

# THREAD-O-RING™ Fittings

For Sizes: 2- and 3- inches



T.D. Williamson

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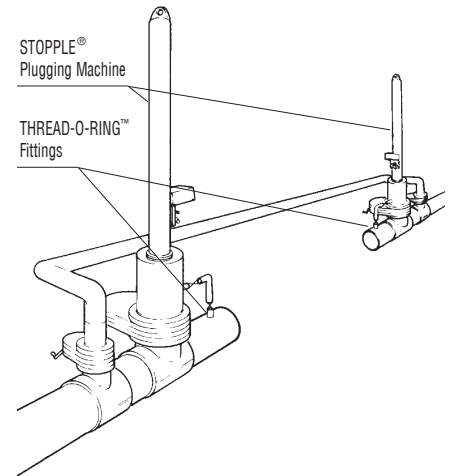
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## Typical Setup Using THREAD-O-RING™ Fittings



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

### 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 in. and 3 in. (DN 50 and DN 80).

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

The 2 in. T-O-R Fitting has a maximum operating pressure of 3600 psi (248 bar). The 3 in. 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.

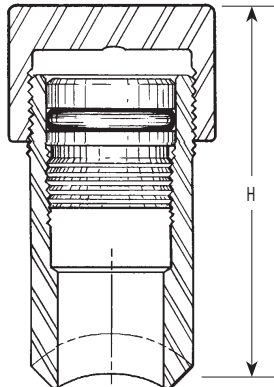
When properly equipped, 2- and 3-inch T-O-R Plugs are set using the T-101 Drilling Machine. Additionally, the 360 Tapping Machine can set 3-inch plugs.

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.

Patented in the United States and in other countries.  
ISO 9001 Certified



# 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
inch	mm	inch	mm	inch	mm	inch	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*

\* This part number is for use with a 360 Tapping Machine only. If a T-101 compatible plug is required, contact a TDW representative for the correct part number.

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

2 in. (DN 50) TDW THREAD-O-RING™ Fitting

## Nipple Material

"NN"	Nipple Material	Part Number
00	Steel, Carbon ASTM A-333 GR 6	00-1023-0333-XX
01	Steel, Stainless 304L ASTM A-312	00-1023-0359-XX
02	Steel, Stainless 316L ASTM A-312	00-1023-0358-XX
03	Aluminum, 6061-T6	00-1023-0360-XX

## Weld Bevel

Nipple			
"BB"	Part Number	Pipe Size	Detail
00	00-1023-XXXX -51	6.000 and larger	B
01	00-1023-XXXX -12	5.000 Nom. or 5.562 OD	A
02	00-1023-XXXX -03	4.000 Nom. or 4.500 OD	A
03	00-1023-XXXX -04	3.500 Nom. or 4.000 OD	A
04	00-1023-XXXX -05	3.000 Nom. or 3.500 OD	A
05	00-1023-XXXX -06	2.500 Nom. or 2.875 OD	A
06	00-1023-XXXX -07	2.000 Nom. or 2.375 OD	A



Detail A



Detail B



# THREAD-O-RING™ Fittings

## Threaded Cap

"CC"	Cap Material	Part Number
00	ASTM A105 (Std. Mat.)	00-0200-0001
02	ASTM A312 304L SST	00-0200-0015
03	ASTM A312 316L SST	00-0200-0021
04	Aluminum 6061-T6	00-0200-0022
06	ASME A350 LF2 CL1	00-0200-0019

## Plug Material

"PM"	Plug Material	Part Number
00	ASTM B16 C36000 H02 Brass (Std. Mat.)	00-4172-0100
01	ASTM C1213/1215 CF Stl.	00-4172-0200
02	ASTM 304 CF SST	00-4172-0600
03	ASTM 316 CF SST	00-4172-0400
04	Aluminum, 6061-T6	00-4172-1200
05	ASME SA350 LF2 CL1	00-4172-0500
06	ASTM 303 CF SST	00-4172-0300
08	4140 CF Steel	00-4172-0800
12	ASTM A105 Normalized	00-4172-1300
13	ASTM B148 C95400 Al Bronze	00-4172-1400
14	ASTM B21 C46400 Naval Brass	00-4172-1500
15	ASTM 304L SST	00-4172-1600
16	ASTM A350 LF2 CL1 Per NACE MR0175	00-4172-1700

## O-Ring Material

"RR"	O-Ring Material	Part Number
00	No O-Ring	N/A
01	Buna-N N674-70 (Std. Mat.)	00-0118-0006
02	Fluorocarbon V747-75	00-1248-0002
03	Neoprene C1276-70 (Std. Mat.)	00-1947-0006
04	Ethylene Propylene E540-80 (EPDM)	00-2977-0001
05	Buna-N (Low-Temp.) N103-70	00-3079-0001
06	PTFE	00-1327-0001
07	Neoprene 882-K	00-1808-0003
08	Silicone Rubber	00-3781-0006
09	Neoprene 882-P	00-4677-0006
10	Kalrez	00-4353-0001
11	Fluorocarbon GF	00-6732-0002
12	PTFE Encapsulated Fluorocarbon	00-6762-0002
13	Special Nitrile N-497	00-6932-0001
14	Fluorocarbon V1238-95	00-8509-0002



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