**Specifications for LPD High Performance “Y” Strainer with Magnet**

Product Specifications

1. **General:**
   1. “Y” Pattern pipeline strainers shall be installed where shown on plans or required by equipment manufacturers.
   2. Y Strainer shall be of the high-performance low pressure drop design with the following minimum CV values;

2” Pipe 120

2 ½” Pipe 160

3” Pipe 227

4” Pipe 457

5” Pipe 600

6” Pipe 976

8” Pipe 1,607

10” Pipe 2,574

12” Pipe 3,200

1. **Product:**
   1. Y Strainer shall be model **“LPD-Mag"** as manufactured by The Metraflex Company®, Chicago, IL.
   2. Strainer body shall be ASTM A126 B Cast Iron
   3. LPD-Mag should be equipped with minimum 8000 Gauss magnet(s)
   4. 6” and smaller shall have one magnet, 8” and larger shall have two
   5. Magnets shall be neodymium
   6. 304 Stainless steel magnet tube shall be installed in a 304 stainless steel drywell
   7. Screens shall be Type 304 Stainless steel.
   8. Screen perforations shall be;
      1. For liquid service for sizes 2” – 3” perforation shall be .045”
      2. For liquid service for sizes 4” – 12” perforation shall be .125”
      3. For steam service for sizes 2” – 6” perforation shall be .045”
      4. For steam service for sizes 8” – 12” perforation shall be .062”
   9. Strainer shall have a screen pitch of 20-25°
   10. Screens shall be removable via a access cover sealed with O-ring.
   11. Strainer shall be manufactured with .25” pressure differential ports, with one placed on each side of the screen.
   12. Strainer shall be equipped with a dry well port. Port shall be .5” for sizes 2” – 3” and 1” for sizes 4” – 12”.
   13. Strainer connection shall be 125 lb. class flange.
2. **Execution:**
   1. Y Strainer shall be installed in accordance to manufacturer’s recommendations and contact requirements.
   2. Pressure drop values shall comply with Fluid Controls Institute Standard for performance testing strainers for liquid service.
   3. Screen perforation shall be in accordance with equipment manufacturer’s