



GE Electrohydraulic Control (EHC) System

Section 11.5



Learning Objectives

- 1.State the purposes of the turbine electro-hydraulic control (EHC) system.
- 2.Describe the sequence of events that results when a turbine trip is initiated mechanically or electrically.

Learning Objectives (cont -1)

3. Explain the functions of the following emergency trip system components:
 - a. Mechanical trip valve
 - b. Lockout valve
 - c. Master trip solenoid valve
 - d. Relay trip valve
 - e. Extraction relay dump valve.

Learning Objectives (cont-2)

4. Describe the generation of turbine valve positioning signals in the following components of the electrical control system:
 - a. Speed Control Unit
 - b. Load Control Unit
 - c. Flow Control Unit.

Fig. 11.5-1

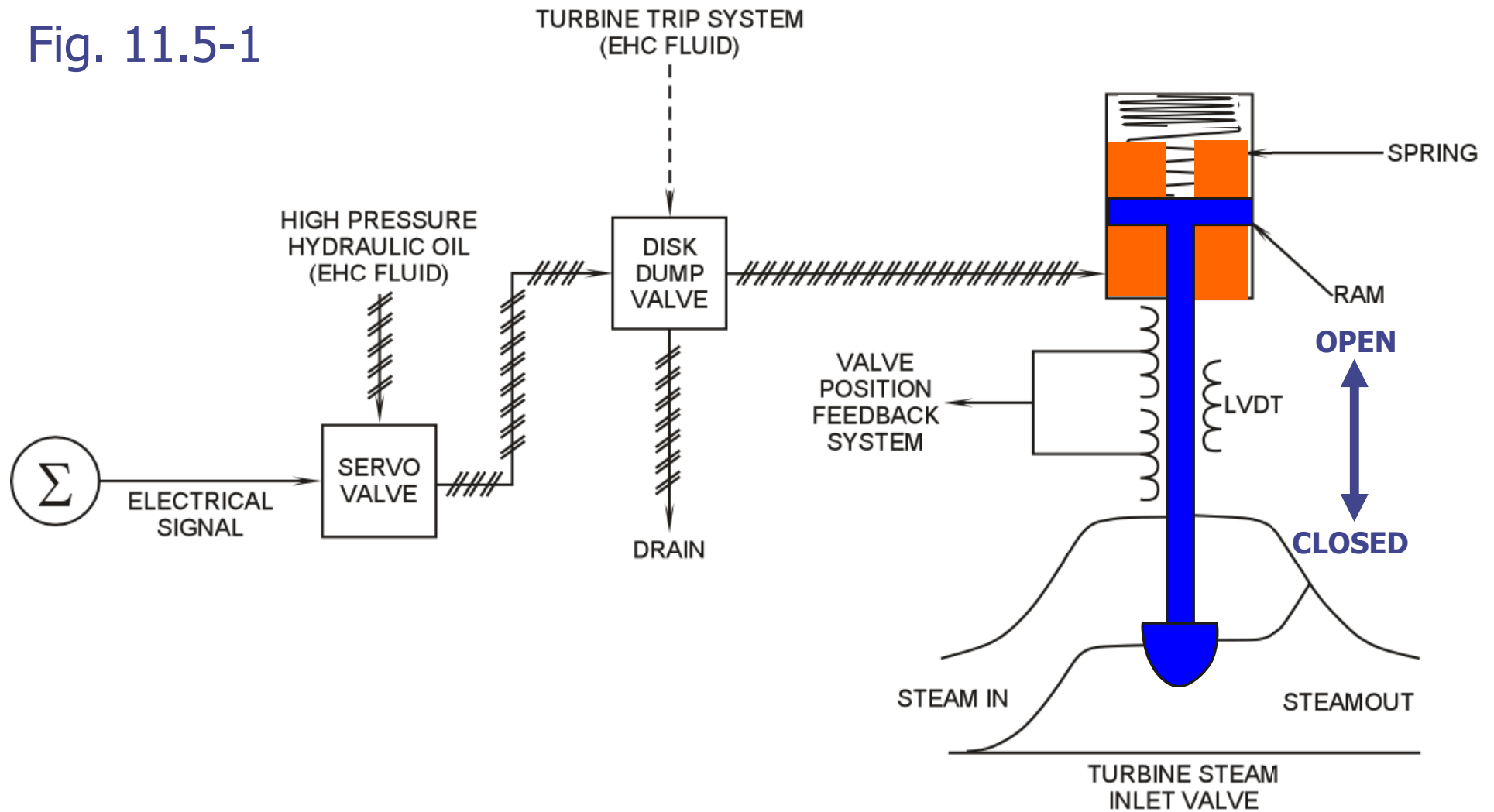


Fig. 11.5-2: EHC Fluid Sys

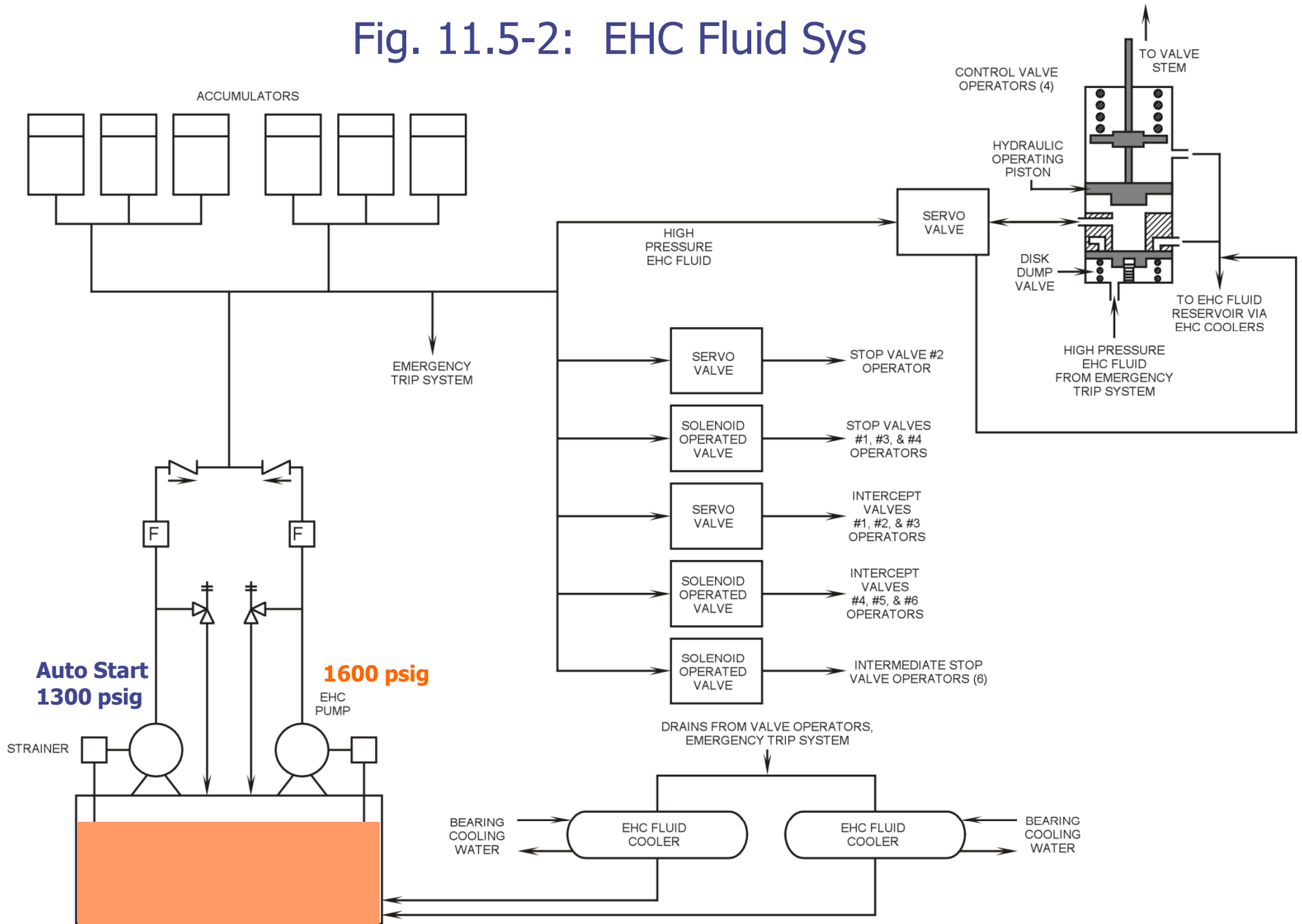
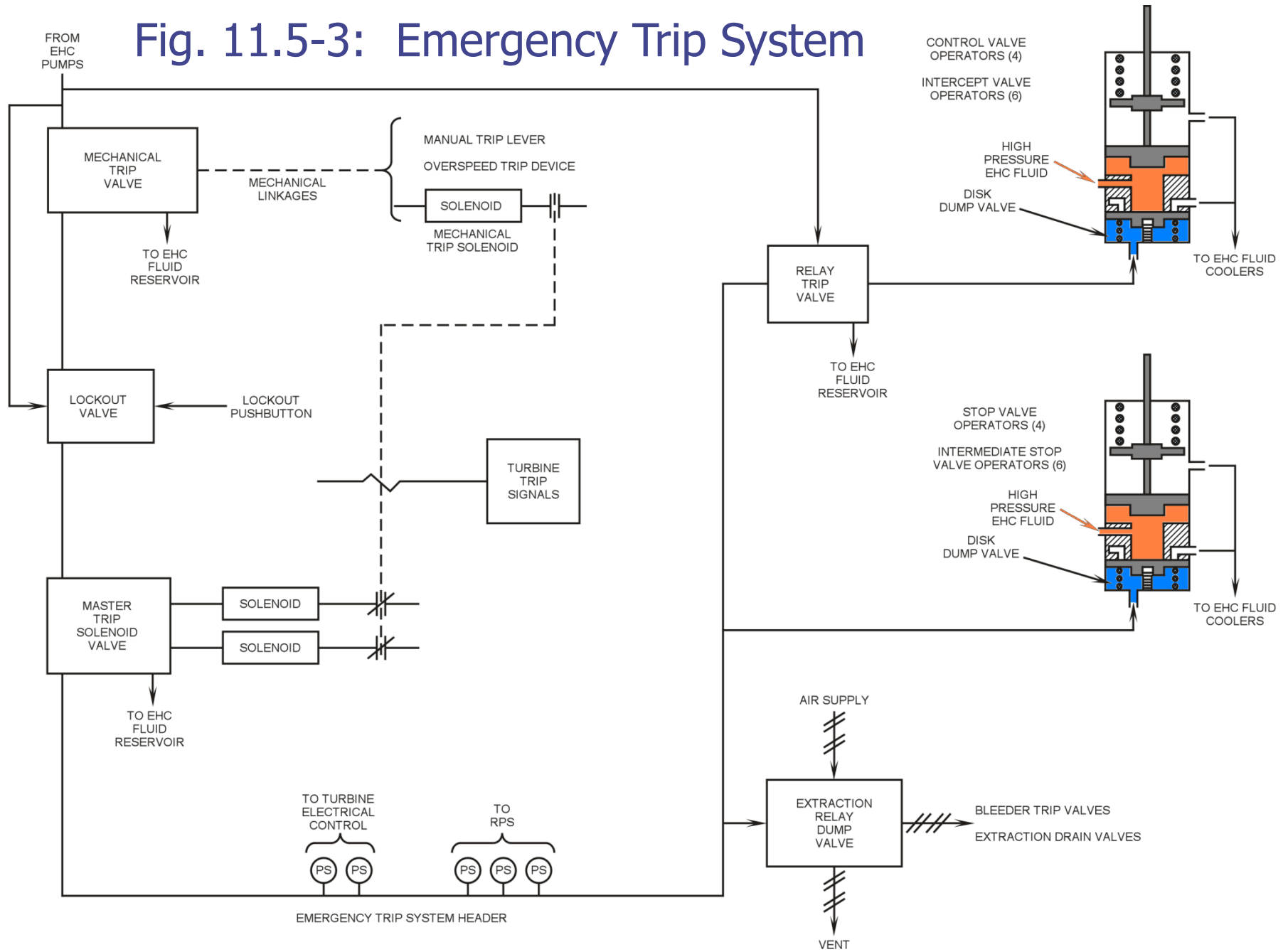


Fig. 11.5-3: Emergency Trip System



GE EHC Fig. 11.5-4

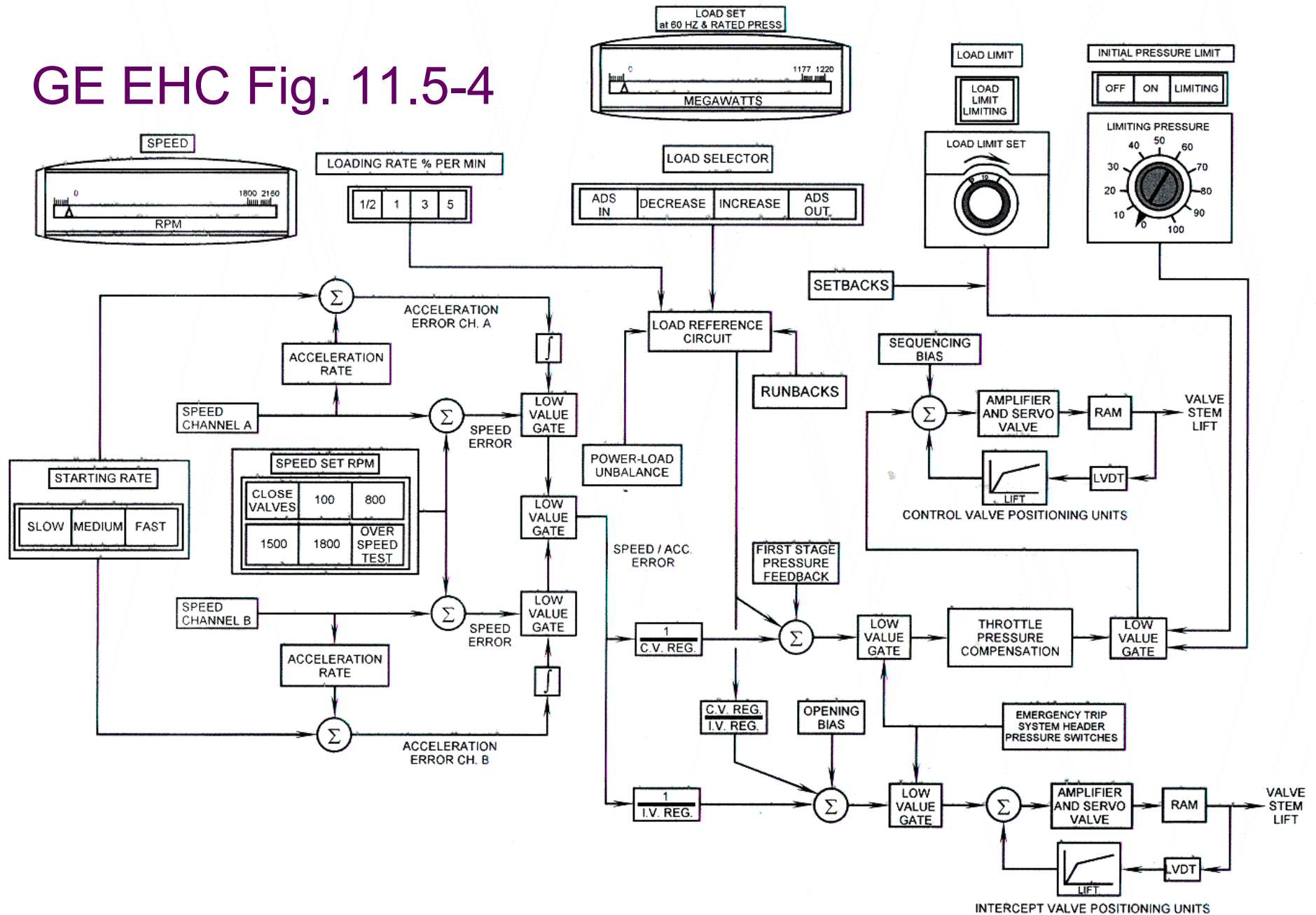


Fig. 11.5-6

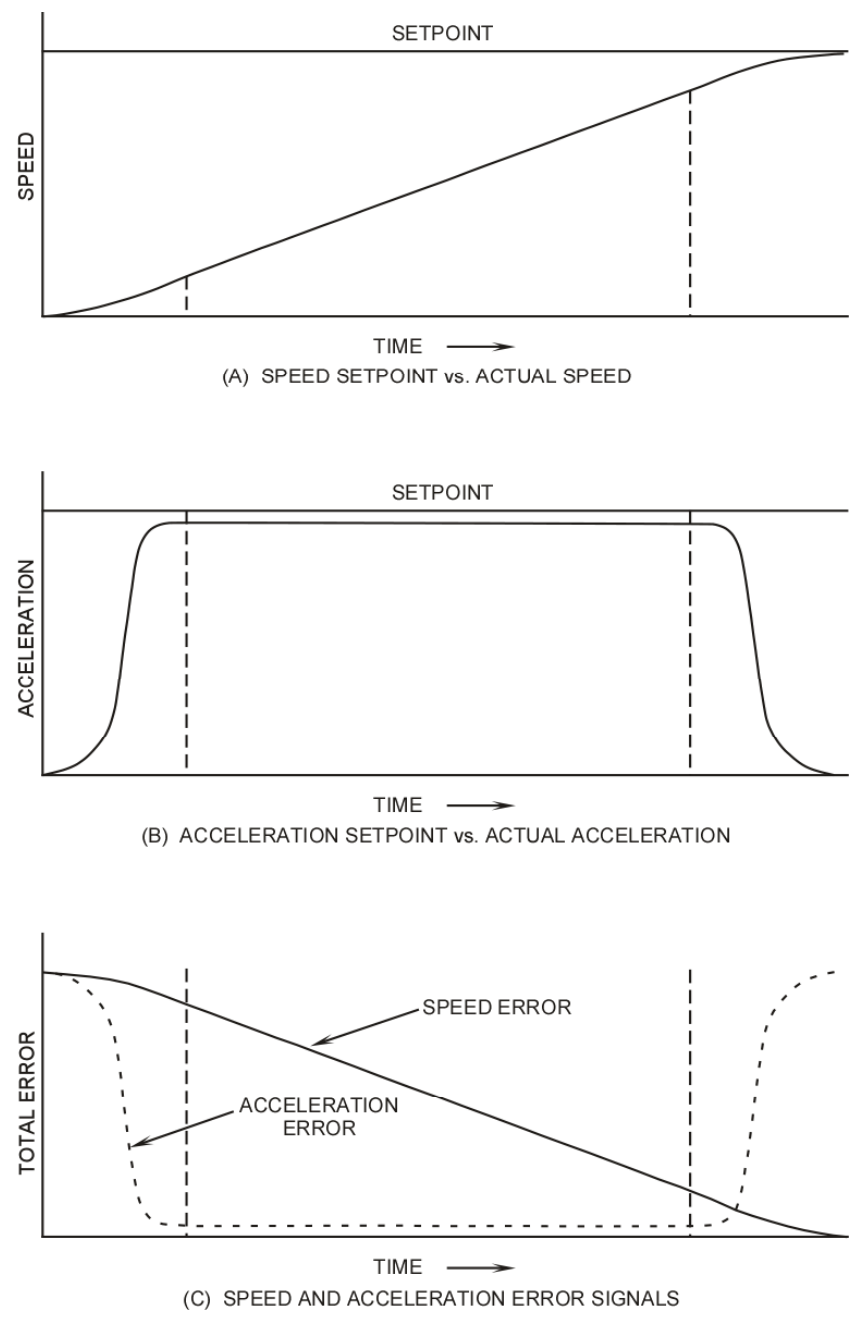


Fig. 11.5-7 Control & Intercept Valve Regulation

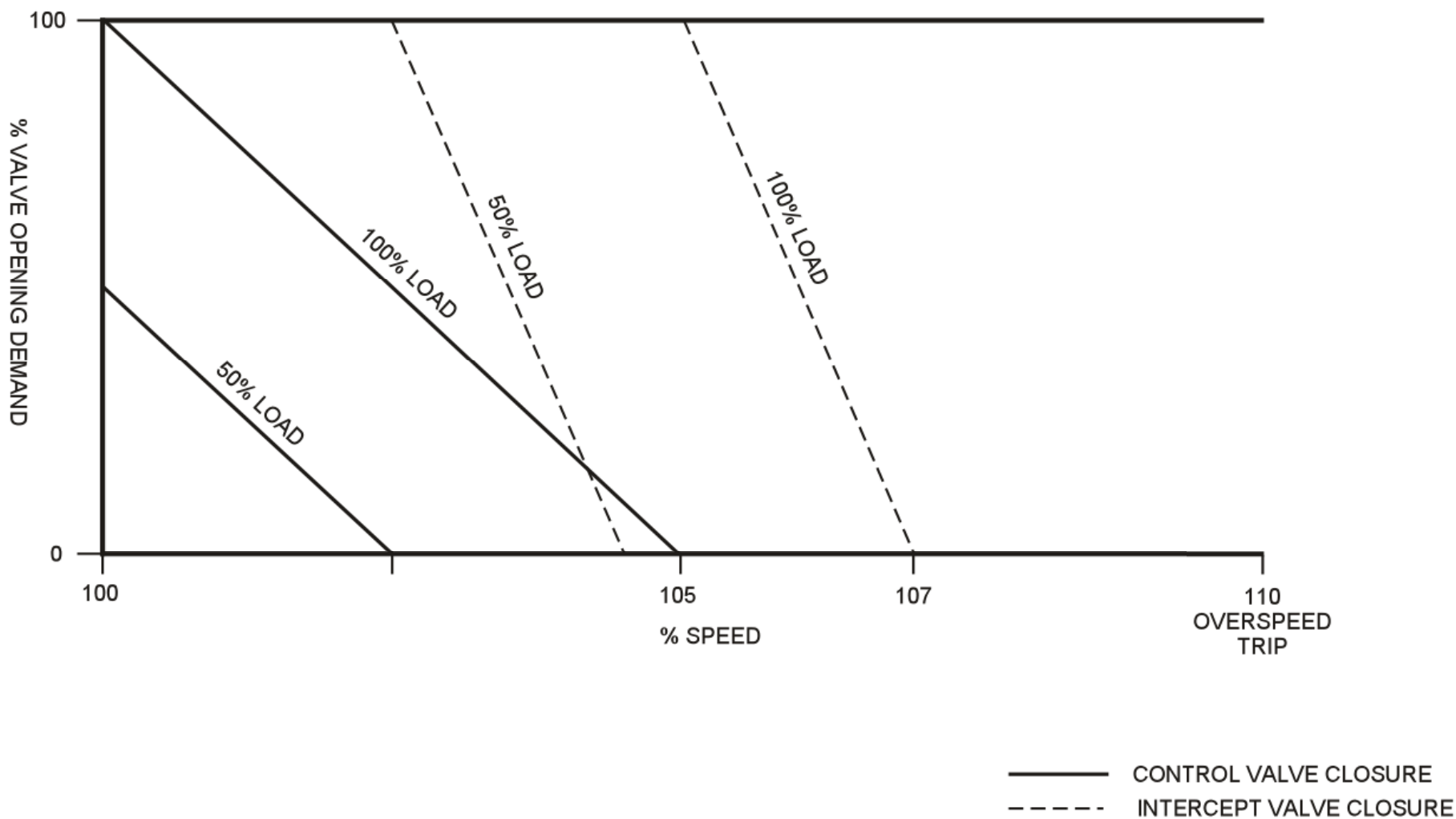


Fig. 11.5-9 Valve Positioning Unit

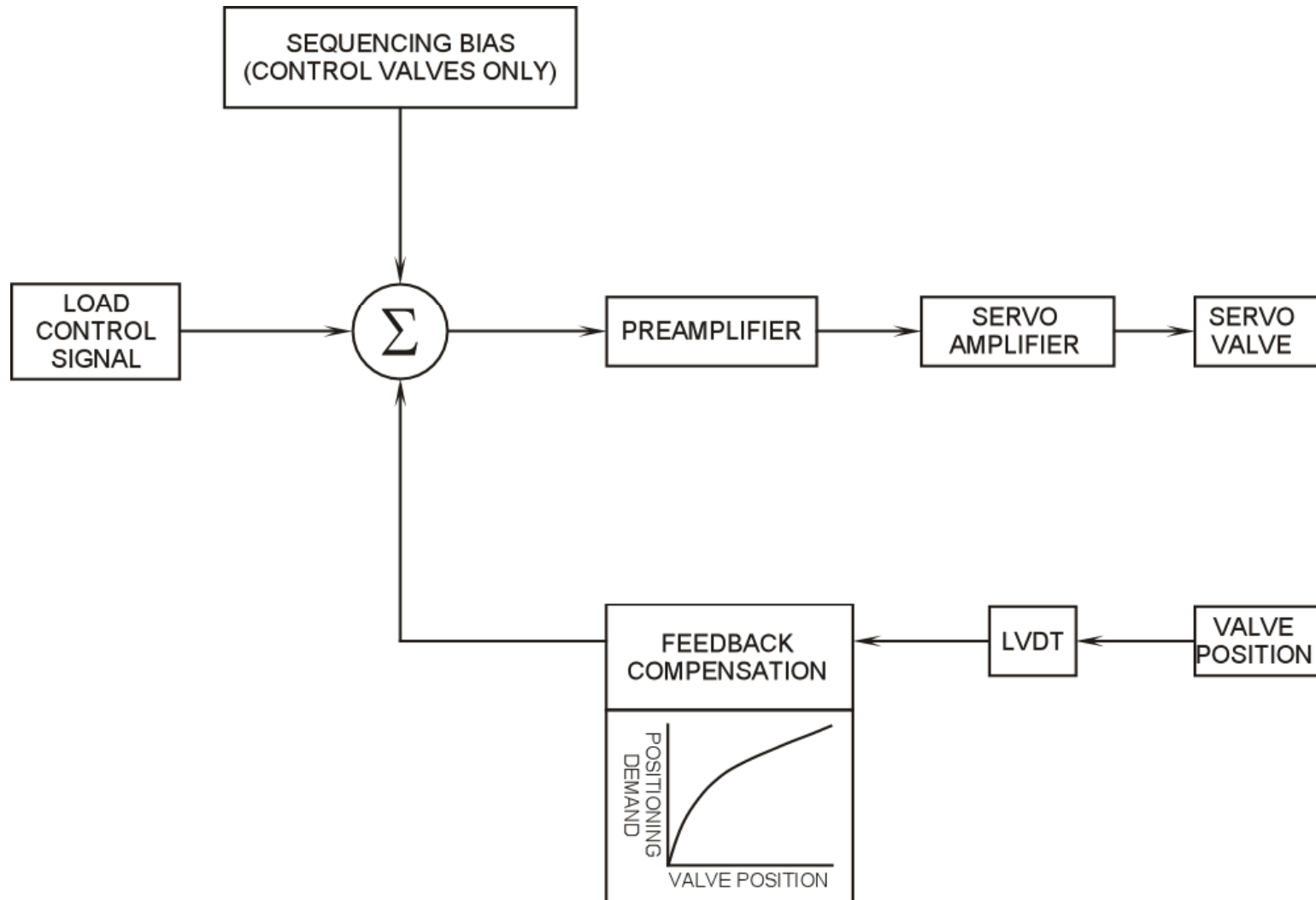


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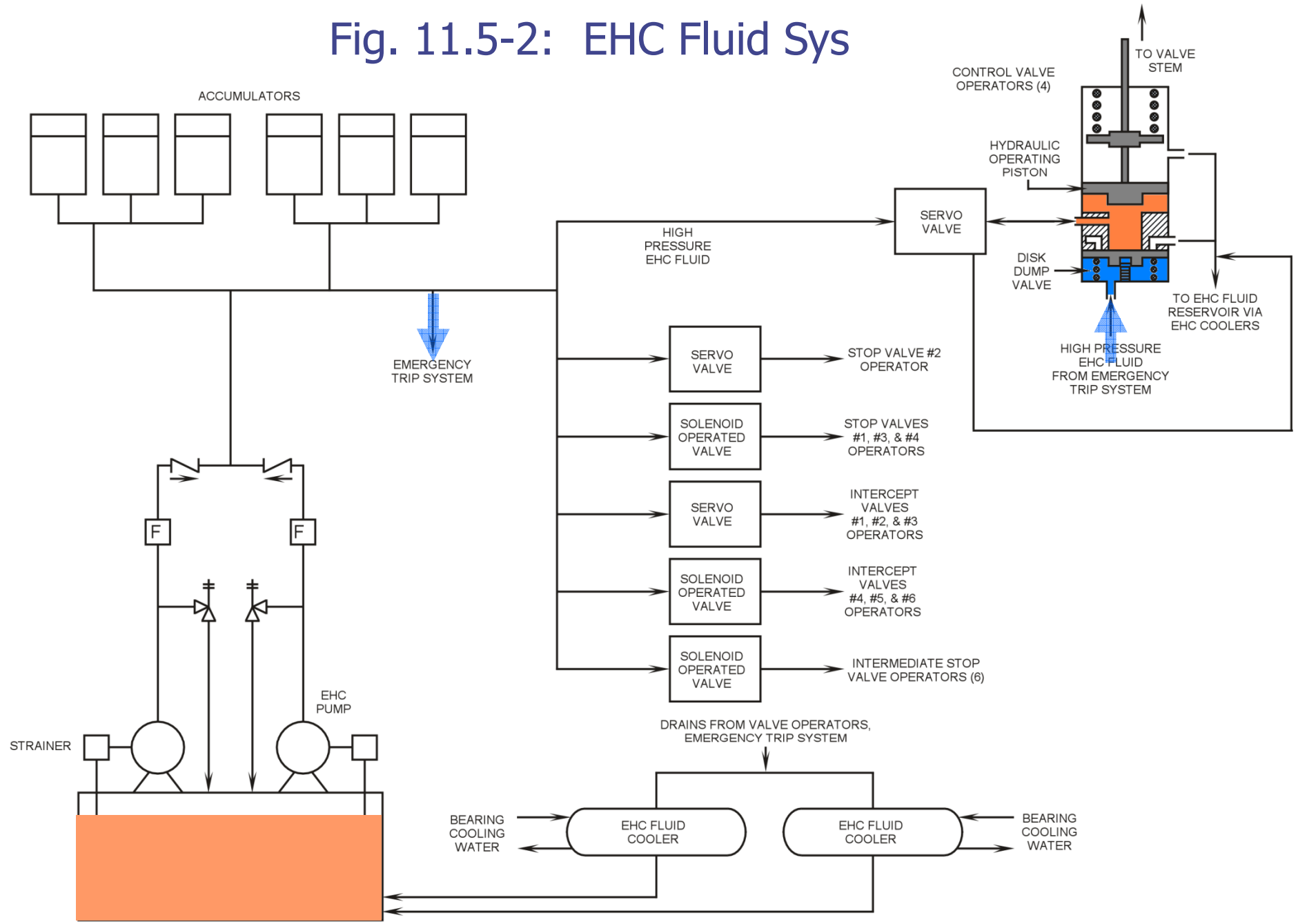


Fig. 11.5-10 Chest/Shell Warming

