



Met-O-Seal Coupling

**Serving The Nuclear Industry**

Canada<sup>🇨🇦</sup>  
[www.thorburnflex.com](http://www.thorburnflex.com)

## High Quality Custom Flexible Piping Systems

Thorburn Flex Inc is a proven industry leader in the cost effective design, development, manufacturing and supply of ultra-high quality custom flexible piping systems. Thorburn Flex Inc is committed to a policy of continuous development and research to provide flexible piping products that set the industry standard for quality, safety, durability and ease of handling.



## Thorburn's Met-O-Seal

### Product Description:

Met-O-Seal is an all metal sealing quick action coupling specifically designed to replace elastomeric "O" ring couplings or flange connectors in applications where leakage is a critical problem.

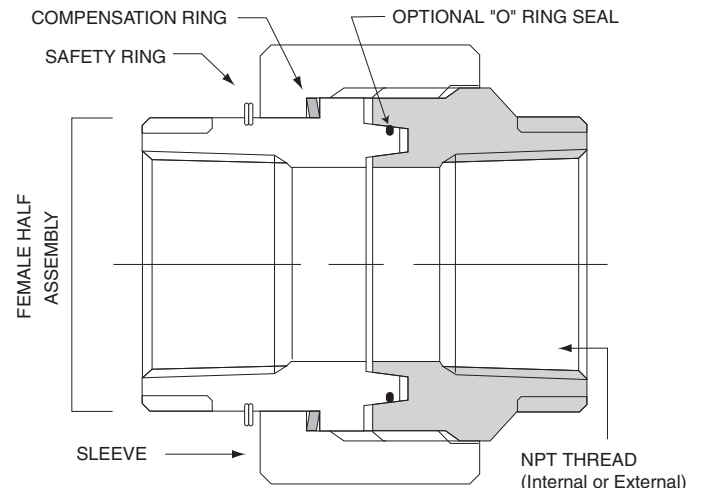
- Fluids and elusive gas service
- Cryogenics to 1500°F
- Full vacuum to 10000 psi
- Full flow to double end shut-off
- Dead tight sealing
- Compact design
- Low torque installations
- Thermal cycling compensation
- Safe residual pressure vesting



## Met-O-Seal Technical Data

Met-O-Seals are medium pressure and low temperature couplings specially designed for leak proof operation with cryogenic liquids (LN2, LOX, LH2) and gaseous service.

- Ion exchangers "Met-O-Seal" replace conventional flanges to allow wrench free operation
- Steam piping system high temperature/pressure (up to 800oF/3000 psi)
- Designed for use with liquids or gases from ambient to cryogenic
- Leak rates (when connected)  $<1 \times 10^{-9}$  std. cc. He/S.
- Repeatedly reusable low temperature metal to metal seal
- Unique automatic safety feature vents residual pressure prior to complete uncoupling
- Only light torque tightening by hand or wrench to operating pressure
- Compact and available in any combination of threaded, butt weld or socket weld to reduce installation cost
- Easily disconnected at cryogenic temperatures
- Little or no frost balling
- Designed and tested to ASME Sec III, B31.1



Part Number	Size	Working Pressure (PSI)			Outside Diameter	Overall Length
	S.A.E. (In)	Socket	Thread	Butt Sch 10	S.A.E. (In)	S.A.E. (In)
NMT3TL04	0.250	4216	5184	4045	1.36	2.50
NMT3TL05	0.375	4254	4906	3276	1.50	2.50
NMT3TL08	0.500	4254	4810	3179	1.80	2.50
NMT3TL12	0.750	3787	4734	2650	2.00	2.75
NMT3TL16	1.000	3470	4215	2307	2.50	2.75
NMT3TL32	2.000	3437	4040	2150	3.75	4.50
NMT3TL48	3.000	3329	3953	1862	5.50	4.50
NMT3TL64	4.000	3166	3329	1122	6.90	4.50

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European  
Conformity



ISO  
9001



B31.1,  
B31.3



ASME "NPT"  
Sec. III Class 1



ASME "U"  
Sec. VIII Div. 1



N285.0, B51  
CGA CR96-001



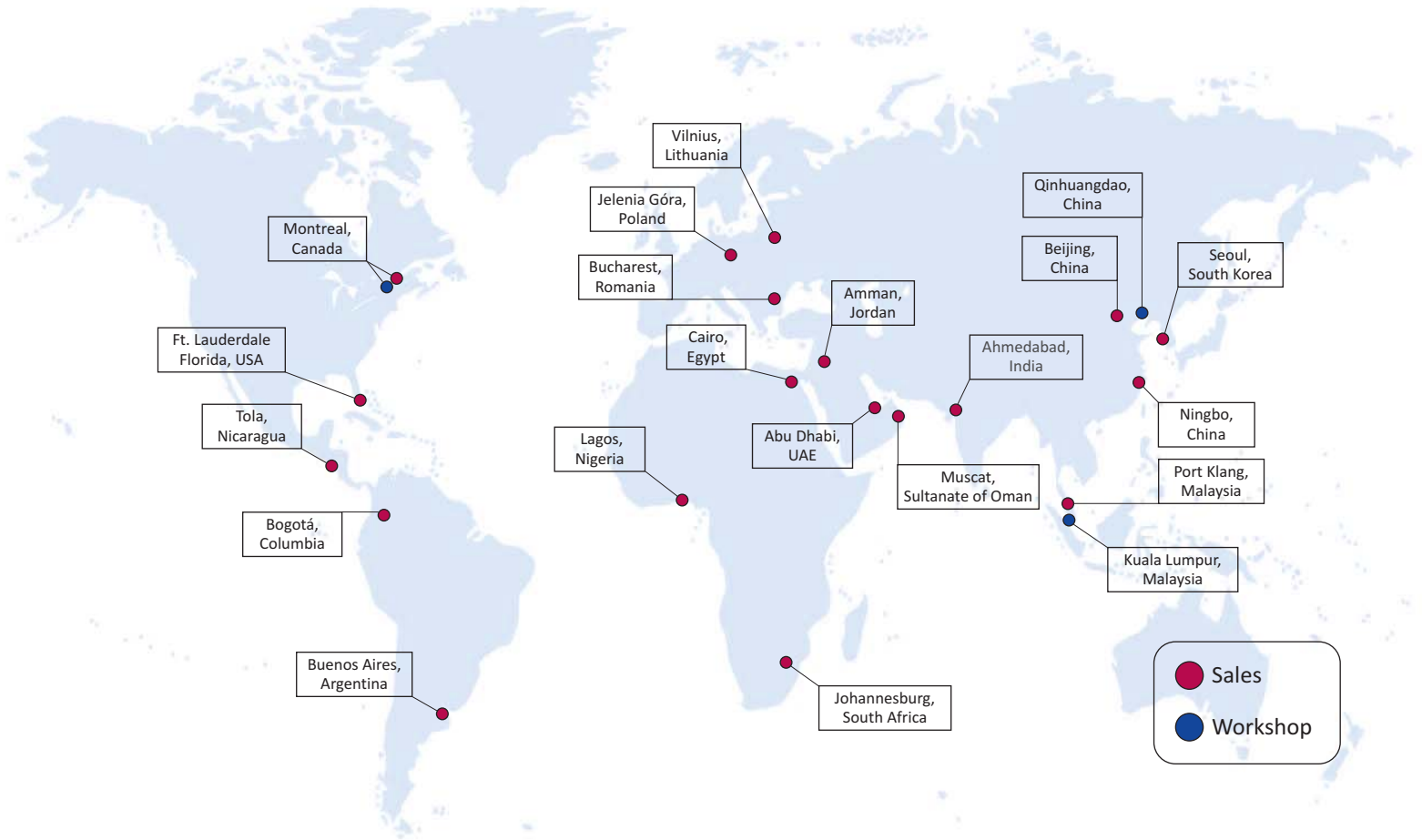
97/23/EC  
Module H



UL  
536

ISIR Romania | CNCAN Romania | EN 13480-2002 | HAF 604 China | TSG China  
 (CRN for all Canadian Provinces)

# Thorburn's Global Presence



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