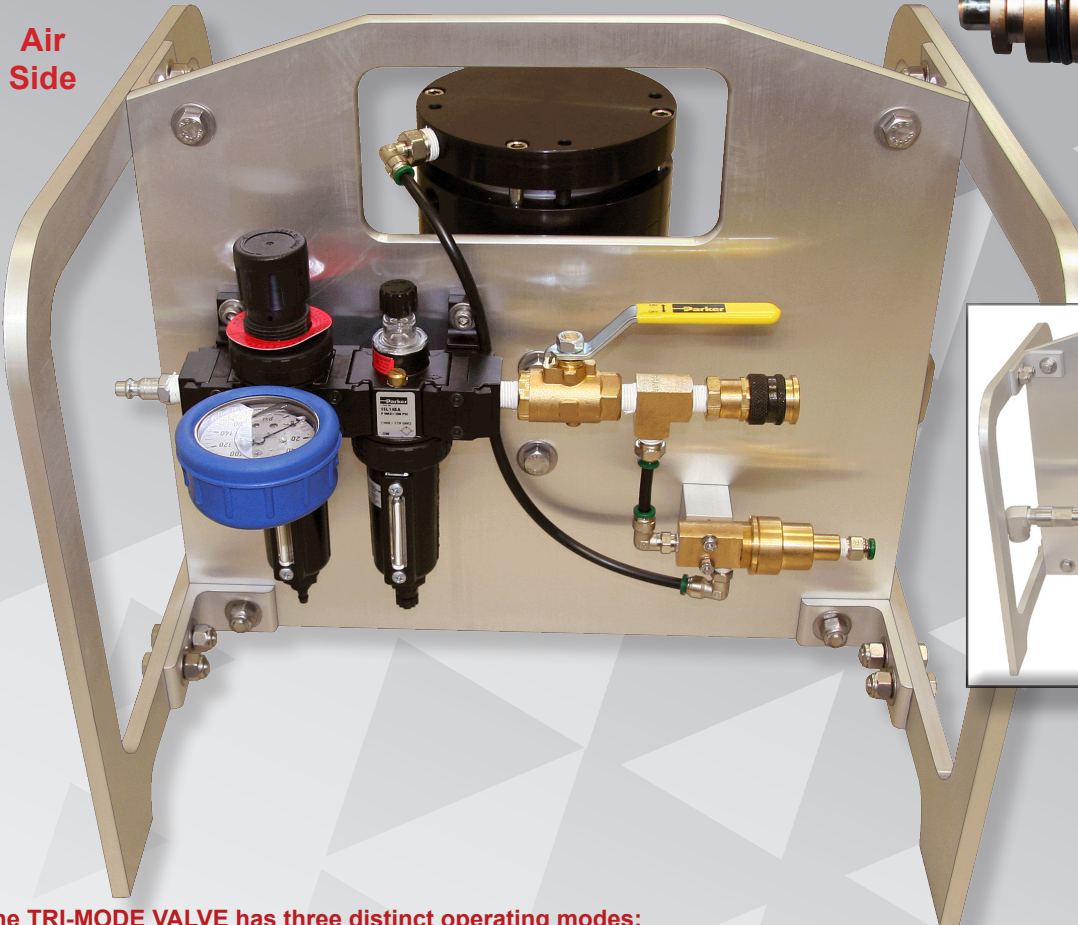


# The Tumble Box

## (40K Tri-Mode Valve)

The new 40K **"TRI-MODE VALVE"** (commonly called a Tumble Box) has been developed after extensive research aimed at identifying the features that contractors and end users needed most. The air side incorporates a robust easy to operate shut off valve, a large easy to read horizontally mounted gauge, which is protected by a heavy rubber buffer. The shuttle valve is a simple cartridge type design, which is easy to service and replace.

Air  
Side



Tri-Mode Cartridge  
Part # 60-070-111

Cartridge Overhaul  
In less than a minute!



Water Side

### The TRI-MODE VALVE has three distinct operating modes:

- 1) **PRESSURE DUMP MODE:** This is used when more than one gun is being supplied with high pressure water by the same pump. To achieve this arrangement a nozzle with the same flow as the combined nozzles of the gun, is located at the inlet to the Energy Diffuser. This maintains the same system pressure when there is no flow to the gun. The energy from the jet is absorbed by impacting the inside of the dissipater tube and then flowing away out of the end of the tube assembly.
- 2) **LOW PRESSURE DUMP MODE:** This is used when only one gun is used, and the high pressure water is supplied by a plunger pump. (Intensifier pumps do not work well if subjected to frequent pressure reductions to atmosphere.) In this configuration the Energy Diffuser and the nozzle assembly are not required and the unused flow is discharged at low pressure when the trigger of the gun is released.
- 3) **THE DRY SHUT OFF MODE:** This employed when the pump has its own pressure compensator system (Unloader). This is commonly found on an intensifier pump as well as some plunger pumps. The unused flow is diverted at the pump, so the Energy Diffuser port at the Valve can be plugged.

## ADVANCED PRESSURE SYSTEMS

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