

TOM JOINT FITTINGS



SANKO KOGYO CO., LTD.

<http://www.jsk-sanko.co.jp>



TOM JOINT FITTINGS

Components are ordered by product code as listed in this catalogue

DESIGNATIONS PART NUMBER SYSTEM

T	LG	8	S	19	BA
①	②	③	④	⑤	⑥

① Series	T	Tom Joint (Metal Seal)			
② Product	SG	Female Gland	UT	Reducing Union Tee	
	LG	Male Gland	UC	Union Cross	
	MG	Male Weld Gland	FN	Female Nut	
	TA	Tube Adapter	MN	Male Nut	
	MU	Double Male Union	PG	Plug	
	BU	Bulkhead Union	CP	Cap	
	TB	TBW Body	GR	Gasket w/ Retainer	
	TBC	TBW Bulkhead Connector	GT	Gasket	
	TFC	Tube Fitting Connector	BG	Blind Gasket	
	MCR	Male Connector (PT)	HMN	HVCR Male Nut	
	MCN	Male Connector (NPT)	HFN	HVCR Female Nut	
	MCS	Male Connector (ST)	HLG	HVCR Long Gland	
	FCR	Female Connector (PT)	WMCR	Welded Male Connector (PT)	
	FCN	Female Connector (NPT)	WMCN	Welded Male Connector (NPT)	
	UE	Union Elbow	WFCR	Welded Female Connector (PT)	
	MER	Male Elbow (PT)	WFCN	Welded Female Connector (NPT)	
	MEN	Male Elbow (NPT)	WLC	Welded Lok Connector	
UT	Union Tee	WFU	Welded Female Union		

③ Size	2	1/8" OD
	4	1/4" OD
	6	3/8" OD
	8	1/2" OD
	12	3/4" OD
	16	1" OD

④ Material	S	Single Melt (316L)
	V	Double Melt (VIM+VAR)

⑤ Gland Type	6	6.35mm (Micro Type)
	10	10mm (Short Type)
	19	19.05mm (Standard Type)

⑥ Finishing	BA	Ry < 3.0μm
	EP	Ry < 0.7μm



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TOM JOINT FITTING

- High-Purity Nickel and Hastelloy C-22 glands for extremely corrosive applications.
- Non-Rotational Female Nut to prevent transmission of torque during make-up and therefore minimize twist of component which causes stress concentration.

Materials

Glands, Bodies and Nuts		
Material	Ordering Number Designator	Applicable Specification
316L stainless steel Single Melt	S	bar stock : ASME SA479, ASTM A276 forgings : ASTM A182
316L (VIM+VAR) stainless steel Double Melt	V	bar stock : ASME SA479, ASTM A276 forgings : ASTM A182

Some Configurations

Gaskets		
Material	Ordering Number Designator	Applicable Specification
Nickel	NI	ASTM B162
316L stainless steel	US	ASTM A167
Silver plated 316L stainless steel	SS	ASTM A167

Specifications

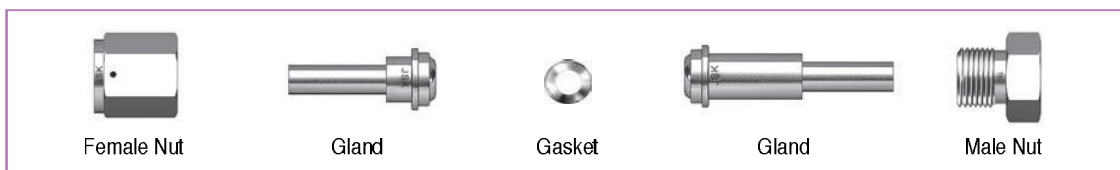
- **Pressure Ratings** are based upon tests conducted using VCR assemblies. All ratings comply with calculations per ANSI Code for Pressure Piping B31.3.
- **Working Pressures** are rated at ambient temperature and are based on a 4 to 1 design factor. To determine pressure ratings in accordance with ANSI B31.1, multiply "Working Pressures" by 0.94.
- **Temperature Ratings**
 - Fittings: Stainless Steel 316, 316L 1000°F(537°C)
 - Gaskets: High-Purity Nickel 600°F(315°C)
 - Stainless Steel: 1000°F(537°C)
- **Dimensions** are for reference only and are subjected to change.
- **Plating:** Female Nuts are silver plated. Avoid chemical processes used for cleaning,

electropolishing, and passivation that will remove plating. If the plating is damage or removed, thread galling may occur, damaging fitting components and preventing a proper seal.

- **Testing:** Products are rated to a Helium leak rate of 1×10^{-9} atm cc/sec.
- **Internal Surface Finishes:** Components are available with controlled surface finishes and electropolished internal surfaces.
- **Cleaning and Packaging:** Ultra-High Purity cleaning and packaging in a Class 100 Clean Room environment validated per Federal Standard 209E, is standard for all electropolished components.

Designator	Surface Finish(Ry)
	Maximum
EP	0.7 μ m
BA	3.0 μ m

Typical Face Seal Fittings



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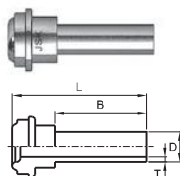
GLAND

□: BA or EP

Female Gland (TSG)

Head Size	Tube Size(OD)	Ordering Number	D	T	B	L	ANS (Inch)
1/8"	1/8"	TSG2S19□	3.18	0.70	19.05	27.40	1/8
1/4"	1/4"	TSG4S6□	6.35	1.00	6.35	15.24	1/4
1/4"	1/4"	TSG4S10□	6.35	1.00	10.00	18.89	1/4
1/4"	1/4"	TSG4S19□	6.35	1.00	19.05	27.94	1/4
1/2"	3/8"	TSG6S6□	9.53	1.00	6.35	15.75	1/2
1/2"	3/8"	TSG6S10□	9.53	1.00	10.00	19.40	1/2
1/2"	3/8"	TSG6S19□	9.53	1.00	19.05	28.45	1/2
1/2"	1/2"	TSG8S6□	12.70	1.24	6.35	15.75	1/2
1/2"	1/2"	TSG8S10□	12.70	1.24	10.00	19.40	1/2
1/2"	1/2"	TSG8S19□	12.70	1.24	19.05	28.45	1/2
3/4"	3/4"	TSG12S19□	19.05	1.65	19.05	34.50	3/4
1"	1"	TSG16S19□	25.40	1.65	19.05	38.60	1
1/4"	1/8"	TSG42S10□	3.18	0.70	10.00	18.89	1/4
1/2"	1/4"	TSG84S6□	6.35	1.00	6.35	15.75	1/2
1/2"	1/4"	TSG84S10□	6.35	1.00	10.00	19.40	1/2
1/2"	1/4"	TSG84S19□	6.35	1.00	19.05	28.45	1/2

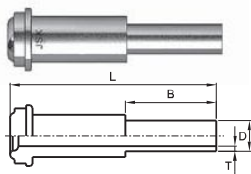
ANS: AVAILABLE NUT SIZE



Male Gland (TLG)

Head Size	Tube Size(OD)	Ordering Number	D	T	B	L	ANS (Inch)
1/8"	1/8"	TLG2S19□	3.18	0.70	19.05	36.00	1/8
1/4"	1/4"	TLG4S6□	6.35	1.00	6.35	30.48	1/4
1/4"	1/4"	TLG4S10□	6.35	1.00	10.00	34.13	1/4
1/4"	1/4"	TLG4S19□	6.35	1.00	19.05	43.18	1/4
1/2"	3/8"	TLG6S6□	9.53	1.00	6.35	32.77	1/2
1/2"	3/8"	TLG6S10□	9.53	1.00	10.00	36.42	1/2
1/2"	3/8"	TLG6S19□	9.53	1.00	19.05	45.47	1/2
1/2"	1/2"	TLG8S6□	12.70	1.24	6.35	32.77	1/2
1/2"	1/2"	TLG8S10□	12.70	1.24	10.00	36.42	1/2
1/2"	1/2"	TLG8S19□	12.70	1.24	19.05	45.47	1/2
3/4"	3/4"	TLG12S19□	19.05	1.65	19.05	51.56	3/4
1"	1"	TLG16S19□	25.40	1.65	19.05	58.93	1
1/4"	1/8"	TLG42S10□	3.18	0.70	10.00	34.13	1/4
1/2"	1/4"	TLG84S6□	6.35	1.00	6.35	32.77	1/2
1/2"	1/4"	TLG84S10□	6.35	1.00	10.00	36.42	1/2
1/2"	1/4"	TLG84S19□	6.35	1.00	19.05	45.47	1/2

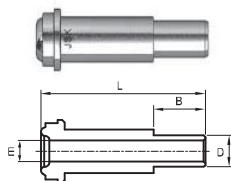
ANS: AVAILABLE NUT SIZE



Male Weld Gland (TMG)

Head Size	Tube Size(OD)	Ordering Number	D	E	B	L	ANS (Inch)
1/8"	1/8"	TMG2S□	3.18	1.5	7.1	17.8	1/8
1/4"	1/4"	TMG4S□	6.35	3.0	10.5	33.5	1/4
1/2"	3/8"	TMG6S□	9.53	7.1	10.5	38.0	1/2
1/2"	1/2"	TMG8S□	12.70	10.2	12.7	38.0	1/2

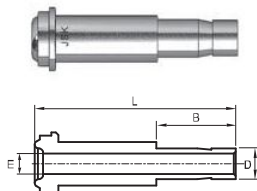
ANS: AVAILABLE NUT SIZE



Tube Adapter (TTA)

Head Size	Tube Size(OD)	Ordering Number	D	E	B	L	ANS (Inch)
1/4"	1/4"	TTA4S□	6.35	4.3	16	41	1/4
1/2"	3/8"	TTA6S□	9.53	6.8	18	46	1/2
1/2"	1/2"	TTA8S□	12.70	9.4	24	49	1/2

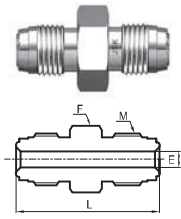
ANS: AVAILABLE NUT SIZE



• Dimensions are in millimeters unless specified as "inch"



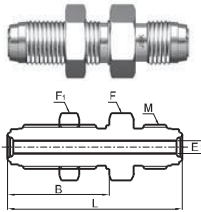
UNION



□: BA or EP

Double Male Union (TMU)

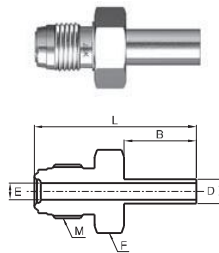
Head Size	Ordering Number	E	L	F Body Cube	M
1/8"	TMU2S□	2.30	28.70	9.52	5/16-24 UNF
1/4"	TMU4S□	4.35	39.37	15.88	9/16-18 UNF
1/2"	TMU8S□	10.22	46.74	23.81	7/8-14 UNF
3/4"	TMU12S□	15.75	61.98	33.34	1 1/4-18 UNEF
1"	TMU16S□	22.10	65.79	41.28	1 1/2-20 UN



Bulkhead Union (TBU)

Head Size	Ordering Number	E	B	L	F Body Cube	F1 Body Cube	M
1/4"	TBU4S□	4.35	33.00	56.60	19.05	15.88	9/16-18 UNF
1/2"	TBU8S□	10.22	37.60	65.25	26.90	23.81	7/8-14 UNF
3/4"	TBU12S□	15.75	43.40	79.00	38.10	33.34	1 1/4-18 UNEF
1"	TBU16S□	22.10	47.10	86.00	44.40	41.28	1 1/2-20 UN

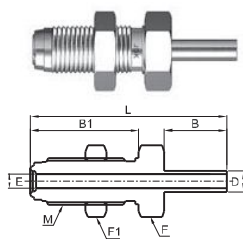
TBW



TBW Body (TTB)

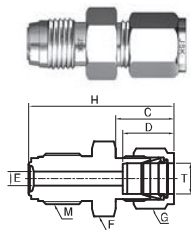
Head Size	Tube Size(OD)	Ordering Number	D	B	E	L	F Body Cube	M
1/4"	1/4"	TTB44S□	6.35	19.05	4.35	42.65	15.88	9/16-18 UNF
1/2"	3/8"	TTB86S□	9.53	19.05	10.22	46.70	23.81	7/8-14 UNF
1/2"	1/2"	TTB88S□	12.70	19.05	10.22	46.70	23.81	7/8-14 UNF
3/4"	3/4"	TTB1212S□	19.05	19.05	15.75	55.55	33.34	1 1/4-18 UNEF

CONNECTOR



TBW Bulkhead Connector (TTBC)

Head Size	Tube Size(OD)	Ordering Number	D	E	B	B1	L	F Body Cube	F1 Body Cube	M
1/4"	1/4"	TTBC44S□	6.35	4.35	19.05	33.00	59.85	19.05	15.88	9/16-18 UNF
1/2"	1/2"	TTBC88S□	12.70	10.22	19.05	37.60	65.25	26.90	23.81	7/8-14 UNF
3/4"	3/4"	TTBC1212S□	19.05	15.75	19.05	43.25	71.30	38.10	33.34	1 1/4-18 UNEF



Tube Fitting Connector (TTFC)

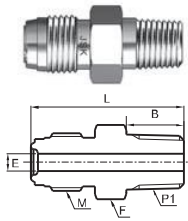
Head Size	Tube Size(OD)	Ordering Number	C	D	E	F Body Cube	G	H	T	M
1/4"	1/4"	TTFC44S□	17.80	15.20	4.35	15.90	14.29	41.1	1/4"	9/16-18 UNF
1/2"	3/8"	TTFC86S□	19.30	16.80	10.22	23.81	17.46	46.7	3/8"	7/8-14 UNF
1/2"	1/2"	TTFC88S□	21.80	22.90	10.22	23.81	22.23	49.5	1/2"	7/8-14 UNF

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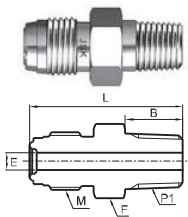
TOM
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Fittings



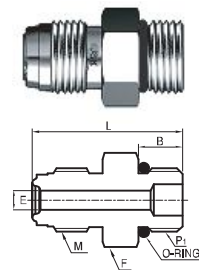
CONNECTOR



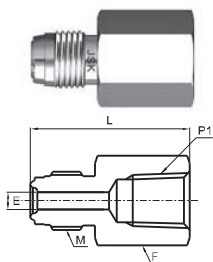
Male Connector (PT) (TMCR)							
Head Size	M-PT P1	Ordering Number	E	B	L	F Body Cube	M
1/8"	1/8"	TMCR22S□	2.30	9.60	27.20	11.11	5/16-24 UNF
1/4"	1/4"	TMCR44S□	4.35	14.22	37.84	15.90	9/16-18 UNF
1/2"	3/8"	TMCR86S□	10.22	14.22	41.87	23.80	7/8-14 UNF
1/2"	1/2"	TMCR88S□	10.22	19.05	46.74	23.80	7/8-14 UNF
3/4"	3/4"	TMCR1212S□	15.75	19.05	55.63	33.30	1 1/4-18 UNEF
1"	1"	TMCR1616S□	22.10	23.88	62.74	42.20	1 1/2-20 UN



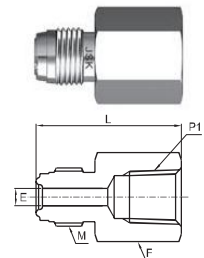
Male Connector (NPT) (TMCN)							
Head Size	M-NPT P1	Ordering Number	E	B	L	F Body Cube	M
1/8"	1/8"	TMCN22S□	2.30	9.60	27.20	11.11	5/16-24 UNF-2A
1/4"	1/4"	TMCN44S□	4.35	14.22	37.84	15.90	9/16-18 UNF
1/2"	3/8"	TMCN86S□	10.22	14.22	41.87	23.80	7/8-14 UNF
1/2"	1/2"	TMCN88S□	10.22	19.05	46.74	23.80	7/8-14 UNF
3/4"	3/4"	TMCN1212S□	15.75	19.05	55.63	33.30	1 1/4-18 UNEF
1"	1"	TMCN1616S□	22.10	23.88	62.74	42.20	1 1/2-20 UN



Male Connector (ST) (TMCS)								
Head Size	ST P1	Ordering Number	E	B	L	F Body Cube	M	UNIFORM O-Ring Size
1/4"	9/16-18 UNF	TMCS44S□	4.35	9.9	33.8	19.05	9/16-18 UNF	F-906
1/2"	7/8-14 UNF	TMCS88S□	10.22	12.7	42.2	25.40	7/8-14 UNF	F-910
3/4"	1 3/16-12 UNF	TMCS1212S□	15.75	15.0	51.5	34.90	1 1/4-18 UNEF	F-912



Female Connector (PT) (TFCR)						
Head Size	F-PT P1	Ordering Number	E	F	L	M
1/8"	1/8"	TFCR22S□	2.30	14.28	30.2	5/16-24 UNF
1/4"	1/4"	TFCR44S□	4.35	19.05	39.1	9/16-18 UNF
1/2"	3/8"	TFCR86S□	10.22	23.81	44.7	7/8-14 UNF
1/2"	1/2"	TFCR88S□	10.22	26.98	50.5	7/8-14 UNF
3/4"	3/4"	TFCR1212S□	15.75	33.33	59.9	1 1/4-18 UNEF
1"	1"	TFCR1616S□	22.10	41.27	63.8	1 1/2-20 UN



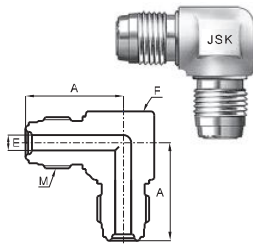
Female Connector (NPT) (TFCN)						
Head Size	F-NPT P1	Ordering Number	E	F	L	M
1/8"	1/8"	TFCN22S□	2.30	14.28	30.2	5/16-24 UNF
1/4"	1/4"	TFCN44S□	4.35	19.05	39.1	9/16-18 UNF
1/2"	3/8"	TFCN86S□	10.22	23.81	44.7	7/8-14 UNF
1/2"	1/2"	TFCN88S□	10.22	26.98	50.5	7/8-14 UNF
3/4"	3/4"	TFCN1212S□	15.75	33.33	59.9	1 1/4-18 UNEF
1"	1"	TFCN1616S□	22.10	41.27	63.8	1 1/2-20 UN

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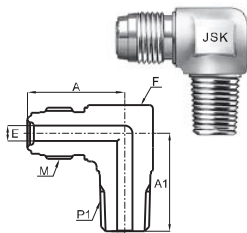
ELBOW

□: BA or EP



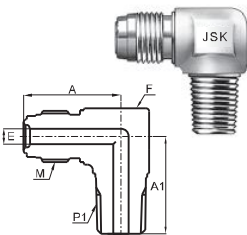
Union Elbow (TUE)

Head Size	Ordering Number	E	A	F Body Cube	M
1/4"	TUE4S□	4.35	27.18	15.9	9/16-18 UNF
1/2"	TUE8S□	10.22	36.83	23.8	7/8-14 UNF
3/4"	TUE12S□	15.75	48.77	33.3	1 1/4-18 UNEF
1"	TUE16S□	22.10	50.80	42.2	1 1/2-20 UN



Male Elbow (PT) (TMER)

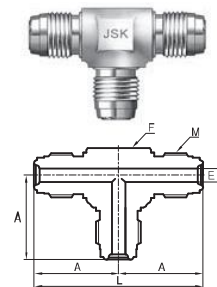
Head Size	M-PT P1	Ordering Number	E	A	A1	F Body Cube	M
1/4"	1/4"	TMER44S□	4.35	27.18	27.18	15.9	9/16-18 UNF
1/2"	3/8"	TMER86S□	10.22	36.83	32.00	23.8	7/8-14 UNF
1/2"	1/2"	TMER88S□	10.22	36.83	36.83	23.8	7/8-14 UNF
3/4"	3/4"	TMER1212S□	15.75	48.80	43.50	33.3	1 1/4-18 UNEF



Male Elbow (NPT) (TMEN)

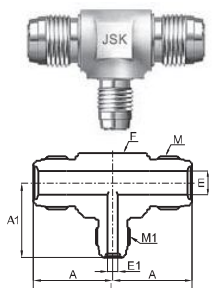
Head Size	M-NPT P1	Ordering Number	E	A	A1	F Body Cube	M
1/4"	1/4"	TMEN44S□	4.35	27.18	27.18	15.9	9/16-18 UNF
1/2"	3/8"	TMEN86S□	10.22	36.83	32.00	23.8	7/8-14 UNF
1/2"	1/2"	TMEN88S□	10.22	36.83	36.83	23.8	7/8-14 UNF
3/4"	3/4"	TMEN1212S□	15.75	48.80	43.50	33.3	1 1/4-18 UNEF

TEE



Union Tee (TUT)

Head Size	Ordering Number	E	A	L	F Body Cube	M
1/4"	TUT4S□	4.35	29.00	58.00	17	9/16-18 UNF
1/2"	TUT8S□	10.22	33.50	67.00	25	7/8-14 UNF
3/4"	TUT12S□	15.75	48.80	97.60	35	1 1/4-18 UNEF



Reducing Union Tee (TUT)

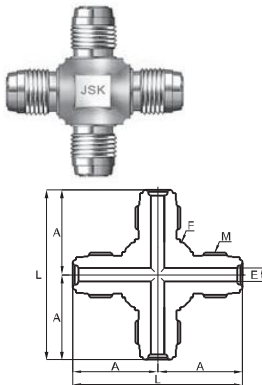
Head Size	Ordering Number	E	E ₁	A	A ₁	L	F Body Cube	M	M ₁
1/2" X 1/4"	TUT84S□	10.22	4.35	33.50	31.5	73.66	25	7/8-14 UNF	9/16-18 UNF
3/4" X 1/4"	TUT124S□	15.75	4.35	48.80	36.7	97.54	35	1 1/4-18 UNEF	9/16-18 UNF
3/4" X 1/2"	TUT128S□	15.75	10.22	48.80	38.5	97.54	35	1 1/4-18 UNEF	7/8-14 UNF

* Dimensions are in millimeters unless specified as "inch"

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CROSS

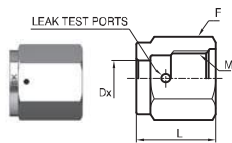


□: BA or EP

Union Cross (TUC)

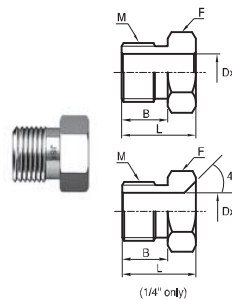
Head Size	Ordering Number	E	A	L	F Body Cube	M
1/4"	TUC4S□	4,35	27,18	54,36	15,9	9/16-18 UNF
1/2"	TUC8S□	10,22	36,83	73,66	23,8	7/8-14 UNF
3/4"	TUC12S□	15,75	48,77	97,54	33,3	1 1/4-18 UNEF
1"	TUC16S□	22,10	50,80	101,60	42,2	1 1/2-20 UN

NUT, PLUG & CAP



Female Nut (TFN)

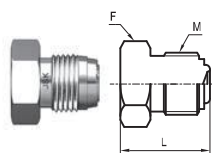
Head Size	Ordering Number	L	F Hex Flat	DX	M
1/8"	TFN2S	13,5	11,11	5,30	5/16-24 UNF
1/4"	TFN4S	20,5	19,05	9,10	9/16-18 UNF
1/2"	TFN8S	22,3	26,99	15,50	7/8-14 UNF
3/4"	TFN12S	28,4	38,10	22,60	1 1/4-18 UNEF
1"	TFN16S	34,0	44,45	30,50	1 1/2-20 UN



Male Nut (TMN)

Head Size	Ordering Number	L	B	F Hex Flat	DX	M
1/8"	TMN2S	12,7	8,2	9,52	5,30	5/16-24 UNF
1/4"	TMN4S	18,0	11,0	15,88	9,10	9/16-18 UNF
*1/4"	TMN4S.54	13,7	11,0	15,88	9,10	9/16-18 UNF
1/2"	TMN8S	20,5	12,7	23,81	15,50	7/8-14 UNF
3/4"	TMN12S	25,4	16,0	33,34	22,60	1 1/4-18 UNEF
1"	TMN16S	30,2	20,0	41,28	30,50	1 1/2-20 UN

*TMN4S.54: Short Male Nut 1/4 Only



Plug (TPG)

Head Size	Ordering Number	L	F Hex Flat	M
1/8"	TPG2S□	17,30	9,52	5/16-24 UNF
1/4"	TPG4S□	23,37	15,88	9/16-18 UNF
1/2"	TPG8S□	27,43	23,81	7/8-14 UNF
3/4"	TPG12S□	36,32	33,34	1 1/4-18 UNEF
1"	TPG16S□	38,61	41,28	1 1/2-20 UN



Cap (TCP)

Head Size	Ordering Number	L	B	F Hex Flat	M
1/8"	TCP2S□	16,00	7,60	11,11	5/16-24 UNF
1/4"	TCP4S□	24,20	11,18	19,05	9/16-18 UNF
1/2"	TCP8S□	25,65	11,43	26,99	7/8-14 UNF
3/4"	TCP12S□	32,77	13,72	38,10	1 1/4-18 UNEF
1"	TCP16S□	39,12	16,00	44,45	1 1/2-20 UN

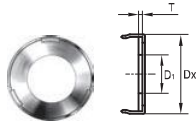
□: BA or EP

• Dimensions are in millimeters unless specified as "inch"

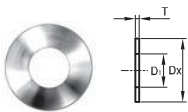


GASKET

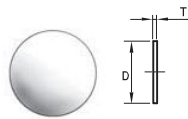
□=NI, US, SS
 NI : Nickel EP
 US : Original 316L EP
 SS : Silver plated 316L EP



Gasket w/ Retainer (TGR)				
Head Size	Ordering Number	T	D1	DX
1/4"	TGR4□	0.8	5.6	11.85
1/2"	TGR8□	0.8	11.2	19.27
3/4"	TGR12□	0.8	16.8	27.90
1"	TGR16□	0.8	22.6	34.20

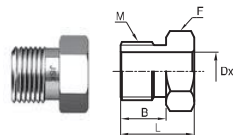


Gasket (TGT)				
Head Size	Ordering Number	T	D1	Dx
1/8"	TGT2□	0.8	2.3	6.6
1/4"	TGT4□	0.8	5.6	11.9
1/2"	TGT8□	0.8	11.2	19.8
3/4"	TGT12□	0.8	16.8	29.0
1"	TGT16□	0.8	22.6	35.8

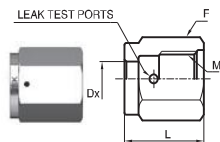


Blind Gasket (TBG)			
Head Size	Ordering Number	D	T
1/4"	TBG4□	11.9	0.8
1/2"	TBG8□	19.8	0.8
3/4"	TBG12□	28.9	0.8
1"	TBG16□	35.5	0.8

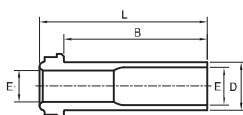
HI-FLOW



HVCR Male Nut (THMN)						
Head Size	Ordering Number	B	L	F Hex Flat	DX	M
1/4"	THMN4S	11.0	18.03	15.88	9.9	9/16-18 UNF



HVCR Female Nut (THFN)					
Head Size	Ordering Number	L	F Hex Flat	Dx	M
1/4"	THFN4S	20.57	19.05	9.90	9/16-18 UNF



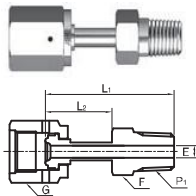
HVCR Long Gland (THLG)							
Head Size	Tube Size(OD)	Ordering Number	D	B	L	E	E1
1/4"	3/8"	THLG46S□	9.53	28.4	33.2	7.5	6.28

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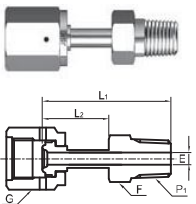
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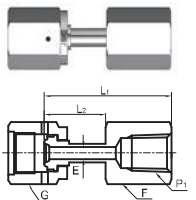
WELDED CONNECTOR

**Welded Male Connector (PT) (TWMCR)**

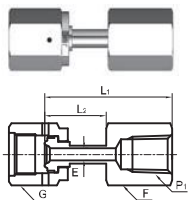
Head Size	M-PT P1	Ordering Number	E	F Hex Flat	G Hex Flat	L1	L2
1/4"	1/4"	TWMCR44S□	4.35	14.29	19.05	45.5	23.4
1/2"	3/8"	TWMCR86S□	10.22	17.46	26.99	48.0	25.4
1/2"	1/2"	TWMCR88S□	10.22	22.23	26.99	53.1	25.6

**Welded Male Connector (NPT) (TWMCN)**

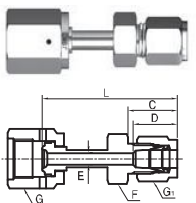
Head Size	M-NPT P1	Ordering Number	E	F Hex Flat	G Hex Flat	L1	L2
1/4"	1/4"	TWMCN44S□	4.35	14.29	19.05	45.5	23.4
1/2"	3/8"	TWMCN86S□	10.22	17.46	26.99	48.0	25.4
1/2"	1/2"	TWMCN88S□	10.22	22.23	26.99	53.1	25.6

**Welded Female Connector (PT) (TWFCR)**

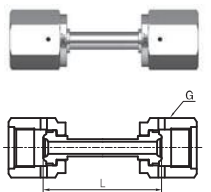
Head Size	F-PT P1	Ordering Number	E	F Hex Flat	G Hex Flat	L1	L2
1/4"	1/4"	TWFCR44S□	4.35	19.05	19.05	45.0	23.4
1/2"	3/8"	TWFCR86S□	10.22	22.23	26.99	49.5	26.9
1/2"	1/2"	TWFCR88S□	10.22	26.99	26.99	55.4	26.4

**Welded Female Connector (NPT) (TWFCN)**

Head Size	F-NPT P1	Ordering Number	E	F Hex Flat	G Hex Flat	L1	L2
1/4"	1/4"	TWFCN44S□	4.35	19.05	19.05	45.0	23.4
1/2"	3/8"	TWFCN86S□	10.22	22.23	26.99	49.5	26.9
1/2"	1/2"	TWFCN88S□	10.22	26.99	26.99	55.4	26.4

**Welded Lok Connector (TWLC)**

Head Size	Tube Size(OD)	Ordering Number	C	D	E	F Hex Flat	G Hex Flat	G1 Hex Flat	H
1/4"	1/4"	TWLC44S□	17.78	15.24	4.35	12.70	19	17	49.28
1/2"	3/8"	TWLC86S□	19.30	16.76	10.22	15.88	19	19	50.04
1/2"	1/2"	TWLC88S□	21.84	22.86	10.22	20.64	26	19	56.64

**Welded Female Union (TWFU)**

Head Size	Ordering Number	L	G
1/4"	TWFO4S□	43.4	19.05
1/2"	TWFO8S□	46.7	26.99

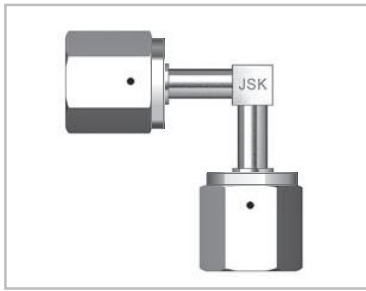
□: BA or EP

• Dimensions are in millimeters unless specified as "inch"

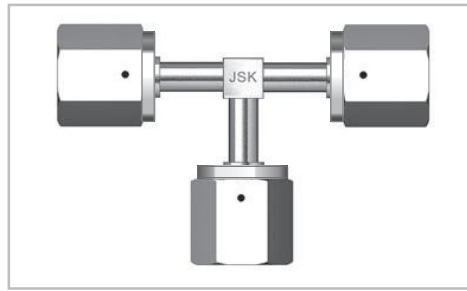


■ Female Elbow Union Welded Assembly

■ Female Tee Union Welded Assembly



Ordering Number / TFEU4S□

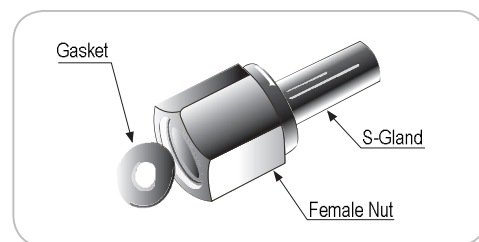


Ordering Number / TFTU4S□

■ Assembly

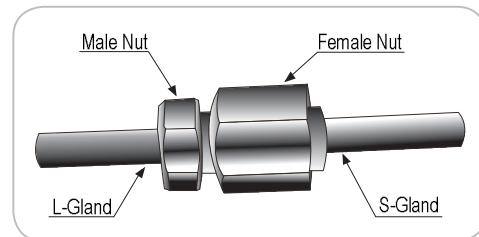
Step 1:

Place the gasket into the female nut, and make sure the gasket is settled in proper position.



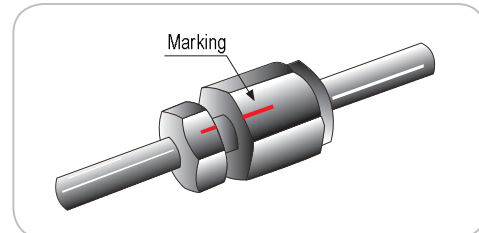
Step 2:

Assemble the components as shown in the picture. Screw tight the components as shown in the picture.



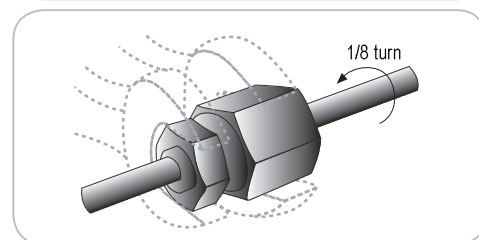
Step 3:

Make sure male nut and female nut are tightened, and scribe an aligned line of the hex face of male nut and female nut.



Step 4:

Final tightening requires assembly tools such as wrenches or spanners. Hold the male nut with the tool and screw the female nut 1/8 turn.

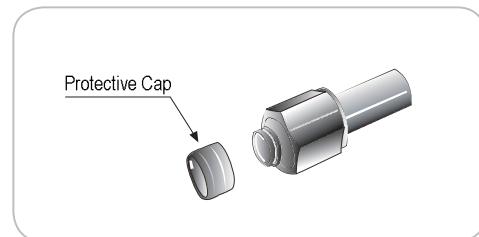


Caution:

over tightening the components will damage the triode surface and cause potential leakage.

Protective Cap:

Removing VCR components in an assembled unit needs minimal clearance. Loosen the female nut by holding the male nut or body hex with a backup wrench in order to remove a face seal connection. After removing the VCR components, remember to use protective caps or gasket retainers to protect the sealing beads.



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