

# MADDEN Pump

Elkhart, IN

Tel: 574-295-4292 -- Email: info@maddenpump.com

## REPLACING THE DIAPHRAGM

### M F SERIES PUMPS

1. Turn off the pump and disconnect the inlet and outlet plumbing.
2. Remove the six socket head bolts attaching the Solution Head to the pump body.  
MP065 -- Bolts for Metal Solution Heads  
MP165 -- Bolts for Metal Solution Heads with Double Diaphragm Construction  
MP122 -- Bolts for Plastic Solution Heads  
MP133 -- Bolts for Plastic Solution Heads with Double Diaphragm Construction
3. Remove the old Diaphragm by rotating it counter-clockwise until the threaded stud has disengaged from the piston.
4. Screw on the new Diaphragm, rotating it clockwise until it is snug against the piston. Turn it counter-clockwise if necessary to line up the six bolt holes.
5. Remount the Solution Head to the pump body by tightening the six socket head cap bolts a little at a time progressively around the circle. Tighten until the Solution Head is firmly against the Diaphragm. Due to its resiliency, the Diaphragm will bulge outward slightly. Do not over-tighten.
6. Reconnect the piping, open the valves and check for leaks.
7. Periodically check the six Solution Head bolts for tightness.

### M F Series Diaphragms

#### Primary

MP059A	Neoprene
MP059C	Hypalon
MP059D	Viton
MP059E	Teflon Faced Neoprene
MP059F	Teflon Faced Viton

#### DDB Backup

MP134A	Neoprene
MP134C	Hypalon
MP134D	Viton