



# THREAD-O-RING™ Fittings

*For Sizes: 2- and 3-inch*



T.D. Williamson, Inc.

Bulletin No: 2100.001.01

Date: April 2006

Cross Indexing No: n/a

Supersedes: 2100.001.00 (2/99)



■ THREAD-O-RING™ Fittings

## Description

THREAD-O-RING™ Fittings (T-O-R) are used with TDW STOPPLE® Plugging Machines as purge and equalization fittings. They can also be installed during new construction and used for blowdown connections on either side of a block valve. T-O-R Fittings are available in two sizes: 2" and 3" (DN 50 and DN 80).

The 2" T-O-R Fitting will accept the corrosion test coupons, thermometer wells, gauge adapters and other instrument probes.

The 2" T-O-R Fitting has a maximum operating pressure of 3600 psi (248 bar). The 3" fitting has a maximum operating pressure of 1500 psi (103 bar). Both sizes have a maximum operating temperature of 180°F (82°C).

## Features

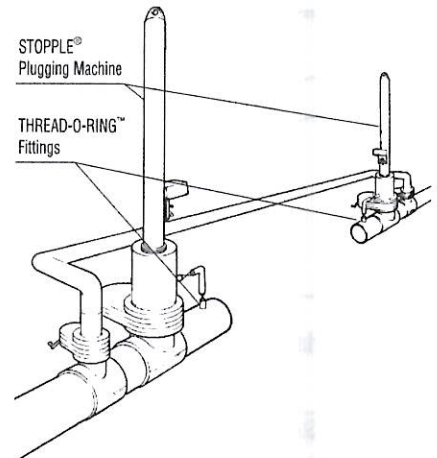
The complete THREAD-O-RING Fitting consists of: cap, plug, O-ring, and nipple.

THREAD-O-RING Fitting taps can be made without shutdown using the TDW T-101 Drilling Machine or the 360 Tapping Machine.

Two-inch T-O-R Plugs are set using either the T-101 Drilling Machine or the 360 Tapping Machine. Three-inch T-O-R Plugs can be set with the 360 Tapping Machine only.

One of the many uses of the THREAD-O-RING Fitting is as a purge and equalization fitting during plugging operations on pipelines and plant piping.

## ■ Typical Setup Using THREAD-O-RING™ Fittings



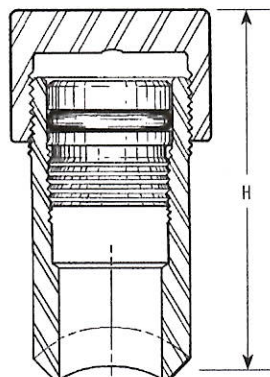
TDW THREAD-O-RING™ Fittings are used for blowdown of the isolated pipe section following a double STOPPLE® operation.

ISO 9001 Certified

**Toll Free**  
**1-888-TDWmSon (839-6766)**



# **THREAD-O-RING™ Fittings**



## **Dimensions**

Size		'H' for pipe smaller than 6"		'H' for 6" and larger pipe		Min. Valve I.D.		Weight		Part Number
Inches	mm	Inches	mm	Inches	mm	Inches	mm	Lb.	Kg.	
2	50	5-5/16	135	5-3/16	132	2-1/16	52.4	6-1/2	2.9	See Chart
3	80	4-3/4	121	4-3/4	121	3-1/16	77.8	12-3/8	5.6	06-1387-0000

**T R - N N B B - P M R R - C C**

**2" (DN 50) TDW THREAD-O-RING™ Fitting**

## **Nipple Material**

"NN"	Nipple Material	Part Number
00	Steel, Carbon ASTM A-333 GR 6	00-7148-00xx
01	Steel, Stainless 304L ASTM A-312	00-7148-01xx
02	Steel, Stainless 316L ASTM A-312	00-7148-02xx
03	Aluminum, 6061-T6	00-7148-03xx

## **Weld Bevel**

"BB"	Pipe Size	Detail
00	6.000 and larger	B
01	5.000 Nom. or 5.562 OD	A
02	4.000 Nom. or 4.500 OD	A
03	3.500 Nom. or 4.000 OD	A
04	3.000 Nom. or 3.500 OD	A
05	2.500 Nom. or 2.875 OD	A
06	2.000 Nom. or 2.375 OD	A



Detail A



Detail B

## **Threaded Cap**

"CC"	Cap Material	Part Number
00	ASTM A105	00-0200-0001
02	ASTM A-312 304L SST	00-0200-0015
03	ASTM A-312 316L SST	00-0200-0021
04	Aluminum 6061-T6	00-0200-0022
06	ASTM A350 LF2	00-0200-0019

## **O-Ring Material**

"RR"	O-Ring Material	Part Number
00	No O-Ring	N/A
01	Buna-N (Standard) N674-70	00-0118-0006
02	Viton V747-75	00-1248-0002
03	Neoprene C873-70 (Std)	00-1947-0006
04	Ethylene Propylene E540-80 (EPDM)	00-2977-0001
05	Buna-N (Low-Temp) N103-70	00-3079-0001
06	Teflon	00-1327-0001

## **Plug Material**

"PM"	Plug Material	Part Number
00	ASTM B-16 Yellow Brass (Std. Mat'l)	00-7147-0000
01	ASTM C1213/1215 CF Stl.	00-7147-0001
02	ASTM 304 CF SST	00-7147-0002
03	ASTM 316 CF SST	00-7147-0003
04	Aluminum, 6061-T6	00-7147-0004
05	ASME SA350 LF2	00-7147-0005
12	ASTM A105 Normalized	00-7147-0012
13	ASTM B148 C95400 Al Bronze	00-7147-0013
14	ASTM B21 C46400 Naval Brass	00-7147-0014
15	ASTM 304L SST	00-7147-0015
16	ASTM A350 LF2 CL1 Normalized Per NACE MR0175	00-7147-0016