Operation and Maintenance Manual
RD-Series™
Check Valve

Henry Pratt Company
401 S. Highland Avenue
Aurora, IL 60506
Phone: (630) 844-4000
Website: www.henrypratt.com

OPERATION AND MAINTENANCE
RD-Series Check Valve

INSTALLATION

When installing the RD-Series check valve, the direction of flow should be noted. The arrow on the bonnet indicates the direction of flow of the line media. The RD-Series check valve is designed for flow in either a horizontal or vertical (flow upward) environment. When using the RD-Series check valve in horizontal pipelines care should be taken to keep the bonnet in a horizontal plane to insure shutoff.

For longest service life, it is suggested that the valve be installed five to ten pipe diameters from any turbulence producing devices such as pumps, etc.

RD-Series check valves have ANSI B16.1 flat-faced 125/150 flanges. Standard ANSI B16.21 flanges and gaskets should be used to install the valve in the pipeline. Certain size valves utilize tapped holes where backing nut is not possible. Please check specific drawings for detailed information on sizes and quantities of hexagon head cap screws required on these valves.

OPERATION

The RD-Series check valve is designed to have extremely simple operation. As long as valve is positioned correctly, no operational functions are necessary.

MAINTENANCE

The only moving portion of the RD-Series check valve is the flexible disc member. Should this component be torn due to service conditions it can easily be removed and replaced.

First, the line should be shut down and drained if possible. The bottom threaded pipe plug can be removed to aid in liquid removal if required. The bonnet can now be taken off by removing all bonnet fasteners. The bonnet should now be lifted, taking care not to damage the elastomer gasket, which should be reused. The flexible disc member can now be lifted out of the valve. The new flexible disc should be installed in the same location with reassembly in the reverse order from above.