

BUSHING FOR THERMALLY INDEPENDENT BYPASS AIR METERING VALVE

ABSTRACT OF THE DISCLOSURE

A bypass air metering valve is provided with a stationary case flange having a plurality of slots, a bushing positioned within each of the slots, and a metering ring positioned so as to ride on a surface of each respective bushing. Each bushing creates a gap between the stationary case flange and the metering ring. Each bushing has an internal opening which is sized to create an open area flow for cooling or operating the nozzle and its attaching flap hardware. The metering ring covers and uncovers the internal opening of each bushing as required by the engine operating schedule.

Figure 1