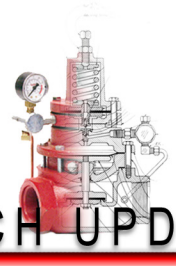


TECH UPDATE #4

Product updates

- **Added Nickel Plating to 4372 6" MAPO Stem Guides**
  Reports from the field have indicated that the **4372** is wearing prematurely around the ID. Adding an electroless nickel plating operation to the **4372** will increase the hardness and further provide lubricity between contact points of the stem and **4372** Stem Guide.

- **Added convolution to YAV Diaphragm**
  We discovered that diaphragms were bursting in YAV regulator. A convolution was added and testing confirmed that the convolution fixed the problem. **Part Number: 5252V**

- **Cut Diaphragm on PRB valves**
  Due to the sharp mating surface, the **110** Diaphragm was easily cut and leaked in the Pressure Reducing Balanced (PRB) regulator. Replace **110** diaphragm and redesign or modify **2740** pivot screw and **2741** diaphragm plate to add more mating surface area to eliminates pinching of the diaphragm.
  New part numbers: **6520** Diaphragm, **6524** Pivot Screw, **6525** Diaphragm Plate
  RRH - Upgrade Kit for existing PRB (**RRH-V**, **RRH-EP**...)

- **2 Inch SMT PBT PO/C-D pressure rating**
  We updated the pressure rating of the 2 inch SMT PBT PO/C-D to 500 PSI. This would allow Kimray to enter large OE markets where 500 PSI valves are required.

- **Replaced fabricated FMT bodies with cast bodies**
  Our 2" FMT fabricated bodies were incorrectly matched and some did not comply with ANSI/ASME standard dimensions. We replaced all fabricated 2" FMT bodies with casted bodies.

- **4" HPMV PC Interference**
  In PC mode, there is a possible interference issue within the topworks. The diaphragm plate contacts the yoke, not allowing the piston to fully close. We shifted the upper portion of the piston assembly upward .187" by extending the piston assembly. The extra preload on the spring will be eliminated by shortening the adjustment screw by the same .187". Shortening the adjustment screw will also eliminate the interference in PO mode when the piston assembly is extended. Adjusting Screw **6560**

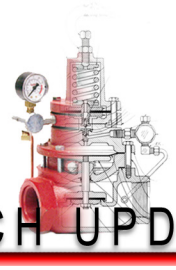
- **Tag YAN2 as pressure vessel**
  Per customer request; YAN2 (DP 200 17.5 Long Drip Pot) now contains product identification and information such as Working Pressure, W.P Temperature, CRN Number, Model Number, and Serial Number.

- **Diaphragm Change for most diaphragms**
  The "KIMRAY" logo, date code, cavity number, compound and diaphragm part numbers will now be indicated on the diaphragm. Also, convolutions will be added to some diaphragms.

- **O-ring Color**
  Added color to o-ring to help with identification. The color is simply a very thin teflon coating and will not change the properties of the o-ring. See Tech Mail 37 for more info.

- **Cotter Pin/Float Yoke issue with Gen II**
  Cotter pins (**363**) used to hold the displacer to the Rod Assys of PF series & side mount Gen II liquid level controllers (LLCs) have been identified in the field as a failure point in vessels with active fluid level cycles. We have modified the Displacer Yoke (**5514C6**) to allow for a 3/16" solid rivet to attach to the Rod Assy of PF series and Gen II series LLCs.

- **Spring in 2" PBT PO**
  The wrong spring has been used in the 2" PBT PO. Replace Spring No. **723** with Spring No. **5188**.



TECH UPDATE #4

- **YDMSS6**
  The YDMSS6 can now be NACE certified.

- **4" HPMV One Piece Cage**
  Use **EFF** for one piece piston and cage when replacing assembly in retrofits. Old piston does not work with the new cage.

- **E3 Valves Service Bulletin**
  Do not use E3 Valves in abrasive or heavy salt water conditions due to stuffing box wear. Use HPMV instead

- **Gen II Float Change**
  Part # **5461** (HDPE) will be replaced on the side mount versions with Part # **6562** (PVC displace) and a **6557** bushing. The new displacer reduces snap spans by ~ 1" water. The displacer will appear grey in color.

- **Remove 6" HPMV Inner Spring for PC**
  Internal tests have confirmed reports from field personnel the control pressure is above 30 psi when using a 6" HPMV in pressure close mode. Tests were conducted that showed the inner spring can be removed lowering the control pressure below 30 psi and still have enough spring force to open the valve.