

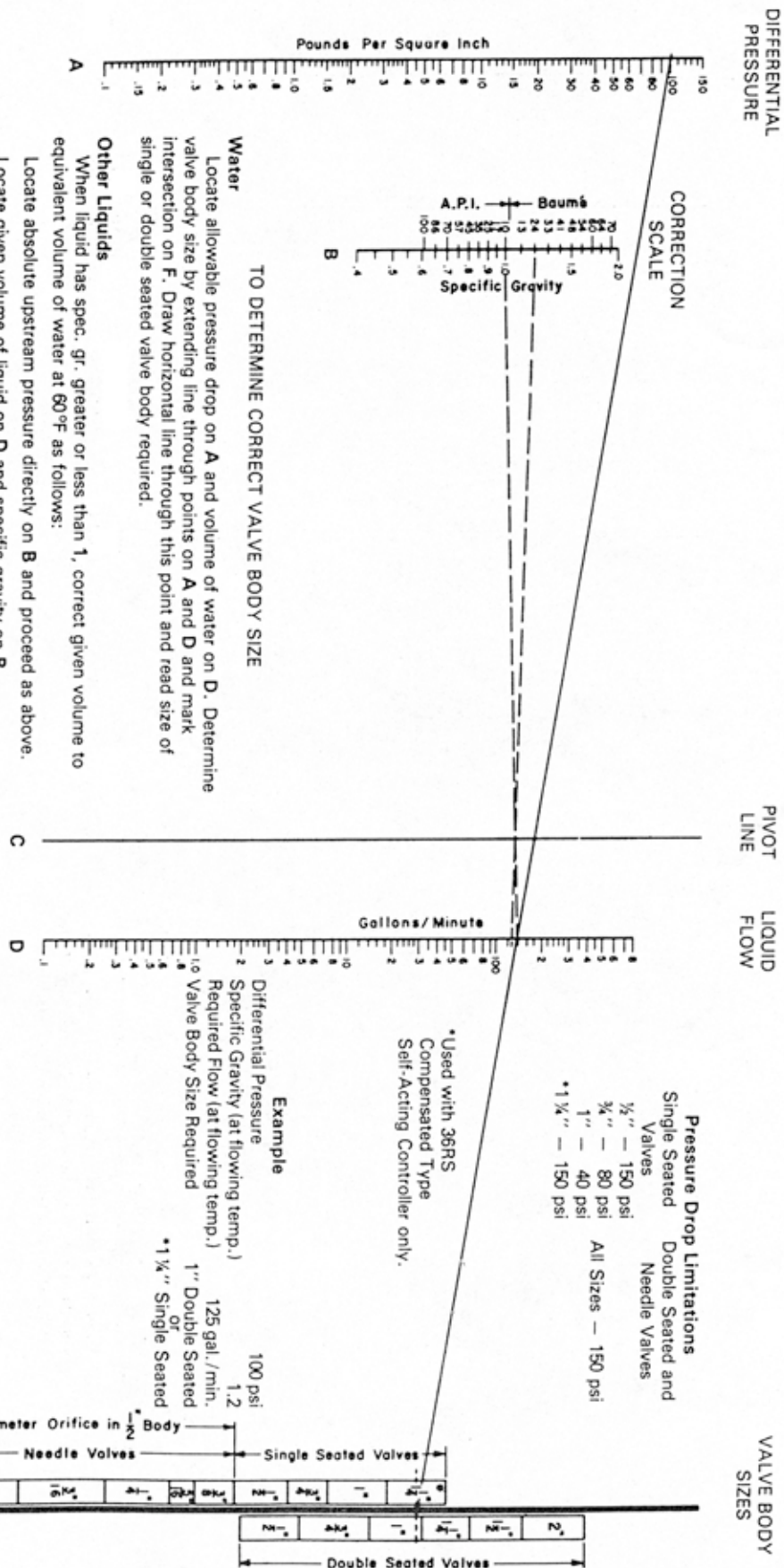
**SERIES
36R**

Self-Acting Temperature Control Valves

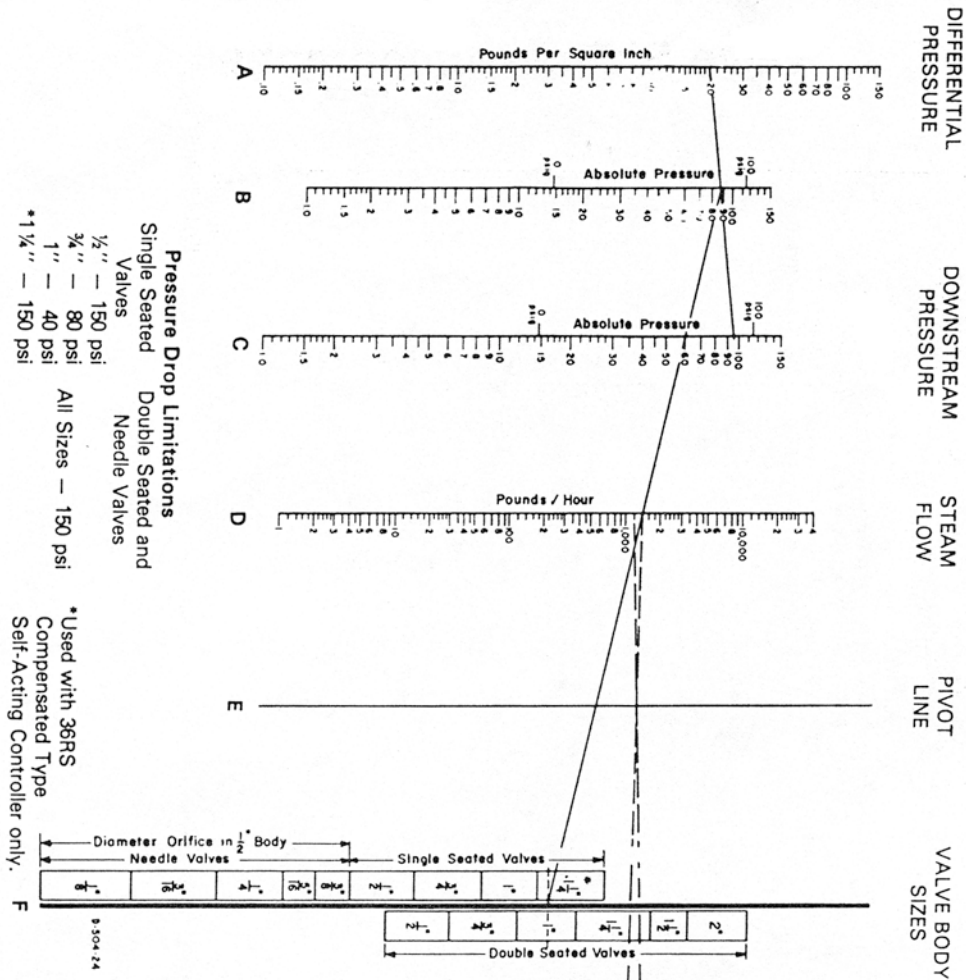


Valve Sizing Nomographs

FOR LIQUIDS



FOR STEAM



TO DETERMINE CORRECT VALVE BODY SIZE

When Absolute Downstream Pressure is Greater Than 50% of the Absolute Upstream Pressure:

Locate differential pressure on **A** and absolute downstream pressure on **C**. Connect with a straight-edge and mark intersection on **B**. (If steam is superheated or has a quality less than 100%, refer to note below.) Locate weight of steam on **D**. Determine valve body size by extending line through points on **B** and **D** and mark intersection on **F**. Draw horizontal line through this point and read size of single or double seated valve body required.

When Absolute Downstream Pressure is Less Than 50% of the Absolute Upstream Pressure
Locate absolute upstream pressure directly on **B** and proceed as above.

Example

Absolute Upstream Pressure	115 psi
Absolute Downstream Pressure	95 psi
Differential Pressure	20 psi
Superheat	200 °F
Required Flow	1200 lbs./hr.
Valve Body Size Required	1" Double Seated or 1 1/4" Single Seated

NOTE: When steam on upstream side of valve is superheated or has a quality less than 100%, correct given weight to equivalent weight of saturated steam as follows:
Locate given weight of steam on **D** and quality or superheat on **G**.
Connect points and mark intersection on **E**.
Extend line through point on **E** from saturated point on **G** and read corrected weight on **D**.
To obtain absolute pressure add 14.7 psi to gauge pressure.