SIZING PRESSURE REGULATORS

EXAMPLE

within 2 psi. 1. Steam

3. 40/20 psi

(a) 175/150 psi

4. 14,600 lb. per hour

5. Flanged, if 21/2" size or larger

2.

Select size and type Regulator to pass 14,600 lb. steam per

hour reducing from 175/150 psi saturated to 40/20 psi. Ends

to be flanged, pilot spring loaded and pressure controlled

(b) None (saturated, 378°F total temperature)

SELECTION OF TYPE AND SIZE OF REGULATOR

DATA REQUIRED FOR ORDERING

1. SERVICE Fluid flowing though Regulator.

2. INITIAL (INLET) PRESSURE

- (a) Maximum/Minimum.
- (b) Superheat, Gravity, etc.
 - (1) Steam Service–Total Temperature or Degrees Superheat, if any.
 - (2) Air, Gases, Water and Liquids–Temperature and Specific Gravity.

3. DELIVERY (OUTLET) PRESSURE Maximum/Minimum.

- 4. CAPACITY Maximum required flow through Regulator.
- 5. END CONNECTIONS Screwed or Flanged. (If flanged, state drilling.)

SELECTION OF TYPE AND SIZE OF REGULATOR

MAIN VALVE MAIN VALVE PILOT PILOT A. TYPE — See Selection Criteria See Selection Criteria A. Since maximum Delivery Since maximum Initial for Steam, Air, Gases or Water and Selection Charts Pressure is less than 75% Pressure 175 psi, Total and Liquids in beginning of this of minimum Initial Pressure opposite. Temperature 378°F maxi-Section. and the least pressure drop mum Delivery Pressure 40 exceeds required "minimal psi, Pilot spring loaded and differential". required accuracy 2 psi: SELECT TYPE E SELECT TYPE D B. SIZE—See applicable Valve B. For 14,600 lb. per hour and 150 psi minimum Capacity Tables in this Section. Initial Pressure Economical: SELECT 3" FULL PORT Engineered: SELECT 4" NORMAL PORT C. MATERIAL— See Main Valve See Pilot Selection C. For 175 psi, 378°F: For 175 psi, 378°F: Selection Chart in Technical SELECT CAST IRON, Chart opposite or indi-SELECT CAST IRON Reference Section or individual vidual Product Pages. FLANGED 250 LB. Product Pages. D. ACCESSORIES—See Accessories in Other Products **D.** None required in this case. None required in this case. Section.

ECONOMICAL SOLUTION: 3" FULL PORT SPENCE TYPE ED, CAST IRON BODY, 250 LB. FLANGED ENDS ENGINEERED SOLUTION: 4" NORMAL PORT SPENCE TYPE ED, CAST IRON BODY, 250 LB. FLANGED ENDS.

NOTE: Pressure Regulators should always be protected by properly designed Strainers.

