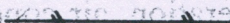
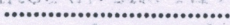




control valve LCV to properly respond to the controller output signal from LIC.





TABLE 9A.1

Common symbols used on P&IDs [Instrument Society of America Standard, ISA-5.1-1984 (R1992)]

Instrument Line Symbols

	Instrument supply or piping connection to process (capillary)
	Pneumatic
	Electrical
	Software signal

Instrument Location and Identification

	Instrument located in plant
	Instrument located on front of panel in control room
	Instrument located on back of panel in control room
	Instrument accessible as part of a distributed control system

Common Identification Letters Used in Instrument Symbols

First Letter (A)		Second or Third Letter (B)
A	Analysis	Alarm
B	Burner, combustion	
C	User choice (sometimes conductivity)	Control
D	User choice (sometimes density or specific gravity)	
E	Voltage	Sensor element
F	Flow rate	
G	User choice	Glass, viewing device
H	Hand	High
I	Current (electrical)	Indicate
J	Power	
K	Time or time schedule	Control station
L	Level	Light or low
M	User choice (sometimes moisture or humidity)	Middle or intermediate
O		Orifice, restriction
P	Pressure, vacuum	Point
Q	Quantity	
R	Radioactivity or ratio	Record
S	Speed or frequency	Switch
T	Temperature	Transmit
V	Viscosity or vibration	Valve, damper or louver
W	Weight or force	Well
Y	Event	Relay, compute, convert
Z	Position	Drive