Model: MPD-READY® and MPD-READY® EXPRESS Serial #: See "Applicable Systems"	Aug. 27, 2018
Product Bulletin # MPD-001	

Fitting Upgrade

A fitting upgrade kit for increased pressure rating of pressure transmitters is now available. After installation of the kit, the pressure transmitters on the Standpipe and RCD will be rated for 10,000 PSI and pressure transmitters on the manifold will have a pressure rating of 5,000 PSI. The kit will be a standard feature for MPD-READY® GEN2 and EXPRESS systems going forward.

Applicable Systems

MPD-READY® MPD-001 and MPD-002.
MPD-READY® EXPRESS: Systems installed prior to September, 2018.

Installation Kit

Canrig kit P/N AY24278 contains the necessary fittings to perform the installation and will be provided under MPD-RMA16238 and MPD-RMA16241. Each kit consists of the following components:

Table 1: AY24278 Fitting Kit, Pressure Transducer

Item	P/N	Description	Qty
1	H15-070102-08-08	Adapter, Male 1/2 JIC, Male 1/2 NPT	6
2	H15-070104-08-08	Adapter, Female 1/2 JIC, Female 1/2 NPT	6
3	TK1-51	Seal, Pipe, C/W Teflon, 50 ML, 10/CS	1

Procedure

Up to ten (10) pressure transmitters are installed at three (3) different locations per rig, and the installation instructions will vary depending on the location.

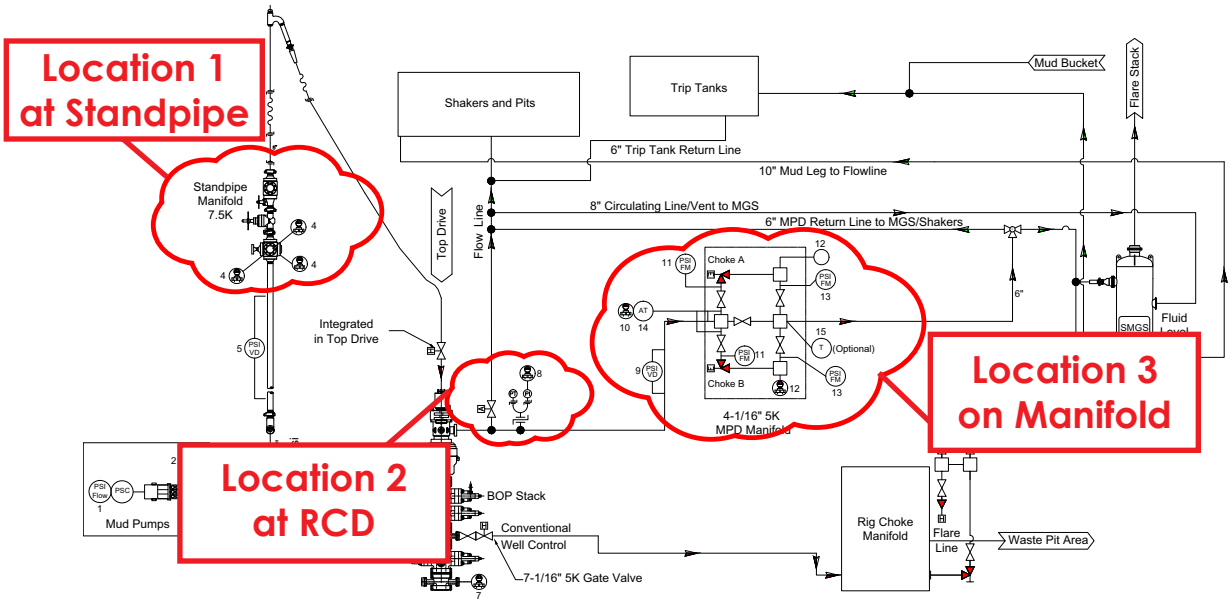

Figure 1: MPD System Overview (MPD-READY®)

Location 1 (Standpipe) and Location 2 (RCD)

MPD-READY® GEN2 systems are equipped with 3 pressure transmitters installed at the standpipe and 1 pressure transmitter installed at the RCD. MPD-READY® EXPRESS is equipped with 1 pressure transmitter at the RCD.

Warning!

Perform lock out and tag out of electrical equipment in accordance with local procedure and ensure that all system pressure is released prior to beginning installation.

1. Remove the transmitters (Item 1) and discard the Swagelok fittings (Item 2 and Item 3). Refer to Figure 2.

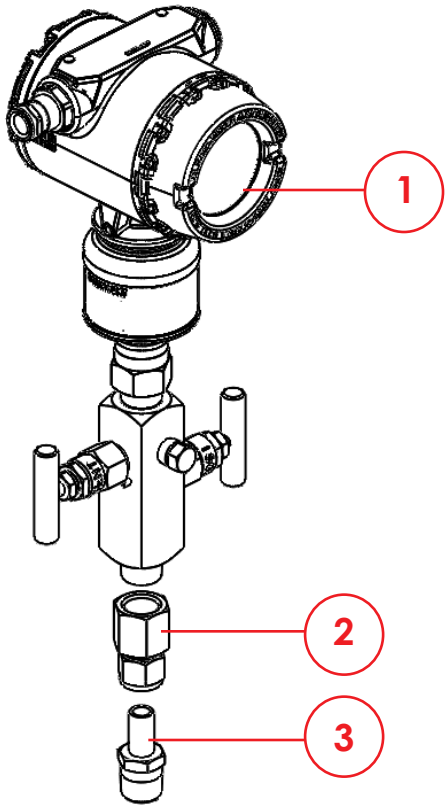

Figure 2: Transmitter assembly (with Swagelok fittings)

2. Apply a thin layer of sealant TK1-51 on the Male NPT tread of the transmitters and reinstall the transmitters (without fittings). Verify installation by pressure test to working pressure.

Location 3 (on manifold)

1. There are six (6) pressure transmitters installed on the MPD Manifold. Remove the transmitters (Item 1) and discard the Swagelok fittings (Item 2 and Item 3). Refer to Figure 2.

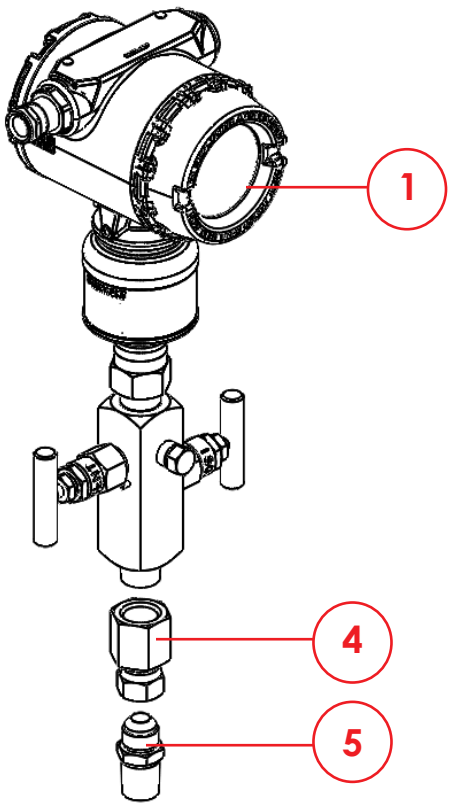

Figure 3: Transmitter assembly (with JIC fittings)

2. Apply a thin layer of sealant TK1-51 on the male NPT thread of the transmitter. Install the female NPT connection of fitting, part number H15-070104-08-08 (Item 4) on the transmitter.
3. Apply a thin layer of sealant TK1-51 on the Male NPT thread connection of fitting H15-070102-08-08 (Item 5) and install at the appropriate location on the manifold.
4. Orient the transmitter appropriately and install the female JIC fitting connection (item 4) on the Male JIC fitting connection (item 5) and tighten the nut with a wrench until slight resistance is felt.
5. Make a mark on a flat of the nut of the female fitting (item 4) with a marking pen at the 6 o'clock position as well as the corresponding position on the hex of the male fitting (item 5)
6. Using a suitable wrench to hold the male fitting (item 5), tighten the nut of the female fitting (item 4) for two (2) flats (1/3 Turn).
7. Verify that the mark on the nut is at the 10 o'clock position after tightening.

Verifying Installation

1. Remove lock out and tag out devices from the machine per local procedures.
2. Power up unit and perform full systems function test.
3. Verify the installation by pressure test to working pressure.
4. Continue normal operations.