

# Model 825Y Reduced Pressure Backflow Prevention Assembly ( $\frac{3}{4}$ " Thru 2")

The Model 825Y reduced pressure backflow prevention assembly consists of two independently operating, center guided, spring loaded, "Y" pattern check valves and one hydraulically dependent differential relief valve. The assembly automatically reduces the pressure in the "zone" between the check valves to at least 5 PSI lower than the inlet pressure.

If the differential between upstream and the zone of the unit drops to 2 PSI, the differential relief valve will open and

maintain the proper differential.

Standard features of the Model 825Y include the "Y" body design for low pressure loss, reliable operation, and easy serviceability. At the typical design flow rates of 7.5 feet per second, the 825Y has one of the lowest head losses in the industry.

Febco publishes flow charts obtained from independent laboratories.

The elementary yet efficient design of the Model 825Y provides consistent

operation in the harshest water environments.

Operational tests are performed on 100% of the 825Y assemblies before delivery to the field.

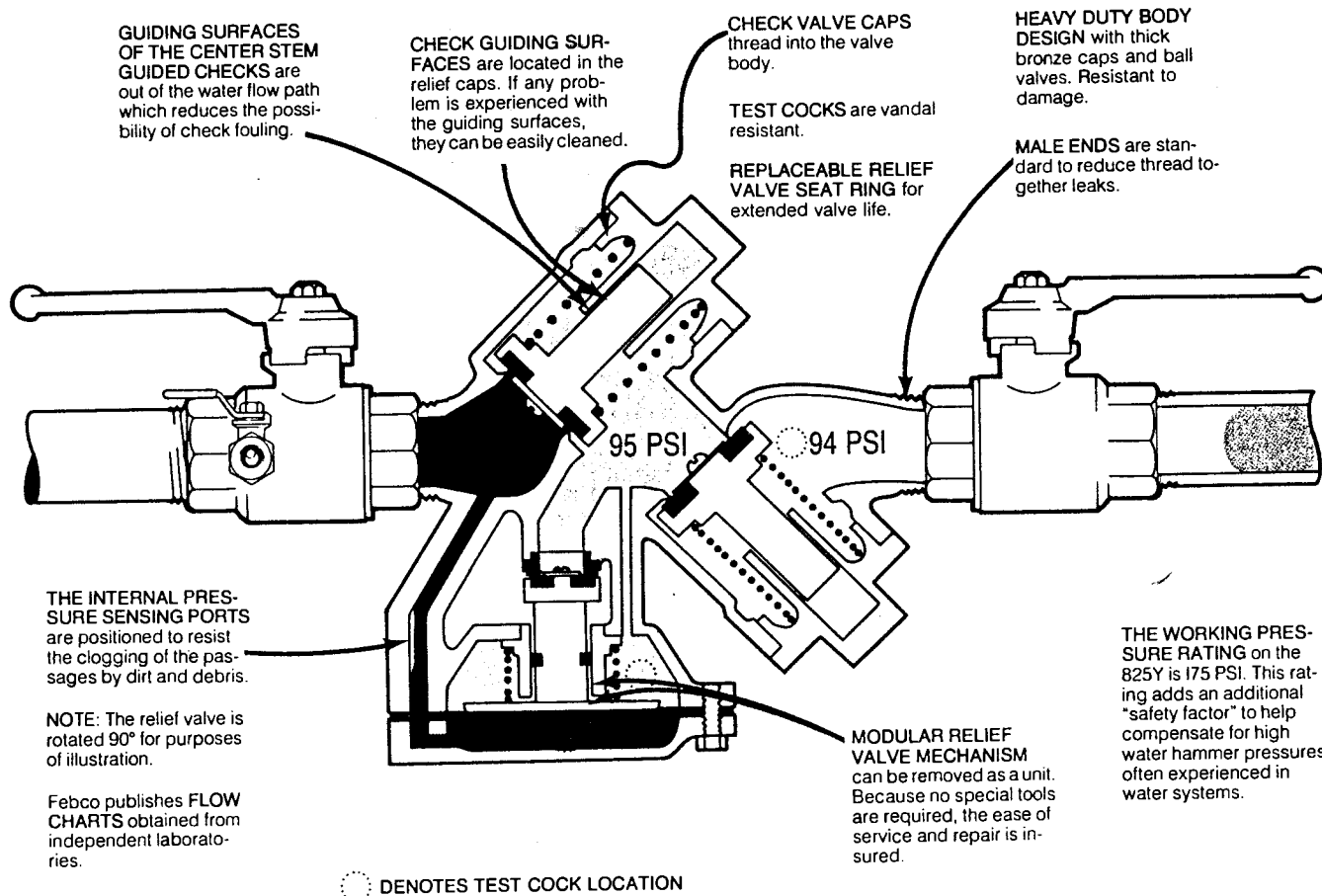
- Low head loss.
- Replaceable relief valve seat ring.
- Available with air gap drain.

## Model 825Y SELECTION CRITERIA:

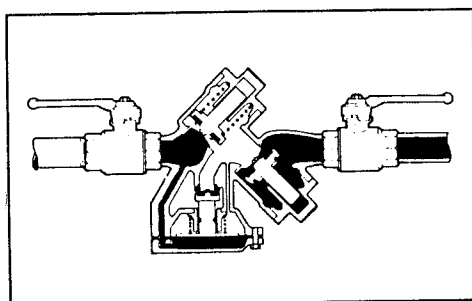
- Health hazard service.
- Continuous pressure operation.
- Possible backpressure.

See page 3 for applicable approvals.

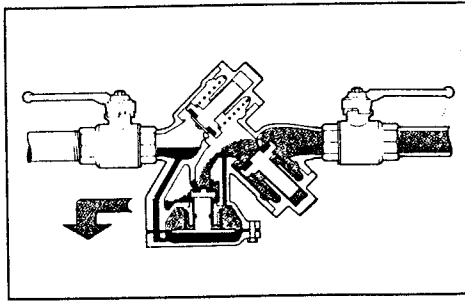
## Features of the Model 825Y ( $\frac{3}{4}$ " thru 2")



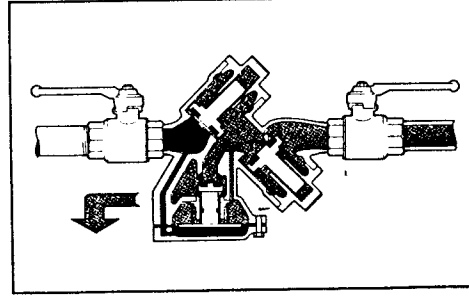
## HOW THE MODEL 825Y WORKS: OPERATION UNDER VARIOUS WATER SYSTEM CONDITIONS



Normal Flow Condition



Backsiphonage Flow Condition  
(Both Check Valves Fouled)



Backpressure Flow Condition  
(Second Check Valve Fouled)