

# 耐震

## 防脫接頭

T-BAR restrained joint



**SHIN NAN**

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# T-Bar耐震防脫接頭

## T-Bar Restrained Joint

隨著工商業的發達及人民生活品質的提升，對自來水供應之品質及服務要求愈來愈高。由於台灣處於特殊之地理位置，頻繁的地震、颱風、水災、旱災及地層下陷等自然界的災害造成管線損壞，因而停水、限水及水質等問題，均會對民眾的日常生活產生重大的影響及不便。

Shin Nan T-Bar Type Restrained Joint Ductile Iron Pipe System is a time-tested product providing a chain-locked type jointing system under all rated working pressure.

T-Bar耐震防脫接頭係依據ISO 10804-1 1996 ( E ) "Restrained joint system for ductile iron pipelines" 規範設計製作，為利用法蘭及不鏽鋼條緊緊扣住承口和插口接頭部位，達到防脫效果。耐震防脫接頭之管線，於地震時產生地盤變動或發生土壤液化的情況下，能產生鍊鎖狀之機能，確保民生用水安全及穩定的供應。

The T-Bar restrained joint is designed according to ISO 10804-1 1996 (E) "Restrained joint system for ductile iron pipelines". The joint is consisted of a traditional push-in T type socket, a welded stays ring at the spigot end, two split flanges and their T-Bar bolts and nuts. When connecting socket and spigot by the flanges, the joint system become leak tightness and constrained.

### ◎ T-Bar耐震防脫接頭之優異特性：

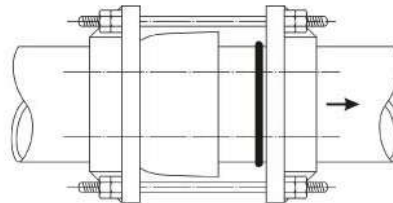
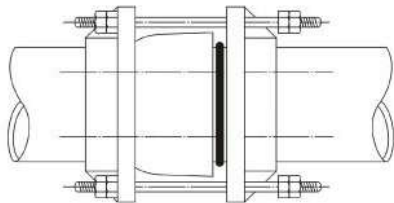
#### Outstanding Properties of Shin Nan Restrained Joint

1. 鍊鎖狀之機能耐震防脫，適用於地盤變動或土壤液化區域。

2. 具有接頭之可撓性（3°~5°）及伸縮性，適用於地層下陷之區域。

1. Chain-locked type T-Bar joint suitable for connecting pipes in the seismic area and areas having sliding and unstable grounds.

2. It is designed to permit considerable angular deflection (3°~5°) as well as longitudinal draws and contraction in the line without leakage.



#### 耐震防脫接頭容許位移量

Allowable longitudinal draw

單位：mm  
Unit: mm

標稱管徑 DN	容許位移量 Allowable longitudinal draw	標稱管徑 DN	容許位移量 Allowable longitudinal draw
80	16	350	22
100	18	400	18
150	21	450	23
200	20	500	20
250	22	600	17
300	22	700	26

#### 耐震防脫接頭螺栓孔數及螺栓直徑

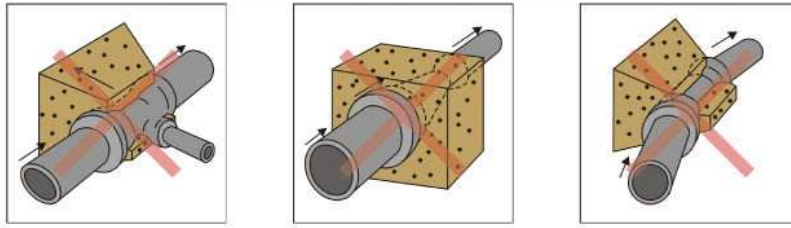
Number and size of T-Bar

單位：mm  
Unit: mm

標稱管徑 DN	工作壓力 (bar) Working Pressure(bar)							
	10		16		25		40	
	T-Bars		T-Bars		T-Bars		T-Bars	
	孔數 Number	螺栓直徑 Diameter	孔數 Number	螺栓直徑 Diameter	孔數 Number	螺栓直徑 Diameter	孔數 Number	螺栓直徑 Diameter
150	4	10	4	10	4	10	4	10
200	4	10	4	10	4	12	6	12
250	4	10	4	12	6	12	6	16
300	4	12	6	12	6	16	6	16
350	4	12	4	16	6	16	6	20
400	4	16	4	20	6	20	8	20
450	4	16	6	16	8	16	10	20
500	6	16	6	20	8	20	12	20
600	6	20	8	20	12	20	16	20
700	12	20	16	20	16	24	-	-

3. 抵抗外力拉伸不需固定擋土，降低施工成本縮短工期。

3. Eliminating the necessary for external support and concrete blocks.



4. 水密性特佳，避免遭遇地震時水資源流失，確保維生供水系統正常運作。

5. 機械性質優異，具有高延展性可承受強烈的振動。

6. 耐腐蝕性佳，適用於各種酸鹼土質區域。

7. 抗磨耗，經久耐用使用壽命長。

8. 接管施工容易，維護費用低。

4. Avoiding the damages from earthquake which can cause mass lost in pipeline system.

5. Excellent mechanical properties to be withstand large impact and vibration fore.

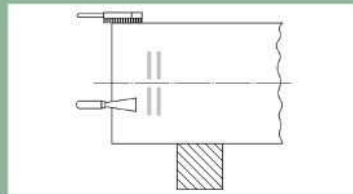
6. Anticorrosive protection suitable for the most aggressive soil condition.

7. Abrasive resistance inside the pipe last for a long time.

8. Easy to installation and maintenance free (low maintenance cost).

## 耐震防脫接頭安裝說明：

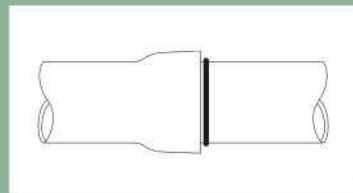
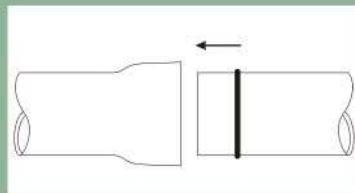
### Jointing of T-Bar Restraint Joint



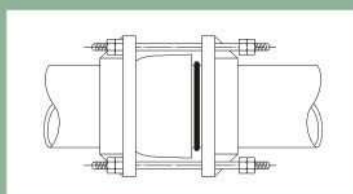
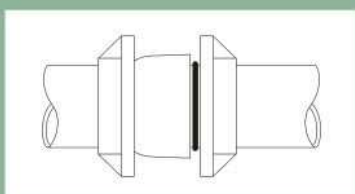
1. 清潔承口及管尾端，承口內部及管尾外部的清潔，可使用抹布、刷子等加以清潔之。  
Cleaning the inside of socket and outside of spigot by brush or driver.



2. 橡膠圈之清潔及安裝，使用軟性材質抹布來清潔橡膠圈避免損傷橡膠圈，橡膠圈應確實裝入溝槽內。管線裝接前，應於管尾端外部塗上無毒性之潤滑油。  
Cleaning the rubber gasket by waste cloth. Apply lubricant to the outside of spigot end and surface of gasket. Insert the gasket into the socket and confirm that the gasket is seated properly.



3. 插口端筆直插入承口內至承口端面接近焊接綫圖，並檢查橡膠圈是否脫離。  
Push the spigot end in straight alignment into the socket. The welded line shall be next to the socket and confirm that the gasket is set properly.



4. 承口及插口端分別裝置防脫法蘭後，將螺栓依序穿入法蘭上之螺栓孔，於螺栓兩端分別鎖上螺帽，並設定兩端螺帽之間距將其固定之。  
Setting the restrained flanges on the socket and spigot ends separately. Screw the tie-bars and nuts to the allowable longitudinal draw valves.



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