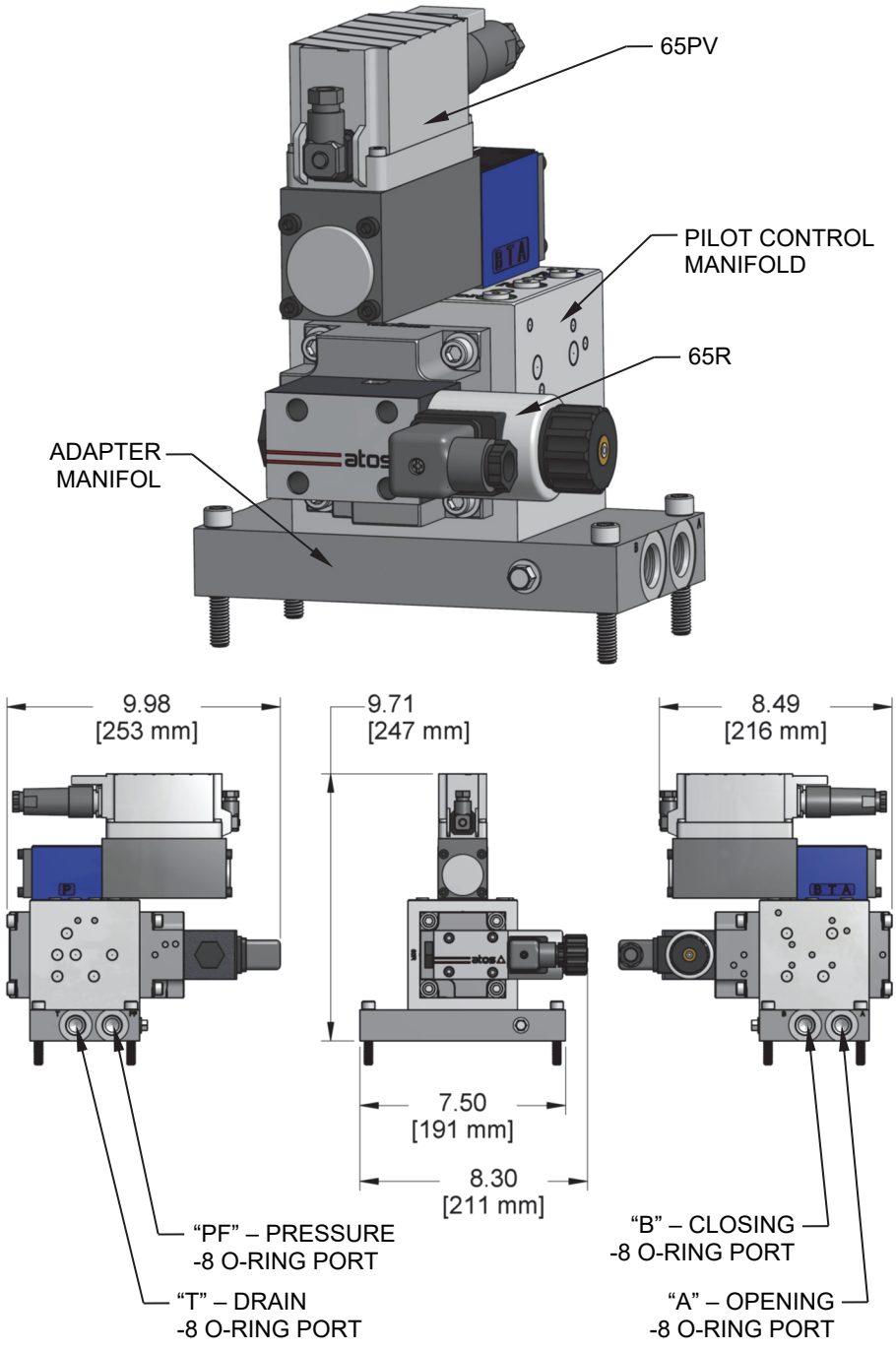
Simplex Pilot Control Shuttle Manifold

Operates Hydroelectric Turbine Governor's Hydraulic Distributing Valve

- Equal-Area Valve Servomotor/Controlets
- Ideal Electro-Hydraulic Interface for Gate-Shaft Governor Conversions
- Type-A Valve Servomotor/Controlets
- Type-B Valve Servomotor/Controlets

Operates Smaller Wicket Gate, Needle, Etc. Servomotors Directly

- **Utilizes Commercially Available** Proportional Valve for 65PV
- **Integral Shutdown Shuttle Valve** Ensures Failsafe Operation in Compliance with IEEE Std 125 - 5.8.1
- **Utilizing D03 Type Valve** for 65R Creates a Wide Range of Shutdown Scheme Options
- **External / Remote Hydraulic** Signal Sources Can Be Utilized for Run and Shutdown Initiation
- **Custom Adapter Manifold** Design Available – Can Adapt to Almost Any Distributing Valve
- **Polarity of Shuttle Valve** Can Be Easily Reversed by Moving 65R to Opposite Side of Manifold: Energize-To-Run Solenoid on Front of Manifold Becomes Energize-To-Shutdown Solenoid if Installed on Opposite Side of Manifold



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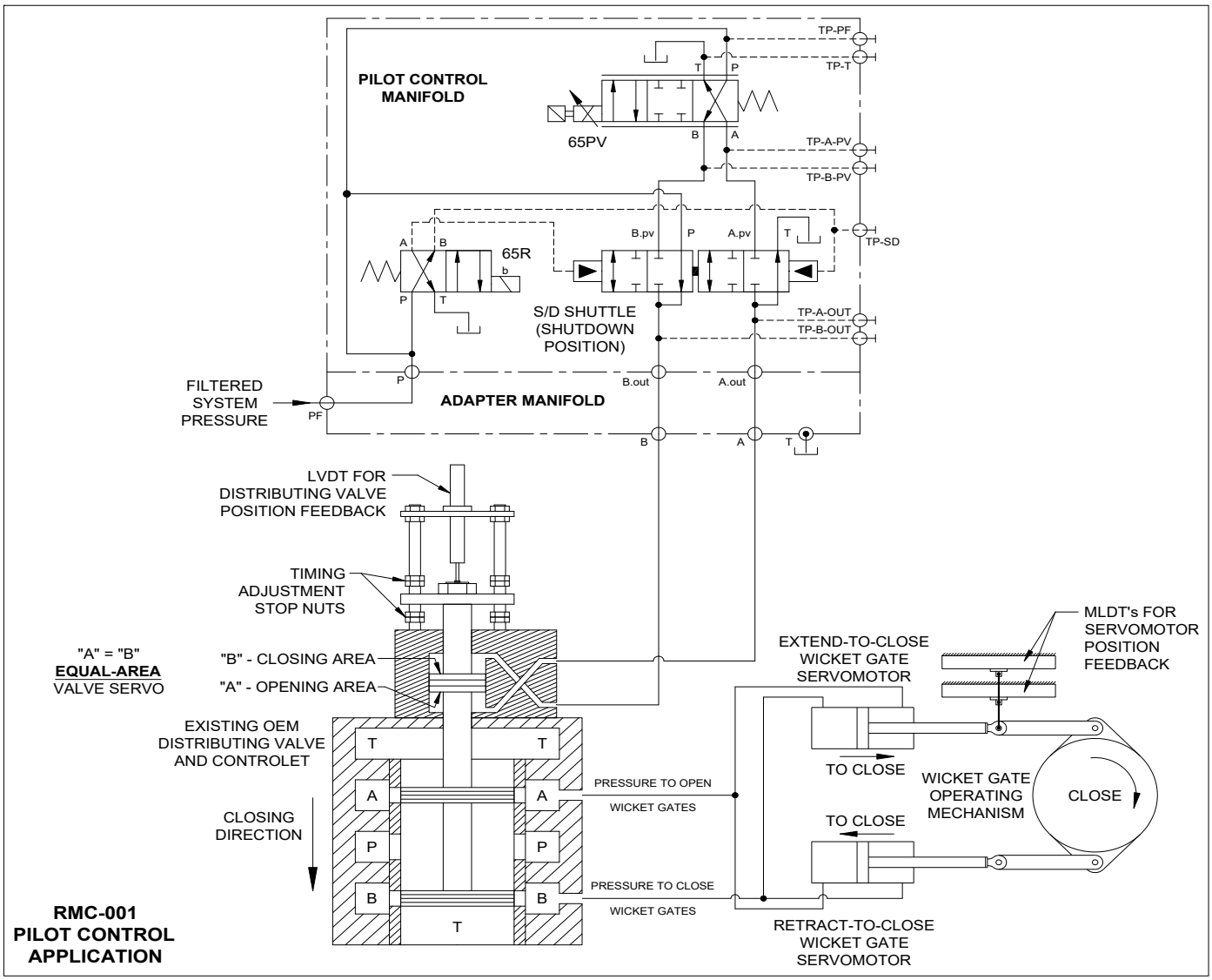
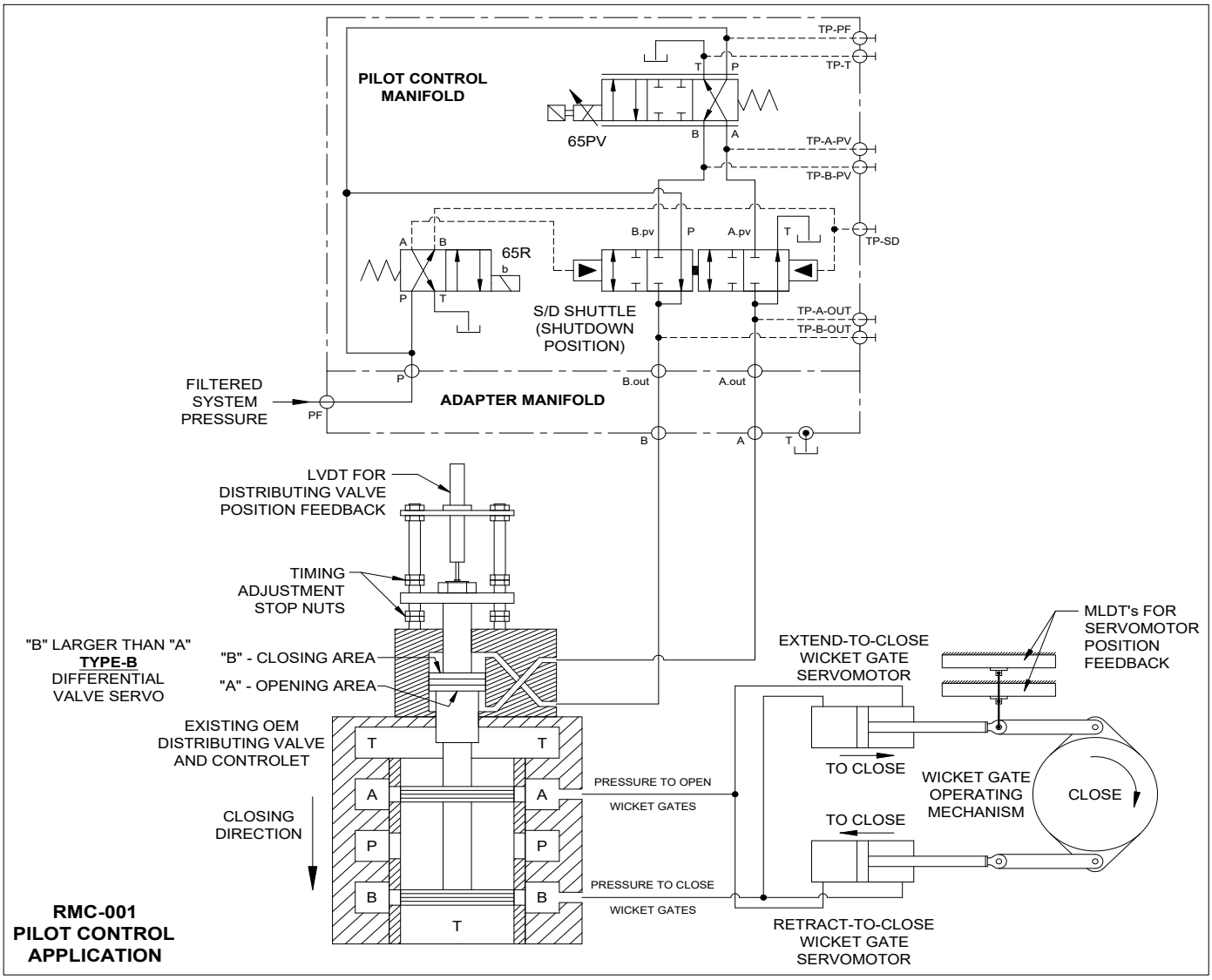
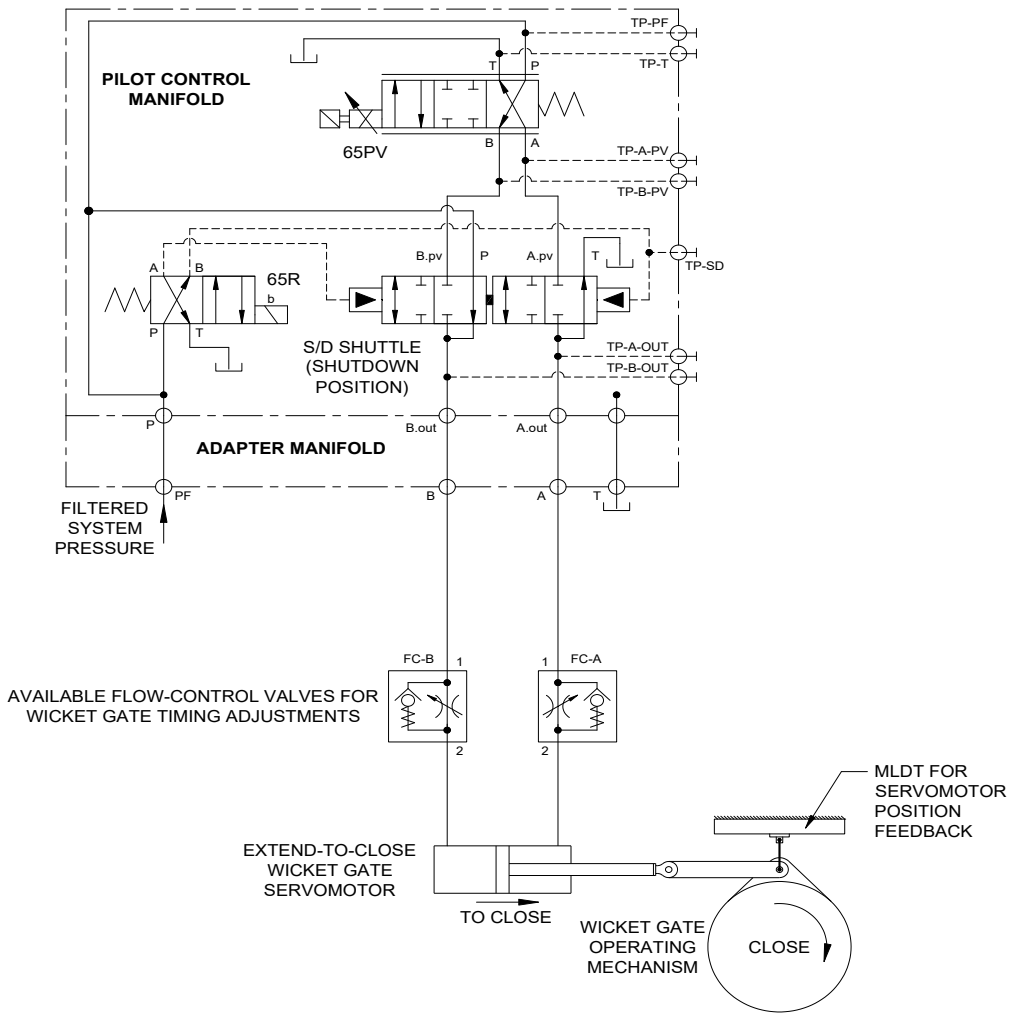


Typical Hydraulic Schematic of Pilot-Control Application
Equal-Area Valve Servomotor/Controlet Shown



Typical Hydraulic Schematic of Pilot-Control Application
Type-B Differential Valve Servomotor/Controlet Shown



RMC-001 SERVOMOTOR CONTROL APPLICATION

Typical Hydraulic Schematic of Servomotor-Control Application

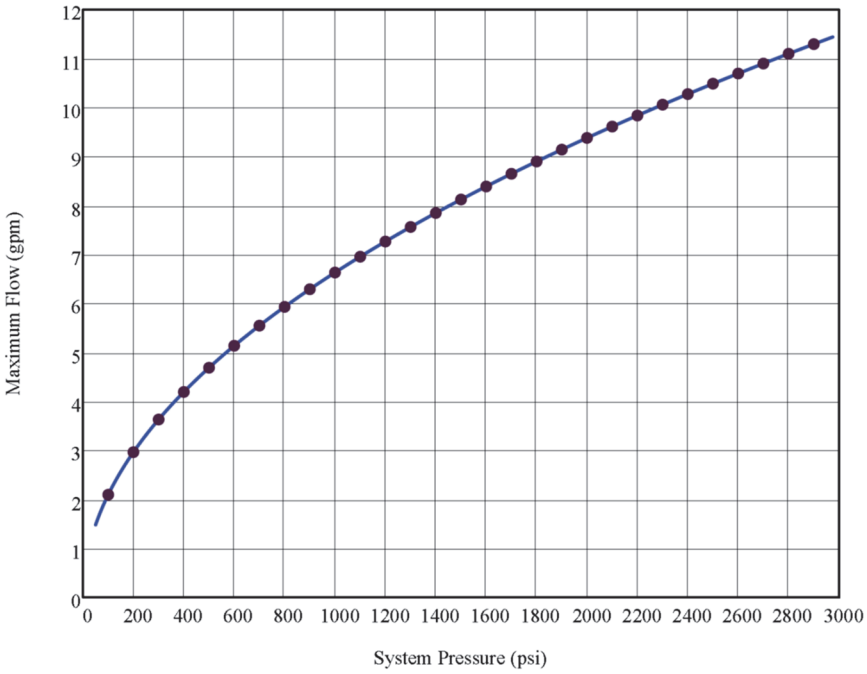
Wicket Gate Servomotor is Controlled Directly
(Without Second-Stage Distributing Valve)

Specifications:

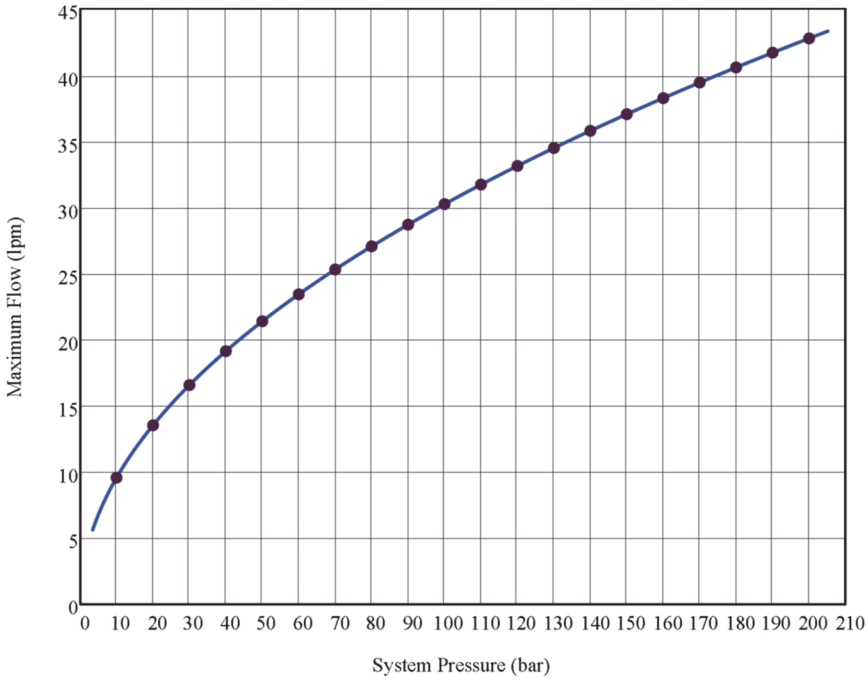
- 3000 PSI Maximum
- Flow Graphs Based on Commercially Available Proportional Valve Rated at 40 Liter Per Minute (10.6 GPM) with 35 Bar (508 PSI) Pressure Drop Per Land
- Oil Cleanliness Requirements: ISO 18/16/13 (or better)
- Ambient Temperature Range: -4°F to +122°F (-20°C to +50°C)
- Fluid Temperature Range: -4°F to +122°F (-20°C to +50°C)

Flow Capacity Versus System Pressure

In Compliance with IEEE Std 1207 - 6.2.3.2



Gallons per Minute vs. Pounds per Square Inch



Liters per Minute vs. Bar