PLAST-O-MATIC VALVES, INC.

APPLICATION BULLETIN IIC-2

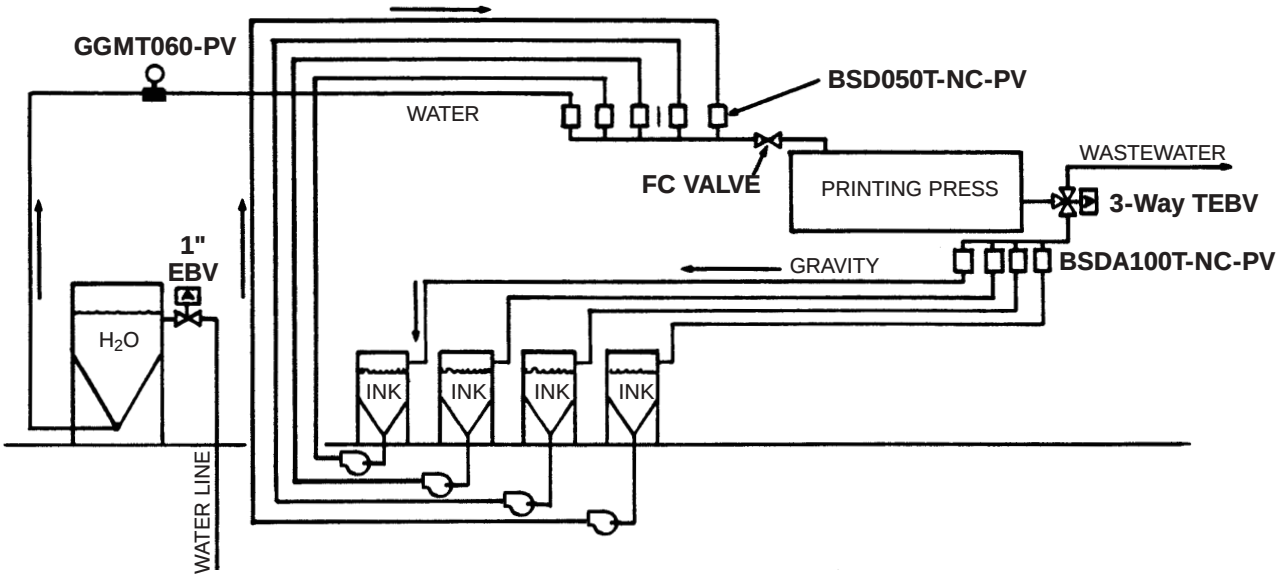
MARKET Printing – Ink Distribution

PRODUCT(S) Series BSD050T-PV, BSDA100T-PV, GGMT060-PV, FC050EP-1-PV, EBV075EPT-PV and TEBV150EPT-PV

REQUIREMENT To provide various corrosion resistant valves for system control of inks to printing presses.

PROCESS FLUID(S) Printing Inks and Water Flush

INLET PRESSURE/TEMPERATURE Gravity to 40 PSI / Ambient



Water-based printing inks are corrosive and tend to adhere to and build-up on valve seal surfaces causing leakage. The Series BSD Diaphragm Valves (pressure supply valve) were chosen for their non-adhering PTFE diaphragms and automation of ink delivery that was previously fed by manual valves. Once the presses stop another BSD opens, allowing water to flush the line. The 3-Way TEBV True Blue Electric Actuated Ball Valve, having drained the remaining ink from the press through the Series BSDA and back to the ink tanks passes the waste water (ink residue and water) on to the treatment area. The Series GGMT Chemical Gauge Guard (with PTFE diaphragm) monitors the water pressure while the Series FC Flow Control Valve assures a constant flow rate of ink to the press during printing time.

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APPLICATION BULLETIN IIC-4

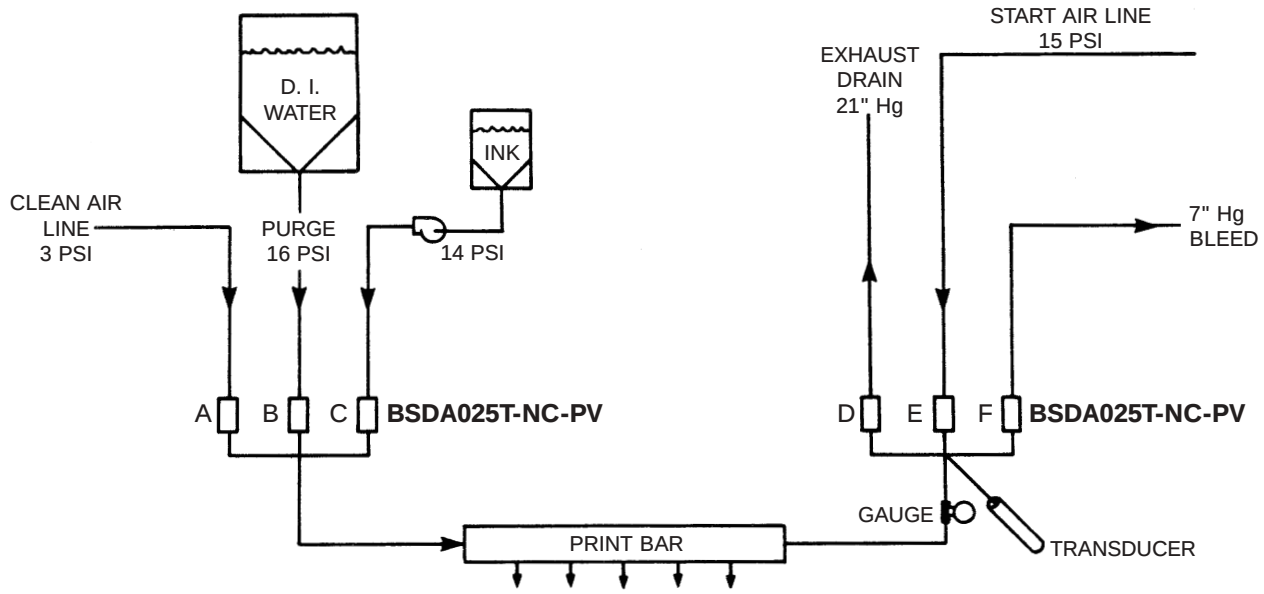
MARKET Printing – Ink Jet

PRODUCT(S) Series BSDA Air-Operated Diaphragm Valves with Attached Diaphragms

REQUIREMENT To provide a corrosion resistant valve for system control of ink to printing jets.

PROCESS FLUID(S) D. I. Water and Ink

INLET PRESSURE/TEMPERATURE 21" Hg Vacuum to 16 PSI / Ambient



Water-based printing inks are corrosive and tend to adhere and buildup on valve seal surfaces causing seal leakage. The Series BSDA, attached Diaphragm Valves were chosen for their non-adhering PTFE diaphragms. First valves B and E will open, this clears the print bar sprayers. These valves will close and then valves C and F open, this will draw the ink through the system; once this is done valve F closes. When printing is finished valve C closes, B and D open, this in turn flushes the system with D. I. water. Last, B will close and A will open. This directs air through the system to dry it out.

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APPLICATION BULLETIN IIC-5

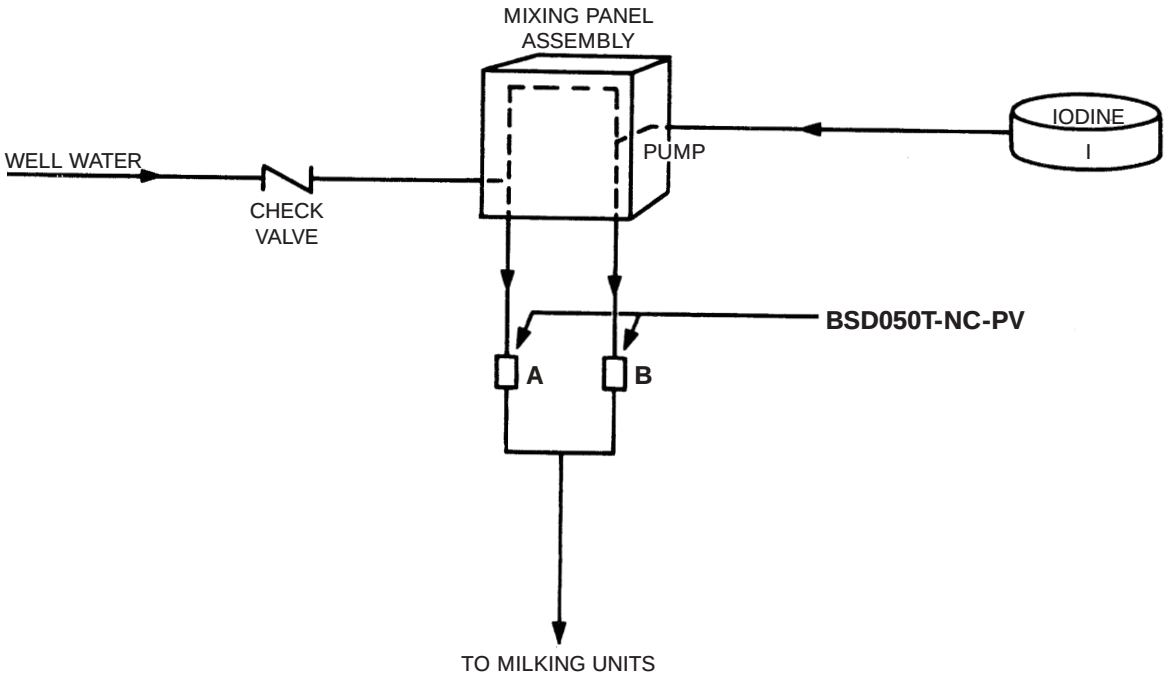
MARKET Dairy Industry

PRODUCT(S) Series BSD Air-Operated Diaphragm Valves

REQUIREMENT To provide both chemical resistance and non-contaminating benefits with the purifying solution.

PROCESS FLUID(S) Iodine (I) and Water (H_2O) Sanitizing Mixture

INLET PRESSURE/TEMPERATURE 20 PSI / Ambient



Dairy farm has sanitizing procedure to cleanse milking units following every milking run to prevent cow disease. Iodine is drawn into the mixing panel that contains water regulator, water meter and chemical metering diaphragm pump. Iodine is dosed into pre-regulated flow line through Series BSD valve "B" to milking units. Following sanitation valve "B" is closed, valve "A" is opened and milking units are flushed with water prior to next milking run. Series BSD Valves were selected for chemical compatibility, miniature size, weight, air consumption and cost.

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