

# TWS12. & TWS8.0 PUMPHEAD



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## Installation and Service Instructions



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# Table of Contents

TWS12. & TWS8.0 Pumphead (460 in/oz) Installation & Removal Instructions.....	3
Safety Precautions.....	3
Installation To Motor & Drive .....	3
Pumphead Removal From Motor & Drive .....	3
TXS12. & TXS8.0 Pumphead (240 in/oz) Installation & Removal Instructions.....	4
Safety Precautions.....	4
Installation To Motor & Drive .....	4
Pumphead Removal From Motor & Drive .....	4

# TWS12. & TWS8.0 Pumphead (460 in/oz) Installation & Removal Instructions

## Safety Precautions

### **⚠ CAUTION**

**!**

**The pumphead and drive contains high strength magnets. Read instruction before operating this unit. Decoupling this pump may damage the driven magnet and gear assemblies. Install a bypass valve to prevent decoupling.**

**Maximum decoupling limit for TWS12 = 100 PSI. Maximum decoupling limit for the TWS8.0 = 150 PSI**

## Installation To Motor & Drive

Installation of driving magnet (24) and housing (25) required prior to pumphead installation.

1. Install pumphead onto motor mate housing (25). The coupling magnets (24 & 20) will initially attract by approximately 1/2 inch.
2. Install two 8-32 x 1 fasteners (18) in two through holes (positions 3 & 9 o'clock) of the mounting plate (22) and thread fasteners into matching threaded holes of motor mate housing (25) until fastener (18) heads are flush with mounting plate (22). Ensure magnet cup (21) does not interfere with driving magnet (24) bore.
3. Install two 8-32 X 1 fasteners (18) into the threaded holes of the mounting plate (22). Thread the two fasteners (18) into the mounting plate (22) until fastener tips protrude through rear of mounting plate by 3/8 inch. These two fasteners will serve as jackscrews to control pump movement during installation.
4. Complete pump installation onto motor mate housing (25) by alternately tightening fasteners (18) in step 2 above, and loosening jackscrews (18) in step three above. Continue this procedure until mounting plate (22) is flush on motor mate housing (25).
5. Install three remaining fasteners (18) into though holes of mounting plate (22) and thread into motor mate housing (25).
6. Remove the two jackscrews (18) from step 3 above.
7. Torque five fasteners (18) to 370 in-oz.
8. Install fittings on inlet and outlet ports.

## Pumphead Removal From Motor & Drive

1. Remove five 8-32 x 1 fasteners (18) from mounting plate (22).
2. Install two 8-32 x 1 fasteners into threaded holes of mounting plate (22).
3. Remove pumphead from motor mate housing (25) by tightening two jackscrews (18), alternating between two screws. Ensure that pumphead will not fall free during this procedure. Continue this procedure until pumphead is free from motor mate housing (25).

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# TXS12. & TXS8.0 Pumphead (240 in/oz) Installation & Removal Instructions

## Safety Precautions

### **⚠ CAUTION**

**!**

**The pumphead and drive contains high strength magnets. Read instruction before operating this unit.**

## Installation To Motor & Drive

Installation of driving magnet (24) and housing (25) required prior to Pumphead installation. See 70009-1 for motor mate instructions.

1. Install pumphead into motor mate housing (25). The two magnets (24 & 20) will couple completely.
2. Install five 8-32 x 1 fasteners (18) through unthreaded holes of the mounting plate (22) until fastener (18) heads are flush with mounting plate (22). Ensure magnet cup (21) does not interfere with driving magnet (24) bore.
3. Torque five fasteners (18) to 370 in-oz.
4. Install fittings on inlet and outlet ports.

## Pumphead Removal From Motor & Drive

1. Remove five 8-32 x 1 fasteners (18) from mounting plate (22).
2. Remove pumphead from motor mate housing (25). Ensure the magnet cup (21) does not interfere with driving magnet (24) bore.







