

# Installation and Set up Exactrix 2" RT Bottom Out Valves for Pumping Systems.

The guarding, valve, shutdown and bleed components are shipped hand tight for disassembly and installation.

The grate coupler and base plate is welded in and pressure checked by the code welder.

The Exactrix base plate, grate coupler, ribs and pressure check plug are often shipped to the R stamp Code welder in a separate shipment.

Installation requires the following procedures.

1. Gas Tape, 3/4", is wrapped on all NPTF fittings. Wrap at least 2 times on small 1/4" fittings and 3 and 4 times for the 2" NPTF fittings. The tail of the wrap follows....it does not lead the thread engagement. Qty. 4 fitting are 2" and must be wrapped well. There are qty. 5, 1/4" nptf fittings for the bleed system. NPTF fittings normally make full engagement with 7 threads. However, The Gas Tape will take up some differences. NPTF fittings have truncated thread roots that set the seal as they are turned in.
2. Bleeding the valve outlet cavity with the hose end valve closed...The Bleed Line. The quarter turn ball valve has a 1/4" line adapter for the bleed line that requires a .138 x .190 range orifice be installed into the black nylon line to secure the ferrule fit of the 1/4 line adapter. The range orifice must be installed at the ferrule fit of the line adapter. Inspect and make sure the range orifice is installed. Route the 1/4" od nylon line to a remote area. Bleed the cavity when changing tanks but give warning to those around you. Use the included black nylon cable ties to support and tie the 1/4" black nylon exhaust line to a remote location with safety in mind.

The 2" nptf valve outlet adapter has four 1/4" nptf bleed valve ports. Since the adapter can be threaded into about 4 positions rotationally, extra port holes for the bleed valve are designed into the adapter. Utilize the correct port for the quarter turn stainless steel ball valve. Gas tape the 1/4" plugs when changes are required.

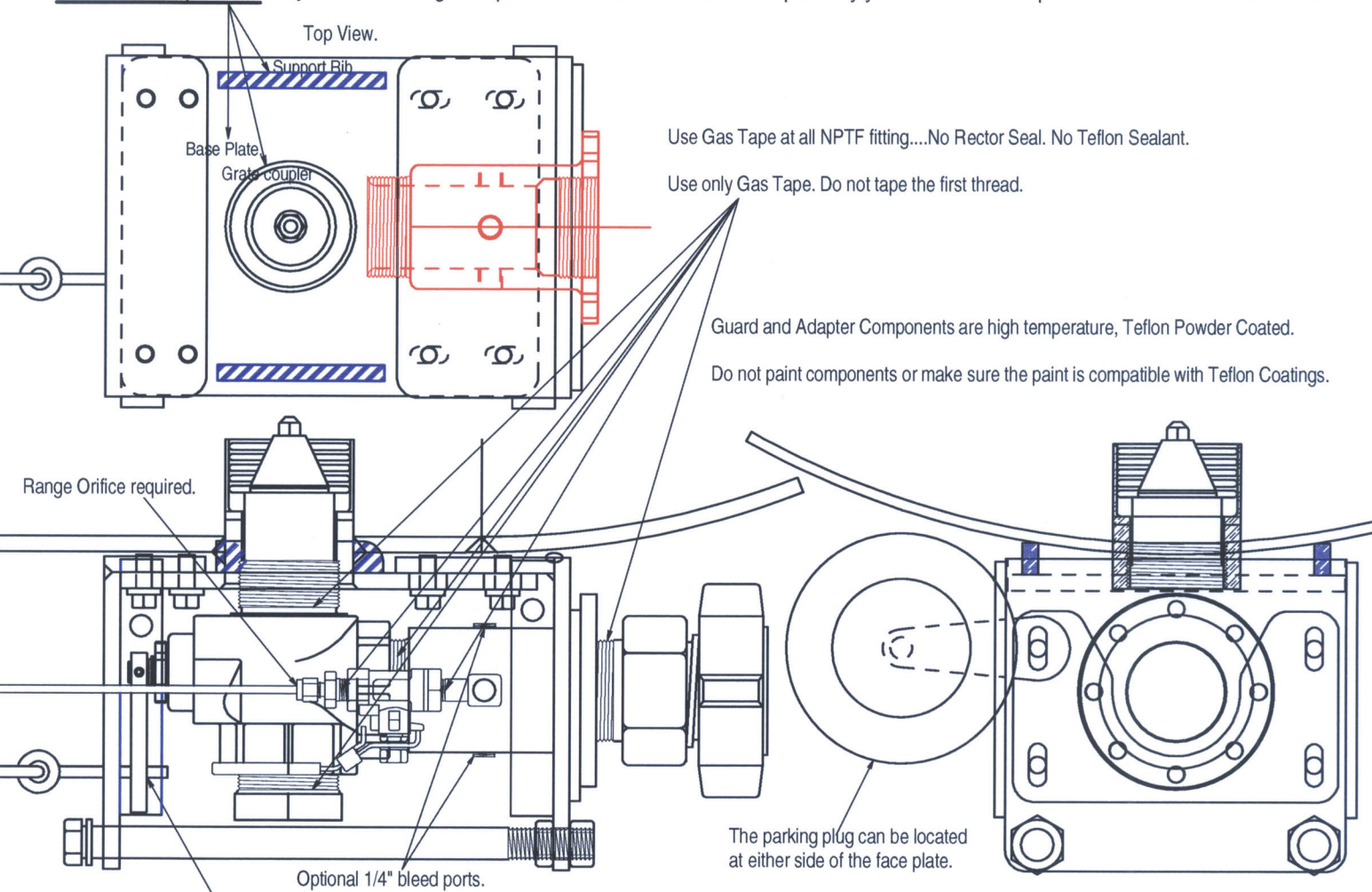
3. Setting the Valve Safety Shutdown. Since the threading and welding at tank valve set up can have a tolerance stack up, two holes must be drilled to hold the safety pin in relation to the valve handle to create a line bore. The valve must be full open to assure maximum flow.

A field line bore, drilling operation is required to set up the safety rope shut down pin hole alignment of the valve lever handle. The drilled through hole is 7/32. The lever handle is moved to the absolute full open position.

Make sure that the 2" RT bottom outlet valve handle is full open against the valve's internal stop and the lever arm is held secure at full open when drilling. With the handle full open drill the 7/32 hole through the rear guard plate and the lever handle simultaneously (one operation) to produce a line bored 7/32 hole.

You will be drilling through two parts to create a maximum open latch of the valve handle. The rope connected eyelet pin is 3/16" diameter....do not thread a nut to the pin. Jerking on the safety rope will pull the pin and allow the spring loaded valve latch arm to close the valve. Test the valve closure several times before loading NH3 in the tank.

Tank Weld Components, the Base Plate, the Grate Coupler, the Support Ribs qty. 2, the 2" test plug and Gas Tape are supplied separately to the code, "R stamp welder". Hydrostatic testing is required and tank certification is required by your state boiler inspector and Hartford Insurance Co.



**The Rope Safety Pin Shutdown Requires a Field Drilling Operation. Follow directions closely for setting the lever arm valve.**