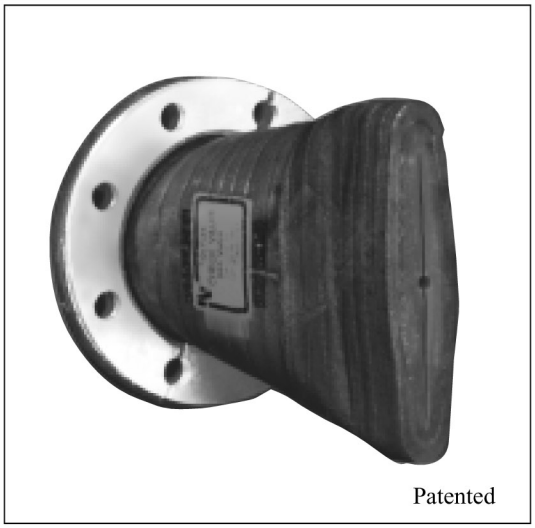
Series TFO
Flow Restrictor

Red Valve Company, Inc.®

- Helps Eliminate Cavitation in Control Valves
- Low Operating Cost
- Extends Service Life of Control Valves
- Induces Back Pressure
- Alternative to Orifice Plates



Patented

Materials of Construction

- **ELASTOMERS**
  Pure Gum Rubber, Neoprene, Hypalon, Chlorobutyl, Polyurethane, Buna-N, Viton, EPDM

The TFO Flow Restrictor is an elastomer variable orifice which induces back pressure, and is designed to help eliminate cavitation on control valves in highly abrasive slurry applications. The flow characteristics are superior to an orifice plate restrictor and other similar devices placed in the line to restrict flow and create back pressure. The TFO is installed on the discharge end of a pipe, and is ideal for applications where flow is discharging to atmosphere.

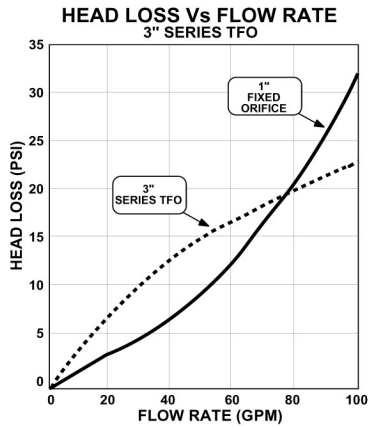
As indicated in the headloss chart below, the TFO Flow Restrictor outperforms the metal variable orifice plate. The advantage of the TFO is that as the flow rate in the line increases, the valve will automatically open so the back pressure remains relatively constant. The pressure drop in a TFO increases in a near linear pattern as the flow increases. This feature distinguishes the advantage of the TFO over Orifice Plates, where as the flow rate increases, the back pressure increases exponentially.

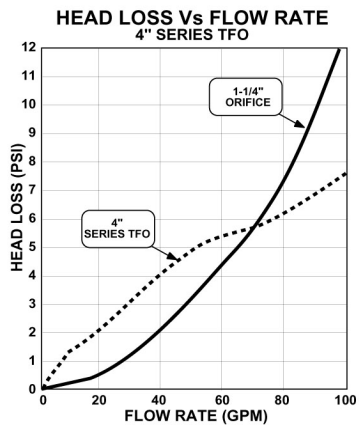
The TFO Flow Restrictor is manufactured with an orifice in the center, allowing minimum flow with little or no wear. The purpose of this orifice is to prevent excessive wear on the TFO during minimum flow conditions in abrasive applications.

The TFO's dimensions are identical to the standard Series 35 flanged check valve.

Ordering Information

Line Size (i.d. in inches)		
Flange Specification (ANSI 150, DIN 2633, etc.)		
Materials of Construction Base Elastomer Cover Material Back-Up Ring Material		
Pressure Drop at a Specific Flow Rate	psi	gpm
Specific Gravity of Process Fluid		
Maximum Line Pressure		





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