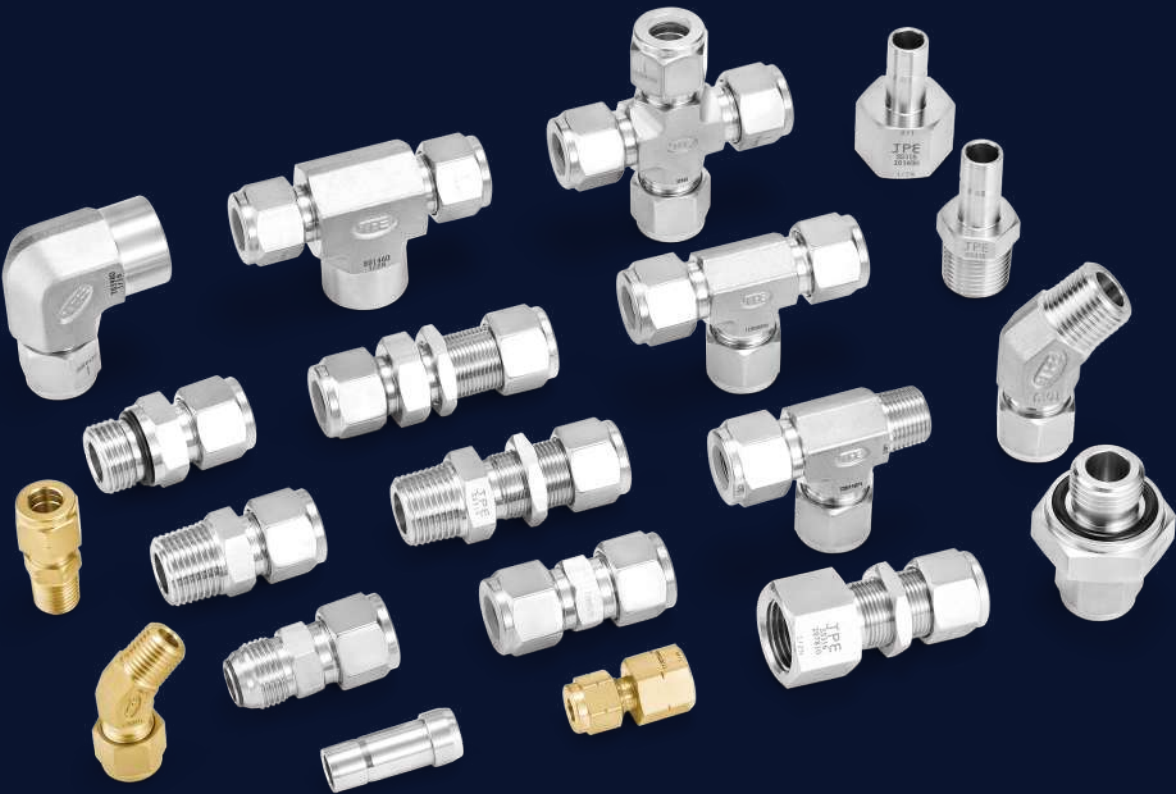


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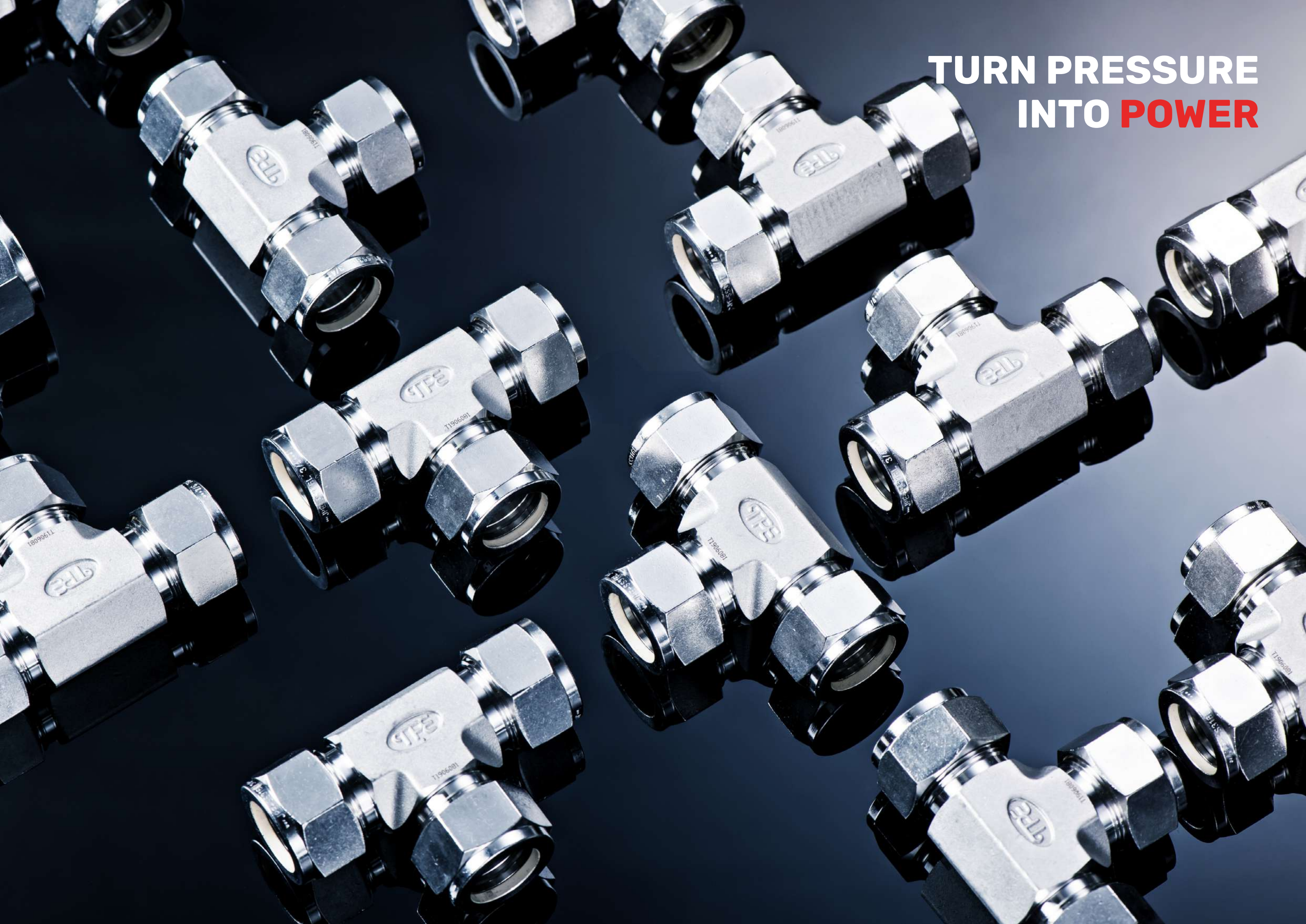
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INSTRUMENT TUBE FITTINGS
儀表卡套接頭

TURN PRESSURE
INTO **POWER**



INSTRUMENT TUBE FITTINGS

儀表卡套接頭



JPE 儀表卡套接頭在管道連接處提供防滲漏、無扭矩密封，從而杜絕了儀表系統和工藝管道系統中嚴重的洩露危害。

JPE 儀表卡套接頭安裝的所有動作都是沿管道軸向移動，而非旋轉式動作，因此安裝中沒有傳遞任何扭矩到管道系統，故也消除了管道系統的初始張力。整個系統必須確保安全、穩定的性能、材料兼容性、適當等級及正確安裝，並透過間隙檢測規確認首次安裝的完整緊固。其操作和維護是系統設計者和後天用戶共同的責任。

JPE 儀表卡套接頭提供了防止液體滲漏的保證，可以免除儀器或加工過程時管中液體滲漏而造成的危害。為確保正常動作，JPE 卡套接頭由四個精密部分所組成：螺母、後卡套、前卡套、本體。在嚴格的品質管制下，品質良好，尺寸偏差極小。

JPE 儀表卡套接頭安裝容易，不需要使用特別的工具。

JPE Instrument Tube Fittings provide a leak-proof, torque-free seal at all tube connections and eliminate costly, hazardous leaks in instrumentation and process tube.

All the action in the fitting assembling moves along the tube axially instead of with a rotary motion. Therefore, during installation, there will be no torque to the tube system; and the initial tension in tube system can be also eased. Total system design must assure the safety, trouble-free performance, material compatibility, adequate ratings, proper installation and inspected by gap gauge to assure tighten completely in first installation. Operation and maintenance are the responsibilities of the system designer and user.

JPE Instrument Tube Fittings perform leak-proof sealing to ensure the safety of the instrumentation, process, and control systems. To assure reliable performance, JPE Instrument Tube Fittings are composed of four precision-made components Nut, Back Ferrule, Front Ferrule, and Body. All manufactured to very stringent tolerances under rigid quality control procedures. The consistency and quality of these matched components have permitted their use in many difficult and severe devices.

JPE Instrument Tube Fittings are easily installed with no special tools required.

TUBE DATA

配管技術資料

選擇配管之必要性

TUBE SELECTION NECESSITY

適當選用處理卡套管，並與 JPE 儀表卡套接頭正確安裝使用，皆可在各種流體應用下提供無洩漏的系統和可靠的服務。為了確保最卓越的性能，請按照目錄說明裝配 JPE 儀表卡套接頭。

Tubes properly selected and handled, combined with properly installed JPE instrument tube fittings, will give you a leak-tight system and provide reliable service in a wide variety of applications. For assurance of reliable performance, please assemble JPE instrument tube fittings following catalog instructions.

選用卡套管的考慮因素

TUBE SELECTION CONSIDERATIONS

- 金屬卡套管的材質的硬度須比接頭材質軟，例如：不鏽鋼管不可和銅製接頭混合使用。
- 當卡套管和接頭的材質一致時，卡套管必須完全退火，機械用管、結構用管及裝飾用管絕不能用於流體系統。
- 使用在極柔軟且易彎曲的塑膠軟管時務必使用襯套。
- 卡套管表面的處理對於密封結果影響很大，卡套管若有任何的凹痕、刮傷、凸起或是其他表面的瑕疵都可能會造成密封效果不良，尤其是使用在氣體服務的時候。
- 橢圓形管不易穿入螺母、卡圈以及本體時，不應強行安裝，倘若強行安裝，可能擦傷管子外徑表面，造成密封困難。
- 多層管（層合管）不能使用 JPE 儀表卡套接頭，因為 JPE 儀表卡套接頭在管子外徑密封，流體會管層間洩漏並可能引起管壁斷裂。
- Metal tubes should be softer than fitting material. For instance, stainless steel tubes should not be used with brass fittings.
- When tube and fitting are made of the same material, the tube must be fully annealed. Mechanical, structural and ornamental tubes should never be used for instrument fluid systems.
- Always use an insert in an soft or flexible plastic tube.
- Surface finish is very important to sealing effect. Tubes with any depressions, scratches, raised portions, or other surface defects will be difficult to seal, especially in gas services.
- Oval tubes which will not easily fit into fitting nuts, ferrules, and bodies should never be forced into the fitting. Fitting forcibly will scrape the tube OD surface at the maximum diameter, making sealing difficult.
- Multiwall (Laminated) tubes should not be used with JPE instrument tube fittings. Since JPE instrument tube fitting seals on the tube OD, system fluid may leak between tube layers, causing possible wall rupture.

ASTM 管外徑公差表

ASTM TOLERANCE - TUBE OD

• 英制	• Fractional
1/16" ~ 1/8", 管外徑公差 ±0.08mm	1/16" ~ 1/8", tolerance ±0.08mm
3/16" ~ 1", 管外徑公差 ±0.13mm	3/16" ~ 1", tolerance ±0.13mm
• 公制	• Metric
3 ~ 4mm, 管外徑公差 ±0.08mm	3 ~ 4mm, tolerance ±0.08mm
4 ~ 25mm, 管外徑公差 ±0.13mm	4 ~ 25mm, tolerance ±0.13mm

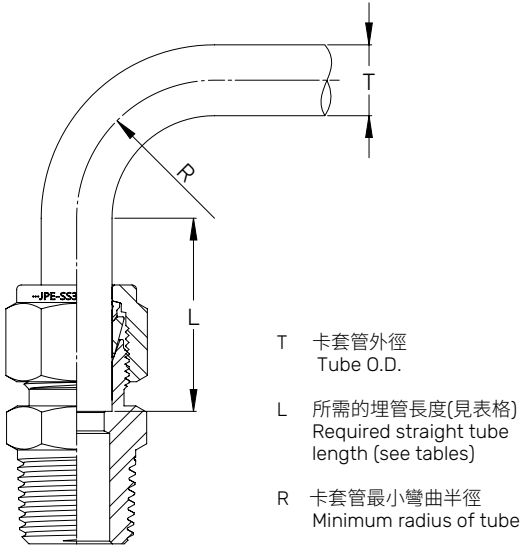
配管彎曲加工尺寸表

TUBE BENDING DIMENSIONS

在靠近卡套管彎曲處安裝 JPE 儀表卡套接頭時，必須有足夠的直管長度，以使卡套管能在 JPE 接頭中直插到底〈參見表格〉。依據不同廠牌的彎管器會有不同的卡套管彎曲半徑。

When installing JPE instrument tube fittings near tube bends, there must be a sufficient straight length of tube to allow the tube to be bottomed into the JPE fitting. (see tables below) The radius of tube bend is different based on bender manufacturer.

英制管 Fractional				公制管 Metric		
Tube O.D.	L		R ^A	Tube O.D.	L	R ^A
in.	in.	mm	in.	mm	mm	mm
1/16	1/2	13	3/16	3	19	10
1/8	23/32	18	3/8	6	21	15
3/16	3/4	19	9/16	8	23	24
1/4	13/16	21	9/16	10	25	24
5/16	7/8	22	15/16	12	31	38
3/8	15/16	24	15/16	14	32	38
1/2	1-3/16	30	1-1/2	15	32	38
5/8	1-1/4	32	1-1/2	16	32	38
3/4	1-1/4	32	1-3/4	18	32	44
1	1-1/2	38	4	20	34	48
				22	34	50
				25	40	100



• A: 表格所示半徑為目前通用的彎管器常用最小彎曲半徑，其卡套管最小彎曲半徑須由彎管器製造商提供建議。
• A: The minimum radius of tube bend in this table is in common use. The minimum radius of tube bend needs to be recommended by bender manufacturers.

氣體導管

GAS SERVICE

氣體 (空氣、氫氣、氮氣、氮氣等) 具有非常小的分子，可以通過管壁表面缺陷而產生的極細小洩漏通道洩漏。厚壁管對卡套作用產生的阻力比薄壁管大，並且允許前後卡套壓平細微的表面缺陷，相對於薄壁管會塌陷，這樣就減小了壓平表面缺陷的機會。因此，選用輸送氣體的導管時，應選較厚的壁厚。請在第 5、6 頁表 1 ~ 4 " 陰影區之外 " 選擇合適的卡套管壁厚。

Gases (air, hydrogen, helium, nitrogen, etc.) have very small molecules and can escape through even the most minute leak path due to surface defects on the tube. These imperfections can be coined out when heavy-wall tube is used as it resists the ferrule action more than thin-wall does. For gas service, select a proper tube wall thickness whose working pressure is outside of the shaded areas in Table 1~4, on page 5 and 6.

不鏽鋼卡套管建議可允許工作壓力

SUGGESTED ALLOWABLE WORKING PRESSUE FOR STAINLESS STEEL TUBE

- 允許工作壓力的計算參照 ASME B31.3 的標準中，在溫度 -28°C ~ 37°C (-20 °F ~ 100 °F) 條件下 S 值為 20000 psig 計算確定的。
 - 高品質無縫不鏽鋼管經完全退火處理的 TP304 或 TP316 / 316L 不鏽鋼管，符合 ASTM A213 / A269 或與這些規範相當的標準，硬度不超過 HRB90 / HV200, 管材應無刮傷痕跡。
- Allowable working pressures are calculated from an S value of 20000 psig at -28°C ~ 37°C (-20 °F ~ 100 °F) , as listed in ASME B31.3
 - High-quality TP304 or TP316 / 316L Fully Annealed Seamless Stainless Steel Tubes comply with ASTM A213 / A269 or equivalent. Hardness not to exceed HRB90 / HV200. The tube should be free of scratches.

Table 1-Fractional TP304 / TP316 Stainless Steel Seamless Tube

表 1- 英制不鏽鋼 TP304 / TP316 無縫卡套管

卡套管外徑 Tube OD in.	卡套管壁厚 Tube Wall Thickness (in.)													JPE 接頭系 列 JPE Fitting Series
	0.010	0.012	0.014	0.016	0.020	0.028	0.035	0.049	0.065	0.083	0.095	0.109	0.120	
	工作壓力 Working Pressure (psig)													
	註：對於氣體導管請在陰影區之外選擇一個卡套管壁厚。(參見第 4 頁上的氣體導管。) Note: For gas service, select a tube wall thickness outside the shaded area. (Please see P.4, Gas Service)													
1/16	5600	6800	8100	9400	12000									005
1/8						8500	10900							01
3/16						5400	7000	10200						015
1/4						4000	5100	7500	10200					02
5/16							4000	5800	8000					025
3/8							3300	4800	6500	7500				03
1/2							2600	3700	5100	6700				04
5/8								2900	4000	5200	6000			05
3/4								2400	3300	4200	4900	5800		06
1									2400	3100	3600	4200	4700	08

Table 2-Fractional TP316L Stainless Steel Seamless Tube

表 2- 英制不鏽鋼 TP316L 無縫卡套管

卡套管外徑 Tube OD in.	卡套管壁厚 Tube Wall Thickness (in.)													JPE 接頭系 列 JPE Fitting Series
	0.010	0.012	0.014	0.016	0.020	0.028	0.035	0.049	0.065	0.083	0.095	0.109	0.120	
	工作壓力 Working Pressure (psig)													
	註：對於氣體導管請在陰影區之外選擇一個卡套管壁厚。(參見第 4 頁上的氣體導管。) Note: For gas service, select a tube wall thickness outside the shaded area. (Please see P.4, Gas Service)													
1/16	4670	5670	6760	7850	10020									005
1/8						7100	9100							01
3/16						4500	5850	8500						015
1/4						3340	4260	6260	8520					02
5/16							3340	4840	6680					025
3/8							2760	4000	5430	6260				03
1/2							2170	3090	4260	5600				04
5/8								2420	3340	4340	5010			05
3/4								2000	2760	3500	4100	4840		06
1									2000	2590	3000	3500	3930	08

Table 3-Metric TP304 / TP316 Stainless Steel Seamless Tube

表 3- 公制不鏽鋼 TP304 / TP316 無縫卡套管

卡套管外徑 Tube OD mm	卡套管壁厚 Tube Wall Thickness (mm)										JPE 接頭系 列 JPE Fitting Series
	0.8	1.0	1.2	1.5	1.8	2.0	2.2	2.5	2.8	3.0	
	工作壓力 Working Pressure (bar)										
	註：對於氣體導管請在陰影區之外選擇一個卡套管壁厚。(參見第 4 頁上的氣體導管。) Note: For gas service, select a tube wall thickness outside the shaded area. (Please see P.4, Gas Service)										
3	670										3
4	500	660									4
6	310	420	540	710							6
8		310	390	520							8
10		240	300	400	510	580					10
12		200	250	330	410	470					12
14		160	200	270	340	380	430				14
15		150	190	250	310	360	400				15
16			170	230	290	330	370	400			16
18			150	200	260	290	320	370			18
20			140	180	230	260	290	330	380		20
22			140	160	200	230	260	300	340		22
25					180	200	230	260	290	320	25

Table 4-Metric TP316L Stainless Steel Seamless Tube

表 4- 公制不鏽鋼 TP316L 無縫卡套管

卡套管外徑 Tube OD mm	卡套管壁厚 Tube Wall Thickness (mm)										JPE 接頭系 列 JPE Fitting Series
	0.8	1.0	1.2	1.5	1.8	2.0	2.2	2.5	2.8	3.0	
	工作壓力 Working Pressure (bar)										
	註：對於氣體導管請在陰影區之外選擇一個卡套管壁厚。(參見第 4 頁上的氣體導管。) Note: For gas service, select a tube wall thickness outside the shaded area. (Please see P.4, Gas Service)										
3	560										3
4	420	550									4
6	260	350	450	590							6
8		260	330	430							8
10		200	250	330	430	480					10
12		170	210	280	340	390					12
14		130	170	230	280	320	360				14
15		120	160	210	260	300	330				15
16			140	190	240	280	310	330			16
18			120	170	220	240	270	310			18
20			120	150	190	220	240	280	320		20
22			120	130	170	190	220	250	280		22
25					150	170	190	220	240	270	25

- 工作壓力根據 ASME B31.3「工藝管道」計算得出。
- 所有計算根據最大外徑和最小壁厚。
- Working pressures are calculated in accordance with ASME B31.3 Process Piping.
- All calculations are based on maximum OD and minimum wall thickness.

溫度降額

TEMPERATURE DERATING

確定在高溫下的許可壓力時，用表 5 的係數乘以表 1 ~ 4 的許可工作壓力。

例：

材質 SS316L,1/4" 卡套管外徑 × 0.028" 壁厚，溫度 800 °F

1. 根據表 2 在溫度 -28°C ~ 37°C (-20 °F ~ 100 °F) 對應的壓力為 3340 psig。

2. 根據表 5 在 800 °F 條件下壓力降低係數為 0.74。

3340 psig × 0.74 = 2472 psig

所以在 800 °F 下的容許的工作壓力為 2472 psig。

To determine allowable pressure at elevated temperatures, multiply allowable working pressure from Tables 1 ~ 4 by the factor shown in Table 5.

Example:

Material SS316L, 1/4" Tube OD x 0.028" wall thickness at temp. 800 °F

1. According to Table 2, the working pressure is 3340 psig at -28°C ~ 37°C (-20 °F ~ 100 °F)

2. According to Table 5, the factor is 0.74 at 800 °F

3340 psig × 0.74 = 2472 psig

The allowable working pressure is 2472 psig at 800 °F

Table 5- Tube Pressure Ratings At Elevated Temperatures 表 5- 無縫鋼管在高溫下，容許工作壓力降額係數表

°F	°C	SS316	SS316L	SS304
200	95	1.00	1.00	1.00
400	200	0.96	0.92	0.93
600	310	0.85	0.80	0.82
800	430	0.79	0.74	0.76
1000	540	0.76	0.67	0.69
1200	650	0.37	0.38	0.30

SUGGESTED MAXIMUM TEMPERATURE – METAL MATERIAL

建議最高溫度值 – 金屬材質

材質 Material	溫度 Temp.	
	°C	°F
黃銅 Brass	200	400
合金 C276 Monel C276	540	1000
合金 400 Monel 400	430	800
304 不鏽鋼 SS304	540	1000
316 不鏽鋼 SS316	650	1200

- 我們相信以上數據是可靠的，但是該表不能包括流體類別、濃度、環境等所有條件，建議僅用此表去選擇可用材料，對已公布的材料標準或鋼管標準做深入探究。JPE 不對上表數據之準確性負責。
- The data presented is believed reliable, but a chart of this sort cannot cover all conditions of system fluid type, concentration, environment, etc. It is suggested that this chart be used only to select possible materials for use and then a more extensive investigation into published material standard or tube standard.
JPE is not responsible for the accuracy of this table.

INSTRUMENT TUBE FITTING MATERIAL STANDARD

儀表卡套接頭製造標準規範

材料標準 Materials Standards		
材料 Material	棒材 Bar Stock	鍛件 Forging
不鏽鋼 Stainless Steel	ASTM A276 / ASTM A479	ASTM A182
合金 400 Monel 400	ASTM B164	ASTM B564
合金 625 Monel 625	ASTM B446	ASTM B564
合金 C-276 Monel C-276	ASTM B574	ASTM B564
黃銅 Brass	ASTM B16 / JIS H3250	ASTM B283 / JIS H3250

工作壓力基準和螺紋規格 Pressure Rating Basis and Thread Specifications			
螺紋類型 (端接) Thread Type (End Connection)	工作壓力基準 Pressure Rating Basis	螺紋類型 Thread Type	參考規格 Reference Specification
JPE 卡套管接頭 JPE Tube Fitting	JPE 卡套管接頭的額定值符合 JPE 最大允許工作壓力數據表 (P.5~6, 表 1~4)。在依標準作業流程安裝及配合高品質卡套管，安全不洩漏。 JPE tube fitting pressure rating accords with the maximum allowable working pressures listed in P.5~6, Tables 1~4. Install the high-quality tube under the standard operating procedure for being safe and leak-tight systems.	統一英制螺絲螺紋 Unified Screw Threads	ASME B1.1
NPT (錐管螺紋) NPT (Tapered Thread) (JPE N 螺紋) (JPE N Thread)	依 ASME B31.3 計算設計與壓力測試。 ASME B31.3, design factor and pressure testing.	NPT	ASME B1.20.1 / SAE AS71051
ISO / BSPT (錐管螺紋) ISO / BSPT ISO (Tapered Thread) (JPE R 螺紋) (JPE R Thread)	ASME B31.3, 基於液壓油洩漏的 4:1 設計系數的過程管道或壓力測試。 ASME B31.3, Process Piping or pressure testing with a 4:1 design factor based on hydraulic fluid leakage.	ISO / BSP (錐型) (Tapered)	BS EN 10226-1 / JIS B0203
ISO / BSPP (直管螺紋) ISO / BSPP (Parallel Thread) (JPE G 螺紋) (JPE G Thread)	依 ISO 1179 & ISO 228-1 計算設計與壓力測試。 ISO 1179 & ISO 228-1, design factor and pressure testing.	ISO / BSP (平行) (Parallel)	ISO 228 / JIS B0202
SAE 重型 SAE Heavy Duty (JPE SAE 接頭) (JPE SAE Thread)	依 SAE J1926-2 計算設計與壓力測試。 SAE J1926-2, design factor and pressure testing.	統一英制螺紋 Unified Screw Threads	ASME B1.1
JIC 37° 接頭 JIC 37° Fitting	依 SAE J514 計算設計與壓力測試。 SAE J514, design factor and pressure testing.	統一英制螺紋 Unified Screw Threads	ASME B1.1

工作壓力額定值的選用基礎

WORKING PRESSURE RATING SELECTION BASIS

- 對於有卡套管接頭又有管螺紋端的接頭，其工作壓力值應由較低的端接來決定。

• 對於兩端有不同規格的接頭，其工作壓力值應由較低的端接來決定。
- If there are a tube fitting end and a thread end, working pressure rating is decided by the lower one.

• If there are two different end types, working pressure rating is decided by the lower one.

WORKING PRESSURE RATING

工作壓力額定值

NPT / BSPT PIPE 管工作壓力額定值 NPT / BSPT PIPE Working Pressure Rating								
註：工作壓力額定值依 B31.3 在室溫下計算 Note: Working pressure rating is based on B31.3 at ambient temperature								
NPT / BSPT 錐管螺紋尺寸 NPT / BSPT Tapered Thread Size NPS(in.)	316 不鏽鋼、C276 SS316、C276		合金 400 Monel 400		合金 625 Monel 625		黃銅 Brass	
	外螺紋 Male Thread	內螺紋 Female Thread	外螺紋 Male Thread	內螺紋 Female Thread	外螺紋 Male Thread	內螺紋 Female Thread	外螺紋 Male Thread	內螺紋 Female Thread
	psig(bar)							
1/16	11000(757)	6700(461)	9900(682)	6000(413)	15000(1033)	12900(888)	5500(378)	3300(227)
1/8	10000(689)	6500(447)	9000(620)	5800(399)	15000(1033)	12500(861)	5000(344)	3200(220)
1/4	8000(551)	6600(454)	7200(496)	5900(406)	15000(1033)	12700(875)	4000(275)	3300(227)
3/8	7800(537)	5300(365)	7000(482)	4700(323)	15000(1033)	10200(702)	3900(268)	2600(179)
1/2	7700(530)	4900(337)	6900(475)	4400(303)	14800(1019)	9400(647)	3800(261)	2400(165)
3/4	7300(502)	4600(316)	6500(447)	4100(282)	10000(689)	8900(613)	3600(248)	2300(158)
1	5300(365)	4400(303)	4700(323)	3900(268)	10000(689)	8500(585)	2600(179)	2200(151)
1-1/4	6000(413)	5000(344)	5400(372)	4500(310)	10000(689)	9600(661)	3000(206)	2500(172)
1-1/2	5000(344)	4600(316)	4500(310)	4100(282)	9600(661)	8900(613)	2500(172)	2300(158)
2	3900(268)	3900(268)	3500(241)	3500(241)	7500(516)	7500(516)	1900(130)	1900(130)

- 求 MPa 時，將 bar 乘以 0.10
- To determine MPa, multiply bar by 0.10

SAE 重型工作壓力額定值 SAE Heavy Duty Working Pressure Rating				
註：工作壓力額定值依 SAE J1926-2 在室溫下計算 Note: Working pressure rating is based on SAE J1926-2 at ambient temperature				
SAE 重型 螺紋尺寸 SAE Heavy Duty Thread Size	代號 Designator	316 不鏽鋼、合金 (C276、625) SS316、Monel(C276、625)	黃銅 Brass	合金 400 Monel 400
psig(bar)				
3/8-24	SAE3	9130(630)	4560(315)	8220(567)
7/16-20	SAE4			
1/2-20	SAE5			
9/16-18	SAE6			
3/4-16	SAE8			
7/8-14	SAE10			
1-1/16-12	SAE12	6090(420)	3040(210)	5480(378)
1-3/16-12	SAE14			
1-5/16-12	SAE16			
1-5/8-12	SAE20	4060(280)	2030(140)	3650(252)
1-7/8-12	SAE24	3040(210)	1520(105)	2740(189)
2-1/2-12	SAE32			

JIC 37° 接頭工作壓力額定值 JIC 37° (An) Flare End Fitting Working Pressure Rating 註：工作壓力額定值依 ISO 8434-2(SAE J514) 在室溫下計算 Note: Working pressure rating is based on ISO 8434-2(SAE J514) at ambient temperature			
外螺紋 AN (JIC) 螺紋尺寸 Male AN (JIC) Thread Size	代號 Designator	316 不鏽鋼 Stainless Steel 316	黃銅 Brass
		psig(bar)	
7/16-20	02	2900 (200)	
9/16-18	03	5000(345)	2300 (160)
3/4-16	04	4500(310)	
1-1/16-12	06	3500(241)	1800 (125)
1-5/16-12	08	3000(207)	1450 (100)
1-5/8-12	012	2500(172)	1160 (80)
1-7/8-12	014	2000(138)	910 (63)
2-1/2-12	016	1500(103)	720 (50)

ISO / BSPP 直管螺紋 GP2 工作壓力額定值 ISO/BSPP Parallel Thread GP2 Working Pressure Rating				
ISO / BSPP 直管螺紋 GP2 尺寸 ISO/BSPP Parallel Thread GP2 Size NPS(in.)	代號 Designator	316 不鏽鋼、合金 (C276、625) SS316、Monel (C276、625)	黃銅 Brass	合金 400 Monel 400
		psig(bar)		
1/8	01	5800(400) 2900(200) 5220(360)		
1/4	02			
3/8	03			
1/2	04	4700(324)	2350(162)	4220(291)
3/4	06	2320(160)	1160(80)	2080(144)
1	08	1450(100)	720(50)	1160(80)

- GP2 搭配紫銅金屬墊片。
- GP2 goes with red copper gasket

O 型密封圈壓力額定值 O-Seal Pressure Rating	
1 in. 和 25mm 以下的不鏽鋼 O 型密封圈接頭的額定壓力為 3000 psig (206 bar)。	Stainless steel O-seal fittings up to 1 in. and 25 mm are rated to 3000 psig (206 bar).

ISO 228 / BSPP 直管螺紋 (GP1 & GP2) 工作壓力額定值

ISO 228/BSPP Parallel Thread (GP1&GP2)Working Pressure Rating

- 工作壓力額定值依 ISO 1179 在室溫下計算。
 - 墊片材質的不同將影響產品耐壓性能，墊片選擇由系統設計者和用戶負責。
- Working pressure rating is based on ISO 1179 at ambient temperature
 - Gasket selection is the responsibility of the system designer and user and may affect product performance.

ISO / BSPP 直管螺紋 GP1 工作壓力額定值 ISO/BSPP Parallel Thread GP1 Working Pressure Rating				
ISO / BSPP 直管螺紋 GP1 尺寸 ISO/BSPP Parallel Thread GP1 Size NPS(in.)	代號 Designator	316 不鏽鋼、合金 (C276、625) SS316、Monel (C276、625)	黃銅 Brass	合金 400 Monel 400
		psig(bar)		
1/8	01	5800(400) 2900(200) 5220(360)		
1/4	02			
3/8	03			
1/2	04	4700(324)	2350(162)	4220(291)
3/4	06	3620(250) 1810(125) 3260(225)	1810(125)	3260(225)
1	08			

- GP1 搭配複合式墊片 (FKM 內環；金屬外環) 或金屬墊片。
- GP1 goes with compounded seal(FKM centering ring; metal outer ring) or metal gasket

INSTALLATION NOTES

安裝注意事項

安全預防措施

SAFETY PRECAUTIONS

- 不可藉鬆開螺母或是塞頭的方式來排放管線系統壓力。
- 不可在管線系統有壓力時安裝或是鎖緊接頭。
- 在鎖緊螺母前請確認卡套管緊靠在卡套接頭本體內的肩部。
- 在鎖錐管螺紋時，務必在螺紋上使用正確的螺紋密封劑。
- 不要將不同材質或是將不同供應商的零件混合使用 - 包含卡圈、螺母、以及本體。
- 安裝時應先固定接頭本體再旋轉螺母，而非旋轉接頭本體。
- 未使用過的接頭請避免不必要的拆卸。
- Do not bleed system by loosening fitting nuts or fitting plugs.
- Do not assemble and tighten fittings when system is pressurized.
- Before tightening the nut, make sure the tube rests firmly on the shoulder of the tube fitting body.
- Always use proper thread sealants on the tapered thread while tightening it.
- Do not mix materials or fitting components from various manufacturers, including tubes, ferrules, nuts and fitting bodies.
- Never turn the fitting body. Instead, hold the fitting body and turn the nut.
- Avoid unnecessary disassembly of unused fittings.

鋼管堵頭及卡套堵頭

CAPS AND PLUGS

鋼管堵頭：

- 安裝方式請參見 JPE 儀表卡套接頭安裝及重覆安裝說明。

卡套堵頭：

- 固定接頭本體，從手指鎖緊的位置再加鎖 1/4 圈。
- 對於 1/16"、1/8"、3/16" 及 3mm、4mm 的卡套堵頭，首次安裝只要鎖 1/8 圈。
- 您可以重覆拆裝 JPE 卡套堵頭數次。重覆安裝時只要在用手指鎖緊螺母之後再稍微使用扳手鎖緊螺母過記號線即可。

Caps：

- Please refer to JPE tube fitting installation and reassembly instructions.

Plugs：

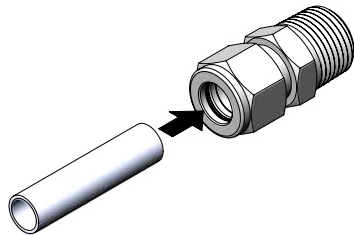
- Hold the fitting body steady, and then tighten the plug 1/4 turn from the finger-tight position.
- For 1/16", 1/8", 3/16", 3mm and 4mm tube fittings, tighten the plug 1/8 turn.
- You can disassemble and reassemble JPE plugs many times. Make slightly tightening by a wrench after fastening the nut by hand.

卡套管接頭安裝說明

INSTALLATION INSTRUCTIONS

1" 及 25mm (含) 以下的 JPE 儀表卡套接頭可以簡易快速且可靠地以手動工具安裝。

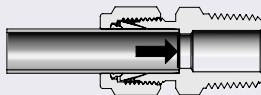
Instrument Tube Fittings 1" / 25mm or less can be installed quickly, easily and reliably with simple hand tools.



A

將卡套管完全插入接頭內，並緊靠住肩部，再用手指將螺母鎖緊。應用於高壓或是高安全係數的系統時，請再將螺母鎖緊，直到卡套管無法用手轉動或是沿軸在接頭內移動。

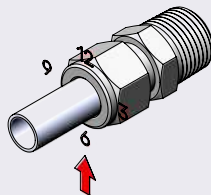
Fully insert the tube into the fitting and against the shoulder; rotate the nut finger-tight. For high-pressure applications and high safety-factor systems, tighten the nut until the tube will not turn by hand or move axially in the fitting.



B

在螺母的 6 點鐘位置做記號。

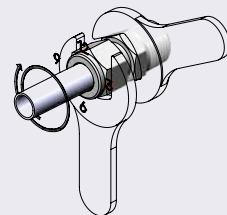
Mark the nut at the 6 o'clock position.



C

固定接頭本體，將螺母轉 1-1/4 圈 (到 9 點鐘位置)。對於 1/16"、1/8"、3/16"、3mm、4mm 的接頭，只要將螺母轉 3/4 圈 (到 3 點鐘位置)。

Hold the fitting body steady, and then tighten the nut one and one-quarter turns to the 9 o'clock position. For 1/16", 1/8", 3/16", 3mm and 4mm tube fittings, just tighten the nut three-quarters turn to the 3 o'clock position.

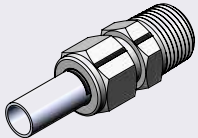
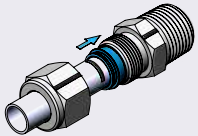
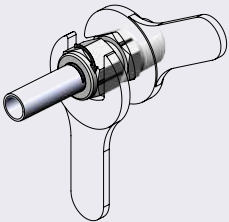


重覆安裝（適用所有尺寸）

REASSEMBLY - ALL SIZES

JPE 儀表卡套接頭可以被拆下並重覆安裝多次。(在拆下 JPE 儀表卡套接頭前，務必先排放管線系統壓力)。

JPE Instrument Tube Fittings may be disassembled and reassembled many times. (Always depressurize the system before disassembling a JPE instrument tube fitting.)

D	在拆下接頭前，先在螺母和卡套管接口處做記號，然後在螺母和接頭本體上畫一條直線，以確保重新安裝後螺母會在原先的位置。 To ensure that you return the nut to the previously pulled-up position, mark the tube at the edge of the nut and mark a line along the nut and fitting body flats before disassembly.	
E	將原有鎖上卡圈的卡套管置入接頭中，使前卡圈和接頭本體靠攏，並用手鎖緊螺母。Insert the tube with pre-swaged ferrules into the fitting until the front ferrule seats against the fitting body, and rotate the nut finger-tight.	
F	固定接頭本體，將螺母以扳手鎖到之前標記的位置，此時你會感受到阻力明顯增加，請再輕輕鎖緊螺母，過記號線即可。 While holding the fitting body steady, rotate the nut by a wrench to the previously pulled-up position (as indicated by the marks on the tube and flats). At this moment, you will feel a significant increase in resistance. Then tighten the nut slightly until it passes the mark.	



直接頭
STRAIGHT CONFIGURATIONS

卡套外螺紋直通接頭 MALE CONNECTOR	MC / 23
暢通式卡套外螺紋直通接頭 BORE-THROUGH MALE CONNECTOR	MCT / 25
卡套外螺紋直通接頭直管 G 螺紋 P1 型密封 MALE CONNECTOR PARALLEL G THREAD P1 TYPE	MC GP1 / 27
卡套外螺紋直通接頭直管 G 螺紋 P2 型密封 MALE CONNECTOR PARALLEL G THREAD - P2 TYPE	MC GP2 / 28
卡套外螺紋直通接頭直管 G 螺紋 E 型密封 (ED 墊圈) MALE CONNECTOR PARALLEL G THREAD E TYPE (ED SEAL)	MC GE / 29
卡套外螺紋直通接頭直管 G 螺紋 S 型密封 MALE CONNECTOR PARALLEL G THREAD S TYPE	MC GS / 31
卡套外螺紋直通接頭直管 G 螺紋 O 型密封 MALE CONNECTOR PARALLEL G THREAD O TYPE	MC GO / 33
卡套外螺紋直通接頭直管 SAE 螺紋 O 型圈密封 MALE CONNECTOR SAE THREAD	MC SAE / 37
卡套內螺紋直通接頭 FEMALE CONNECTOR	FC / 39
卡套直通由任接頭 EQUAL UNION	U / 41
異徑卡套直通由任接頭 REDUCING UNION	RU / 42
卡套穿板直通由任接頭 BULKHEAD UNION	BU / 43
卡套外螺紋穿板直通接頭 BULKHEAD MALE CONNECTOR	BMC / 44
卡套內螺紋穿板直通接頭 BULKHEAD FEMALE CONNECTOR	BFC / 45
卡套堵頭 PLUG	P / 46
鋼管堵頭 CAP	C / 46
卡套套焊接頭 SOCKET WELD UNION	ODSW / 47



彎頭
ELBOWS

卡套外螺紋彎頭 MALE ELBOW	ME / 56
卡套內螺紋彎頭 FEMALE ELBOW	FE / 58
卡套由任彎頭 EQUAL UNION	UE / 60
可定位卡套外螺紋彎頭 ADJUSTABLE MALE ELBOW	PME / 61



45° 彎頭
45° ELBOWS

45°卡套外螺紋彎頭 45° MALE ELBOW	MEL / 62
45° 卡套內螺紋彎頭 45° FEMALE ELBOW	FEL / 62



三通
TEES

卡套由任三通 UNION TEE	UT / 63
異徑卡套由任三通 REDUCING UNION TEE	RUT / 64
中心外螺紋卡套三通 MALE BRANCH TEE	MBT / 65
邊外螺紋卡套三通 MALE RUN TEE	MRT / 67
中心內螺紋卡套三通 FEMALE BRANCH TEE	FBT / 69
邊內螺紋卡套三通 FEMALE RUN TEE	FRT / 71
可定位中心外螺紋卡套三通 ADJUSTABLE MALE BRANCH TEE	PMBT / 73



十字通
CROSS

卡套由任四通 UNION CROSS	UCR / 74
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替換零件
REPLACEMENT PARTS

卡套螺母 NUT	N / 75
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前卡圈 FRONT FERRULE	FF / 75
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後卡圈 BACK FERRULE	BF / 75
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襯套 INSERT	CT / 76
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卡套孔口連接接頭 PORT CONNECTOR	PC / 76
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直管螺紋用墊片 & O-RINGS ISO / BSPP GASKETS & O-RINGS	SEALS / 77
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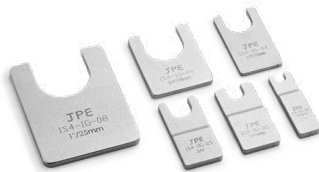
絕緣接頭
DIELECTRIC FITTINGS

絕緣接頭 DIELECTRIC FITTINGS	DEU / 79
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法蘭轉換接頭
FLANGE ADAPTERS

法蘭轉換接頭 FLANGE ADAPTERS	FA / 81
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工具附件
TOOLS & ACCESSORIES

卡套間隙規 GAP INSPECTION GAUGES	IG / 97
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隔板固定器 BULKHEAD RETAINERS	BKR/98
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ORDERING INFORMATION 選型表

BS6 -	MC		02	
產品大類及材質	產品名稱		卡套尺寸 (英制) 卡套尺寸 (公制)	
CLASSIFICATION & MATERIAL	PRODUCT NAME		TUBE OD (FRACTIONAL)	TUBE OD (METRIC)
BS6 :接頭類 SS316L SS316L FITTING	MC : 卡套外螺紋直通接頭 MALE CONNECTOR	UE : 卡套由任彎頭 UNION ELBOW	005 :1/16"	3 : 3mm
BS4 :接頭類 SS304 SS304 FITTING	MCT : 暢通式卡套外螺紋直通接頭 BORE-THROUGH MALE CONNECTOR	PME : 可定位卡套外螺紋彎頭 ADJUSTABLE MALE ELBOW	01 :1/8"	6 : 6mm
BBR :接頭類 銅 C3604 / C3771 BRASS C3604 / C3771 FITTING	FC : 卡套內螺紋直通接頭 FEMALE CONNECTOR	MEL: 45°卡套外螺紋彎頭 45° MALE ELBOW	015 :3/16"	8 : 8mm
BS321 :接頭類 SS321 SS321 FITTING	U : 卡套直通由任活接頭 EQUAL UNION	FEL : 45°卡套內螺紋彎頭 45° FEMALE ELBOW	02 :1/4"	10: 10mm
BM400:接頭類 合金 400 MONEL 400 FITTING	RU : 異徑卡套直通由任接頭 REDUCING UNION	UT : 卡套由任三通接頭 UNION TEE	025 :5/16"	12: 12mm
BC276 :接頭類 合金 C276 Monel C276 FITTING	BU : 卡套穿板直通由任接頭 BULKHEAD UNION	RUT: 卡套異徑三通接頭 REDUCING UNION TEE	03 :3/8"	14: 14mm
B2205 :接頭類 雙相鋼 2205 DUPLEX 2205 FITTING	BMC : 卡套外螺紋穿板直通接頭 BULKHEAD MALE CONNECTOR	MBT: 中心外螺紋卡套三通 MALE BRANCH TEE	04 :1/2"	15: 15mm
	BFC : 卡套內螺紋穿板直通接頭 BULKHEAD FEMALE CONNECTOR	MRT: 邊外螺紋卡套三通 MALE RUN TEE	05 :5/8"	16: 16mm
	P : 卡套堵頭 PLUG	FBT: 中心內螺紋卡套三通 FEMALE BRANCH TEE	06 :3/4"	18: 18mm
	C : 銅管堵頭 CAP	FRT : 邊內螺紋卡套三通 FEMALE RUN TEE	08 :1"	20: 20mm
	ODSW: 卡套套焊接頭 SOCKET WELD UNION	PMBT:可定位中心外螺 卡套三通 ADJUSTABLE MALE BRANCH T		22: 22mm
	ODBW: 卡套對焊接頭 BUTT WELD UNION	UCR: 卡套由任四通 UNION CROSS		25: 25mm
	ODTA : 卡套插管接頭 REDUCER	N : 卡套螺母 NUT		
	MCH : 卡套軟管外螺紋接頭 UNION TUBE FLARE	FF : 前卡圈 FRONT FERRULE		
	TAM : 外螺紋插管接頭 MALE TUBE ADAPTER	BF : 後卡圈 BACK FERRULE		
	TAF : 內螺紋插管接頭 FEMALE TUBE ADAPTER	CT : 襯套 INSERT		
	ME : 卡套外螺紋彎頭 MALE ELBOW	PC : 卡套孔口連接接頭 PORT CONNECTOR		
	FE : 卡套內螺紋彎頭 FEMALE ELBOW	DEU: 絕緣接頭 (僅 04:1/2" 尺寸) DIELECTRIC FITTINGS		

02 -	R
螺紋 / 套焊 / 對焊尺寸	螺紋種類
THREAD / SOCKET WELDING / BUTT WELDING SIZE	THREAD TYPE
01 : 1/8"	R :BSPT 螺紋 BSPT THREAD
02 : 1/4"	N :NPT 螺紋 NPT THREAD
03 : 3/8"	GP1 :BSPP / G 螺紋 P1 型密封 BSPP / G THREAD P1 TYPE
04 : 1/2"	GP2 :BSPP / G 螺紋 P2 型密封 BSPP / G THREAD P2 TYPE
05 : 5/8"	GE :BSPP / G 螺紋 E 型密封 BSPP / G THREAD E TYPE
06 : 3/4"	GS :BSPP / G 螺紋 S 型密封 BSPP / G THREAD S TYPE
08 : 1"	GO :BSPP / G 螺紋 O 型密封 BSPP / G THREAD O TYPE
SAE4:7/16-20	* 其他連接方式無需填寫 * NULL FOR OTHER CONNECTIONS
SAE5:1/2-20	
SAE6:9/16-18	
SAE8:3/4-16	
SAE10:7/8-14	
SAE12:1-1/16-12	
*SAE 螺紋僅供 SAE 卡套螺紋接頭及可定位接頭選型	

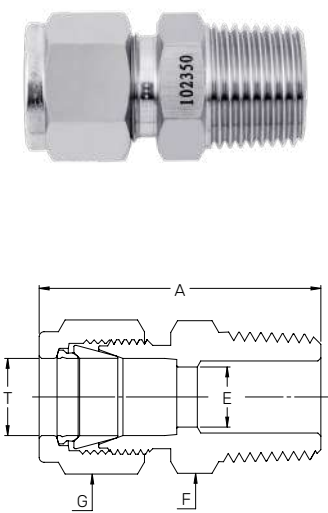
螺紋種類表

THREAD SPECIFICATIONS

螺紋種類 THREAD TYPE	參考標準 REFERENCE SPECIFICATION
PT(BSPT)	BS EN 10226-1 / JIS B0203 / ISO7-1
NPT	ASME B1.20.1 / SAE AS71051
G	JIS B0202 / ISO 228

- 某些材質和規格可能有最低訂購量的限制。
- 尺寸僅供參考, 並且隨時可能變更。
- 所有帶螺母的接頭尺寸皆為用手擰緊的尺寸。
- MINIMUM ORDER QUANTITIES MAY APPLY TO CERTAIN MATERIALS AND CONFIGURATIONS.
- DIMENSIONS ARE FOR REFERENCE ONLY AND ARE SUBJECT TO CHANGE. • DIMENSIONS SHOWN ARE FOR FINGER-TIGHT NUTS.

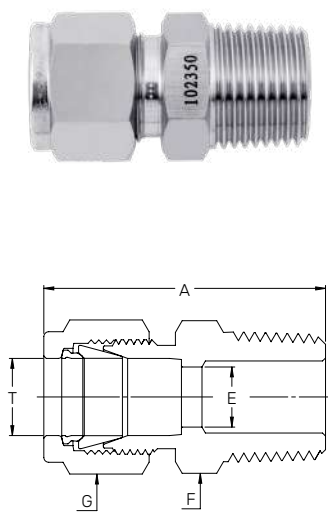
MC
卡套外螺紋直通接頭
MALE CONNECTOR



公制 (METRIC)						
T 卡套管外徑 T TUBE O.D.	BSPT / NPT 錐管螺紋尺寸 BSPT / NPT TAPERED THREAD SIZE	PART NO.	A	E	F	G
3	1/8	MC301	31.7	2.5	7/16	7/16
3	1/4	MC302	34.7	2.5	14	7/16
6	1/8	MC601	33.6	5.0	12	9/16
6	1/4	MC602	36.6	5.0	14	9/16
6	3/8	MC603	38.6	5.0	17	9/16
6	1/2	MC604	42.6	5.0	22	9/16
8	1/8	MC801	34.8	5.0	14	5/8
8	1/4	MC802	37.8	6.0	14	5/8
8	3/8	MC803	39.8	6.0	17	5/8
8	1/2	MC804	43.8	6.0	22	5/8
10	1/8	MC1001	36.9	5.0	17	19
10	1/4	MC1002	39.9	7.0	17	19
10	3/8	MC1003	40.9	8.0	17	19
10	1/2	MC1004	44.9	8.0	22	19
10	3/4	MC1006	47.9	8.0	27	19
12	1/8	MC1201	39.7	5.0	19	7/8
12	1/4	MC1202	42.7	7.0	19	7/8
12	3/8	MC1203	43.7	9.5	19	7/8
12	1/2	MC1204	46.7	10.0	22	7/8
12	3/4	MC1206	49.7	10.0	27	7/8
14	1/4	MC1402	43.4	7.0	24	25
14	3/8	MC1403	44.4	9.5	24	25
14	1/2	MC1404	47.4	12.0	24	25
14	3/4	MC1406	50.4	12.0	27	25
15	3/8	MC1503	44.5	9.5	24	25
15	1/2	MC1504	47.5	12.0	24	25
15	3/4	MC1506	50.5	12.0	27	25
15	1	MC1508	56.5	12.0	35	25
16	3/8	MC1603	44.7	9.5	24	25
16	1/2	MC1604	47.7	12.0	24	25
16	3/4	MC1606	50.7	14.0	27	25
16	1	MC1608	56.7	14.0	35	25
18	1/2	MC1804	48.4	12.0	27	30
18	3/4	MC1806	50.4	15.0	27	30
18	1	MC1808	56.4	16.0	35	30
20	1/2	MC2004	48.0	12.0	30	32
20	3/4	MC2006	50.0	15.0	30	32
20	1	MC2008	55.0	18.0	35	32
22	1/2	MC2204	48.3	12.0	30	32
22	3/4	MC2206	50.3	15.0	30	32
22	1	MC2208	55.3	18.0	35	32
25	1/2	MC2504	55.4	12.0	35	1-1/2
25	3/4	MC2506	57.4	15.0	35	1-1/2
25	1	MC2508	60.4	20.0	35	1-1/2

- 除非另有說明，否則所有尺寸單位均為 mm。
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- FRACTIONAL NUMBERS MEAN INCH SIZE.
- DIMENSIONS SHOWN ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE.

MC
卡套外螺紋直通接頭
MALE CONNECTOR



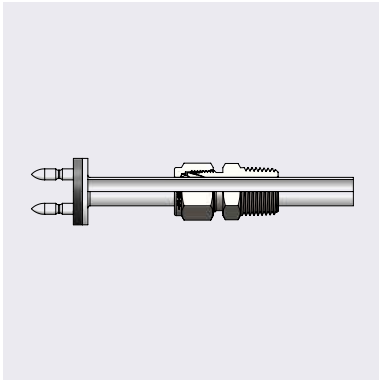
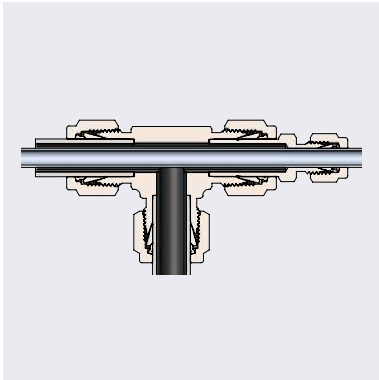
英制 (FRACTIONAL)						
T 卡套管外徑 T TUBE O.D.	BSPT / NPT 錐管螺紋尺寸 BSPT / NPT TAPERED THREAD SIZE	PART NO.	A	E	F	G
1/16	1/8	MC00501	27.0	1.3	10	10
1/16	1/4	MC00502	30.0	1.3	14	10
1/8	1/8	MC0101	31.9	2.5	7/16	7/16
1/8	1/4	MC0102	34.9	2.5	14	7/16
1/8	3/8	MC0103	36.9	2.5	17	7/16
1/8	1/2	MC0104	40.9	2.5	22	7/16
3/16	1/8	MC01501	31.9	3.5	12	12
3/16	1/4	MC01502	34.9	3.5	14	12
1/4	1/8	MC0201	33.8	5.0	12	9/16
1/4	1/4	MC0202	36.8	5.0	14	9/16
1/4	3/8	MC0203	38.8	5.0	17	9/16
1/4	1/2	MC0204	42.8	5.0	22	9/16
1/4	3/4	MC0206	45.8	5.0	27	9/16
3/8	1/8	MC0301	35.7	5.0	9/16	11/16
3/8	1/4	MC0302	38.7	7.0	9/16	11/16
3/8	3/8	MC0303	40.7	7.7	17	11/16
3/8	1/2	MC0304	44.7	7.7	22	11/16
3/8	3/4	MC0306	47.7	7.7	27	11/16
3/8	1	MC0308	53.7	7.7	35	11/16
1/2	1/8	MC0401	39.9	5.0	19	7/8
1/2	1/4	MC0402	42.9	7.0	19	7/8
1/2	3/8	MC0403	43.9	9.5	19	7/8
1/2	1/2	MC0404	46.9	10.0	22	7/8
1/2	3/4	MC0406	49.9	10.0	27	7/8
1/2	1	MC0408	55.9	10.0	35	7/8
5/8	3/8	MC0503	44.4	9.5	24	25
5/8	1/2	MC0504	48.4	12.0	24	25
5/8	3/4	MC0506	50.4	14.0	27	25
3/4	3/8	MC0603	45.9	9.5	27	1-1/8
3/4	1/2	MC0604	48.9	12.0	27	1-1/8
3/4	3/4	MC0606	50.9	15.0	27	1-1/8
3/4	1	MC0608	56.9	16.0	35	1-1/8
1	1/2	MC0804	55.4	12.0	35	1-1/2
1	3/4	MC0806	57.4	15.0	35	1-1/2
1	1	MC0808	60.4	20.0	35	1-1/2

- 除非另有說明，否則所有尺寸單位均為 mm。
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適用於熱電偶、汲取管及熱交換的暢通接頭

BORE-THROUGH FITTINGS FOR THERMOCOUPLES, DIP TUBES, AND HEAT EXCHANGER

TEES



- JPE 暢通式卡套外螺紋直通接頭可應用於熱電偶或汲取管。
- 大部分 JPE 卡套外螺紋連接都可做成暢通接頭，但管螺紋端相對於卡套管接頭端較小的外螺紋連接不能做成暢通，例：BS6-MC0301-N 或 BS6-MC801-N。
- JPE 暢通式卡套插管接頭 (ODTA) 和 JPE 卡套由任三通可用於形成一個熱交換三通。
- 若要訂購暢通 (貫穿) 型接頭，只需在產品型號後加上 T 即可。例：BS6-MC0202-R → BS6-MCT0202-R。

- JPE bore-through male connectors accommodate thermocouples or dip tubes.
- Most JPE male connectors can be made into an bore-through fitting, but male connectors whose tube thread end is smaller than the tube fitting end—such as BS6- MC0301-N or BS6-MC801-N cannot.
- JPE bore-through reducers (ODTA) and JPE union tees can be used to create a heat exchanger tee.
- To order bored-through (unblocked) fittings, add T to the ordering number.
Example: BS6-MC0202-R → BS6-MCT0202-R.

暢通式接頭的壓力等級較低

BORED-THROUGH FITTINGS HAVE A LOWER PRESSURE RATING

- 通常我們需要將卡套管的允許工作壓力 (如卡套管數據表 1 及表 2) 乘以下列表格內的係數。
- In general, we have to multiplied the allowable working pressure of the tube (as found on the Tube Data Table 1&2) by the factors in the table below.

壓力等級降低係數表 Reduced Pressure Rating Factors		
尺寸 (in.) Size (in.)	尺寸 (mm) Size (mm)	係數 Factor
最大 1/2 in. Up to 1/2 in.	最大 12mm Up to 12mm	0.75
超過 1/2 in. 到 3/4 in. Above 1/2 in. to 3/4 in.	超過 12mm 到 18mm Above 12 mm to 18 mm	0.5
超過 3/4 in. Above 3/4 in.	超過 18mm Above 18mm	0.25

MC GP1

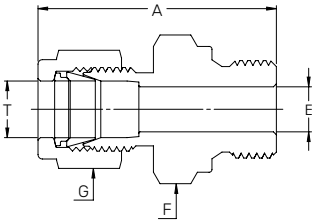
卡套外螺紋直通接頭直管 G

螺紋 P1 型密封

MALE CONNECTOR

PARALLEL G THREAD

P1 TYPE



公制 (METRIC)						
T 卡套管外徑 T TUBE O.D.	BSPP (G) 直管螺紋尺寸 BSPP (G) PARALLEL THREAD SIZE	PART NO.	A	E	F	G
6	1/8	MC601	33.1	5.0	14	9/16
6	1/4	MC602	37.6	5.0	19	9/16
6	3/8	MC603	38.6	5.0	22	9/16
6	1/2	MC604	43.6	5.0	27	9/16
8	1/8	MC801	34.3	5.0	14	5/8
8	1/4	MC802	38.8	6.0	19	5/8
8	3/8	MC803	39.8	6.0	22	5/8
8	1/2	MC804	45.3	6.0	27	5/8
10	1/4	MC1002	39.9	7.0	19	19
10	3/8	MC1003	40.9	8.0	22	19
10	1/2	MC1004	45.9	8.0	27	19
12	1/4	MC1202	41.7	7.0	19	7/8
12	3/8	MC1203	42.7	8.0	22	7/8
12	1/2	MC1204	47.7	10.0	27	7/8
12	3/4	MC1206	50.7	10.0	32	7/8

MC GP2

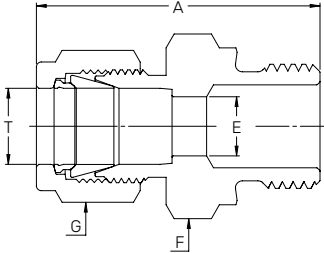
卡套外螺紋直通接頭直管 G

螺紋 P2 型密封

MALE CONNECTOR

PARALLEL G THREAD

P2 TYPE



公制 (METRIC)						
T 卡套管外徑 T TUBE O.D.	BSPP (G) 直管螺紋尺寸 BSPP (G) PARALLEL THREAD SIZE	PART NO.	A	E	F	G
6	1/8	MC601	33.1	5.0	14	9/16
6	1/4	MC602	37.6	5.0	19	9/16
6	3/8	MC603	38.6	5.0	22	9/16
6	1/2	MC604	43.6	5.0	27	9/16
8	1/8	MC801	34.3	5.0	14	5/8
8	1/4	MC802	38.8	6.0	19	5/8
8	3/8	MC803	39.8	6.0	22	5/8
8	1/2	MC804	45.3	6.0	27	5/8
10	1/4	MC1002	39.9	7.0	19	19
10	3/8	MC1003	40.9	8.0	22	19
10	1/2	MC1004	45.9	8.0	27	19
12	1/4	MC1202	41.7	7.0	19	7/8
12	3/8	MC1203	42.7	8.0	22	7/8
12	1/2	MC1204	47.7	10.0	27	7/8
12	3/4	MC1206	50.7	10.0	32	7/8

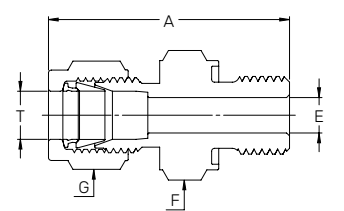
英制 (FRACTIONAL)						
T 卡套管外徑 T TUBE O.D.	BSPP (G) 直管螺紋尺寸 BSPP (G) PARALLEL THREAD SIZE	PART NO.	A	E	F	G
1/8	1/8	MC0101	31.4	2.5	14	7/16
1/8	1/4	MC0102	35.9	2.5	19	7/16
1/4	1/8	MC0201	33.3	5.0	14	9/16
1/4	1/4	MC0202	37.8	5.0	19	9/16
1/4	3/8	MC0203	38.8	5.0	22	9/16
1/4	1/2	MC0204	43.8	5.0	27	9/16
3/8	1/4	MC0302	39.7	7.0	19	11/16
3/8	3/8	MC0303	40.7	7.7	22	11/16
3/8	1/2	MC0304	45.7	7.7	27	11/16
1/2	1/4	MC0402	41.9	7.0	19	7/8
1/2	3/8	MC0403	42.9	8.0	22	7/8
1/2	1/2	MC0404	47.9	10.0	27	7/8
3/4	1/2	MC0604	49.4	12.0	27	1-1/8
3/4	3/4	MC0606	51.9	15.0	32	1-1/8
1	1/2	MC0804	55.4	12.0	35	1-1/2
1	3/4	MC0806	57.4	15.0	35	1-1/2
1	1	MC0808	59.4	20.0	41	1-1/2

- 除非另有說明，否則所有尺寸單位均為 mm。
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- 數值若是分數，表示其單位是 inch。
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- FRACTIONAL NUMBERS MEAN INCH SIZE.
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MC GE
卡套外螺紋直通接頭直管 G 螺紋
E 型密封 (ED 墊圈)
MALE CONNECTOR PARALLEL
G THREAD E TYPE (ED SEAL)

- * ED 墊圈 (ISO 1179)
- * ED SEAL(ISO 1179)



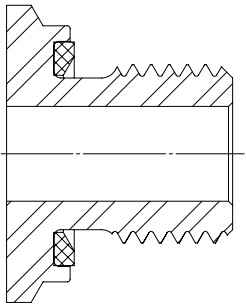
公制 (METRIC)						
T 卡套管外徑 T TUBE O.D.	BSPP (G) 直管螺紋尺寸 BSPP (G) PARALLEL THREAD SIZE	PART NO.	A	E	F	G
6	1/8	MC601	33.1	5.0	14	9/16
6	1/4	MC602	39.6	5.0	19	9/16
6	3/8	MC603	40.1	5.0	22	9/16
6	1/2	MC604	43.6	5.0	27	9/16
8	1/8	MC801	34.3	5.0	14	5/8
8	1/4	MC802	40.8	6.0	19	5/8
8	3/8	MC803	41.3	6.0	22	5/8
8	1/2	MC804	44.8	6.0	27	5/8
10	1/4	MC1002	41.9	7.0	19	19
10	3/8	MC1003	42.4	8.0	22	19
10	1/2	MC1004	44.9	8.0	27	19
12	1/4	MC1202	43.7	7.0	19	7/8
12	3/8	MC1203	44.2	8.0	22	7/8
12	1/2	MC1204	46.7	10.0	27	7/8
12	3/4	MC1206	50.7	10.0	32	7/8

英制 (FRACTIONAL)						
T 卡套管外徑 T TUBE O.D.	BSPP (G) 直管螺紋尺寸 BSPP (G) PARALLEL THREAD SIZE	PART NO.	A	E	F	G
1/8	1/8	MC0101	31.4	2.5	14	7/16
1/8	1/4	MC0102	37.9	2.5	19	7/16
1/4	1/8	MC0201	33.3	5.0	14	9/16
1/4	1/4	MC0202	39.8	5.0	19	9/16
1/4	3/8	MC0203	40.3	5.0	22	9/16
1/4	1/2	MC0204	43.8	5.0	27	9/16
3/8	1/4	MC0302	41.7	7.0	19	11/16
3/8	3/8	MC0303	42.2	7.7	22	11/16
3/8	1/2	MC0304	45.7	7.7	27	11/16
1/2	1/4	MC0402	43.9	7.0	19	7/8
1/2	3/8	MC0403	44.4	8.0	22	7/8
1/2	1/2	MC0404	47.9	10.0	27	7/8
3/4	1/2	MC0604	48.9	12.0	27	1-1/8
3/4	3/4	MC0606	51.9	15.0	32	1-1/8
1	1/2	MC0804	55.4	12.0	35	1-1/2
1	3/4	MC0806	57.4	15.0	35	1-1/2
1	1	MC0808	59.4	20.0	41	1-1/2

- 除非另有說明，否則所有尺寸單位均為 mm。
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ED 墊圈正確安裝圖示

ED SEAL INSTALLATION INSTRUCTIONS



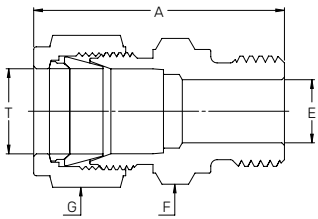
ISO / BSPP (G)	E 型密封用墊片 代號 ED SEAL DESIGNATOR	BSPP (G) 螺紋端工作壓力 MAX. BSPP (G) THREAD END WORKING PRESSURE MAX.		BSPP (G) 螺紋端安裝扭力 N. m +10%/-0% BSPP (G) THREAD END TORQUE N. m +10%/-0%
		psig	bar	
1/8	ED01	3600	250	20
1/4	ED02	9100	630	60
3/8	ED03	9100	630	90
1/2	ED04	5800	400	130
3/4	ED06	5800	400	200
1	ED08	5800	400	380

工作壓力額定值的選用基礎

WORKING PRESSURE RATING SELECTION BASIS

- 對於有卡套管接頭又有管螺紋端的接頭，其工作壓力值應由較低的端接來決定。
- 對於兩端有不同規格的接頭，其工作壓力值應由較低的端接來決定。
- If there are a tube fitting end and a thread end, working pressure rating is decided by the lower one.
- If there are two different end types, working pressure rating is decided by the lower one.

MC GS
卡套外螺紋直通接頭直管 G
螺紋 S 型密封
MALE CONNECTOR
PARALLEL G THREAD S
TYPE

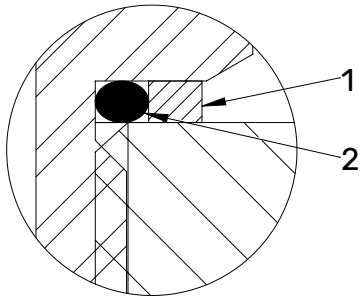


公制 (METRIC)						
T 卡套管外徑 T TUBE O.D.	BSPP (G) 直管螺紋尺寸 BSPP (G) PARALLEL THREAD SIZE	PART NO.	A	E	F	G
6	1/8	MC601	33.1	5.0	14	9/16
6	1/4	MC602	37.6	5.0	19	9/16
6	3/8	MC603	38.6	5.0	22	9/16
6	1/2	MC604	43.6	5.0	27	9/16
8	1/8	MC801	34.3	5.0	14	5/8
8	1/4	MC802	38.8	6.0	19	5/8
8	3/8	MC803	39.8	6.0	22	5/8
8	1/2	MC804	45.3	6.0	27	5/8
10	1/4	MC1002	39.9	7.0	19	19
10	3/8	MC1003	40.9	8.0	22	19
10	1/2	MC1004	45.9	8.0	27	19
12	1/4	MC1202	41.7	7.0	19	7/8
12	3/8	MC1203	42.7	8.0	22	7/8
12	1/2	MC1204	47.7	10.0	27	7/8
12	3/4	MC1206	50.7	10.0	32	7/8

英制 (FRACTIONAL)						
T 卡套管外徑 T TUBE O.D.	BSPP (G) 直管螺紋尺寸 BSPP (G) PARALLEL THREAD SIZE	PART NO.	A	E	F	G
1/8	1/8	MC0101	31.4	2.5	14	7/16
1/8	1/4	MC0102	35.9	2.5	19	7/16
1/4	1/8	MC0201	33.3	5.0	14	9/16
1/4	1/4	MC0202	37.8	5.0	19	9/16
1/4	3/8	MC0203	38.8	5.0	22	9/16
1/4	1/2	MC0204	43.8	5.0	27	9/16
3/8	1/4	MC0302	39.7	7.0	19	11/16
3/8	3/8	MC0303	40.7	7.7	22	11/16
3/8	1/2	MC0304	45.7	7.7	27	11/16
1/2	1/4	MC0402	41.9	7.0	19	7/8
1/2	3/8	MC0403	42.9	8.0	22	7/8
1/2	1/2	MC0404	47.9	10.0	27	7/8
3/4	1/2	MC0604	49.4	12.0	27	1-1/8
3/4	3/4	MC0606	51.9	15.0	32	1-1/8
1	1/2	MC0804	55.4	12.0	35	1-1/2
1	3/4	MC0806	57.4	15.0	35	1-1/2
1	1	MC0808	59.4	20.0	41	1-1/2

密封件組裝示意圖

ASSEMBLY OF SEALS



1. 支撐環 Retaining ring
2. O-ring

ISO / BSPP (G)	O-RINGS 代號 O-RINGS DESIGNATOR	BSPP (G) 螺紋端工作壓力 MAX. BSPP (G) THREAD END WORKING PRESSURE MAX.		BSPP (G) 螺紋端安裝扭力 N. m +10%/-0% BSPP (G) THREAD END TORQUE N. m +10%/-0%	支撐環 ^A 內徑 * 外徑 * 厚度 RETAINING RING ^A I.D.*O.D.*W
		psig	bar		
1/8	P-8	4500	315	25	12.2*15*1.4
1/4	AS111	4500	315	50	16.15*19.5*1.9
3/8	AS113	4500	315	80	19.5*23.5*1.9
1/2	AS115	3600	250	105	23.3*28.5*1.9
3/4	AS119	3600	250	220	28.6*34.5*1.9
1	AS217	3600	250	370	36.6*43.5*2.6

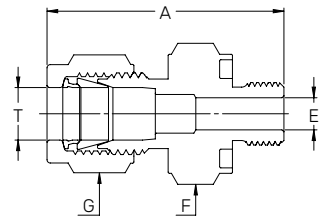
* A: 支撐環為選配件, 若有需求請洽 JPE 銷售人員訂購。
* A: Retaining ring is optional accessory, for any demand, please contact authorized JPE representative.

※ 工作壓力額定值的選用基礎 WORKING PRESSURE RATING SELECTION BASIS

- 對於有卡套管接頭又有管螺紋端的接頭, 其工作壓力值應由較低的端接來決定。
- 對於兩端有不同規格的接頭, 其工作壓力值應由較低的端接來決定。
- If there are a tube fitting end and a thread end, working pressure rating is decided by the lower one.
- If there are two different end types, working pressure rating is decided by the lower one.

• 除非另有說明, 否則所有尺寸單位均為 mm。
• 數值若是分數, 表示其單位是 inch。
• 上述尺寸僅供參考, 修改不另行通知。
• ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
• FRACTIONAL NUMBERS MEAN INCH SIZE.
• DIMENSIONS SHOWN ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE.

MC GO
卡套外螺紋直通接頭直管 G
螺紋 O 型密封
MALE CONNECTOR
PARALLEL G THREAD O
TYPE



公制 (METRIC)						
T 卡套管外徑 T TUBE O.D.	BSPP (G) 直管螺紋尺寸 BSPP (G) PARALLEL THREAD SIZE	PART NO.	A	E	F	G
6	1/8	MC601	35.6	5.0	19	9/16
6	1/4	MC602	40.1	5.0	24	9/16
6	3/8	MC603	40.6	5.0	30	9/16
6	1/2	MC604	44.6	5.0	35	9/16
8	1/8	MC801	36.8	5.0	19	5/8
8	1/4	MC802	41.3	6.0	24	5/8
8	3/8	MC803	41.8	6.0	30	5/8
8	1/2	MC804	45.8	6.0	35	5/8
10	1/4	MC1002	42.4	7.0	24	19
10	3/8	MC1003	42.9	8.0	30	19
10	1/2	MC1004	46.9	8.0	35	19
12	1/4	MC1202	44.2	7.0	24	7/8
12	3/8	MC1203	44.7	8.0	30	7/8
12	1/2	MC1204	48.7	10.0	35	7/8
12	3/4	MC1206	52.7	10.0	38	7/8

英制 (FRACTIONAL)						
T 卡套管外徑 T TUBE O.D.	BSPP (G) 直管螺紋尺寸 BSPP (G) PARALLEL THREAD SIZE	PART NO.	A	E	F	G
1/8	1/8	MC0101	31.9	2.5	19	7/16
1/8	1/4	MC0102	37.4	2.5	24	7/16
1/4	1/8	MC0201	35.8	5.0	19	9/16
1/4	1/4	MC0202	40.3	5.0	24	9/16
1/4	3/8	MC0203	40.8	5.0	30	9/16
1/4	1/2	MC0204	44.8	5.0	35	9/16
3/8	1/4	MC0302	42.2	7.0	24	11/16
3/8	3/8	MC0303	42.7	7.7	30	11/16
3/8	1/2	MC0304	46.7	7.7	35	11/16
1/2	1/4	MC0402	44.4	7.0	24	7/8
1/2	3/8	MC0403	44.9	8.0	30	7/8
1/2	1/2	MC0404	48.9	10.0	35	7/8
3/4	1/2	MC0604	49.9	12.0	35	1-1/8
3/4	3/4	MC0606	51.9	15.0	38	1-1/8
1	1/2	MC0804	55.4	12.0	35	1-1/2
1	3/4	MC0806	57.4	15.0	38	1-1/2
1	1	MC0808	59.4	20.0	46	1-1/2

ISO / BSPP (G)	O-RINGS 代號 O-RINGS DESIGNATOR	BSPP (G) 螺紋端工作壓力 MAX. BSPP (G) THREAD END WORKING PRESSURE MAX.		BSPP (G) 螺紋端安裝扭力 N. m +10%/-0% BSPP (G) THREAD END TORQUE N. m +10%/-0%
		psig	bar	
1/8	AS111	4500	315	25
1/4	AS113	4500	315	50
3/8	AS116	4500	315	80
1/2	AS212	3600	250	105
3/4	AS215	3600	250	220
1	AS219	3600	250	370

※ 工作壓力額定值的選用基礎 WORKING PRESSURE RATING SELECTION BASIS

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- 對於兩端有不同規格的接頭，其工作壓力值應由較低的端接來決定。
- If there are a tube fitting end and a thread end, working pressure rating is decided by the lower one.
- If there are two different end types, working pressure rating is decided by the lower one.

- 除非另有說明，否則所有尺寸單位均為 mm。
- 數值若是分數，表示其單位是 inch。
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GO 型接頭安裝尺寸

MOUNTING DIMENSIONS FOR GO-TYPE FITTINGS

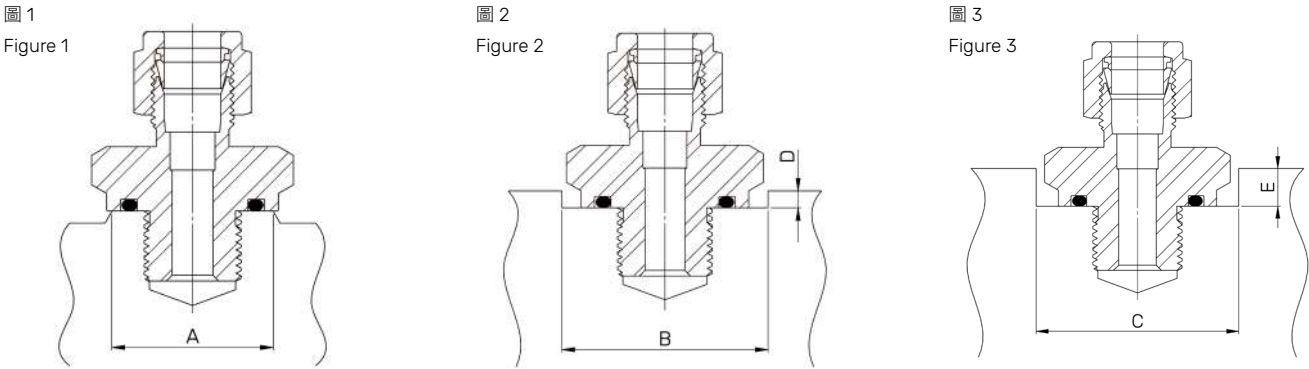
- 圖 1 - 凸起型：保證最小直徑，防止 O 型圈擠出。

• 圖 2 - 嵌入型：保證凹孔最小直徑，使得接頭圓形肩部可以嵌入凹孔。

• 圖 3 - 深嵌入型：保證凹孔最小直徑，使得接頭六角面可以嵌入凹孔。
- Figure 1 - for a raised surface, the minimum diameter prevents O-ring extrusion.

• Figure 2 - for a recessed hole, the minimum diameter allows the round shoulder of the O-ring fitting into the recess.

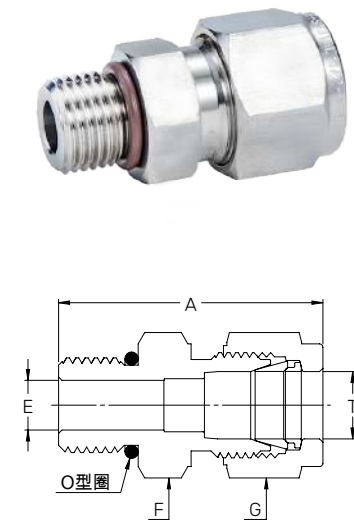
• Figure 3 - for a recessed hole, the minimum diameter allows the hex of the O-ring fitting into the recess.



ISO / BSPP (G)	A 最小直徑 MIN DIA	B 最小直徑 MIN DIA	C 最小直徑 MIN DIA	D 最大深度 MAX DEPTH	E 最大深度 MAX DEPTH
1/8	12.7	15	16.8	2.2	5.5
1/4	17.6	19.9	22.4	4	7.1
3/8	20.6	24.7	27.7	4	7.8
1/2	25.4	29.5	33.3	4	8.6
3/4	35.9	38.9	44.5	5.5	12.7
1	43	45.3	51.6	5.5	14.2

單位:mm
Unit:mm

MC SAE
卡套外螺紋直通接頭直管
SAE 螺紋 O 型圈密封
MALE CONNECTOR SAE
THREAD



公制 (METRIC)						
T 卡套管外徑 T TUBE O.D.	BSPP (G) 直管螺紋尺寸 BSPP (G) PARALLEL THREAD SIZE	PART NO.	A	E	F	G
6	7/16-20	MC6SAE4	35.6	4.5	17	9/16
6	1/2-20	MC6SAE5	36.6	5	19	9/16
6	9/16-18	MC6SAE6	37.6	5	19	9/16
6	3/4-16	MC6SAE8	40.6	5	24	9/16
8	7/16-20	MC8SAE4	36.8	4.5	17	5/8
8	1/2-20	MC8SAE5	37.8	6	19	5/8
8	9/16-18	MC8SAE6	38.8	6	19	5/8
8	3/4-16	MC8SAE8	41.8	6	24	5/8
10	7/16-20	MC10SAE4	37.9	4.5	17	19
10	1/2-20	MC10SAE5	38.9	6	19	19
10	9/16-18	MC10SAE6	39.9	7.5	19	19
10	3/4-16	MC10SAE8	42.9	8	24	19
12	7/16-20	MC12SAE4	40.7	4.5	19	7/8
12	1/2-20	MC12SAE5	40.7	6	19	7/8
12	9/16-18	MC12SAE6	41.7	7.5	19	7/8
12	3/4-16	MC12SAE8	44.7	9.6	24	7/8

英制 (FRACTIONAL)						
T 卡套管外徑 T TUBE O.D.	BSPP (G) 直管螺紋尺寸 BSPP (G) PARALLEL THREAD SIZE	PART NO.	A	E	F	G
1/8	7/16-20	MC01SAE4	33.9	2.5	17	7/16
1/8	1/2-20	MC01SAE5	34.9	2.5	19	7/16
1/8	9/16-18	MC01SAE6	35.9	2.5	19	7/16
1/4	7/16-20	MC02SAE4	35.8	4.5	17	9/16
1/4	1/2-20	MC02SAE5	36.8	5	19	9/16
1/4	9/16-18	MC02SAE6	37.8	5	19	9/16
1/4	3/4-16	MC02SAE8	40.8	5	24	9/16
3/8	7/16-20	MC03SAE4	37.7	4.5	17	11/16
3/8	1/2-20	MC03SAE5	38.7	6	19	11/16
3/8	9/16-18	MC03SAE6	39.7	7.5	19	11/16
3/8	3/4-16	MC03SAE8	42.7	7.7	24	11/16
3/8	7/8-14	MC03SAE10	44.7	7.7	27	11/16
1/2	9/16-18	MC04SAE6	41.9	7.5	19	7/8
1/2	3/4-16	MC04SAE8	44.9	9.6	24	7/8
1/2	7/8-14	MC04SAE10	46.9	10	27	7/8
1/2	1-1/16-12	MC04SAE12	52.4	10	35	7/8
3/4	3/4-16	MC06SAE8	45.9	9.6	27	1-1/8
3/4	7/8-14	MC06SAE10	47.9	12.5	27	1-1/8
3/4	1-1/16-12	MC06SAE12	53.4	12.5	35	1-1/8
1	1-1/16-12	MC08SAE12	56.9	15.5	35	1-1/2

SAE 螺紋尺寸 SAE THREAD SIZE	代號 DESIGNATOR	O-RINGS 代號 O-RINGS DESIGNATOR	SAE 螺紋端工作壓力 MAX. SAE THREAD END WORKING PRESSURE MAX.		SAE 螺紋端安裝扭力^ N. m +10%/-0% SAE THREAD END TORQUE ^ N. m +10%/-0%
			psig	bar	
3/8-24	SAE3	AS903	9130	630	15
7/16-20	SAE4	AS904			35
1/2-20	SAE5	AS905			40
9/16-18	SAE6	AS906			45
3/4-16	SAE8	AS908			85
7/8-14	SAE10	AS910			115
1-1/16-12	SAE12	AS912	6090	420	170
1-3/16-12	SAE14	AS914			215
1-5/16-12	SAE16	AS916			270

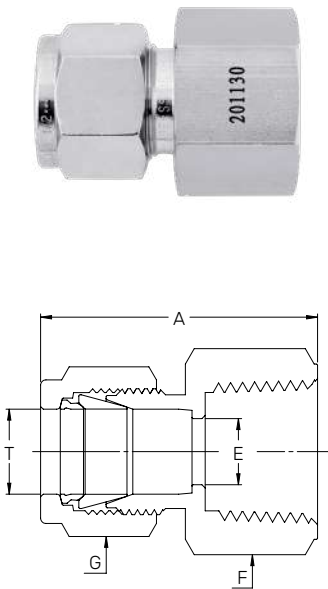
* A：此安裝扭力為建議數據，僅提供參考。某些因素會影響安裝扭力值，例：潤滑油、表面塗層等

* A：The torque data is for reference only. It will be influenced by some factors, ex:lube oil or coating etc.

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 - 對於兩端有不同規格的接頭，其工作壓力值應由較低的端接來決定
 - If there are a tube fitting end and a thread end, working pressure rating is decided by the lower one.
 - If there are two different end types, working pressure rating is decided by the lower one.

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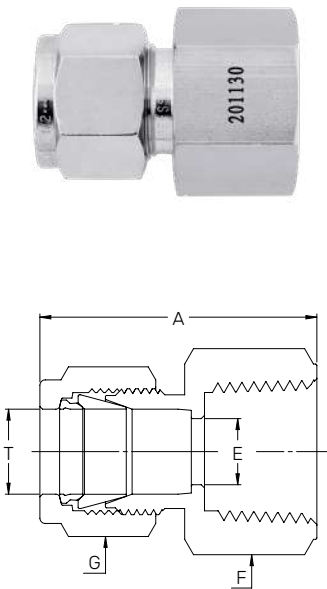
FC
卡套內螺紋直通接頭
FEMALE
CONNECTOR



公制 (METRIC)						
T 卡套管外徑 T TUBE O.D.	BSPT / NPT 錐管螺紋尺寸 BSPT / NPT TAPERED THREAD SIZE	PART NO.	A	E	F	G
6	1/8	FC601	32.6	5.0	14	9/16
6	1/4	FC602	33.6	5.0	17	9/16
6	3/8	FC603	34.6	5.0	22	9/16
6	1/2	FC604	37.6	5.0	27	9/16
8	1/8	FC801	33.8	6.0	14	5/8
8	1/4	FC802	34.8	6.0	17	5/8
8	3/8	FC803	35.8	6.0	22	5/8
8	1/2	FC804	38.8	6.0	27	5/8
10	1/8	FC1001	34.9	8.0	17	19
10	1/4	FC1002	35.9	8.0	17	19
10	3/8	FC1003	36.9	8.0	22	19
10	1/2	FC1004	39.9	8.0	27	19
12	1/8	FC1201	38.7	8.0	19	7/8
12	1/4	FC1202	38.7	10.0	19	7/8
12	3/8	FC1203	38.7	10.0	22	7/8
12	1/2	FC1204	43.7	10.0	27	7/8
12	3/4	FC1206	43.7	10.0	32	7/8
14	3/8	FC1403	41.4	12.0	24	25
14	1/2	FC1404	42.4	12.0	27	25
14	3/4	FC1406	44.4	12.0	32	25
15	3/8	FC1503	41.5	12.0	24	25
15	1/2	FC1504	42.5	12.0	27	25
15	3/4	FC1506	44.5	12.0	32	25
16	3/8	FC1603	41.7	14.0	24	25
16	1/2	FC1604	42.7	14.0	27	25
16	3/4	FC1606	44.7	14.0	32	25
18	3/8	FC1803	42.4	14.0	27	30
18	1/2	FC1804	42.4	16.0	27	30
18	3/4	FC1806	44.4	16.0	32	30
20	1/2	FC2004	44.0	18.0	30	32
20	3/4	FC2006	44.0	18.0	32	32
20	1	FC2008	51.0	18.0	41	32
22	1/2	FC2204	44.3	18.0	30	32
22	3/4	FC2206	44.3	18.0	32	32
22	1	FC2208	50.3	18.0	41	32
25	3/4	FC2506	54.4	20.0	35	1-1/2
25	1	FC2508	57.4	20.0	41	1-1/2

- 除非另有說明，否則所有尺寸單位均為 mm。
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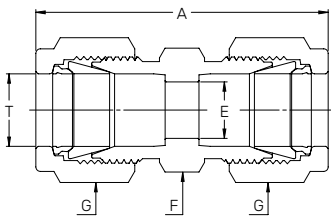
FC
卡套內螺紋直通接頭
FEMALE CONNECTOR



英制 (FRACTIONAL)						
T 卡套管外徑 T TUBE O.D.	BSPT / NPT 錐管螺紋尺寸 BSPT / NPT TAPERED THREAD SIZE	PART NO.	A	E	F	G
1/8	1/8	FC0101	29.9	2.5	14	7/16
1/8	1/4	FC0102	31.9	2.5	17	7/16
1/8	3/8	FC0103	32.9	2.5	22	7/16
1/4	1/8	FC0201	31.8	5.0	14	9/16
1/4	1/4	FC0202	33.8	5.0	17	9/16
1/4	3/8	FC0203	34.8	5.0	22	9/16
1/4	1/2	FC0204	37.8	5.0	27	9/16
3/8	1/8	FC0301	33.7	7.7	9/16	11/16
3/8	1/4	FC0302	35.7	7.7	17	11/16
3/8	3/8	FC0303	36.7	7.7	22	11/16
3/8	1/2	FC0304	39.7	7.7	27	11/16
3/8	3/4	FC0306	41.7	7.7	32	11/16
1/2	1/4	FC0402	39.9	10.0	19	7/8
1/2	3/8	FC0403	40.9	10.0	22	7/8
1/2	1/2	FC0404	41.9	10.0	27	7/8
1/2	3/4	FC0406	43.9	10.0	32	7/8
5/8	3/8	FC0503	41.4	14.0	24	25
5/8	1/2	FC0504	42.4	14.0	27	25
5/8	3/4	FC0506	44.4	14.0	32	25
3/4	1/2	FC0604	44.9	16.0	27	1-1/8
3/4	3/4	FC0606	44.9	16.0	32	1-1/8
3/4	1	FC0608	51.9	16.0	41	1-1/8
1	3/4	FC0806	52.4	20.0	35	1-1/2
1	1	FC0808	57.4	20.0	41	1-1/2

- 除非另有說明，否則所有尺寸單位均為 mm。
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U
卡套直通由任接頭
EQUAL UNION

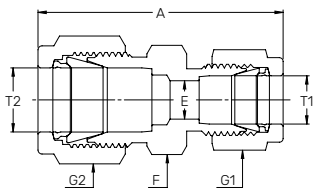


公制 (METRIC)					
T 卡套管外徑 T TUBE O.D.	PART NO.	A	E	F	G
3	U3	35.4	2.5	10	7/16
6	U6	41.1	5.0	12	9/16
8	U8	44.7	6.0	14	5/8
10	U10	46.8	8.0	17	19
12	U12	51.4	10.0	19	7/8
14	U14	52.8	12.0	24	25
15	U15	53.1	12.0	24	25
16	U16	53.4	14.0	24	25
18	U18	53.8	16.0	27	30
20	U20	52.1	18.0	30	32
22	U22	52.7	18.0	30	32
25	U25	64.8	20.0	35	1-1/2

英制 (FRACTIONAL)					
T 卡套管外徑 T TUBE O.D.	PART NO.	A	E	F	G
1/16	U005	28.0	1.3	10	10
1/8	U01	37.8	2.5	10	7/16
3/16	U015	37.9	3.5	12	12
1/4	U02	41.7	5.0	12	9/16
3/8	U03	45.5	7.7	9/16	11/16
1/2	U04	51.8	10.0	19	7/8
5/8	U05	52.8	14.0	24	25
3/4	U06	54.9	16.0	27	1-1/8
1	U08	64.8	20.0	35	1-1/2

- 除非另有說明，否則所有尺寸單位均為 mm。
- 數值若是分數，表示其單位是 inch。
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- FRACTIONAL NUMBERS MEAN INCH SIZE.
- DIMENSIONS SHOWN ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE.

RU
異徑卡套直通由任接頭
REDUCING UNION



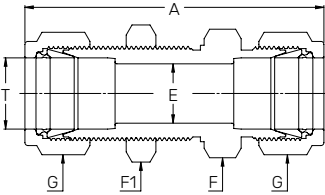
公制 (METRIC)							
T1 卡套管外徑 T1 TUBE O.D.	T2 卡套管外徑 T2 TUBE O.D.	PART NO.	A	E	F	G1	G2
3	4	RU34	37.7	2.5	12	7/16	12
6	8	RU68	43.4	5.0	14	9/16	5/8
6	10	RU610	44.5	5.0	17	9/16	19
6	12	RU612	46.3	5.0	19	9/16	7/8
8	10	RU810	46.7	6.0	17	5/8	19
8	12	RU812	48.5	6.0	19	5/8	7/8
10	12	RU1012	49.6	8.0	19	19	7/8
12	16	RU1216	52.4	10.0	24	7/8	25
12	18	RU1218	53.1	10.0	27	7/8	30
18	25	RU1825	60.8	16.0	35	30	1-1/2
20	25	RU2025	59.5	18.0	35	32	1-1/2

英制 (FRACTIONAL)							
T1 卡套管外徑 T1 TUBE O.D.	T2 卡套管外徑 T2 TUBE O.D.	PART NO.	A	E	F	G1	G2
1/16	1/8	RU00501	32.9	1.3	10	10	7/16
1/16	1/4	RU00502	34.8	1.3	12	10	9/16
1/8	3/16	RU01015	37.9	2.5	12	7/16	12
1/8	1/4	RU0102	39.7	2.5	12	7/16	9/16
1/8	3/8	RU0103	41.6	2.5	9/16	7/16	11/16
1/4	3/16	RU02015	39.8	3.5	12	9/16	12
1/4	3/8	RU0203	43.6	5.0	9/16	9/16	11/16
1/4	1/2	RU0204	47.7	5.0	19	9/16	7/8
3/8	1/2	RU0304	49.6	7.7	19	11/16	7/8
3/8	3/4	RU0306	51.7	7.7	27	11/16	1-1/8
1/2	3/4	RU0406	53.8	10.0	27	7/8	1-1/8
1/2	1	RU0408	60.3	10.0	35	7/8	1-1/2
3/4	1	RU0608	61.3	16.0	35	1-1/8	1-1/2

公制 x 英制 (METRIC x FRACTIONAL)							
T1 卡套管外徑 T1 TUBE O.D.	T2 卡套管外徑 T2 TUBE O.D.	PART NO.	A	E	F	G1	G2
6	1/4	RU602	41.4	5.0	12	9/16	9/16
6	3/8	RU603	43.8	5.0	9/16	9/16	11/16
8	1/4	RU802	42.7	5.0	14	5/8	9/16
8	3/8	RU803	44.6	6.0	9/16	5/8	11/16
10	1/4	RU1002	44.7	5.0	17	19	9/16
10	3/8	RU1003	46.6	7.7	17	19	11/16
12	3/8	RU1203	48.4	7.7	19	7/8	11/16
12	1/2	RU1204	51.6	10.0	19	7/8	7/8

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- FRACTIONAL NUMBERS MEAN INCH SIZE.
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BU
卡套穿板直通由任接頭
BULKHEAD UNION

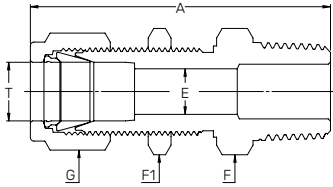


公制 (METRIC)								
T 卡套管 外徑 T TUBE O.D.	PART NO.	A	E	F	F ₁	G	面板孔徑 min. PANEL ORIFICE min.	面板厚度 MAX. PANEL THICKNESS MAX.
6	BU6	58.2	5.0	17	17	9/16	11.5	10.2
8	BU8	62.6	6.0	19	19	5/8	13.1	11.2
10	BU10	64.8	8.0	22	21	19	16.3	11.2
12	BU12	70.4	10.0	24	24	7/8	19.5	12.7
14	BU14	73.8	12.0	27	27	25	22.8	12.7
15	BU15	74.0	12.0	27	27	25	22.8	12.7
16	BU16	74.4	14.0	27	27	25	22.8	12.7
18	BU18	80.8	16.0	30	32	30	26.0	16.8
20	BU20	91.0	18.0	35	35	32	29.0	19.0
22	BU22	91.6	18.0	35	35	32	29.0	19.0
25	BU25	95.8	22.0	41	41	1-1/2	33.8	19.0

英制 (FRACTIONAL)								
T 卡套管 外徑 T TUBE O.D.	PART NO.	A	E	F	F ₁	G	面板孔徑 min. PANEL ORIFICE min.	面板厚度 MAX. PANEL THICKNESS MAX.
1/8	BU01	51.8	2.5	12	12	7/16	8.5	12.7
1/4	BU02	58.6	5.0	17	17	9/16	11.5	10.2
3/8	BU03	64.4	7.7	19	19	11/16	14.7	11.2
1/2	BU04	71.8	10.0	24	24	7/8	19.5	12.7
3/4	BU06	81.8	16.0	30	32	1-1/8	25.8	16.8
1	BU08	95.7	22.0	41	41	1-1/2	33.8	19.0

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BMC
卡套外螺紋穿板直通接頭
BULKHEAD MALE
CONNECTOR

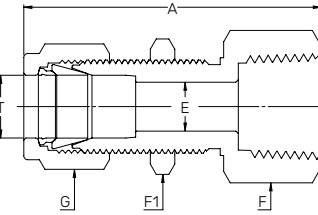


公制 (METRIC)									
T 卡套管 外徑 T TUBE O.D.	BSPT / NPT 錐管螺紋尺寸 BSPT / NPT TAPERED THREAD SIZE	PART NO.	A	E	F	F ₁	G	面板孔徑 min. PANEL ORIFICE min.	面板厚度 MAX. PANEL THICKNESS MAX.
6	1/8	BMC601	50.6	5.0	17	17	9/16	11.5	10.2
6	1/4	BMC602	53.6	5.0	17	17	9/16	11.5	10.2
6	3/8	BMC603	54.6	5.0	22	17	9/16	11.5	10.2
6	1/2	BMC604	58.6	5.0	24	17	9/16	11.5	10.2
8	1/8	BMC801	52.8	5.0	19	19	5/8	13.5	11.2
8	1/4	BMC802	55.8	6.0	19	19	5/8	13.5	11.2
8	3/8	BMC803	56.8	6.0	22	19	5/8	13.5	11.2
8	1/2	BMC804	60.8	6.0	24	19	5/8	13.5	11.2
10	1/4	BMC1002	57.9	7.0	19	21	19	16.5	11.2
10	3/8	BMC1003	58.9	8.0	22	21	19	16.5	11.2
10	1/2	BMC1004	61.9	8.0	24	21	19	16.5	11.2
12	1/4	BMC1202	61.7	7.0	24	24	7/8	20.5	12.7
12	3/8	BMC1203	62.7	9.5	24	24	7/8	20.5	12.7
12	1/2	BMC1204	65.7	10.0	24	24	7/8	20.5	12.7

英制 (FRACTIONAL)									
T 卡套管 外徑 T TUBE O.D.	BSPT / NPT 錐管螺紋尺寸 BSPT / NPT TAPERED THREAD SIZE	PART NO.	A	E	F	F ₁	G	面板孔徑 min. PANEL ORIFICE min.	面板厚度 MAX. PANEL THICKNESS MAX.
1/4	1/8	BMC0201	50.8	5.0	17	17	9/16	11.5	10.2
1/4	1/4	BMC0202	53.8	5.0	17	17	9/16	11.5	10.2
1/4	3/8	BMC0203	54.8	5.0	19	17	9/16	11.5	10.2
1/4	1/2	BMC0204	58.8	5.0	22	17	9/16	11.5	10.2
3/8	1/8	BMC0301	54.7	5.0	19	19	11/16	14.7	11.2
3/8	1/4	BMC0302	57.7	7.0	19	19	11/16	14.7	11.2
3/8	3/8	BMC0303	58.7	7.7	19	19	11/16	14.7	11.2
3/8	1/2	BMC0304	61.7	7.7	22	19	11/16	14.7	11.2
1/2	1/4	BMC0402	61.9	7.0	24	24	7/8	19.5	12.7
1/2	3/8	BMC0403	62.9	9.5	24	24	7/8	19.5	12.7
1/2	1/2	BMC0404	65.9	10.0	24	24	7/8	19.5	12.7

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BFC
卡套內螺紋穿板直通接頭
BULKHEAD FEMALE
CONNECTOR

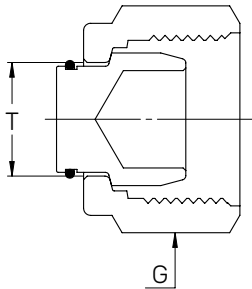


公制 (METRIC)									
T 卡套管 外徑 T TUBE O.D.	BSPT / NPT 錐管螺紋尺寸 BSPT / NPT TAPERED THREAD SIZE	PART NO.	A	E	F	F ₁	G	面板孔徑 min. PANEL ORIFICE min.	面板厚度 MAX. PANEL THICKNESS MAX.
6	1/8	BFC601	48.6	5.0	17	17	9/16	11.5	10.2
6	1/4	BFC602	49.6	5.0	17	17	9/16	11.5	10.2
8	1/8	BFC801	50.8	6.0	19	19	5/8	13.1	11.2
8	1/4	BFC802	51.8	6.0	19	19	5/8	13.1	11.2
10	1/4	BFC1002	52.9	8.0	22	21	19	16.3	11.2
10	3/8	BFC1003	53.9	8.0	22	21	19	16.3	11.2
12	3/8	BFC1203	57.7	10.0	24	24	7/8	19.5	12.7
12	1/2	BFC1204	60.7	10.0	27	24	7/8	19.5	12.7

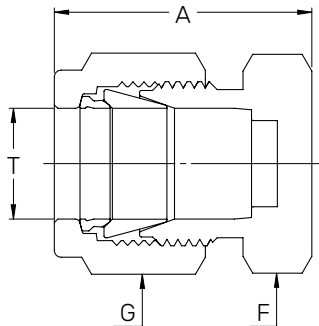
英制 (FRACTIONAL)									
T 卡套管 外徑 T TUBE O.D.	BSPT / NPT 錐管螺紋尺寸 BSPT / NPT TAPERED THREAD SIZE	PART NO.	A	E	F	F ₁	G	面板孔徑 min. PANEL ORIFICE min.	面板厚度 MAX. PANEL THICKNESS MAX.
1/4	1/8	BFC0201	48.8	5.0	17	17	9/16	11.5	16.4
1/4	1/4	BFC0202	49.8	5.0	17	17	9/16	11.5	16.4
1/4	3/8	BFC0203	50.8	5.0	22	17	9/16	11.5	16.4
3/8	1/4	BFC0302	52.7	7.7	19	19	11/16	14.7	16.7
3/8	3/8	BFC0303	53.7	7.7	22	19	11/16	14.7	16.7
3/8	1/2	BFC0304	56.7	7.7	27	19	11/16	14.7	16.7
1/2	3/8	BFC0403	57.9	10.0	24	24	7/8	19.5	17.6
1/2	1/2	BFC0404	60.9	10.0	27	24	7/8	19.5	17.6

- 除非另有說明，否則所有尺寸單位均為 mm。
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P
卡套堵頭
PLUG



C
鋼管堵頭
CAP

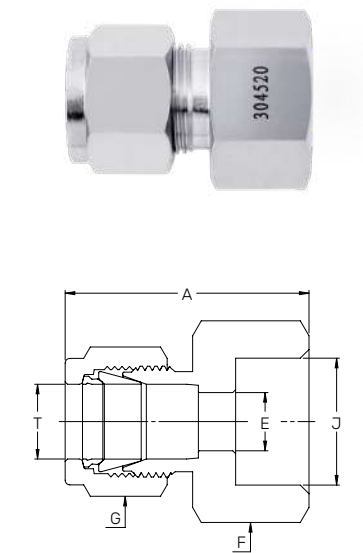


公制 (METRIC)			英制 (FRACTIONAL)		
T 卡套管外徑 T TUBE O.D.	PART NO.	G	T 卡套管外徑 T TUBE O.D.	PART NO.	G
6	P6	9/16	1/16	P005	10
8	P8	5/8	1/8	P01	7/16
10	P10	19	1/4	P02	9/16
12	P12	7/8	3/8	P03	11/16
14	P14	25	1/2	P04	7/8
15	P15	25	3/4	P06	1-1/8
16	P16	25	1	P08	1-1/2
18	P18	30			
20	P20	32			
22	P22	32			
25	P25	1-1/2			

公制 (METRIC)				
T 卡套管外徑 T TUBE O.D.	PART NO.	A	F	G
3	C3	21.7	10	7/16
6	C6	23.6	12	9/16
8	C8	24.8	14	5/8
10	C10	26.9	17	19
12	C12	29.7	22	7/8
14	C14	31.4	24	25
15	C15	31.5	24	25
16	C16	31.7	24	25
18	C18	31.4	27	30
20	C20	31.0	30	32
22	C22	31.3	30	32
25	C25	38.4	35	1-1/2

英制 (FRACTIONAL)				
T 卡套管外徑 T TUBE O.D.	PART NO.	A	F	G
1/16	C005	15.0	10	10
1/8	C01	21.9	10	7/16
3/16	C015	21.9	10	12
1/4	C02	23.8	12	9/16
3/8	C03	26.7	17	11/16
1/2	C04	29.9	22	7/8
3/4	C06	31.9	27	1-1/8
1	C08	38.4	35	1-1/2

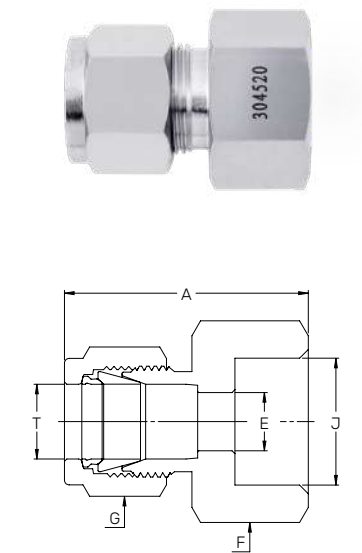
ODSW
卡套套焊接頭
SOCKET WELD UNION



公制 (METRIC)							
T 卡套管外徑 T TUBE O.D.	PIPE 焊接 尺寸 PIPE WELD SIZE	PART NO.	A	E	F	G	J
6	1/8	ODSW601	32.6	5.0	17	9/16	10.8
6	1/4	ODSW602	33.6	5.0	19	9/16	14.2
6	3/8	ODSW603	34.6	5.0	24	9/16	17.6
6	1/2	ODSW604	37.6	5.0	30	9/16	21.8
8	1/8	ODSW801	33.8	6.0	17	5/8	10.8
8	1/4	ODSW802	34.8	6.0	19	5/8	14.2
8	3/8	ODSW803	35.8	6.0	24	5/8	17.6
8	1/2	ODSW804	38.8	6.0	30	5/8	21.8
10	1/8	ODSW1001	34.9	8.0	17	19	10.8
10	1/4	ODSW1002	35.9	8.0	19	19	14.2
10	3/8	ODSW1003	36.9	8.0	24	19	17.6
10	1/2	ODSW1004	39.9	8.0	30	19	21.8
10	3/4	ODSW1006	41.9	8.0	35	19	27.2
12	1/8	ODSW1201	38.7	10.0	19	7/8	10.8
12	1/4	ODSW1202	38.7	10.0	19	7/8	14.2
12	3/8	ODSW1203	38.7	10.0	24	7/8	17.6
12	1/2	ODSW1204	43.7	10.0	30	7/8	21.8
12	3/4	ODSW1206	43.7	10.0	35	7/8	27.2
12	1	ODSW1208	50.7	10.0	41	7/8	33.9
14	3/8	ODSW1403	41.4	12.0	24	25	17.6
14	1/2	ODSW1404	42.4	12.0	30	25	21.8
14	3/4	ODSW1406	44.4	12.0	35	25	27.2
15	3/8	ODSW1503	41.5	12.0	24	25	17.6
15	1/2	ODSW1504	42.5	12.0	30	25	21.8
15	3/4	ODSW1506	44.5	12.0	35	25	27.2
16	3/8	ODSW1603	41.7	14.0	24	25	17.6
16	1/2	ODSW1604	42.7	14.0	30	25	21.8
16	3/4	ODSW1606	44.7	14.0	35	25	27.2
18	3/8	ODSW1803	41.4	16.0	27	30	17.6
18	1/2	ODSW1804	42.4	16.0	30	30	21.8
18	3/4	ODSW1806	44.4	16.0	35	30	27.2
20	1/2	ODSW2004	44.0	18.0	30	32	21.8
20	3/4	ODSW2006	44.0	18.0	35	32	27.2
22	1/2	ODSW2204	44.3	18.0	30	32	21.8
22	3/4	ODSW2206	44.3	18.0	35	32	27.2
22	1	ODSW2208	50.3	18.0	41	32	33.9
25	3/4	ODSW2506	54.4	20.0	35	1-1/2	27.2
25	1	ODSW2508	50.4	20.0	41	1-1/2	33.9

- 套焊深度等於或超過 ASME B16.11 的要求，並保證 PIPE 管的充分支撐。
- 除非另有說明，否則所有尺寸單位均為 mm。
- 數值若是分數，表示其單位是 inch。
- 上述尺寸僅供參考，修改不另行通知。
- SOCKET WELDING DEPTH IS GREATER THAN OR EQUAL TO ASME B16.11, AND ENSURE FULLY SUPPORT OF PIPE.
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
- FRACTIONAL NUMBERS MEAN INCH SIZE.
- DIMENSIONS SHOWN ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE.

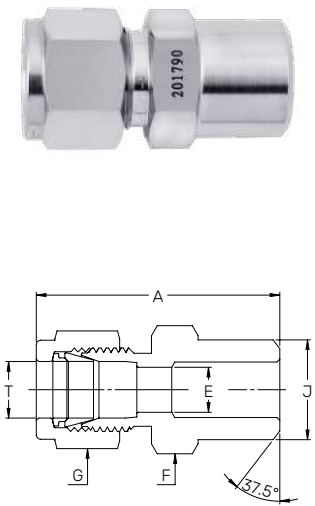
ODSW
卡套套焊接頭
SOCKET WELD UNION



英制 (FRACTIONAL)							
T 卡套管外徑 T TUBE O.D.	PIPE 焊接 尺寸 PIPE WELD SIZE	PART NO.	A	E	F	G	J
1/8	1/8	ODSW0101	29.9	2.5	17	7/16	10.8
1/8	1/4	ODSW0102	31.9	2.5	19	7/16	14.2
1/4	1/8	ODSW0201	31.8	5.0	17	9/16	10.8
1/4	1/4	ODSW0202	33.8	5.0	19	9/16	14.2
1/4	3/8	ODSW0203	34.8	5.0	24	9/16	17.6
1/4	1/2	ODSW0204	37.8	5.0	30	9/16	21.8
3/8	1/8	ODSW0301	33.7	7.7	17	11/16	10.8
3/8	1/4	ODSW0302	35.7	7.7	19	11/16	14.2
3/8	3/8	ODSW0303	36.7	7.7	24	11/16	17.6
3/8	1/2	ODSW0304	39.7	7.7	30	11/16	21.8
3/8	3/4	ODSW0306	41.7	7.7	35	11/16	27.2
1/2	1/8	ODSW0401	36.9	10.0	19	7/8	10.8
1/2	1/4	ODSW0402	39.9	10.0	19	7/8	14.2
1/2	3/8	ODSW0403	40.9	10.0	24	7/8	17.6
1/2	1/2	ODSW0404	41.9	10.0	30	7/8	21.8
1/2	3/4	ODSW0406	43.9	10.0	35	7/8	27.2
1/2	1	ODSW0408	50.9	10.0	41	7/8	33.9
3/4	1/2	ODSW0604	44.9	16.0	30	1-1/8	21.8
3/4	3/4	ODSW0606	44.9	16.0	35	1-1/8	27.2
3/4	1	ODSW0608	51.9	16.0	41	1-1/8	33.9
1	3/4	ODSW0806	52.4	20.0	35	1-1/2	27.2
1	1	ODSW0808	57.4	20.0	41	1-1/2	33.9

- 套焊深度等於或超過 ASME B16.11 的要求，並保證 PIPE 管的充分支撐。
- 除非另有說明，否則所有尺寸單位均為 mm。
- 數值若是分數，表示其單位是 inch。
- 上述尺寸僅供參考，修改不另行通知。
- SOCKET WELDING DEPTH IS GREATER THAN OR EQUAL TO ASME B16.11, AND ENSURE FULLY SUPPORT OF PIPE.
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
- FRACTIONAL NUMBERS MEAN INCH SIZE.
- DIMENSIONS SHOWN ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE.

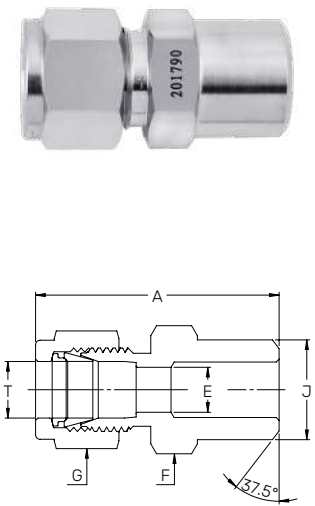
ODBW
卡套對焊接頭
BUTT WELD UNION



公制 (METRIC)							
T 卡套管外徑 T TUBE O.D.	PIPE 焊接 尺寸 PIPE WELD SIZE	PART NO.	A	E	F	G	J
3	1/8	ODBW301	31.7	2.5	12	7/16	10.2
6	1/8	ODBW601	33.6	5.0	12	9/16	10.2
6	1/4	ODBW602	37.8	5.0	14	9/16	13.7
8	1/8	ODBW801	34.8	5.0	14	5/8	10.2
8	1/4	ODBW802	39.0	6.0	14	5/8	13.7
8	3/8	ODBW803	40.8	6.0	19	5/8	17.1
8	1/2	ODBW804	43.8	6.0	22	5/8	21.3
10	1/4	ODBW1002	41.1	7.0	17	19	13.7
10	3/8	ODBW1003	41.9	8.0	19	19	17.1
10	1/2	ODBW1004	44.9	8.0	22	19	21.3
12	1/4	ODBW1202	43.9	7.0	19	7/8	13.7
12	3/8	ODBW1203	43.7	10.0	19	7/8	17.1
12	1/2	ODBW1204	46.7	10.0	22	7/8	21.3
12	3/4	ODBW1206	49.7	10.0	27	7/8	26.7
14	3/8	ODBW1403	44.4	9.5	24	25	17.1
15	1/2	ODBW1504	47.5	12.0	24	25	21.3
16	1/2	ODBW1604	47.7	12.0	24	25	21.3
18	1/2	ODBW1804	48.4	12.0	27	30	21.3
18	3/4	ODBW1806	50.4	15.0	27	30	26.7
20	3/4	ODBW2006	50.0	15.0	30	32	26.7
22	3/4	ODBW2206	50.3	15.0	30	32	26.7
25	1	ODBW2508	60.4	20.0	35	1-1/2	33.4

- 除非另有說明，否則所有尺寸單位均為 mm。
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- FRACTIONAL NUMBERS MEAN INCH SIZE.
- DIMENSIONS SHOWN ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE.

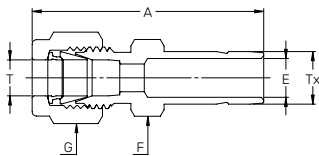
ODBW
卡套對焊接頭
BUTT WELD UNION



英制 (FRACTIONAL)							
T 卡套管外徑 T TUBE O.D.	PIPE 焊接 尺寸 PIPE WELD SIZE	PART NO.	A	E	F	G	J
1/8	1/8	ODBW0101	31.9	2.5	12	7/16	10.2
3/16	1/8	ODBW01501	31.9	3.5	12	12	10.2
1/4	1/8	ODBW0201	33.8	5.0	12	9/16	10.2
1/4	1/4	ODBW0202	38.0	5.0	14	9/16	13.7
3/8	1/4	ODBW0302	39.9	7.7	9/16	11/16	13.7
3/8	3/8	ODBW0303	41.7	7.7	19	11/16	17.1
3/8	1/2	ODBW0304	44.7	7.7	22	11/16	21.3
3/8	3/4	ODBW0306	47.7	7.7	27	11/16	26.7
1/2	3/8	ODBW0403	43.9	10.0	19	7/8	17.1
1/2	1/2	ODBW0404	46.9	10.0	22	7/8	21.3
1/2	3/4	ODBW0406	49.9	10.0	27	7/8	26.7
1/2	1	ODBW0408	55.9	10.0	35	7/8	33.4
5/8	1/2	ODBW0504	48.4	12.0	24	25	21.3
3/4	3/4	ODBW0606	50.9	15.0	27	1-1/8	26.7
3/4	1	ODBW0608	56.9	16.0	35	1-1/8	33.4
1	3/4	ODBW0806	57.4	15.0	35	1-1/2	26.7
1	1	ODBW0808	60.4	20.0	35	1-1/2	33.4

- 除非另有說明，否則所有尺寸單位均為 mm。
- 數值若是分數，表示其單位是 inch。
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- FRACTIONAL NUMBERS MEAN INCH SIZE.
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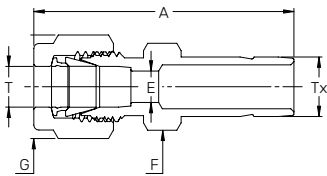
ODTA
卡套插管接頭
REDUCER



公制 (METRIC)						
T 卡套管外徑 T TUBE O.D.	Tx 卡套管外徑 Tx TUBE O.D.	PART NO.	A	E	F	G
3	6	ODTA36	38.2	2.5	10	7/16
3	10	ODTA310	42.7	2.5	12	7/16
6	8	ODTA68	42.1	5.0	12	9/16
6	10	ODTA610	44.6	5.0	12	9/16
6	12	ODTA612	48.3	5.0	17	9/16
6	18	ODTA618	52.6	5.0	19	9/16
8	6	ODTA86	40.8	4.0	14	5/8
8	10	ODTA810	45.8	6.0	14	5/8
8	12	ODTA812	49.5	6.0	17	5/8
10	6	ODTA106	42.9	4.0	17	19
10	8	ODTA108	45.4	5.0	17	19
10	12	ODTA1012	50.6	8.0	17	19
10	16	ODTA1016	53.4	8.0	17	19
10	18	ODTA1018	54.9	8.0	19	19
12	6	ODTA126	45.7	4.0	19	7/8
12	8	ODTA128	48.2	5.0	19	7/8
12	10	ODTA1210	50.7	7.5	19	7/8
12	16	ODTA1216	56.2	10.0	19	7/8
12	18	ODTA1218	56.7	10.0	19	7/8
12	20	ODTA1220	57.2	10.0	22	7/8
12	22	ODTA1222	58.7	10.0	24	7/8
12	25	ODTA1225	63.7	10.0	27	7/8
14	10	ODTA1410	51.4	7.5	24	25
16	12	ODTA1612	54.4	9.5	24	25
16	18	ODTA1618	57.7	14.0	24	25
16	20	ODTA1620	58.2	14.0	24	25
16	22	ODTA1622	59.7	14.0	24	25
16	25	ODTA1625	64.7	14.0	27	25
18	12	ODTA1812	55.1	9.5	27	30
18	16	ODTA1816	57.9	12.0	27	30
18	20	ODTA1820	58.9	15.0	27	30
18	22	ODTA1822	60.4	16.0	27	30
18	25	ODTA1825	64.4	16.0	27	30
20	16	ODTA2016	57.5	12.0	30	32
20	18	ODTA2018	58.0	14.0	30	32
20	22	ODTA2022	60.0	18.0	30	32
20	25	ODTA2025	64.0	18.0	30	32
22	18	ODTA2218	58.3	14.0	30	32
22	20	ODTA2220	58.8	15.0	30	32
22	25	ODTA2225	64.3	18.0	30	32
25	18	ODTA2518	65.4	14.0	35	1-1/2
25	20	ODTA2520	65.9	15.0	35	1-1/2
25	22	ODTA2522	66.9	18.0	35	1-1/2

公制 x 英制 (METRIC x FRACTIONAL)						
T 卡套管外徑 T TUBE O.D.	Tx 卡套管外徑 Tx TUBE O.D.	PART NO.	A	E	F	G
6	1/4	ODTA602	39.6	4	12	9/16
6	3/8	ODTA603	41.6	5	12	9/16
8	3/8	ODTA803	42.8	6	14	5/8
10	3/8	ODTA1003	43.9	7	17	19

ODTA
卡套插管接頭
REDUCER

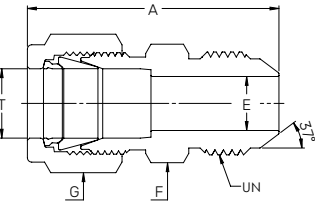


英制 (FRACTIONAL)						
T 卡套管外徑 T TUBE O.D.	Tx 卡套管外徑 Tx TUBE O.D.	PART NO.	A	E	F	G
1/8	1/4	ODTA0102	37.9	2.5	10	7/16
1/8	3/8	ODTA0103	39.9	2.5	12	7/16
1/8	1/2	ODTA0104	45.6	2.5	14	7/16
1/4	1/8	ODTA0201	39.8	1.4	12	9/16
1/4	3/8	ODTA0203	41.8	5.0	12	9/16
1/4	1/2	ODTA0204	47.5	5.0	14	9/16
1/4	3/4	ODTA0206	52.8	5.0	22	9/16
3/8	1/4	ODTA0302	41.7	4.0	9/16	11/16
3/8	1/2	ODTA0304	49.4	7.7	9/16	11/16
3/8	3/4	ODTA0306	54.7	7.7	22	11/16
1/2	1/4	ODTA0402	45.9	4.0	19	7/8
1/2	3/8	ODTA0403	47.9	7.0	19	7/8
1/2	3/4	ODTA0406	56.9	10.0	22	7/8
1/2	1	ODTA0408	63.9	10.0	27	7/8
5/8	3/4	ODTA0506	57.4	14.0	24	25
5/8	1	ODTA0508	64.4	14.0	27	25
3/4	1/2	ODTA0604	55.6	9.5	27	1-1/8
3/4	1	ODTA0608	64.9	16.0	27	1-1/8

英制 x 公制 (FRACTIONAL x METRIC)						
T 卡套管外徑 T TUBE O.D.	Tx 卡套管外徑 Tx TUBE O.D.	PART NO.	A	E	F	G
1/16	6	ODTA0056	33.0	1.3	10	10
1/8	6	ODTA016	37.7	2.5	10	10
1/4	6	ODTA026	39.8	4.0	12	9/16

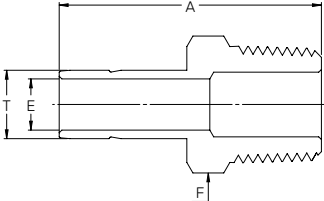
- 除非另有說明，否則所有尺寸單位均為 mm。
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- 上述尺寸僅供參考，修改不另行通知。
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MCH
卡套軟管外螺紋接頭
UNION TUBE FLARE



英制 (FRACTIONAL)							
T 卡套管外徑 T TUBE O.D.	JIC 擴口尺寸 JIC FLARE SIZE	PART NO.	UN	A	E	F	G
1/4	1/4	MCH0202	7/16-20	37.8	5.0	12	9/16
1/4	3/8	MCH0203	9/16-18	37.8	5.0	14	9/16
3/8	1/4	MCH0302	7/16-20	39.7	5.0	9/16	11/16
3/8	3/8	MCH0303	9/16-18	39.7	7.0	9/16	11/16
1/2	3/8	MCH0403	9/16-18	43.9	7.0	19	7/8
1/2	1/2	MCH0404	3/4-16	46.6	10.0	19	7/8
3/4	1/2	MCH0604	3/4-16	48.6	10.0	27	1-1/8
3/4	3/4	MCH0606	1-1/16-12	51.9	14.0	27	1-1/8
1	1	MCH0808	1-5/16-12	61.4	20.0	35	1-1/2

TAM
外螺紋插管接頭
MALE TUBE ADAPTER



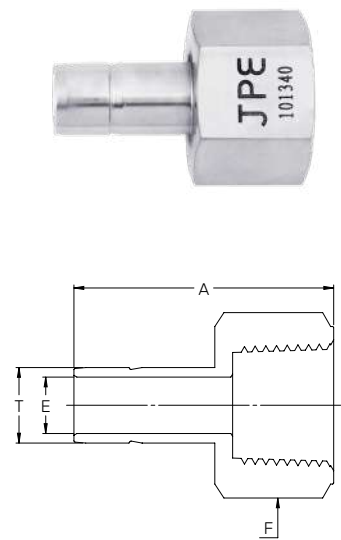
公制 (METRIC)					
T 卡套管外徑 T TUBE O.D.	BSPT / NPT 錐管螺紋尺寸 BSPT / NPT TAPERED THREAD SIZE	PART NO.	A	E	F
6	1/8	TAM601	32.0	4.0	12
6	1/4	TAM602	35.0	4.0	14
6	3/8	TAM603	37.0	4.0	17
6	1/2	TAM604	41.0	4.0	22
8	1/8	TAM801	34.5	5.0	12
8	1/4	TAM802	37.5	5.0	14
8	3/8	TAM803	39.5	5.0	17
8	1/2	TAM804	43.5	5.0	22
10	1/4	TAM1002	40.0	7.5	14
10	3/8	TAM1003	42.0	7.5	17
10	1/2	TAM1004	46.0	7.5	22
12	1/4	TAM1202	42.7	7.0	14
12	3/8	TAM1203	44.7	9.5	17
12	1/2	TAM1204	48.7	9.5	22
14	1/4	TAM1402	46.5	7.0	17
14	3/8	TAM1403	47.5	10.0	17
14	1/2	TAM1404	51.5	10.0	22
14	3/4	TAM1406	54.0	10.0	27
16	1/2	TAM1604	51.5	12.0	22
16	3/4	TAM1606	54.5	12.0	27
18	1/2	TAM1804	52.0	12.0	22
18	3/4	TAM1806	55.0	14.0	27
20	1/2	TAM2004	52.5	12.0	22
22	1/2	TAM2204	54.0	12.0	24
22	3/4	TAM2206	57.0	15.0	27
25	1	TAM2508	67.0	20.0	35

英制 (FRACTIONAL)					
T 卡套管外徑 T TUBE O.D.	BSPT / NPT 錐管螺紋尺寸 BSPT / NPT TAPERED THREAD SIZE	PART NO.	A	E	F
1/4	1/8	TAM0201	32.0	4.0	12
1/4	1/4	TAM0202	35.0	4.0	14
1/4	3/8	TAM0203	37.0	4.0	17
1/4	1/2	TAM0204	41.0	4.0	22
3/8	1/8	TAM0301	34.0	5.0	12
3/8	1/4	TAM0302	37.0	7.0	14
3/8	3/8	TAM0303	39.0	7.0	17
3/8	1/2	TAM0304	43.0	7.0	22
1/2	1/4	TAM0402	42.7	7.0	14
1/2	3/8	TAM0403	44.7	9.5	17
1/2	1/2	TAM0404	48.7	9.5	22
3/4	1/2	TAM0604	52.0	12.0	22
3/4	3/4	TAM0606	55.0	16.0	27
1	3/4	TAM0806	61.0	16.0	27
1	1	TAM0808	67.0	20.4	35

- 除非另有說明，否則所有尺寸單位均為 mm。
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- 數值若是分數，表示其單位是 inch。
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- FRACTIONAL NUMBERS MEAN INCH SIZE.
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TAF
內螺紋插管接頭
FEMALE TUBE ADAPTER

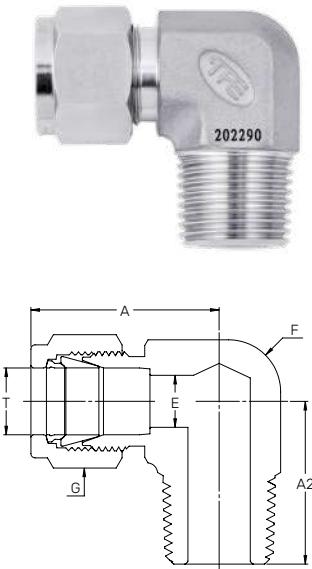


公制 (METRIC)					
T 卡套管外徑 T TUBE O.D.	BSPT / NPT 錐管螺紋尺寸 BSPT / NPT TAPERED THREAD SIZE	PART NO.	A	E	F
6	1/8	TAF601	31.0	4.0	14
6	1/4	TAF602	32.0	4.0	17
6	1/2	TAF602	36.0	4.0	27
8	1/8	TAF801	33.5	5.0	14
8	1/4	TAF802	34.5	5.0	17
10	1/4	TAF1002	37.0	7.5	17
10	3/8	TAF1003	38.0	7.5	22
12	1/4	TAF1202	39.7	9.5	17
12	3/8	TAF1203	40.7	9.5	22
12	1/2	TAF1204	43.7	9.5	27
14	1/2	TAF1404	46.5	10.0	27
16	3/8	TAF1603	43.5	12.0	22
18	1/2	TAF1804	47.0	14.0	27
20	3/4	TAF2006	51.0	18.0	32

英制 (FRACTIONAL)					
T 卡套管外徑 T TUBE O.D.	BSPT / NPT 錐管螺紋尺寸 BSPT / NPT TAPERED THREAD SIZE	PART NO.	A	E	F
1/4	1/8	TAF0201	31.0	4.0	14
1/4	1/4	TAF0202	32.0	4.0	17
1/4	3/8	TAF0203	33.0	4.0	22
1/4	1/2	TAF0204	36.0	4.0	27
3/8	1/8	TAF0301	32.0	7.0	14
3/8	1/4	TAF0302	34.0	7.0	17
3/8	3/8	TAF0303	35.0	7.0	22
3/8	1/2	TAF0304	38.0	7.0	27
1/2	1/4	TAF0402	39.7	9.5	17
1/2	3/8	TAF0403	40.7	9.5	22
1/2	1/2	TAF0404	43.7	9.5	27
3/4	1/2	TAF0604	47.0	16.0	27
3/4	3/4	TAF0606	50.0	16.0	32
1	3/4	TAF0806	55.0	20.4	32
1	1	TAF0808	64.0	20.4	41

- 除非另有說明，否則所有尺寸單位均為 mm。
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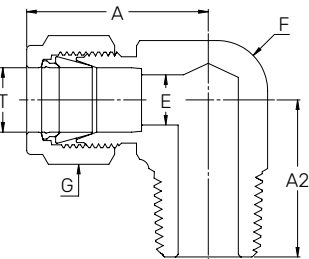
ME
卡套外螺紋彎頭
MALE ELBOW



公制 (METRIC)							
T 卡套管外徑 T TUBE O.D.	BSPT / NPT 錐管螺紋尺寸 BSPT / NPT TAPERED THREAD SIZE	PART NO.	A	A2	E	F	G
3	1/8	ME301	24.3	18.6	2.5	12	7/16
3	1/4	ME302	24.9	22.2	2.5	14	7/16
6	1/8	ME601	26.2	18.6	5.0	12	9/16
6	1/4	ME602	28.1	23.0	5.0	14	9/16
6	3/8	ME603	29.2	25.6	5.0	17	9/16
6	1/2	ME604	32.9	31.3	5.0	22	9/16
8	1/8	ME801	28.5	19.2	5.0	14	5/8
8	1/4	ME802	29.5	23.2	6.0	14	5/8
8	3/8	ME803	30.9	26.0	6.0	17	5/8
8	1/2	ME804	33.6	31.3	6.0	22	5/8
10	1/8	ME1001	31.5	21.6	5.0	17	19
10	1/4	ME1002	31.5	24.6	8.0	17	19
10	3/8	ME1003	31.5	25.6	8.0	17	19
10	1/2	ME1004	34.2	31.3	8.0	22	19
12	1/8	ME1201	36.2	24.5	5.0	20	7/8
12	1/4	ME1202	36.7	27.4	7.0	20	7/8
12	3/8	ME1203	36.7	27.4	10.0	20	7/8
12	1/2	ME1204	36.0	31.3	10.0	22	7/8
12	3/4	ME1206	39.2	36.5	10.0	27	7/8
14	3/8	ME1403	36.9	28.0	9.5	24	25
14	1/2	ME1404	36.9	31.0	12.0	24	25
14	3/4	ME1406	40.0	36.5	12.0	27	25
15	3/8	ME1503	37.0	28.0	9.5	24	25
15	1/2	ME1504	37.0	31.0	12.0	24	25
15	3/4	ME1506	40.0	36.5	12.0	27	25
16	3/8	ME1603	37.2	28.0	9.5	24	25
16	1/2	ME1604	37.2	31.0	12.0	24	25
16	3/4	ME1606	40.3	36.5	14.0	27	25
18	1/2	ME1804	41.4	34.5	12.0	27	30
18	3/4	ME1806	41.4	36.5	15.0	27	30
20	1/2	ME2004	43.6	38.6	12.0	30	32
20	3/4	ME2006	43.6	38.6	15.0	30	32
20	1	ME2008	48.8	45.5	18.0	34	32
22	3/4	ME2206	43.9	38.6	15.0	30	32
22	1	ME2208	49.1	45.5	18.0	34	32
25	3/4	ME2506	52.9	45.0	15.0	34	1-1/2
25	1	ME2508	52.9	45.0	20.0	34	1-1/2

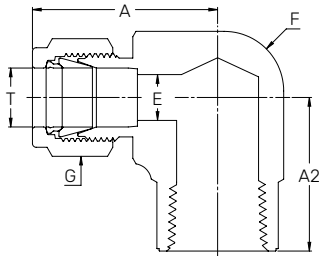
- 除非另有說明，否則所有尺寸單位均為 mm。
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ME
卡套外螺紋彎頭
MALE ELBOW



英制 (FRACTIONAL)							
T 卡套管外徑 T TUBE O.D.	BSPT / NPT 錐管螺紋尺寸 BSPT / NPT TAPERED THREAD SIZE	PART NO.	A	A2	E	F	G
1/8	1/8	ME0101	24.5	18.6	2.5	12	7/16
1/8	1/4	ME0102	25.1	23.0	2.5	14	7/16
1/4	1/8	ME0201	26.4	18.6	5.0	12	9/16
1/4	1/4	ME0202	28.5	22.5	5.0	14	9/16
1/4	3/8	ME0203	29.4	25.6	5.0	17	9/16
1/4	1/2	ME0204	32.1	31.3	5.0	22	9/16
3/8	1/8	ME0301	29.0	20.5	5.0	14	11/16
3/8	1/4	ME0302	30.2	23.5	7.0	14	11/16
3/8	3/8	ME0303	31.4	25.7	7.7	17	11/16
3/8	1/2	ME0304	34.0	31.3	7.7	22	11/16
3/8	3/4	ME0306	37.2	36.4	7.7	27	11/16
1/2	1/4	ME0402	36.9	27.0	7.0	20	7/8
1/2	3/8	ME0403	36.9	27.5	9.5	20	7/8
1/2	1/2	ME0404	36.2	31.3	10.0	22	7/8
1/2	3/4	ME0406	39.4	36.5	10.0	27	7/8
5/8	3/8	ME0503	36.9	28.0	9.5	24	25
5/8	1/2	ME0504	36.9	31.0	12.0	24	25
5/8	3/4	ME0506	39.9	36.5	14.0	27	25
3/4	1/2	ME0604	40.4	33.5	12.0	27	1-1/8
3/4	3/4	ME0606	40.4	36.5	15.0	27	1-1/8
3/4	1	ME0608	50.7	45.5	16.0	34	1-1/8
1	1/2	ME0804	52.9	45.5	12.0	34	1-1/2
1	3/4	ME0806	52.9	45.5	15.0	34	1-1/2
1	1	ME0808	52.9	45.5	20.0	34	1-1/2

FE
卡套內螺紋彎頭
FEMALE ELBOW

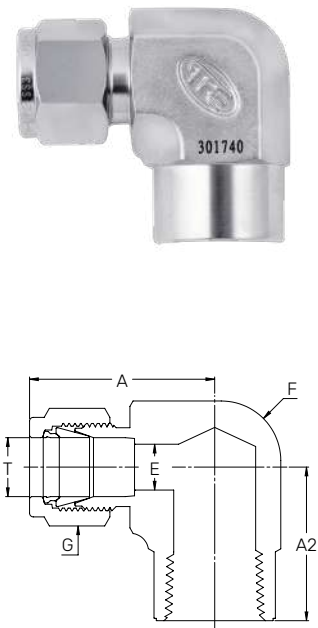


公制 (METRIC)							
T 卡套管外徑 T TUBE O.D.	BSPT / NPT 錐管螺紋尺寸 BSPT / NPT TAPERED THREAD SIZE	PART NO.	A	A2	E	F	G
6	1/8	FE601	27.3	19.2	5.0	14	9/16
6	1/4	FE602	29.2	23.6	5.0	17	9/16
6	3/8	FE603	31.9	26.4	5.0	22	9/16
6	1/2	FE604	35.1	32.5	5.0	27	9/16
8	1/8	FE801	28.5	19.2	6.0	14	5/8
8	1/4	FE802	33.0	25.7	6.0	17	5/8
8	3/8	FE803	33.6	26.4	6.0	22	5/8
8	1/2	FE804	36.8	32.5	6.0	27	5/8
10	1/8	FE1001	31.5	23.6	8.0	17	19
10	1/4	FE1002	31.5	23.6	8.0	17	19
10	3/8	FE1003	34.3	26.4	8.0	22	19
10	1/2	FE1004	39.9	32.5	8.0	27	19
12	1/4	FE1202	36.7	25.0	10.0	20	7/8
12	3/8	FE1203	36.0	26.4	10.0	22	7/8
12	1/2	FE1204	39.2	32.5	10.0	27	7/8
12	3/4	FE1206	49.2	41.0	10.0	34	7/8
14	1/4	FE1402	36.9	26.0	11.0	24	25
14	3/8	FE1403	36.9	26.0	12.0	24	25
14	1/2	FE1404	39.9	32.5	12.0	27	25
14	3/4	FE1406	49.9	41.0	12.0	34	25
15	1/4	FE1502	37.0	26.0	11.0	24	25
15	3/8	FE1503	37.0	26.0	12.0	24	25
15	1/2	FE1504	40.0	32.5	12.0	27	25
15	3/4	FE1506	50.0	41.0	12.0	34	25
16	3/8	FE1603	37.2	26.0	14.0	24	25
16	1/2	FE1604	40.2	32.5	14.0	27	25
16	3/4	FE1606	50.2	41.0	14.0	34	25
18	3/8	FE1803	39.9	32.5	14.0	27	30
18	1/2	FE1804	39.9	32.5	16.0	27	30
18	3/4	FE1806	49.9	41.0	16.0	34	30
20	3/8	FE2003	43.6	34.6	14.0	30	32
20	1/2	FE2004	43.6	34.6	18.0	30	32
20	3/4	FE2006	48.5	41.0	18.0	34	32
22	3/8	FE2203	43.9	34.6	14.0	30	32
22	1/2	FE2204	43.9	34.6	18.0	30	32
22	3/4	FE2206	48.8	41.0	18.0	34	32
25	1/2	FE2504	52.9	41.0	18.0	34	1-1/2
25	3/4	FE2506	52.9	41.0	20.0	34	1-1/2

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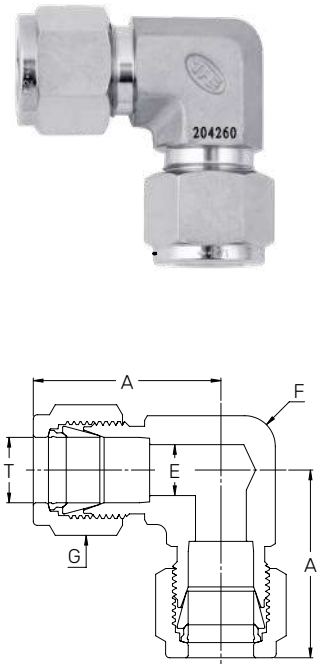
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FE
卡套內螺紋彎頭
FEMALE ELBOW



英制 (FRACTIONAL)							
T 卡套管外徑 T TUBE O.D.	BSPT / NPT 錐管螺紋尺寸 BSPT / NPT TAPERED THREAD SIZE	PART NO.	A	A2	E	F	G
1/8	1/8	FE0101	25.1	19.2	2.5	14	7/16
1/8	1/4	FE0102	27.5	23.6	2.5	17	7/16
1/8	3/8	FE0103	30.2	26.4	2.5	22	7/16
1/8	1/2	FE0104	33.4	32.5	2.5	27	7/16
1/4	1/8	FE0201	27.0	19.2	5.0	14	9/16
1/4	1/4	FE0202	29.4	23.6	5.0	17	9/16
1/4	3/8	FE0203	32.1	26.4	5.0	22	9/16
1/4	1/2	FE0204	35.3	32.5	5.0	27	9/16
3/8	1/8	FE0301	28.9	19.2	7.7	14	11/16
3/8	1/4	FE0302	31.3	23.6	7.7	17	11/16
3/8	3/8	FE0303	34.0	26.4	7.7	22	11/16
3/8	1/2	FE0304	37.2	32.5	7.7	27	11/16
1/2	1/4	FE0402	36.9	25.0	10.0	20	7/8
1/2	3/8	FE0403	36.8	26.9	10.0	22	7/8
1/2	1/2	FE0404	40.4	33.5	10.0	27	7/8
1/2	3/4	FE0406	49.4	41.0	10.0	34	7/8
3/4	3/8	FE0603	40.4	32.5	14.0	27	1-1/8
3/4	1/2	FE0604	40.4	29.5	16.0	27	1-1/8
3/4	3/4	FE0606	50.4	41.0	16.0	34	1-1/8
1	1/2	FE0804	52.9	41.0	18.0	34	1-1/2
1	3/4	FE0806	52.9	41.0	20.0	34	1-1/2

UE
卡套由任彎頭
UNION ELBOW



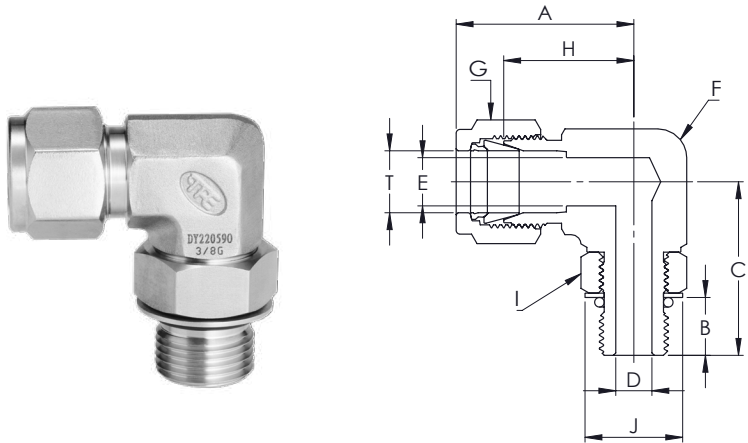
公制 (METRIC)					
T 卡套管外徑 T TUBE O.D.	PART NO.	A	E	F	G
3	UE3	24.3	2.5	12	7/16
6	UE6	26.2	5.0	12	9/16
8	UE8	28.5	6.0	14	5/8
10	UE10	32.1	8.0	17	19
12	UE12	36.7	10.0	20	7/8
14	UE14	36.9	12.0	24	25
15	UE15	37.0	12.0	24	25
16	UE16	37.2	14.0	24	25
18	UE18	40.4	16.0	27	30
20	UE20	43.6	18.0	30	32
22	UE22	43.9	18.0	30	32
25	UE25	52.9	20.0	34	1-1/2

英制 (FRACTIONAL)					
T 卡套管外徑 T TUBE O.D.	PART NO.	A	E	F	G
1/16	UE005	19.6	1.3	12	10
1/8	UE01	24.5	2.5	12	7/16
3/16	UE015	24.5	3.5	12	12
1/4	UE02	26.4	5.0	12	9/16
3/8	UE03	28.9	7.7	14	11/16
1/2	UE04	36.9	10.0	20	7/8
5/8	UE05	36.9	14.0	24	25
3/4	UE06	40.4	16.0	27	1-1/8
1	UE08	52.9	20.0	34	1-1/2

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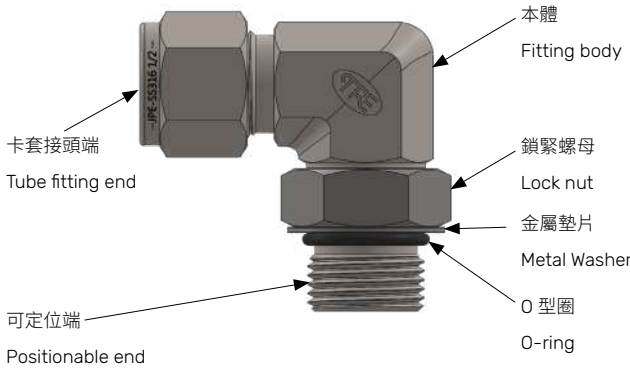
PME
可定位卡套外螺紋彎頭
POSITIONABLE MALE ELBOW



英制 (FRACTIONAL)												
T 卡套管外徑 T TUBE O.D.	BSPT / NPT 錐管螺紋尺寸 BSPT / NPT TAPERED THREAD SIZE	PART NO.	A	B	C	D	E	F	G	H	I	J
3/8	9/16-18	PME03SAE6	31.1	12	33.8	7.5	7.7	17	11/16	23.7	19	20.2
1/2	9/16-18	PME04SAE6	36.9	12	36	7.5	10	20	7/8	27	19	20.2
1/2	3/4-16	PME04SAE8	36.9	13.8	40	10	10	20	7/8	27	24	25.7

可定位接頭 標準安裝方式
POSITIONABLE FITTINGS INSTALLATION PROCEDURES

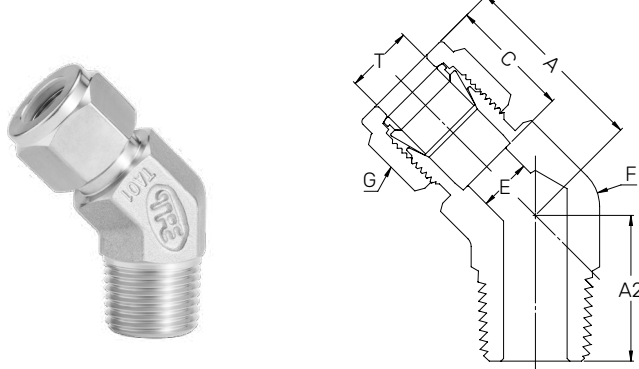
- 安裝前將鎖緊螺母往本體端旋到底，並將 O 型圈上推。
- 將可定位接頭之可定位端旋入內螺紋接頭內，直到金屬墊片碰觸到接頭表面。
- 再將可定位端逆向旋出內螺紋接頭，以調整卡套接頭端正確位置，但旋出量不得超過一圈。
- 確認好卡套端位置後，緊固鎖緊螺母直到金屬墊片接觸到接頭表面，即完成安裝。



- Before installation, turn the lock nut into the fitting body and push up the O-ring
- Turn the positionable end into the female fitting until the metal washer come in contact with the fitting surface.
- Turn the positionable end out of the female fitting until the tube fitting end is positioned properly. (No more than one turn)
- After confirming the position of the tube fitting end, tighten the lock nut until the metal washer contacts the fitting surface.

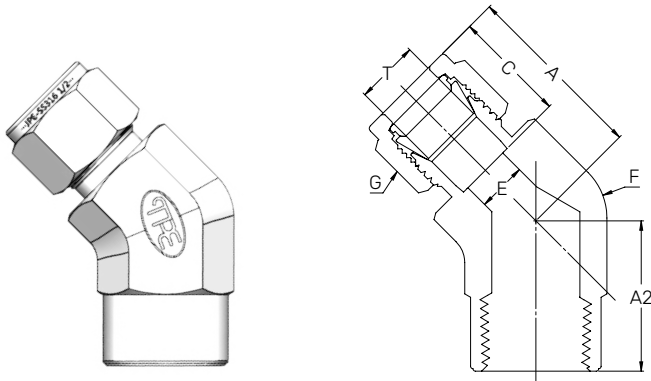
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MEL
45°卡套外螺紋彎頭
45° MALE ELBOW



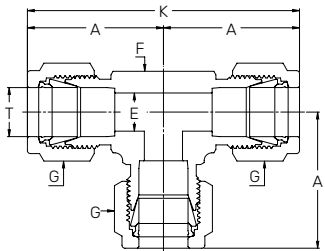
英制 (FRACTIONAL)								
T 卡套管外徑 T TUBE O.D.	BSPT / NPT 錐管螺紋尺寸 BSPT / NPT TAPERED THREAD SIZE	PART NO.	A	A2	C	E	F	G
1/4	1/2	MEL0204	31.8	27.5	15.8	5	22	9/16
3/8	1/2	MEL0304	33.7	27.5	17.2	7.7	22	11/16
3/8	3/4	MEL0306	35.2	34.2	17.2	7.7	27	11/16
1/2	1/2	MEL0404	35.9	27.5	22.9	10	22	7/8
1/2	3/4	MEL0406	37.4	34.2	22.9	10	27	7/8
3/4	1/2	MEL0604	38.4	32.2	24.9	12	27	1-1/8
3/4	3/4	MEL0606	38.4	34.2	24.9	15	27	1-1/8

FEL
45°卡套內螺紋彎頭
45° FEMALE ELBOW



英制 (FRACTIONAL)								
T 卡套管外徑 T TUBE O.D.	BSPT / NPT 錐管螺紋尺寸 BSPT / NPT TAPERED THREAD SIZE	PART NO.	A	A2	C	E	F	G
1/4	3/8	FEL0203	31.8	27.5	15.8	5.0	22	9/16
3/8	3/8	FEL0303	33.7	27.5	17.2	7.7	22	11/16
3/8	1/2	FEL0304	35.2	30.5	17.2	7.7	27	11/16
1/2	3/8	FEL0403	35.9	27.5	22.9	10	22	7/8
1/2	1/2	FEL0404	37.4	30.5	22.9	10	27	7/8
3/4	1/2	FEL0604	38.4	30.5	24.9	16	27	1-1/8

UT
卡套由任三通
UNION TEE

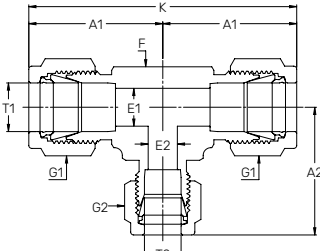


公制 (METRIC)						
T 卡套管外徑 T TUBE O.D.	PART NO.	A	E	F	G	K
3	UT3	23.7	2.5	12	7/16	47.4
6	UT6	26.1	5.0	12	9/16	52.2
8	UT8	28.6	6.0	14	5/8	57.2
10	UT10	31.4	8.0	17	19	62.8
12	UT12	35.7	10.0	20	7/8	71.4
14	UT14	37.9	12.0	24	25	75.8
15	UT15	38.0	12.0	124	25	76.0
16	UT16	38.2	14.0	24	25	76.4
18	UT18	39.9	16.0	27	30	79.8
20	UT20	46.5	18.0	30	32	93.0
22	UT22	46.8	18.0	30	32	93.6
25	UT25	52.4	20.0	34	1-1/2	104.8

英制 (FRACTIONAL)						
T 卡套管外徑 T TUBE O.D.	PART NO.	A	E	F	G	K
1/16	UT005	19.0	1.3	12	10	38.0
1/8	UT01	23.9	2.5	12	7/16	47.8
3/16	UT015	23.9	3.5	12	12	47.8
1/4	UT02	25.8	5.0	12	9/16	51.6
3/8	UT03	29.0	7.7	14	11/16	58.0
1/2	UT04	35.7	10.0	20	7/8	71.4
5/8	UT05	37.9	14.0	24	25	75.8
3/4	UT06	39.9	16.0	27	1-1/8	79.8
1	UT08	52.4	20.0	34	1-1/2	104.8

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RUT
異徑卡套由任三通
REDUCING UNION TEE

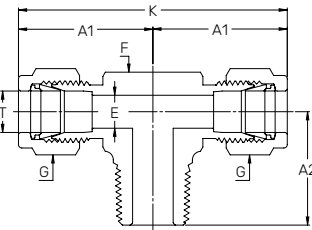


公制 (METRIC)										
T1 卡套管外徑 T1 TUBE O.D.	T2 卡套管外徑 T2 TUBE O.D.	PART NO.	A	A2	E1	E2	F	G1	G2	K
8	6	RUT868	28.6	27.57	6	5	14	5/8	9/16	57.3
10	6	RUT10610	32.9	30.57	8	5	17	19	9/16	65.8
10	8	RUT10810	31.4	30.34	8	6	17	19	5/8	62.8
12	6	RUT12612	35.7	31.57	10	5	20	7/8	9/16	71.4
12	8	RUT12812	35.7	32.84	10	6	20	7/8	5/8	71.4

英制 (FRACTIONAL)										
T1 卡套管外徑 T1 TUBE O.D.	T2 卡套管外徑 T2 TUBE O.D.	PART NO.	A	A2	E1	E2	F	G1	G2	K
3/8	1/4	RUT030203	29.0	27.13	7.7	5.0	14	11/16	9/16	58.1
1/2	1/4	RUT040204	35.9	31.83	10	5.0	20	7/8	9/16	71.8
1/2	3/8	RUT040304	35.9	33.73	10	7.7	20	7/8	11/16	71.8
3/4	1/4	RUT060206	40.9	35.83	16	5.0	27	1-1/8	9/16	81.9
3/4	1/2	RUT060406	40.9	39.90	16	10.0	27	1-1/8	7/8	81.9
1	1/2	RUT080408	52.4	47.90	20	10.0	34	1-1/2	7/8	104.8

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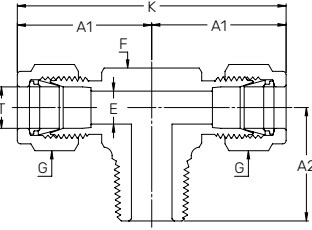
MBT
中心外螺紋卡套三通
MALE BRANCH TEE



公制 (METRIC)								
T 卡套管外徑 T TUBE O.D.	BSPT / NPT 錐管螺紋尺寸 BSPT / NPT TAPERED THREAD SIZE	PART NO.	A1	A2	E	F	G	K
6	1/8	MBT601	26.1	18.5	5.0	12	9/16	52.2
6	1/4	MBT602	26.8	22.2	5.0	14	9/16	53.6
6	3/8	MBT603	29.2	25.6	5.0	17	9/16	58.4
6	1/2	MBT604	32.9	31.4	5.0	22	9/16	65.8
8	1/8	MBT801	28.5	19.2	5.0	14	5/8	57.0
8	1/4	MBT802	28.5	22.2	6.0	14	5/8	57.0
8	3/8	MBT803	30.9	25.6	6.0	17	5/8	61.8
8	1/2	MBT804	33.6	31.4	6.0	22	5/8	67.2
10	1/8	MBT1001	31.5	21.6	5.0	17	19	63.0
10	1/4	MBT1002	31.5	24.6	7.0	17	19	63.0
10	3/8	MBT1003	31.5	25.6	8.0	17	19	63.0
10	1/2	MBT1004	34.2	31.4	8.0	22	19	68.4
12	3/8	MBT1203	35.7	26.0	9.5	20	7/8	71.4
12	1/2	MBT1204	36.0	31.4	10.0	22	7/8	72.0
12	3/4	MBT1206	38.7	36.0	10.0	27	7/8	77.4
14	3/8	MBT1403	37.9	30.6	9.5	24	25	75.8
14	1/2	MBT1404	37.9	32.0	12.0	24	25	75.8
14	3/4	MBT1406	39.4	36.0	12.0	27	25	75.8
15	3/8	MBT1503	38.0	30.6	9.5	24	25	76.0
15	1/2	MBT1504	38.0	32.0	12.0	24	25	76.0
15	3/4	MBT1506	39.5	36.0	12.0	27	25	76.0
16	3/8	MBT1603	38.2	30.3	9.5	24	25	76.4
16	1/2	MBT1604	38.2	32.0	12.0	24	25	76.4
16	3/4	MBT1606	39.7	36.0	14.0	27	25	79.4
18	3/8	MBT1803	39.4	31.0	9.5	27	30	78.8
18	1/2	MBT1804	39.4	34.0	12.0	27	30	78.8
18	3/4	MBT1806	39.4	36.0	15.0	27	30	78.8
20	1/2	MBT2004	46.5	38.6	12.0	30	32	93.0
20	3/4	MBT2006	46.5	38.6	15.0	30	32	93.0
22	1/2	MBT2204	46.8	38.6	12.0	30	32	93.6
22	3/4	MBT2206	46.8	38.6	15.0	30	32	93.6
25	1/2	MBT2504	52.4	42.5	12.0	34	1-1/2	104.8
25	3/4	MBT2506	52.4	44.5	15.0	34	1-1/2	104.8
25	1	MBT2508	52.4	45.0	20.0	34	1-1/2	104.8

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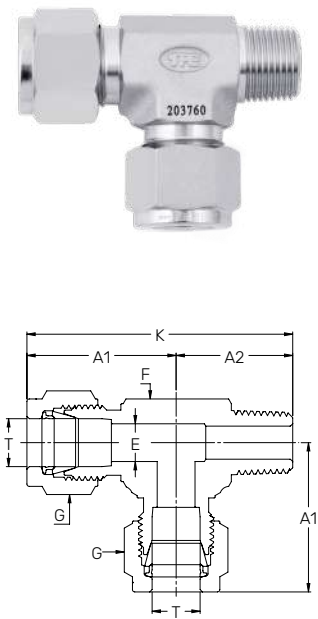
MBT
中心外螺紋卡套三通
MALE BRANCH TEE



英制 (FRACTIONAL)								
T 卡套管外徑 T TUBE O.D.	BSPT / NPT 錐管螺紋尺寸 BSPT / NPT TAPERED THREAD SIZE	PART NO.	A1	A2	E	F	G	K
1/8	1/8	MBT0101	23.9	18.0	2.5	12	7/16	47.8
1/8	1/4	MBT0102	25.2	22.3	2.5	14	7/16	50.4
1/4	1/8	MBT0201	25.8	18.0	5.0	12	9/16	51.6
1/4	1/4	MBT0202	27.1	22.3	5.0	14	9/16	54.2
1/4	3/8	MBT0203	29.5	25.7	5.0	17	9/16	59.0
1/4	1/2	MBT0204	32.2	31.4	5.0	22	9/16	64.4
3/8	1/8	MBT0301	29.0	19.3	5.0	14	11/16	58.0
3/8	1/4	MBT0302	29.0	22.3	7.0	14	11/16	58.0
3/8	3/8	MBT0303	31.4	26.5	7.7	17	11/16	62.8
3/8	1/2	MBT0304	34.1	31.4	7.7	22	11/16	68.2
1/2	1/4	MBT0402	35.9	26.0	7.0	20	7/8	71.8
1/2	3/8	MBT0403	35.9	26.0	9.5	20	7/8	71.8
1/2	1/2	MBT0404	36.3	31.4	10.0	22	7/8	72.6
1/2	3/4	MBT0406	38.9	36.0	10.0	27	7/8	77.8
5/8	3/8	MBT0503	37.9	30.6	9.5	24	25	75.8
5/8	1/2	MBT0504	37.9	32.0	12.0	24	25	75.8
5/8	3/4	MBT0506	39.4	36.0	14.0	27	25	78.8
3/4	1/2	MBT0604	39.9	34.0	12.0	27	1-1/8	79.8
3/4	3/4	MBT0606	39.9	36.0	15.0	27	1-1/8	79.8
3/4	1	MBT0608	50.9	45.0	16.0	34	1-1/8	101.8
1	1/2	MBT0804	52.4	43.0	12.0	34	1-1/2	104.8
1	3/4	MBT0806	52.4	45.0	15.0	34	1-1/2	104.8
1	1	MBT0808	52.4	45.0	20.0	34	1-1/2	104.8

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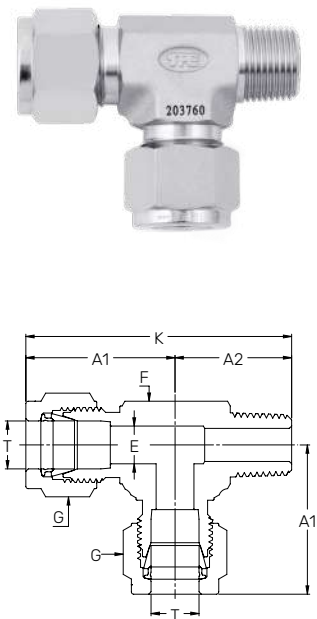
MRT
邊外螺紋卡套三通
MALE RUN TEE



公制 (METRIC)								
T 卡套管外徑 T TUBE O.D.	BSPT / NPT 錐管螺紋尺寸 BSPT / NPT TAPERED THREAD SIZE	PART NO.	A1	A2	E	F	G	K
6	1/8	MRT601	25.6	18	5.0	12	9/16	43.6
6	1/4	MRT602	26.9	22.3	5.0	14	9/16	49.2
6	3/8	MRT603	29.3	25.7	5.0	17	9/16	55.0
6	1/2	MRT604	32.0	31.4	5.0	22	9/16	63.4
8	1/8	MRT801	28.1	19.3	5.0	14	5/8	47.4
8	1/4	MRT802	28.1	22.3	6.0	14	5/8	50.4
8	3/8	MRT803	31.0	25.7	6.0	17	5/8	56.7
8	1/2	MRT804	33.7	31.4	6.0	22	5/8	65.1
10	1/8	MRT1001	31.6	21.7	5.0	17	19	53.3
10	1/4	MRT1002	31.6	24.7	7.0	17	19	56.3
10	3/8	MRT1003	31.6	25.7	8.0	17	19	57.3
10	1/2	MRT1004	34.2	31.4	8.0	22	19	65.6
12	1/4	MRT1202	35.7	27.4	7.0	20	7/8	63.1
12	3/8	MRT1203	35.7	27.4	9.5	20	7/8	63.1
12	1/2	MRT1204	36.1	31.4	10.0	22	7/8	67.5
12	3/4	MRT1206	38.7	36	10.0	27	7/8	74.7
14	3/8	MRT1403	37.9	29	9.5	24	25	66.9
14	1/2	MRT1404	37.9	32	12.0	24	25	69.9
14	3/4	MRT1406	39.4	36	12.0	27	25	75.4
15	3/8	MRT1503	38.0	29	9.5	24	25	67.0
15	1/2	MRT1504	38.0	32	12.0	24	25	70.0
15	3/4	MRT1506	39.5	36	12.0	27	25	75.5
16	3/8	MRT1603	38.2	29	9.5	24	25	67.2
16	1/2	MRT1604	38.2	32	12.0	24	25	70.2
16	3/4	MRT1606	39.7	36	14.0	27	25	75.7
18	3/8	MRT1803	39.4	31	9.5	27	30	70.4
18	1/2	MRT1804	39.4	34	12.0	27	30	73.4
18	3/4	MRT1806	39.4	36	15.0	27	30	75.4
20	1/2	MRT2004	46.6	38.7	12.0	30	32	85.3
20	3/4	MRT2006	46.6	39	15.0	30	32	85.6
22	1/2	MRT2204	46.9	38.7	12.0	30	32	85.6
22	3/4	MRT2206	46.9	38.7	15.0	30	32	85.6
25	1/2	MRT2504	52.2	43	12.0	34	1-1/2	95.2
25	3/4	MRT2506	52.2	43	15.0	34	1-1/2	95.2
25	1	MRT2508	52.2	44.5	20.0	34	1-1/2	96.7

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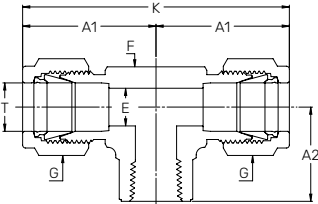
MRT
邊外螺紋卡套三通
MALE RUN TEE



英制 (FRACTIONAL)								
T 卡套管外徑 T TUBE O.D.	BSPT / NPT 錐管螺紋尺寸 BSPT / NPT TAPERED THREAD SIZE	PART NO.	A1	A2	E	F	G	K
1/8	1/8	MRT0101	23.9	18	2.5	12	7/16	41.9
1/8	1/4	MRT0102	25.1	22.2	2.5	14	7/16	47.3
1/4	1/8	MRT0201	25.8	18	5.0	12	9/16	43.8
1/4	1/4	MRT0202	27.0	22.2	5.0	14	9/16	49.2
1/4	3/8	MRT0203	29.4	25.6	5.0	17	9/16	55.0
1/4	1/2	MRT0204	32.2	31.4	5.0	22	9/16	63.6
3/8	1/8	MRT0301	28.9	19.2	5.0	14	11/16	48.1
3/8	1/4	MRT0302	28.9	22.2	7.0	14	11/16	51.1
3/8	3/8	MRT0303	31.3	26.5	7.7	17	11/16	57.8
3/8	1/2	MRT0304	34.0	31.3	7.7	22	11/16	65.3
1/2	1/4	MRT0402	35.9	26	7.0	20	7/8	61.9
1/2	3/8	MRT0403	35.9	26	9.5	20	7/8	61.9
1/2	1/2	MRT0404	36.2	21.3	10.0	22	7/8	57.5
1/2	3/4	MRT0406	38.9	36	10.0	27	7/8	74.9
5/8	3/8	MRT0503	37.9	29	9.5	24	25	66.9
5/8	1/2	MRT0504	37.9	32	12.0	24	25	69.9
5/8	3/4	MRT0506	39.4	36	14.0	27	25	75.4
3/4	1/2	MRT0604	39.9	34	12.0	27	1-1/8	73.9
3/4	3/4	MRT0606	39.9	36	15.0	27	1-1/8	75.9
3/4	1	MRT0608	50.9	45	16.0	34	1-1/8	95.9
1	1/2	MRT0804	52.4	43	12.0	34	1-1/2	95.4
1	3/4	MRT0806	52.4	45	15.0	34	1-1/2	97.4
1	1	MRT0808	52.4	45	20.0	34	1-1/2	97.4

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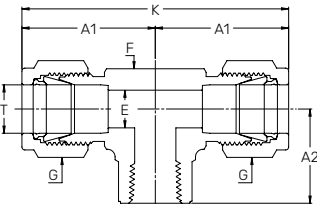
FBT
中心內螺紋卡套三通
FEMALE BRANCH TEE



公制 (METRIC)								
T 卡套管外徑 T TUBE O.D.	BSPT / NPT 錐管螺紋尺寸 BSPT / NPT TAPERED THREAD SIZE	PART NO.	A1	A2	E	F	G	K
6	1/8	FBT601	26.9	19.3	5.0	14	9/16	53.7
6	1/4	FBT602	29.3	23.7	5.0	17	9/16	58.5
6	3/8	FBT603	32.0	26.4	5.0	22	9/16	63.9
6	1/2	FBT604	34.6	32.2	5.0	27	9/16	69.1
8	1/8	FBT801	28.7	19.3	6.0	14	5/8	57.3
8	1/4	FBT802	32.4	24.5	6.0	17	5/8	64.7
8	3/8	FBT803	33.8	26.4	6.0	22	5/8	67.5
8	1/2	FBT804	36.4	32.2	6.0	27	5/8	72.7
10	1/8	FBT1001	31.6	23.7	7.2	17	19	63.2
10	1/4	FBT1002	31.6	23.7	8.0	17	19	63.2
10	3/8	FBT1003	34.7	26.8	8.0	22	19	69.4
10	1/2	FBT1004	36.9	32.1	8.0	27	19	73.8
12	1/4	FBT1202	35.7	25.0	10.0	20	7/8	71.4
12	3/8	FBT1203	36.1	26.4	10.0	22	7/8	72.2
12	1/2	FBT1204	40.2	34.3	10.0	27	7/8	80.4
12	3/4	FBT1206	49.7	41.0	10.0	34	7/8	99.4
14	3/8	FBT1403	37.9	28.7	12.0	24	25	75.8
14	1/2	FBT1404	39.4	32.3	12.0	27	25	78.8
14	3/4	FBT1406	50.4	41.0	12.0	34	25	100.8
15	3/8	FBT1503	38.1	28.7	12.0	24	25	76.1
15	1/2	FBT1504	39.6	32.2	12.0	27	25	79.1
15	3/4	FBT1506	50.6	41.0	12.0	34	25	101.1
16	3/8	FBT1603	38.2	28.7	14.0	24	25	76.4
16	1/2	FBT1604	39.7	32.2	14.0	27	25	79.4
16	3/4	FBT1606	50.7	41.0	14.0	34	25	101.4
18	3/8	FBT1803	39.4	32.2	12.0	27	30	78.8
18	1/2	FBT1804	39.4	32.2	16.0	27	30	78.8
18	3/4	FBT1806	50.4	41.0	16.0	34	30	100.8
20	1/2	FBT2004	46.7	37.7	18.0	30	32	93.3
20	3/4	FBT2006	49.1	41.0	18.0	34	32	98.1
22	1/2	FBT2204	47.0	37.7	18.0	30	32	93.9
22	3/4	FBT2206	49.4	41.0	18.0	34	32	98.7
25	1/2	FBT2504	52.4	41.0	20.0	34	1-1/2	104.8
25	3/4	FBT2506	52.4	41.0	20.0	34	1-1/2	104.8

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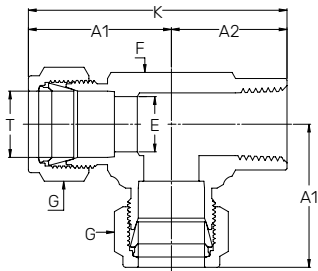
FBT
中心內螺紋卡套三通
FEMALE BRANCH TEE



英制 (FRACTIONAL)								
T 卡套管外徑 T TUBE O.D.	BSPT / NPT 錐管螺紋尺寸 BSPT / NPT TAPERED THREAD SIZE	PART NO.	A1	A2	E	F	G	K
1/8	1/8	FBT0101	25.2	19.3	2.5	14	7/16	50.4
1/8	1/4	FBT0102	27.6	23.7	2.5	17	7/16	55.2
1/4	1/8	FBT0201	27.2	19.3	5.0	14	9/16	54.3
1/4	1/4	FBT0202	29.6	23.7	5.0	17	9/16	59.1
1/4	3/8	FBT0203	32.3	26.8	5.0	22	9/16	64.5
1/4	1/2	FBT0204	34.9	32.2	5.0	27	9/16	69.7
3/8	1/8	FBT0301	29.1	19.3	7.7	14	11/16	58.1
3/8	1/4	FBT0302	31.5	23.7	7.7	17	11/16	62.9
3/8	3/8	FBT0303	34.5	26.8	7.7	22	11/16	69.1
3/8	1/2	FBT0304	36.8	32.2	7.7	27	11/16	73.5
1/2	1/4	FBT0402	35.9	25.0	10.0	20	7/8	71.8
1/2	3/8	FBT0403	36.7	26.8	10.0	22	7/8	73.4
1/2	1/2	FBT0404	38.9	32.2	10.0	27	7/8	77.8
1/2	3/4	FBT0406	49.9	41.0	10.0	34	7/8	99.8
3/4	3/8	FBT0603	40.0	32.8	14.5	27	1-1/8	79.9
3/4	1/2	FBT0604	40.0	32.8	16.0	27	1-1/8	79.9
3/4	3/4	FBT0606	51.0	41.0	16.0	34	1-1/8	101.9
1	1/2	FBT0804	52.4	41.0	17.6	34	1-1/2	104.8
1	3/4	FBT0806	52.4	41.0	20.0	34	1-1/2	104.8

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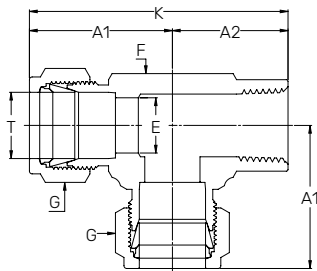
FRT
邊內螺紋卡套三通
FEMALE RUN TEE



公制 (METRIC)								
T 卡套管外徑 T TUBE O.D.	BSPT / NPT 錐管螺紋尺寸 BSPT / NPT TAPERED THREAD SIZE	PART NO.	A1	A2	E	F	G	K
6	1/8	FRT601	26.9	19.3	5.0	14	9/16	46.2
6	1/4	FRT602	29.3	23.7	5.0	17	9/16	53.0
6	3/8	FRT603	32.0	26.4	5.0	22	9/16	58.4
6	1/2	FRT604	34.6	32	5.0	27	9/16	66.6
8	1/8	FRT801	28.1	19.3	6.0	14	5/8	47.4
8	1/4	FRT802	30.5	23.7	6.0	17	5/8	54.2
8	3/8	FRT803	33.2	26.4	6.0	22	5/8	59.6
8	1/2	FRT804	35.8	32	6.0	27	5/8	67.8
10	1/8	FRT1001	31.6	23.7	8.0	17	19	55.3
10	1/4	FRT1002	31.6	23.7	8.0	17	19	55.3
10	3/8	FRT1003	34.3	26.4	8.0	22	19	60.7
10	1/2	FRT1004	36.9	32	8.0	27	19	68.9
12	1/4	FRT1202	35.7	25	10.0	20	7/8	60.7
12	3/8	FRT1203	36.7	26.4	10.0	22	7/8	63.1
12	1/2	FRT1204	38.7	32	10.0	27	7/8	70.7
12	3/4	FRT1206	49.7	41	10.0	34	7/8	90.7
14	3/8	FRT1403	37.9	27.5	12.0	24	25	65.4
14	1/2	FRT1404	39.4	32	12.0	27	25	71.4
14	3/4	FRT1406	50.4	41	12.0	34	25	91.4
15	3/8	FRT1503	38.0	27.5	12.0	24	25	65.5
15	1/2	FRT1504	39.5	32	12.0	27	25	71.5
15	3/4	FRT1506	50.5	41	12.0	34	25	91.5
16	3/8	FRT1603	38.2	27.5	14.0	24	25	65.7
16	1/2	FRT1604	39.7	32	14.0	27	25	71.7
16	3/4	FRT1606	50.7	41	14.0	34	25	91.7
18	3/8	FRT1803	39.4	32	14.0	27	30	71.4
18	1/2	FRT1804	39.4	32	16.0	27	30	71.4
18	3/4	FRT1806	50.4	41	16.0	34	30	91.4
20	1/2	FRT2004	46.6	37.5	18.0	30	32	84.1
20	3/4	FRT2006	49.0	41	18.0	34	32	90.0
22	1/2	FRT2204	46.9	37.5	18.0	30	32	84.4
22	3/4	FRT2206	49.3	41	18.0	34	32	90.3
25	1/2	FRT2504	52.4	41	18.0	34	1-1/2	93.4
25	3/4	FRT2506	52.4	41	20.0	34	1-1/2	93.4

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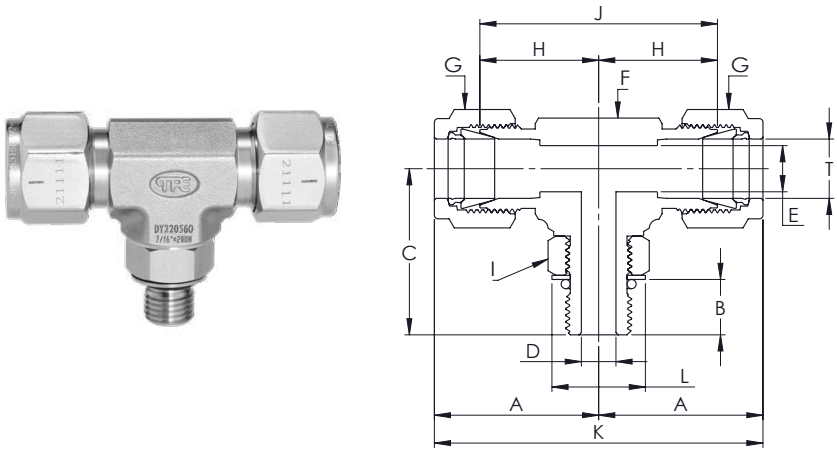
FRT
邊內螺紋卡套三通
FEMALE RUN TEE



英制 (FRACTIONAL)								
T 卡套管外徑 T TUBE O.D.	BSPT / NPT 錐管螺紋尺寸 BSPT / NPT TAPERED THREAD SIZE	PART NO.	A1	A2	E	F	G	K
1/8	1/8	FRT0101	25.2	19.3	2.5	14	7/16	44.5
1/8	1/4	FRT0102	27.6	23.7	2.5	17	7/16	51.3
1/4	1/8	FRT0201	27.1	19.3	5.0	14	9/16	46.4
1/4	1/4	FRT0202	29.5	23.7	5.0	17	9/16	53.2
1/4	3/8	FRT0203	32.2	26.4	5.0	22	9/16	58.6
1/4	1/2	FRT0204	34.8	32.5	5.0	27	9/16	67.3
3/8	1/8	FRT0301	29.0	19.3	7.7	14	11/16	48.3
3/8	1/4	FRT0302	31.2	23.5	7.7	17	11/16	54.7
3/8	3/8	FRT0303	34.1	26.4	7.7	22	11/16	60.5
3/8	1/2	FRT0304	36.7	32	7.7	27	11/16	68.7
1/2	1/4	FRT0402	35.9	25	10.0	20	7/8	60.9
1/2	3/8	FRT0403	36.3	26.4	10.0	22	7/8	62.7
1/2	1/2	FRT0404	40.9	33.8	10.0	27	7/8	74.7
1/2	3/4	FRT0406	49.9	41	10.0	34	7/8	90.9
5/8	3/8	FRT0503	37.9	27.5	14.0	24	25	65.4
5/8	1/2	FRT0504	39.4	32	14.0	27	25	71.4
5/8	3/4	FRT0506	50.4	41	14.0	34	25	91.4
3/4	3/8	FRT0603	39.9	32	14.0	27	1-1/8	71.9
3/4	1/2	FRT0604	41.4	33.5	16.0	27	1-1/8	74.9
3/4	3/4	FRT0606	50.4	41	16.0	34	1-1/8	91.4
1	1/2	FRT0804	52.4	41	18.0	34	1-1/2	93.4
1	3/4	FRT0806	52.4	41	20.0	34	1-1/2	93.4

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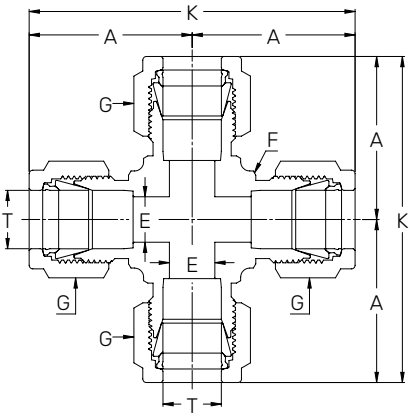
PMBT
可定位中心外螺紋卡套三通
ADJUSTABLE MALE
BRANCH TEE



英制 (FRACTIONAL)														
T 卡套管外徑 T TUBE O.D.	BSPT / NPT 錐管螺紋尺寸 BSPT / NPT TAPERED THREAD SIZE	PART NO.	A	B	C	D	E	F	G	H	I	J	K	L
1/2	7/16-20	PMBT04SAE4	35.7	10.6	35	4.5	10	20	7/8	25.8	17	51.6	71.4	16.5
1/2	9/16-18	PMBT04SAE6	35.7	12	36	7.5	10	20	7/8	25.8	19	51.6	71.4	20.2

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UCR
卡套由任四通
UNION CROSS

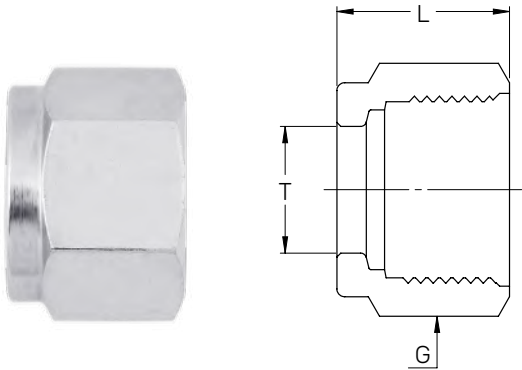


公制 (METRIC)						
T 卡套管外徑 T TUBE O.D.	PART NO.	A	E	F	G	K
6	UCR6	25.7	5.0	12	9/16	51.4
8	UCR8	30.3	6.0	14	5/8	60.6
10	UCR10	34.4	8.0	17	19	68.8
12	UCR12	35.7	10.0	20	7/8	71.4

英制 (FRACTIONAL)						
T 卡套管外徑 T TUBE O.D.	PART NO.	A	E	F	G	K
1/8	UCR01	23.5	2.5	12	7/16	47.0
1/4	UCR02	25.4	5.0	12	9/16	50.8
3/8	UCR03	30.7	7.7	14	11/16	61.4
1/2	UCR04	35.9	10.0	20	7/8	71.8

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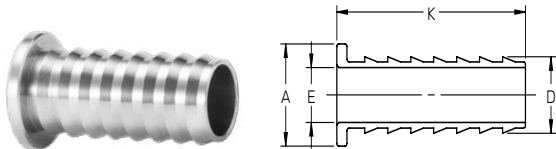
N
卡套螺母
NUT



公制 (METRIC)			
T 卡套管外徑 T TUBE O.D.	PART NO.	G	L
3	N3	7/16	12.0
6	N6	9/16	12.7
8	N8	5/8	13.5
10	N10	19	15.0
12	N12	7/8	17.5
14	N14	25	17.5
15	N15	25	17.5
16	N16	25	17.5
18	N18	30	17.5
20	N20	32	17.5
22	N22	32	17.5
25	N25	1-1/2	20.5

英制 (FRACTIONAL)			
T 卡套管外徑 T TUBE O.D.	PART NO.	G	L
1/16	N005	10	8.0
1/8	N01	7/16	12.0
3/16	N015	12	12.0
1/4	N02	9/16	12.7
3/8	N03	11/16	14.3
1/2	N04	7/8	17.5
5/8	N05	25	17.5
3/4	N06	1-1/8	17.5
1	N08	1-1/2	20.6

CT
襯套
INSERT

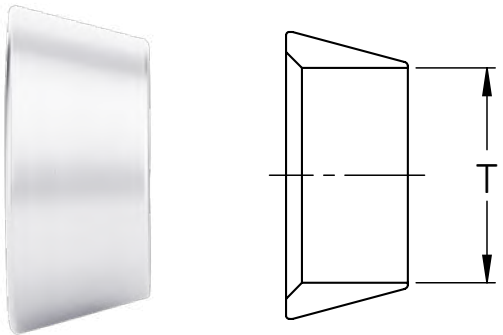


- a: 尺寸 D 為軟管內徑
- a: Size D is hose I.D.
- b: 軟管最大外徑不可超過尺寸 A
- b: Hose Max. O.D. is less than size A

公制 (METRIC)				
PART NO.	DIMENSIONS(mm)			
	A _b	E	K	D _a
CT4*6	6.0	2.8	16.0	4.0
CT5*8	8.0	3.8	18.5	5.0
CT6*8	8.0	4.2	18.5	6.0
CT8*10	10.0	6.0	16.0	7.8
CT10*12	12.0	8.2	22.0	10.0

英制 (FRACTIONAL)				
PART NO.	DIMENSIONS(mm)			
	A _b	E	K	D _a
CT02-PE	6.35	2.0	18.5	4.57
CT015*02	6.35	3.0	18.5	4.76
CT02*03	9.53	4.7	17.0	6.35
CT03*04	12.7	7.8	22.5	9.53
CT04*06	19.05	11.1	21.6	12.70
CT05*06	19.05	14.2	25.0	15.88
CT06*08	25.4	17.3	28.0	19.05

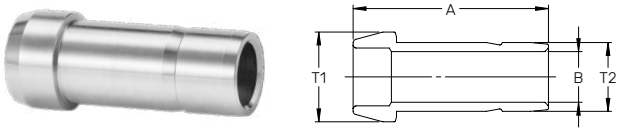
FF
前卡圈
FRONT FERRULE



公制 (METRIC)	
T 卡套管外徑 T TUBE O.D.	P.R.T NO.
3	FF3
6	FF6
8	FF8
10	FF10
12	FF12
14	FF14
15	FF15
16	FF16
18	FF18
20	FF20
22	FF22
25	FF25

英制 (FRACTIONAL)	
T 卡套管外徑 T TUBE O.D.	PART NO.
1/16	FF005
1/8	FF01
3/16	FF015
1/4	FF02
3/8	FF03
1/2	FF04
5/8	FF05
3/4	FF06
1	FF08

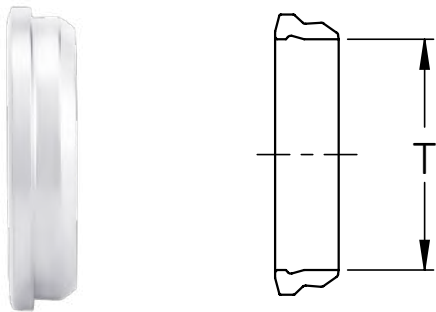
PC
卡套孔口連接接頭
PORT CONNECTOR



公制 (METRIC)				
T1 卡套管外徑 T1 TUBE O.D.	T2 卡套管外徑 T2 TUBE O.D.	PART NO.	A	B
6	6	PC6	25.0	4.0
8	8	PC8	26.0	5.0
10	10	PC10	27.1	7.5
12	12	PC12	36.2	9.5
10	6	PC106	26.0	4.0
10	8	PC108	29.0	5.0
12	6	PC126	29.6	4.0
12	8	PC128	30.0	5.0
12	10	PC1210	32.5	7.5

英制 (FRACTIONAL)				
T1 卡套管外徑 T1 TUBE O.D.	T2 卡套管外徑 T2 TUBE O.D.	PART NO.	A	B
1/8"	1/8"	PC01	24.0	2.0
1/4"	1/4"	PC02	25.0	4.0
3/8"	3/8"	PC03	27.0	7.0
1/2"	1/2"	PC04	37.0	9.5
3/4'	3/4"	PC06	37.8	16.0
1"	1"	PC08	49.2	20.4
3/8"	1/4"	PC0302	25.4	4.0
3/4"	1/2"	PC0604	37.8	9.5

BF
後卡圈
BACK FERRULE



公制 (METRIC)	
T 卡套管外徑 T TUBE O.D.	PART NO.
3	BF3
6	BF6
8	BF8
10	BF10
12	BF12
14	BF14
15	BF15
16	BF16
18	BF18
20	BF20
22	BF22
25	BF25

英制 (FRACTIONAL)	
T 卡套管外徑 T TUBE O.D.	PART NO.
1/16	BF005
1/8	BF01
3/16	BF015
1/4	BF02
3/8	BF03
1/2	BF04
5/8	BF05
3/4	BF06
1	BF08

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SEALS

直管螺紋用墊片 & O-RINGS

ISO / BSPP GASKETS & O-RINGS

O 型圈

O-RING



O 型圈密封 (GS 用) / O 型圈硬度為 70(Shore A) O-Seal(GS) / O-ring hardness is 70 durometer.				
BSPP (G) 螺紋尺寸 BSPP (G) THREAD SIZE	尺寸代號 DESIGNATOR SIZE	DIMENSIONS (mm)		
		內徑 I.D.	線徑 CS	
1/8	P-8	7.8	1.9	
1/4	AS111	10.77	2.62	
3/8	AS113	13.95	2.62	
1/2	AS115	17.12	2.62	
3/4	AS119	23.47	2.62	
1	AS217	29.75	3.53	

O 型圈密封 (SAE 用) / O 型圈硬度為 90(Shore A) O-Seal(SAE) / O-ring hardness is 90 durometer.				
SAE 螺紋尺寸 SAE THREAD SIZE	尺寸代號 DESIGNATOR SIZE	DIMENSIONS (mm)		
		內徑 I.D.	線徑 CS	
3/8-24	AS903	7.65	1.63	
7/16-20	AS904	8.92	1.83	
1/2-20	AS905	10.52	1.83	
9/16-18	AS906	11.89	1.98	
3/4-16	AS908	16.36	2.21	
7/8-14	AS910	19.18	2.46	
1-1/16-12	AS912	23.47	2.95	
1-3/16-12	AS914	26.6	2.95	
1-5/16-12	AS916	29.75	2.95	

O 型圈密封 (GO 用) / O 型圈硬度為 70(Shore A) O-Seal(GO) / O-ring hardness is 70 durometer.				
BSPP (G) 螺紋尺寸 BSPP (G) THREAD SIZE	尺寸代號 DESIGNATOR SIZE	DIMENSIONS (mm)		
		內徑 I.D.	線徑 CS	
1/8	AS111	10.77	2.62	
1/4	AS113	13.95	2.62	
3/8	AS116	18.72	2.62	
1/2	AS212	21.82	3.53	
3/4	AS215	26.57	3.53	
1	AS219	32.92	3.53	

- O 型圈 標配材質為 FKM, 如需其他材質請洽 JPE 銷售人員
- O-RING STANDARD MATERIAL IS FKM, FOR OTHER CUSTOM DEMAND, PLEASE CONTACT AUTHORIZED JPE REPRESENTATIVE.

O 型圈支撐環

RETAINING RING



O 型圈支撐環 (GS 用) Retaining ring(GS)					
BSPP (G) 螺紋尺寸 BSPP (G) THREAD SIZE	尺寸代號 DESIGNATOR SIZE	DIMENSIONS (mm)			
		內徑 I.D.	外徑 O.D.	厚度 W	
1/8	RTR01	12.2	15	1.4	
1/4	RTR02	16.15	19.5	1.9	
3/8	RTR03	19.5	23.5	1.9	
1/2	RTR04	23.3	28.5	1.9	
3/4	RTR06	28.6	34.5	1.9	
1	RTR08	36.6	43.5	2.6	

ED 墊圈

ED(ELASTOMERIC) SEAL



ED 墊圈 (GE 用) / ED 墊圈硬度為 80(Shore A) Retaining ring(GS) / ED seal hardness is 80 durometer.					
BSPP (G) 螺紋尺寸 BSPP (G) THREAD SIZE	尺寸代號 DESIGNATOR SIZE	DIMENSIONS (mm)			
		內徑 I.D.	外徑 O.D.	厚度 W	
1/8	ED01	8.4	11.9	1.0	
1/4	ED02	11.6	16.5	1.5	
3/8	ED03	14.7	18.9	1.5	
1/2	ED04	18.5	23.9	1.5	
3/4	ED06	23.9	29.2	1.5	
1	ED08	29.7	35.7	2.0	

- ED 墊片 標配材質為 FKM, 如需其他材質請洽 JPE 銷售人員
- ED SEAL STANDARD MATERIAL IS FKM, FOR OTHER CUSTOM DEMAND, PLEASE CONTACT AUTHORIZED JPE REPRESENTATIVE.

金屬墊片

METAL GASKET



全金屬墊片密封 (GP1/GP2 用) Metal gasket (GP1/GP2)			
BSPP (G) 螺紋尺寸 BSPP (G) THREAD SIZE	尺寸代號 DESIGNATOR SIZE		
	銅 BRASS	SS304 ^A	
1/8	MS01-PB	MS01-S4	
1/4	MS02-PB	MS02-S4	
3/8	MS03-PB	MS03-S4	
1/2	MS04-PB	MS04-S4	
3/4	MS06-PB	MS06-S4	
1	MS08-PB	MS08-S4	

- A: GP2 不適用 SS304
- A: GP2 is not suitable for SS304.

複合墊片

COMPOUNDED SEAL



複合墊片密封 (GP1 用) Compounded seal (GP1)			
BSPP (G) 螺紋尺寸 BSPP (G) THREAD SIZE	尺寸代號 DESIGNATOR SIZE		
	銅 BRASS	SS304 ^A	
1/8	CS01-PB	CS01-S4	
1/4	CS02-PB	CS02-S4	
3/8	CS03-PB	CS03-S4	
1/2	CS04-PB	CS04-S4	
3/4	CS06-PB	CS06-S4	
1	CS08-PB	CS08-S4	

- CS 複合墊片是由一個 FKM 內環黏接到一個金屬外環上構成
- Compounded seal is consist of a FKM centering ring and a metal outer ring.

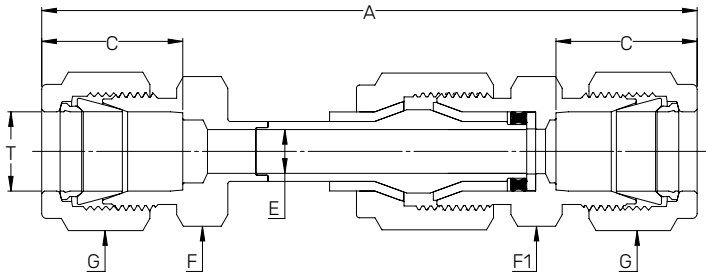
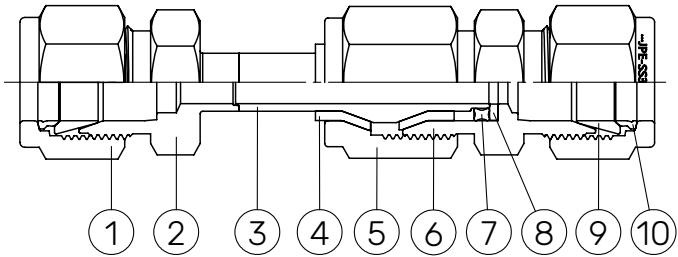
DEU
絕緣接頭
DIELECTRIC FITTINGS

特性
FEATURES

- 中斷電流的同時，流體能正常流動
 - 本體材質為不鏽鋼 SS316L
 - 最大工作壓力:5000 psig (344bar) @RT
 - 電阻率 70° F(20° C):10V(dc)- $10\times10^6\ \Omega$
 - 適用溫度:-40~200° F(-40~93° C)
 - 密封元件材質標準配置氟橡膠 (FKM) 及聚四氟乙烯 (PTFE)
 - 100% 出廠前進行氮氣 500psig 功能性檢測及密封試驗
- Interrupt cathodic current flow while permitting full fluid flow
 - Body material:SS316L
 - Max working pressure:5000psig (344 bar) @RT
 - Electrical Resistance of Insulators at 70° F (20° C):
 $10\times10^6\ \Omega$ at 10 V (dc)
 - Applicable Temperature:-40~200° F(-40~93° C)
 - FKM and PTFE packing as standard
 - 100% functional test and closure test with nitrogen at 500psig

材質結構
MATERIAL OF CONSTRUCTION

項次 Item	零件名稱 Part Description	數量 Qty.	材質 Material
1	卡套螺母 Nut	2	SS316L
2	邊側 End Cap	1	SS316L
3	焊管 Welded Tube	1	SS316L
4	絕緣環 Thermoplastic Insulator	2	PAI
5	子體 Plug	1	SS316L
6	母體 Socket	1	SS316L
7	密封圈 Seal Ring	1	FKM
8	墊片 Seat	1	PTFE
9	前卡圈 Front Ferrule	2	SS316L
10	後卡圈 Back Ferrule	2	SS316L



類型 Type	T 卡套管外徑 T TUBE O.D.	PART NO.	尺寸表 Dimensions (mm)					
			A	C	E	F	F1	G
卡套 JPE TUBE END	3/8	DEU03	99.6	16.8	7.1	16	16	11/16
	1/2	DEU04	106.2	22.9		21	21	7/8

- 除非另有說明，否則所有尺寸單位均為 mm。
- 數值若是分數，表示其單位是 inch
- 上述尺寸僅供參考，修改不另行通知。
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
- FRACTIONAL NUMBERS MEAN INCH SIZE.
- DIMENSIONS SHOWN ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE.

FA
法蘭轉換接頭
FLANGE ADAPTERS



特性
FEATURES

- 法蘭類型符合 ASME B16.5、HG/T 20615-2009、HG/T 20592-2009 標準。
 - 法蘭密封面：平面、突面、舌槽面及環連接面。
 - 材質：SS316L、特殊合金鋼。
 - 鍛造一體式無焊接本體。
- Compatible with ASME B16.5, HG/T 20615-2009, HG/T 20592-2009.
 - Full range of sealing faces including flat face, raised face, groove face, and ring joint face.
 - Material: SS316L, Monel.
 - One-piece forged body non welding.

接頭接口尺寸
JPE TUBE END CONNECTIONS SIZE

- 公制：6mm - 25mm
 - 英制：1/4" - 1"
- Metric：6mm - 25mm
 - Fractional：1/4" - 1"

法蘭接口
FLANGE CONNECTIONS(ASME)

- 尺寸：NPS 1/2" - 2"
 - 壓力等級：Class 150 - Class 2500
 - 法蘭接口仍有其他形式，如有特殊需求，請洽 JPE 業務人員。
- Size：NPS 1/2" - 2"
 - Pressure：Class 150 - Class 2500
 - Other flange connections are available, for other custom demand, please contact authorized JPE representative.

壓力 - 溫度額定值 PRESSURE-TEMPERATURE
RATINGS

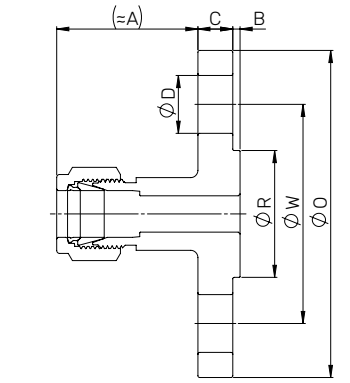
- 法蘭轉換接頭的壓力係數，壓力係數由較低壓力額定值決定。
- Pressure ratings for flange adapters are determined by the connections which with the lower pressure rating.

ASME B16.5 各等級工作壓力 WORKING PRESSURES BY LEVELS							
Temperature °C (°F)	ASME B16.5 Class(SS316L) Psig(bar)						
	150	300	400	600	900	1500	2500
-3 to 38 (-20 to 100)	230(15.9)	600(41.4)	800(55.2)	1200(82.7)	1800(124.1)	3000(206.8)	5000(344.7)
93(200)	195(13.4)	510(35.2)	680(46.9)	1020(70.3)	1535(105.8)	2555(176.2)	4260(293.7)
149(300)	175(12.1)	455(31.4)	610(42.1)	910(62.7)	1370(94.5)	2280(157.2)	3800(262.0)
204(400)	160(11.0)	420(29.0)	560(38.6)	840(57.9)	1260(86.9)	2100(144.8)	3500(241.3)
260(500)	150(10.3)	395(27.2)	525(36.2)	785(54.1)	1180(81.4)	1970(135.8)	3280(226.1)
316(600)	140(9.7)	370(25.5)	495(34.1)	745(51.4)	1115(76.9)	1860(128.2)	3100(213.7)
343(650)	125(8.6)	365(25.2)	485(33.4)	730(50.3)	1095(75.5)	1825(125.8)	3040(209.6)
371(700)	110(7.6)	360(24.8)	480(33.1)	720(49.6)	1080(74.5)	1800(124.1)	3000(206.8)
399(750)	95(6.6)	355(24.5)	470(32.4)	705(48.6)	1060(73.1)	1765(121.7)	2940(202.7)
427(800)	80(5.5)	345(23.8)	460(31.7)	690(47.6)	1035(71.4)	1730(119.3)	2880(198.6)
454(850)	65(4.5)	340(23.4)	450(31.0)	675(46.5)	1015(70.0)	1690(116.5)	2820(194.4)

HG/T 20615 CLASS 各等級工作壓力 WORKING PRESSURES BY LEVELS						
Temperature °C (°F)	HG/T 20615 Class (SS316L) Psig(bar)					
	150	300	600	900	1500	2500
38(100)	230.6(15.9)	600.5(41.4)	1199.5(82.7)	1799.9(124.1)	2999.4(206.8)	4999.5(344.7)
50(122)	221.9(15.3)	580.2(40.0)	1160.3(80.0)	1741.9(120.1)	2902.2(200.1)	4837.0(333.5)
100(212)	192.9(13.3)	504.7(34.8)	1009.5(69.6)	1541.2(104.4)	2522.2(173.9)	4204.6(289.9)
150(302)	174.0(12.0)	455.4(31.4)	910.8(62.8)	1366.3(94.2)	2277.1(157.0)	3794.2(261.6)
200(392)	162.4(11.2)	423.5(29.2)	845.6(58.3)	1269.1(87.5)	2114.7(145.8)	3524.4(243.0)
250(482)	152.3(10.5)	398.9(27.5)	796.3(54.9)	1195.1(82.4)	1991.4(137.3)	3319.9(228.9)
300(572)	145.0(10.0)	378.5(26.1)	755.6(52.1)	1134.2(78.2)	1889.8(130.3)	3150.2(217.2)
325(617)	134.9(9.3)	369.8(25.5)	739.7(51.0)	1108.1(76.4)	1847.8(127.4)	3079.2(212.3)
350(662)	121.8(8.4)	364.0(25.1)	726.6(50.1)	1090.7(75.2)	1818.8(125.4)	3029.8(208.9)
375(707)	107.3(7.4)	359.7(24.8)	717.9(49.5)	1077.6(74.3)	1795.6(123.8)	2992.1(206.3)
400(752)	94.3(6.5)	352.4(24.3)	704.9(48.6)	1057.3(72.9)	1762.2(121.5)	2937.0(202.5)
425(797)	79.8(5.5)	346.6(23.9)	691.8(47.7)	1038.5(71.6)	1730.3(119.3)	2883.4(198.8)
450(842)	66.7(4.6)	339.4(23.4)	678.8(46.8)	1018.2(70.2)	1698.4(117.1)	2829.7(195.1)

ASME B16.5 RF FLANGE SIZE

ASME B16.5 RF 法蘭尺寸



JPE 卡套 JPE TUBE END	A
04J	39
05J	40
06J	44
08J	46
12J	39
14J	40
15J	40
16J	40
18J	44
20J	43
22J	43
25J	46

壓力等級 PRESSURE GRADE	1/2"RF (DN15)						
	R	O	C	B	W	N Number of bolts	D
Class150	34.9	90	9.6	2	60.3	4	15.9
Class300	34.9	95	12.7	2	66.7	4	15.9
Class600	34.9	95	14.3	7	66.7	4	15.9
Class900	34.9	120	22.3	7	82.6	4	22.2
Class1500	34.9	120	22.3	7	82.6	4	22.2

壓力等級 PRESSURE GRADE	3/4"RF (DN20)						
	R	O	C	B	W	N Number of bolts	D
Class150	42.9	100	11.2	2	69.9	4	15.9
Class300	42.9	115	14.3	2	82.6	4	19.1
Class600	42.9	115	15.9	7	82.6	4	19.1
Class900	42.9	130	25.4	7	88.9	4	22.2
Class1500	42.9	130	25.4	7	88.9	4	22.2

壓力等級 PRESSURE GRADE	1"RF (DN25)						
	R	O	C	B	W	N Number of bolts	D
Class150	50.8	110	12.7	2	79.4	4	15.9
Class300	50.8	125	15.9	2	88.9	4	19.1
Class600	50.8	125	17.5	7	88.9	4	19.1
Class900	50.8	150	28.6	7	101.6	4	25.4
Class1500	50.8	150	28.6	7	101.6	4	25.4

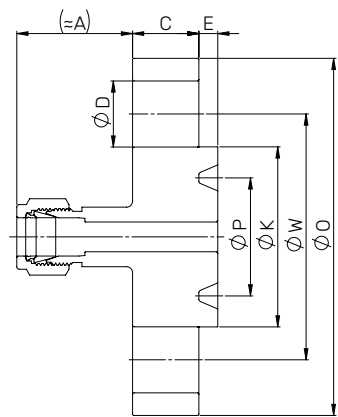
壓力等級 PRESSURE GRADE	1-1/4"RF (DN32)						
	R	O	C	B	W	N Number of bolts	D
Class150	63.5	115	14.3	2	88.9	4	15.9
Class300	63.5	135	17.5	2	98.4	4	19.1
Class600	63.5	135	20.7	7	98.4	4	19.1
Class900	63.5	160	28.6	7	111.1	4	25.4
Class1500	63.5	160	28.6	7	111.1	4	25.4

壓力等級 PRESSURE GRADE	1-1/2"RF (DN40)						
	R	O	C	B	W	N Number of bolts	D
Class150	73	125	15.9	2	98.4	4	15.9
Class300	73	155	19.1	2	114.3	4	22.2
Class600	73	155	22.3	7	114.3	4	22.2
Class900	73	180	31.8	7	123.8	4	28.6
Class1500	73	180	31.8	7	123.8	4	28.6

壓力等級 PRESSURE GRADE	2"RF (DN50)						
	R	O	C	B	W	N Number of bolts	D
Class150	92.1	150	17.5	2	120.7	4	19.1
Class300	92.1	165	20.7	2	127	8	19.1
Class600	92.1	165	25.4	7	127	8	19.1
Class900	92.1	215	38.1	7	165.1	8	25.4
Class1500	92.1	215	38.1	7	165.1	8	25.4

ASME B16.5 RTJ FLANGE SIZE

ASME B16.5 RTJ 法蘭尺寸



JPE 卡套 JPE TUBE END	A
04J	39
05J	40
06J	44
08J	46
12J	39
14J	40
15J	40
16J	40
18J	44
20J	43
22J	43
25J	46

壓力等級 PRESSURE GRADE	1/2"RTJ (DN15)							
	P	K	O	C	E	W	N Number of bolts	D
Class150	34.14	51	90	9.6	5.54	60.3	4	15.9
Class300	34.14	51	95	12.7	5.54	66.7	4	15.9
Class600	34.14	51	95	14.3	5.54	66.7	4	15.9
Class900	39.67	60.5	120	22.3	6.35	82.6	4	22.2
Class1500	39.67	60.5	120	22.3	6.35	82.6	4	22.2

壓力等級 PRESSURE GRADE	3/4"RTJ (DN20)							
	P	K	O	C	E	W	N Number of bolts	D
Class150	42.88	63.5	100	11.2	6.35	69.9	4	15.9
Class300	42.88	63.5	115	14.3	6.35	82.6	4	19.1
Class600	42.88	63.5	115	15.9	6.35	82.6	4	19.1
Class900	44.45	66.5	130	25.4	6.35	88.9	4	22.2
Class1500	44.45	66.5	130	25.4	6.35	88.9	4	22.2

壓力等級 PRESSURE GRADE	1"RTJ (DN25)							
	P	K	O	C	E	W	N Number of bolts	D
Class150	47.63	63.5	110	12.7	6.35	79.4	4	15.9
Class300	50.8	70	125	15.9	6.35	88.9	4	19.1
Class600	50.8	70	125	17.5	6.35	88.9	4	19.1
Class900	50.8	71.5	150	28.6	6.35	101.6	4	25.4
Class1500	50.8	71.5	150	28.6	6.35	101.6	4	25.4

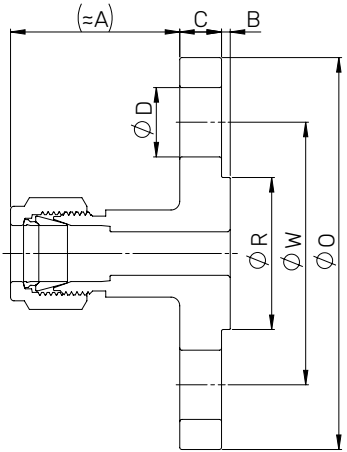
壓力等級 PRESSURE GRADE	1-1/4"RTJ (DN32)							
	P	K	O	C	E	W	N Number of bolts	D
Class150	57.15	73	115	14.3	6.35	88.9	4	15.9
Class300	60.33	79.5	135	17.5	6.35	98.4	4	19.1
Class600	60.33	79.5	135	20.7	6.35	98.4	4	19.1
Class900	60.33	81	160	28.6	6.35	111.1	4	25.4
Class1500	60.33	81	160	28.6	6.35	111.1	4	25.4

壓力等級 PRESSURE GRADE	1-1/2"RTJ (DN40)							
	P	K	O	C	E	W	N Number of bolts	D
Class150	65.07	82.5	125	15.9	6.35	98.4	4	15.9
Class300	68.27	90.5	155	19.1	6.35	114.3	4	22.2
Class600	68.27	90.5	155	22.3	6.35	114.3	4	22.2
Class900	68.27	92	180	31.8	6.35	123.8	4	28.6
Class1500	68.27	92	180	31.8	6.35	123.8	4	28.6

壓力等級 PRESSURE GRADE	2"RTJ (DN50)							
	P	K	O	C	E	W	N Number of bolts	D
Class150	82.55	102	150	17.5	6.35	120.7	4	19.1
Class300	82.55	108	165	20.7	7.92	127	8	19.1
Class600	82.55	108	165	25.4	7.92	127	8	19.1
Class900	95.25	124	215	38.1	7.92	165.1	8	25.4
Class1500	95.25	124	215	38.1	7.92	165.1	8	25.4

HG/T 20615-2009 RF FLANGE SIZE

HG/T 20615-2009 RF 法蘭尺寸



JPE 卡套 JPE TUBE END	A
04J	39
05J	40
06J	44
08J	46
12J	39
14J	40
15J	40
16J	40
18J	44
20J	43
22J	43
25J	46

壓力等級 PRESSURE GRADE	1/2"RF (DN15)						
	R	O	C	B	W	N Number of bolts	D
Class150	34.9	90	9.6	2	60.3	4	16
Class300	34.9	95	12.7	2	66.7	4	16
Class600	34.9	95	14.3	7	66.7	4	16
Class900	34.9	120	22.3	7	82.6	4	22
Class1500	34.9	120	22.3	7	82.6	4	22

壓力等級 PRESSURE GRADE	3/4"RF (DN20)						
	R	O	C	B	W	N Number of bolts	D
Class150	42.9	100	11.2	2	69.9	4	16
Class300	42.9	115	14.3	2	82.6	4	18
Class600	42.9	115	15.9	7	82.6	4	18
Class900	42.9	130	25.4	7	88.9	4	22
Class1500	42.9	130	25.4	7	88.9	4	22

壓力等級 PRESSURE GRADE	1"RF (DN25)						
	R	O	C	B	W	N Number of bolts	D
Class150	50.8	110	12.7	2	79.4	4	16
Class300	50.8	125	15.9	2	88.9	4	18
Class600	50.8	125	17.5	7	88.9	4	18
Class900	50.8	150	28.6	7	101.6	4	26
Class1500	50.8	150	28.6	7	101.6	4	26

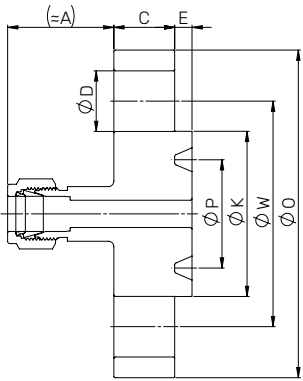
壓力等級 PRESSURE GRADE	1-1/4"RF (DN32)						
	R	O	C	B	W	N Number of bolts	D
Class150	63.5	115	14.3	2	88.9	4	16
Class300	63.5	135	17.5	2	98.4	4	18
Class600	63.5	135	20.7	7	98.4	4	18
Class900	63.5	160	28.6	7	111.1	4	26
Class1500	63.5	160	28.6	7	111.1	4	26

壓力等級 PRESSURE GRADE	1-1/2"RF (DN40)						
	R	O	C	B	W	N Number of bolts	D
Class150	73	125	15.9	2	98.4	4	16
Class300	73	155	19.1	2	114.3	4	22
Class600	73	155	22.3	7	114.3	4	22
Class900	73	180	31.8	7	123.8	4	30
Class1500	73	180	31.8	7	123.8	4	30

壓力等級 PRESSURE GRADE	2"RF (DN50)						
	R	O	C	B	W	N Number of bolts	D
Class150	92.1	150	17.5	2	120.7	4	18
Class300	92.1	165	20.7	2	127	8	18
Class600	92.1	165	25.4	7	127	8	18
Class900	92.1	215	38.1	7	165.1	8	26
Class1500	92.1	215	38.1	7	165.1	8	26

HG/T 20615-2009 RTJ FLANGE SIZE

HG/T 20615-2009 RTJ 法蘭尺寸



JPE 卡套 JPE TUBE END	A
04J	39
05J	40
06J	44
08J	46
12J	39
14J	40
15J	40
16J	40
18J	44
20J	43
22J	43
25J	46

壓力等級 PRESSURE GRADE	1/2"RTJ (DN15)						
	P	K	O	C	E	W	N Number of bolts
Class150	-	-	-	-	-	-	-
Class300	34.14	51	95	12.7	5.54	66.7	4
Class600	34.14	51	95	14.3	5.54	66.7	4
Class900	39.67	60.5	120	22.3	6.35	82.6	4
Class1500	39.67	60.5	120	22.3	6.35	82.6	4

壓力等級 PRESSURE GRADE	3/4"RTJ (DN20)						
	P	K	O	C	E	W	N Number of bolts
Class150	-	-	-	-	-	-	-
Class300	42.88	63.5	115	14.3	6.35	82.6	4
Class600	42.88	63.5	115	15.9	6.35	82.6	4
Class900	44.45	66.5	130	25.4	6.35	88.9	4
Class1500	44.45	66.5	130	25.4	6.35	88.9	4

壓力等級 PRESSURE GRADE	1"RTJ (DN25)						
	P	K	O	C	E	W	N Number of bolts
Class150	47.63	63.5	110	12.7	6.35	79.4	4
Class300	50.8	70	125	15.9	6.35	88.9	4
Class600	50.8	70	125	17.5	6.35	88.9	4
Class900	50.8	71.5	150	28.6	6.35	101.6	4
Class1500	50.8	71.5	150	28.6	6.35	101.6	4

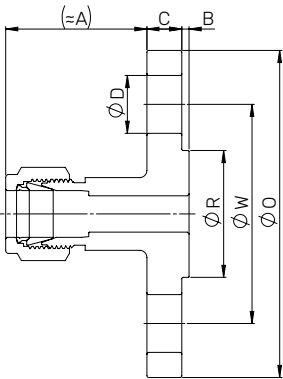
壓力等級 PRESSURE GRADE	1-1/4"RTJ (DN32)						
	P	K	O	C	E	W	N Number of bolts
Class150	57.15	73	115	14.3	6.35	88.9	4
Class300	60.33	79.5	135	17.5	6.35	98.4	4
Class600	60.33	79.5	135	20.7	6.35	98.4	4
Class900	60.33	81	160	28.6	6.35	111.1	4
Class1500	60.33	81	160	28.6	6.35	111.1	4

壓力等級 PRESSURE GRADE	1-1/2"RTJ (DN40)						
	P	K	O	C	E	W	N Number of bolts
Class150	65.07	82.5	125	15.9	6.35	98.4	4
Class300	68.27	90.5	155	19.1	6.35	114.3	4
Class600	68.27	90.5	155	22.3	6.35	114.3	4
Class900	68.27	92	180	31.8	6.35	123.8	4
Class1500	68.27	92	180	31.8	6.35	123.8	4

壓力等級 PRESSURE GRADE	2"RTJ (DN50)						
	P	K	O	C	E	W	N Number of bolts
Class150	82.55	102	150	17.5	6.35	120.7	4
Class300	82.55	108	165	20.7	6.35	127	8
Class600	82.55	108	165	25.4	6.35	127	8
Class900	95.25	124	215	38.1	7.92	165.1	8
Class1500	95.25	124	215	38.1	7.92	165.1	8

HG/T 20592-2009 RF FLANGE SIZE

HG/T 20592-2009 RF 法蘭尺寸



JPE 卡套 JPE TUBE END	A
04J	39
05J	40
06J	44
08J	46
12J	39
14J	40
15J	40
16J	40
18J	44
20J	43
22J	43
25J	46

壓力等級 PRESSURE GRADE	1/2"RF (DN15)						
	R	O	C	B	W	N Number of bolts	D
PN16	45	95	14	2	65	4	14
PN25	45	95	14	2	65	4	14
PN40	45	95	14	2	65	4	14
PN63	45	105	20	2	75	4	14
PN100	45	105	20	2	75	4	14
PN160	45	105	20	2	75	4	14

壓力等級 PRESSURE GRADE	3/4"RF (DN20)						
	R	O	C	B	W	N Number of bolts	D
PN16	58	105	16	2	75	4	14
PN25	58	105	16	2	75	4	14
PN40	58	105	16	2	75	4	14
PN63	58	130	22	2	90	4	18
PN100	58	130	22	2	90	4	18
PN160	58	130	24	2	90	4	18

壓力等級 PRESSURE GRADE	1"RF (DN25)						
	R	O	C	B	W	N Number of bolts	D
PN16	68	115	16	2	85	4	14
PN25	68	115	16	2	85	4	14
PN40	68	115	16	2	85	4	14
PN63	68	140	24	2	100	4	18
PN100	68	140	24	2	100	4	18
PN160	68	140	24	2	100	4	18

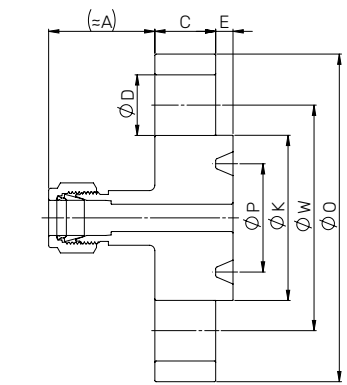
壓力等級 PRESSURE GRADE	1-1/4"RF (DN32)						
	R	O	C	B	W	N Number of bolts	D
PN16	78	140	18	2	100	4	18
PN25	78	140	18	2	100	4	18
PN40	78	140	18	2	100	4	18
PN63	78	155	24	2	110	4	22
PN100	78	155	24	2	110	4	22
PN160	78	155	28	2	110	4	22

壓力等級 PRESSURE GRADE	1-1/2"RF (DN40)						
	R	O	C	B	W	N Number of bolts	D
PN16	88	150	18	2	110	4	18
PN25	88	150	18	2	110	4	18
PN40	88	150	18	2	110	4	18
PN63	88	170	26	2	125	4	22
PN100	88	170	26	2	125	4	22
PN160	88	170	28	2	125	4	22

壓力等級 PRESSURE GRADE	2"RF (DN50)						
	R	O	C	B	W	N Number of bolts	D
PN16	102	165	19	2	125	4	18
PN25	102	165	20	2	125	4	18
PN40	102	165	20	2	125	4	18
PN63	102	180	26	2	135	4	22
PN100	102	195	28	2	145	4	26
PN160	102	195	30	2	145	4	26

HG/T 20592-2009 RTJ FLANGE SIZE

HG/T 20592-2009 RTJ 法蘭尺寸



JPE 卡套 JPE TUBE END	A
04J	39
05J	40
06J	44
08J	46
12J	39
14J	40
15J	40
16J	40
18J	44
20J	43
22J	43
25J	46

壓力等級 PRESSURE GRADE	1/2"RTJ (DN15)							D
	P	K	O	C	E	W	N Number of bolts	
PN63	35	55	105	20	6.5	75	4	14
PN100	35	55	105	20	6.5	75	4	14
PN160	35	58	105	20	6.5	75	4	14

壓力等級 PRESSURE GRADE	3/4"RTJ (DN20)							D
	P	K	O	C	E	W	N Number of bolts	
PN63	45	68	130	22	6.5	90	4	18
PN100	45	68	130	22	6.5	90	4	18
PN160	45	70	130	24	6.5	90	4	18

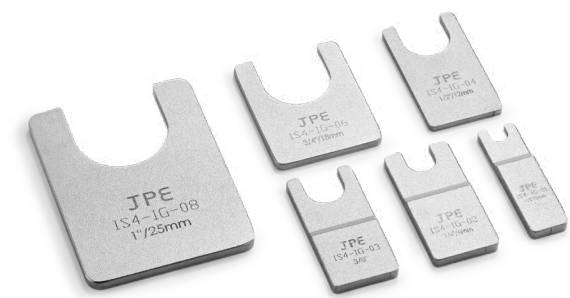
壓力等級 PRESSURE GRADE	1"RTJ (DN25)							D
	P	K	O	C	E	W	N Number of bolts	
PN63	50	78	140	24	6.5	100	4	18
PN100	50	78	140	24	6.5	100	4	18
PN160	50	80	140	24	6.5	100	4	18

壓力等級 PRESSURE GRADE	1-1/4"RTJ (DN32)							D
	P	K	O	C	E	W	N Number of bolts	
PN63	65	86	155	24	6.5	110	4	22
PN100	65	86	155	24	6.5	110	4	22
PN160	65	86	155	28	6.5	110	4	22

壓力等級 PRESSURE GRADE	1-1/2"RTJ (DN40)							D
	P	K	O	C	E	W	N Number of bolts	
PN63	75	102	170	26	6.5	125	4	22
PN100	75	102	170	26	6.5	125	4	22
PN160	75	102	170	28	6.5	125	4	22

壓力等級 PRESSURE GRADE	2"RTJ (DN50)							D
	P	K	O	C	E	W	N Number of bolts	
PN63	85	112	180	26	8	135	4	22
PN100	85	116	195	28	8	145	4	26
PN160	95	118	195	30	8	145	4	26

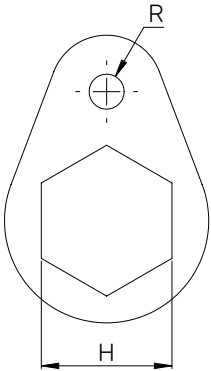
IG
卡套間隙規
GAP INSPECTION GAUGES



公制 (METRIC)	
卡套尺寸 OD SIZE	P R T NO.
3	IG-01
6	IG-02
8	IG-8
10	IG-10
12	IG-04
14	IG-05
15	IG-05
16	IG-05
18	IG-06
20	IG-20
22	IG-20
25	IG-08

英制 (FRACTIONAL)	
卡套尺寸 OD SIZE	PART NO.
1/8	IG-01
3/16	IG-015
1/4	IG-02
3/8	IG-03
1/2	IG-04
5/8	IG-05
3/4	IG-06
1	IG-08

BKR
隔板固定器
BULKHEAD RETAINERS



PART NO.	DIMENSIONS (mm)		
	H	R	厚度 W
BKR01	12	4.5	3
BKR02	17	4.5	3
BKR03	19	4.5	3
BKR04	24	6.5	3

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