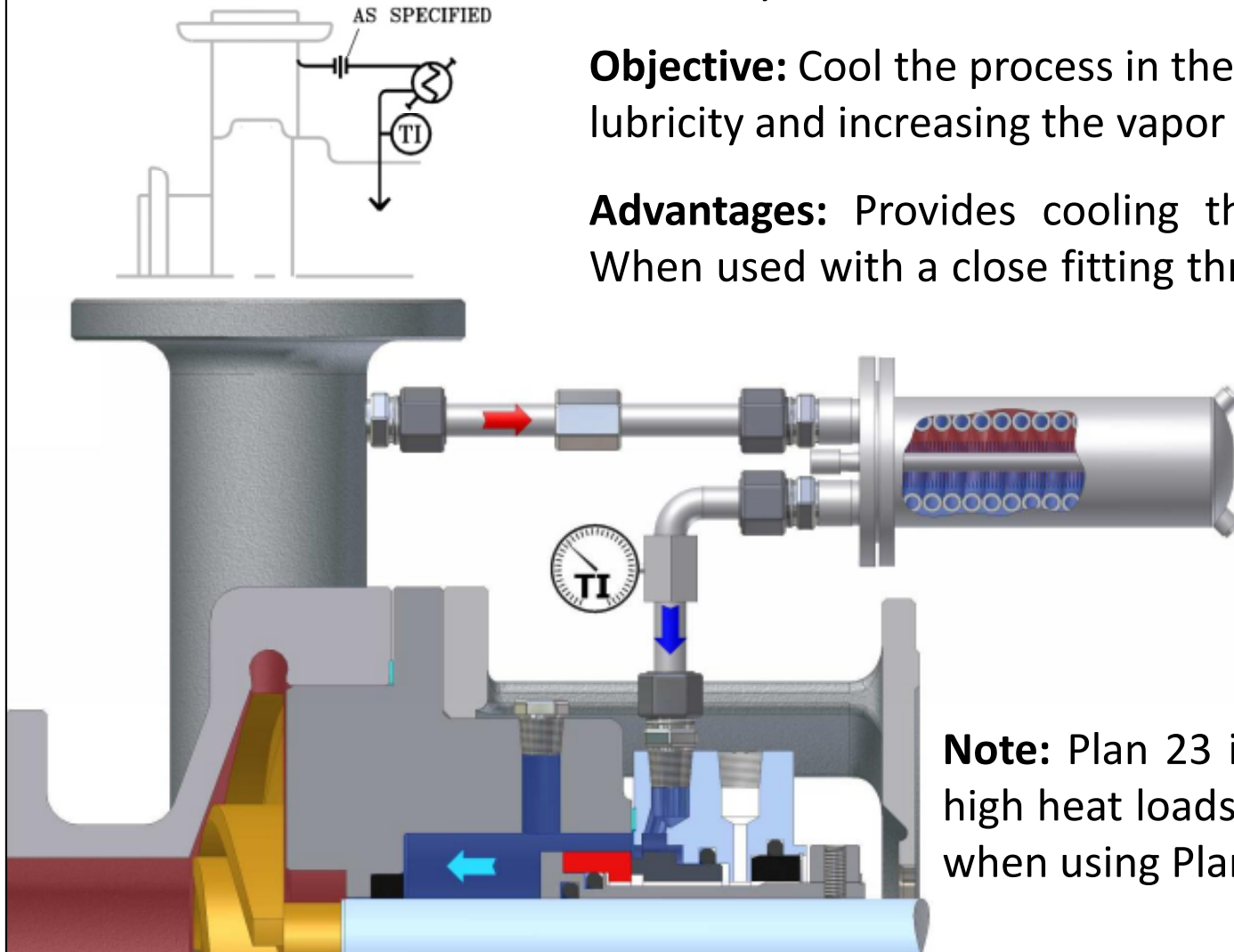


Plan 21



Description: Plan 21 is recirculation from pump discharge through an 1/8" minimum flow control orifice, when necessary, and seal flush cooler, then into the seal chamber.

Objective: Cool the process in the seal chamber, improving lubricity and increasing the vapor margin. Reduce coking.

Advantages: Provides cooling through a seal flush cooler. When used with a close fitting throat bushing, it can raise the pressure in the seal chamber.

Recommended over the Plan 23 when used in viscous applications that may clog seal flush cooler.

Note: Plan 23 is the preferred plan due to high heat loads put on the seal flush cooler when using Plan 21.