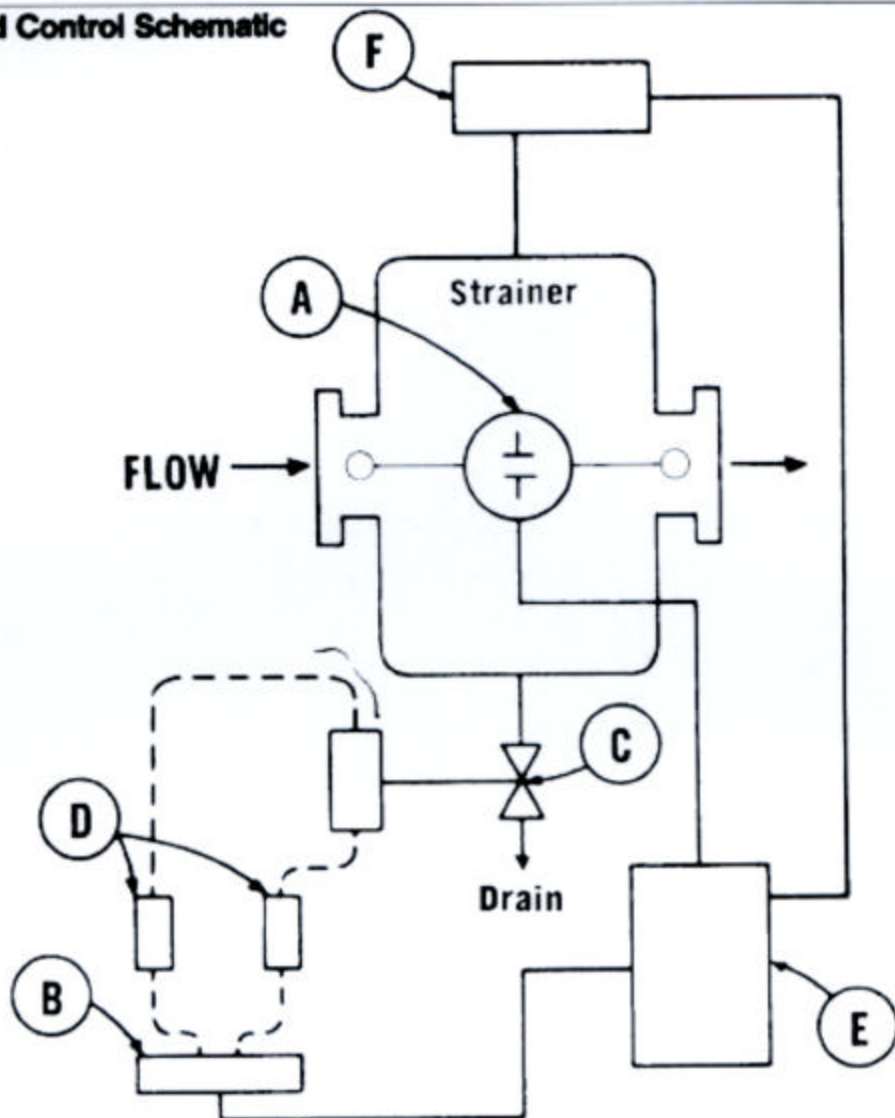


Tate Andale Standard Automatic Controls for Type KR, KB, KBF and I260 Strainers Air-Operated

Air-Operated Control Schematic



This is a completely automatic system with air-operated flushing valve controlled by an impulse from a differential pressure switch connected across the inlet and outlet nozzles of the strainer.

When a predetermined pressure drop has been reached, a signal from the differential pressure control switch starts the rotating element and opens the flushing valve for a minimum period of 30 seconds, or until the pressure drop has returned to normal.

A "Hands-off-Auto" selector switch permits changing from normal intermittent

automatic operation to continuous back flushing if desired. A momentary contact "Start" pushbutton permits manual override for the differential control switch.

Services required:

Motor drive—as required by customer
Control system—110 volt, single phase, 60 Hz

Flushing valve—60 to 100 PSIG clean air supply

Key:

- (A)—Differential pressure switch
- (B)—Single solenoid 4-way air valve
- (C)—Air-operated flushing valve
- (D)—Flow control valves (2)
- (E)—Control panel
- (F) Gearmotor rotating element drive
- Pneumatic control lines

Both control systems provide a blow-down connection in addition to the backflush connection. This permits manual blow-down for removal of debris which may have accumulated in the bottom of the strainer. The blow-down gate valve (furnished by the purchaser) should be the same size as the blow-down connection on the strainer.