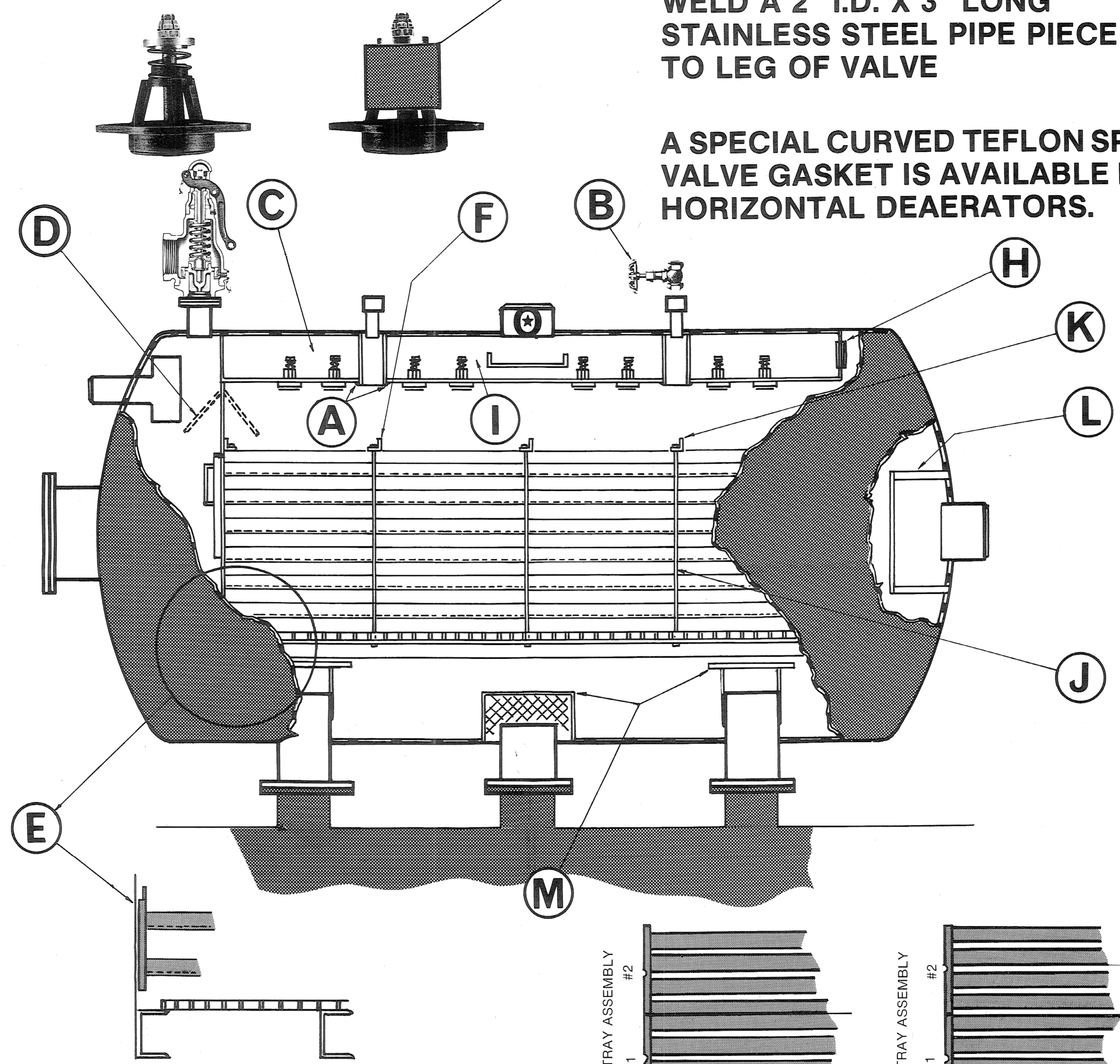


- (A) WATER DISCHARGING (SPEWING) FROM VENT LINE**
 1. INSPECT WELDS AROUND INTERNAL VENT CAPS OR VENT PIPE
 2. SPRAY VALVES LOCATED TOO CLOSE TO VENT PIPE (STEAM DRAWS UP WATER FROM SPRAY VALVE ANGLE THRU VENT)
- (B) DRILLED ORIFICE IN VALVE DISC**
 1. 1/8" HOLE IS A SAFETY FEATURE TO PROTECT DEAERATOR IF VENT VALVES ARE ACCIDENTLY CLOSED DUE TO MAINTENANCE
 2. ORIFICE IS USED WHEN ALL FLOWS REMAIN CONSISTANT.
- (C) NOISE INSIDE DEAERATOR SPRAY VALVE COMPARTMENT.**
 1. SPRAY VALVE SPRINGS ARE DAMAGED, SNAPPED, OR HANGING
 2. OVERTIGHTENED SPRINGS (LOOSE, SPRING TENSION) CAUSES BANGING IN WATER BOX
 3. BROKEN SLATS ON TRAY ASSEMBLIES.
- (D) PRESSURE EQUALIZING DOOR ON TRAY ENCLOSURE.** VERIFY HINGE IS FREE FROM BINDING OR DAMAGE TO CORNERS OF ENCLOSURE.
- (E) TRAY UPSETS**
 1. TRAY SUPPORT GRATING NOT BUTTED AGAINST FRONT OF ENCLOSURE. HEAD OF TRAY ASSEMBLY WILL FALL BETWEEN GRATING & ENCLOSURE WALL (ADD FLAT BAR TO FILL GAP)

- (F) TRAY HOLD DOWN ANGLES OR TROUGHS MUST BE FIRMLY POSITIONED ON TOP OF TRAYS TO PREVENT MOVEMENT OR TRAY UPSETTING**

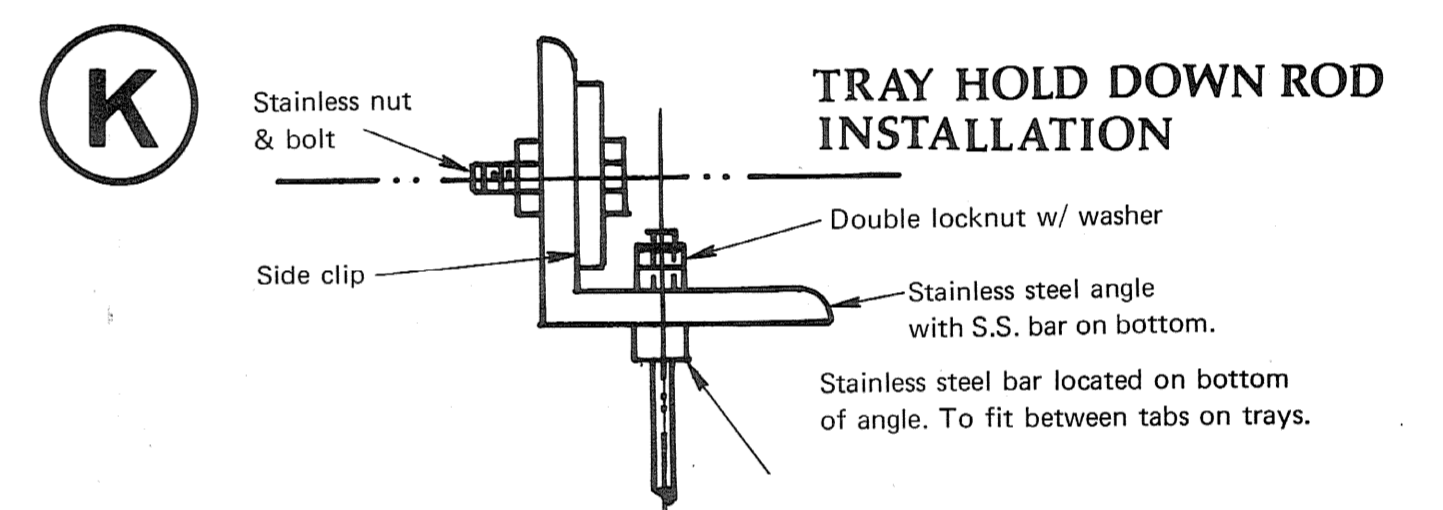
- (H) SPRAY VALVE INSPECTION PLUG VERIFY PLUG IS INSTALLED. (4")**
- (I) SPRAY VALVE SPRINGS CONSISTANTLY DAMAGED IN THIS AREA. (WATER INLET) WELD A 2" I.D. X 3" LONG STAINLESS STEEL PIPE PIECE TO LEG OF VALVE**

NOTE INLET - FOR WATER WITH A TEMPERATURE 30° F BELOW STEAM TEMP. AND LOWER. ABOVE THIS WILL CAUSE DAMAGE TO SPRAY VALVES AND SPRINGS. IF DEAERATOR CAPACITY IS REDUCED ON A PERMANENT BASIS. CALL PEMCO FOR PROCEDURE.



A SPECIAL CURVED TEFLON SPRAY VALVE GASKET IS AVAILABLE FOR HORIZONTAL DEAERATORS.

- (J) INSPECT TRAY HOLD DOWN RODS. VERIFY RODS ARE IN PLACE AND POSITIONED THRU HOLD DOWN ANGLES. "DO NOT USE NYLON INSERTS ON LOCKNUTS)**



DO NOT USE AIR GUN WHEN REMOVING OR INSTALLING SPRAY VALVE LOCKNUTS DO NOT REUSE LOCKNUTS

- (L) CHECK ALL INTERNAL BAFFLES FOR WELD DAMAGE**
- (M) INSPECT OUTLET SCREEN AND EQUALIZING SHIELDS FOR DEBRIS OR DAMAGE.**

- (G) INSTALL TRAY ASSEMBLIES CORRECTLY. TRAYS MUST BE INSTALLED WITH LOCKING TABS FACING UP AND MUST BE POSITIONED SO EACH TRAY HAS A SPACE AS INDICATED**

DEAERATING HEATER PROBLEM CHART

PEMCO DESIGN SERVICE
 TEL. 516-735-6629
 FAX: 516-735-8153
DEAERATING HEATER REPLACEMENT PARTS