

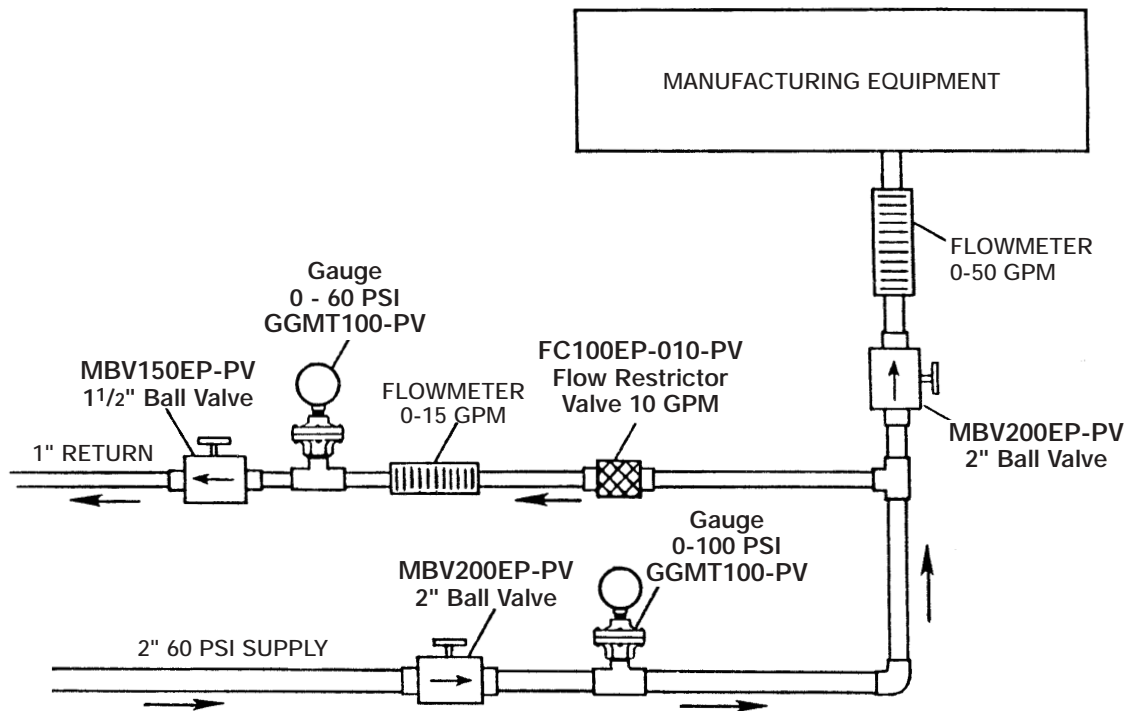
MARKET Semiconductor

PRODUCT(S) Series FC Flow Controls, Series MBV Ball Valves and Series GGM Gauge Guards

REQUIREMENT To provide a method to control the return flow of de-ionized process cooling water from the manufacturing equipment.

PROCESS FLUID(S) De-ionized Process Cooling Water

INLET PRESSURE/TEMPERATURE 60 PSI Inlet / 60°F



A leading Semiconductor manufacturer required a method to balance the flow of de-ionized water to and from their manufacturing equipment. The pressure drops created as the various pieces of equipment demand water made the use of conventional methods (ie. diaphragm valves) unacceptable. Plast-O-Matic Valves Series FC Flow Control was specified for its ability to provide a constant flow rate regardless of a high or fluctuating inlet pressure (under 120 PSI). This constant flow of de-ionized water now allowed the system to balance the demand for this process cooling water with little or no maintenance.

Additionally, Plast-O-Matic's True Blue Ball Valves were specified for isolation valves due to the trunnion design, which allows for the valve to be mounted in either direction safely. A stainless steel rod reinforced shaft with dual shaft O-rings also provide added strength and dependability. The gauges were isolated for purity purposes by Plast-O-Matic's Series GGM Gauge Guards. These guards were specified with the standard Teflon® diaphragm for added purity.

NOTE: Bulletins are intended only to show possible applications of Plast-O-Matic products and are not design recommendations for a system or its safety. See statement of limitations in front of manual.