

Coalescer Filter Assembly Construction Process

Weld together the 1 NPS pipe, cap, tee, flange and inlet cap in accordance with drawing 71900-0302.



Figure 1: Inside of the Filter Housing with Sub-Assembly

Weld sub-assembly to the 5 NPS cap and 2 ½ x 1 NPS reducing tee. Weld the 5 NPS pipe inlet pipe to the main housing and place the assembly upside down, refer to Figure 1 and Figure 2.

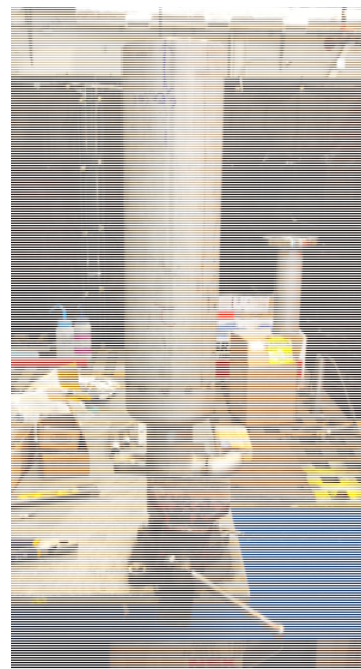


Figure 2: Coalescing Filter Housing Assembly

Gently drop the filter cartridge into place,
Figure 3.



Figure 3: Filter Cartridge (Parker Balston 800-80-DX)

Insert the tie rod, refer to Figure 4.



Figure 4: Tie Rod

Screw on the end cap but do not allow the cap to rest up against the filter.

Weld the tie rod to the inlet sub-assembly, refer to Figure 5.

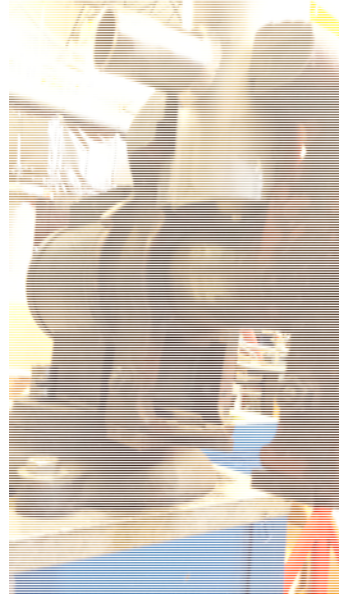


Figure 5: Inlet Sub-Assembly Tie Rod

Pull the end cap and center the rod and the inlet assembly to remove any warping from the weld.



Figure 6: End Cap

Screw down the end cap and insert the centering screws. Adjust the screws as needed and tack weld the screws, refer to Figure 7.

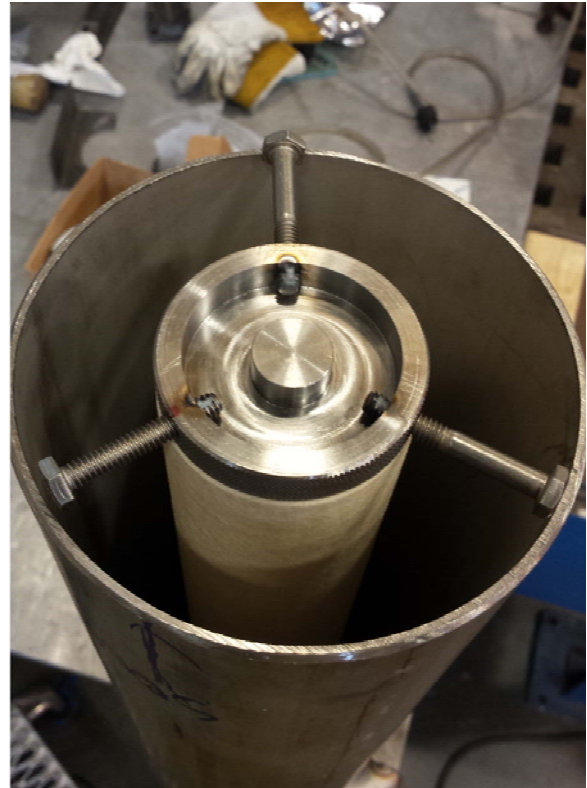


Figure 7: End Cap Screws

Place the 5 NPS bottom cap with the half couplings and weld it to the filter housing, refer to Figure 8.



Figure 8: Coalescer Filter Housing End Cap