

## Koltek 3-Way Shutter Valve

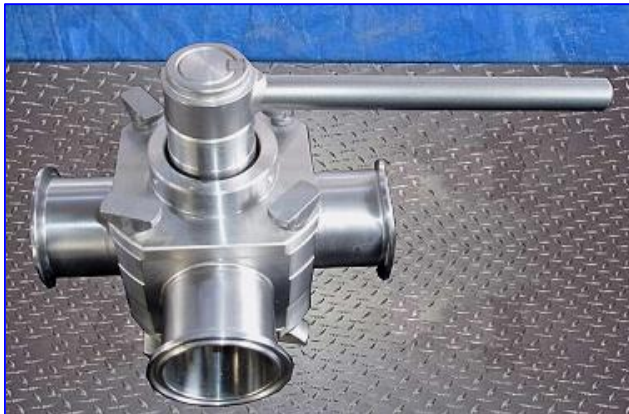
Mfg: Koltek

Model: Koltek

Stock No. pRWVG018.2a

Serial No.

(3) Koltek 3-Way Shutter Valves. Stainless steel. Tri-clamp connection, designed for use in the food, chemical, pharmaceutical and other industries where sanitary designs are required. Koltek valves meet 3A standards and are USDA approved for dairy, meat and poultry plants. Inlets/outlets: (3) 2 in.  $\frac{1}{2}$ " line. Overall dimensions: 11 in. L x 6 in. W x 7 in. H.



**Working Principle:** A polytetrafluoroethylene (PTFE) shutter is operated by means of a handle or an actuator. A spring washer system presses the shutter against the internal cylindrical surface of the valve body, ensuring a tight seal.

The air actuated valve can be fitted with top units or a laterally fitted indication unit for remote indication of the valve position.

The manually operated valve can be fitted with laterally mounted indication units. The actuators are a rack and pinion design available in spring return or air-to-air versions. The spring return actuator operates with one main piston, while the air-to-air actuator operates with two.

The valve consists of a rigid body with an internal cylindrical bore and two, three or four ports for product pipe line connection. The two lids have guide rings or bearings for an internal shaft which supports and positions the shutter. The stainless steel handle or the actuator is fitted to turn the shaft. The actuator consists of a system of cylinders, and one or two main pistons interconnected with a toothed bar (rack and pinion), which interacts with a gear wheel on the valve shaft. The system is insensitive to pressure shocks in the valve.

Certain industries require disassembly and cleaning of the manually operated versions of the valve. Pneumatically operated versions of the valve do not need to be disassembled to assure proper cleaning, if correctly controlled (pulsed) during the cleaning operation.

To achieve total trainability, the manual or pneumatically operated version of The valve should be installed in the piping system with at least one port in the vertical downward position.

Technical Data	
Max. temperature:	230 °F
Max. pressure against shutter:	44 PSI
Max. pressure behind shutter:	145 PSI, 116 PSI max. 73 PSI
Air pressure for actuator:	mm.