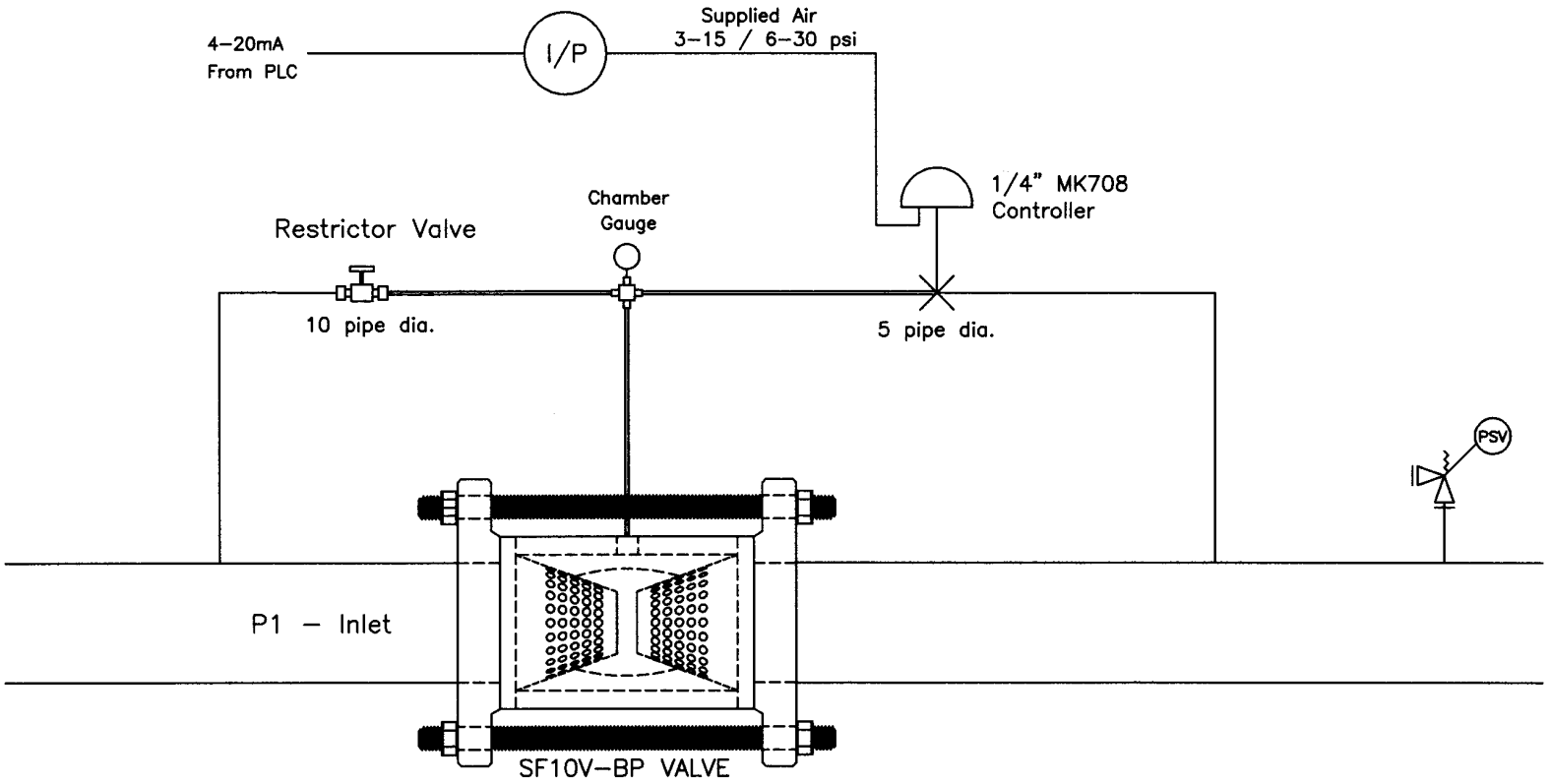
PRINCIPIAL OF OPERATION AND COMMISSIONING:

The SF10V valve has an ease–in style housing that is installed inline between two flanges. The sensing lines are then attached to the P1 & P2 flow lines. The P1 sensing line should be installed ten pipe diameters upstream of the valve and the P2 sensing line five pipe diameters downstream of valve.

The ¼" NC MK708 controller receives a 3–15 or 6–30 psi signal to operate (eg. at 3 psi the MK708 is closed and at 15 psi the MK708 is wide open). While the MK708 is closed, all the process pressure dumps into the charge chamber locking the SF10V Valve up 100% bubble tight. As the MK708 receives a signal from the PLC to open, the pressure in the charge chamber is able to bleed down and allow flow through the SF10V Valve. The restrictor valve is used to fine tune the system to flow and operate are per your requirements.



TOLERANCES UNLESS OTHERWISE STATED .X ±0.100" .XX ±0.030" .XXX ±0.015" SURFACE FINISH 63 Ra ALL DIMENSIONS ARE IN INCHES BREAK ALL SHARP EDGES	REV	DESCRIPTION	SUR–FLO METERS & CONTROLS LTD. CALGARY, ALBERTA		
			SCALE NTS	APPD.	TITLE: Flow Control Schematic
	MATERIAL: as per material specs		DATE Jan. 11, 01	DRN. D.N	DWG. NO SF10V FC
					REV. 0