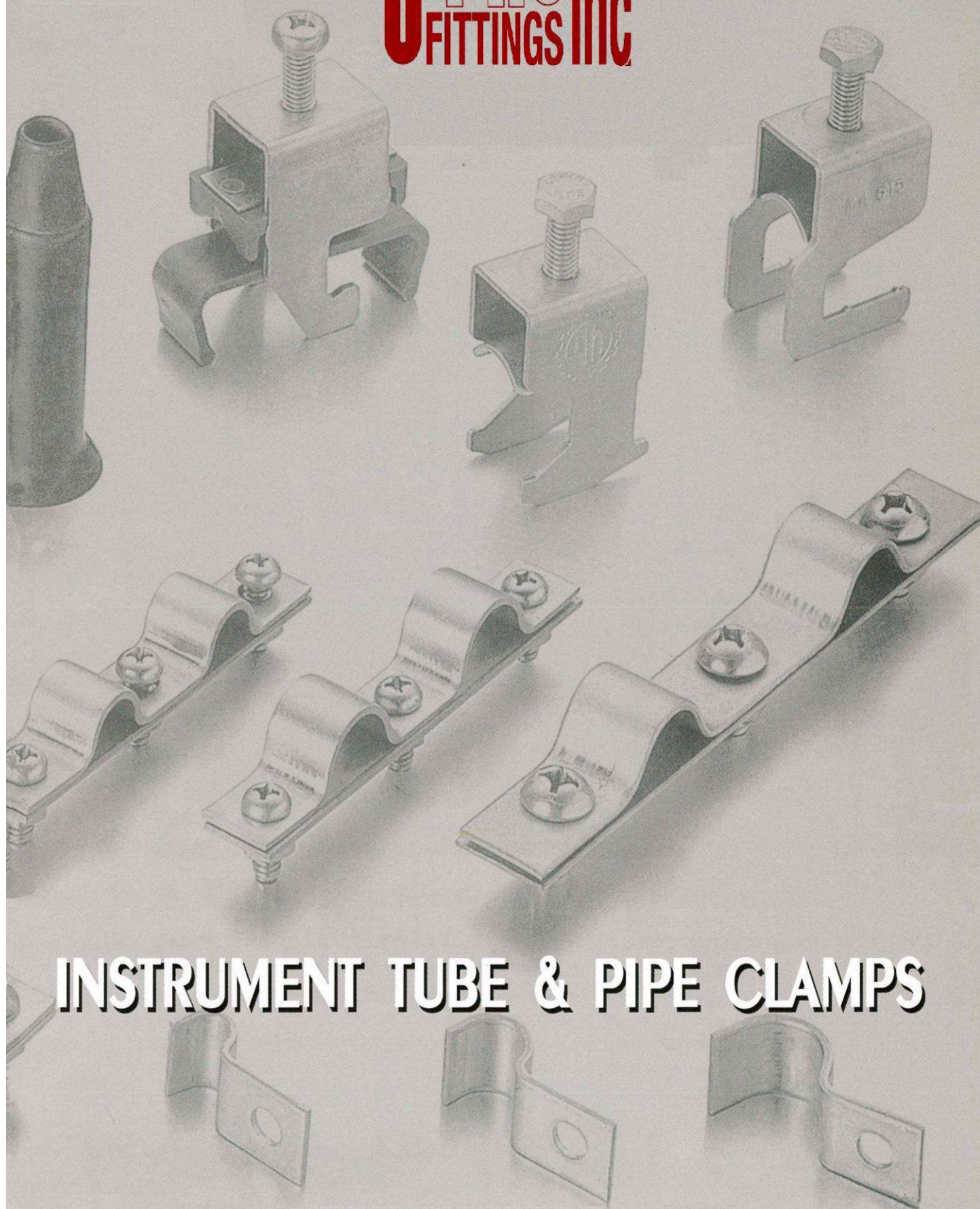


ISO 9001

U-PRO
FITTINGS Inc



INSTRUMENT TUBE & PIPE CLAMPS

優普洛科技股份有限公司



前言

優普洛科技股份有限公司，為一專業製造廠。專營儀表管配件（雙卡套式接頭）、快速接頭及各式閥門。如針閥、球塞閥、逆止閥、分歧閥、二向、三向、五向閥等。

本公司研製各項產品以來，憑著一股服務熱忱與力爭上游的決心，接受國內外研究機構技術指導和本公司研發部門不斷地努力，本公司產品通過國際認證更於1994年通過 ISO 9001國際品保認證。

各項產品製造過程中，嚴格品質管制並自制各式尖端科技測試機械，不斷精益求精，使得本公司所生產的儀表管配件在國內外公證機構證實耐高壓、耐強酸鹼。產品凌駕外貨。深獲各界好評！

目前採用本公司的產品有中國石油、台灣電力核能四廠、中國鋼鐵、台灣塑膠、中鼎工程、造船廠、各大石化工廠及下游廠商等。本公司願秉持以往創業精神，不但在技術方面更求精進，確保產品品質，並且將不斷開發新產品，加強服務。尚祈各界不吝指教。

負責人

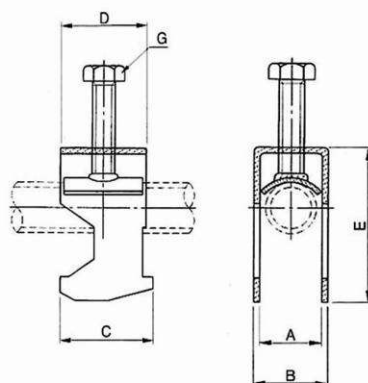
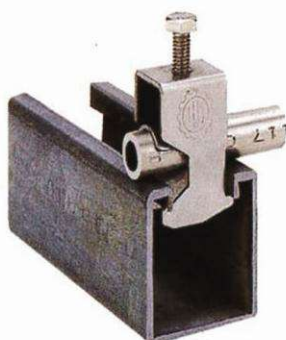
王欽堂

敬誌
2009年1月

INSTRUMENT TUBE & PIPE CLAMPS

CABLE & TUBE CLAMP FOR CHANNELS

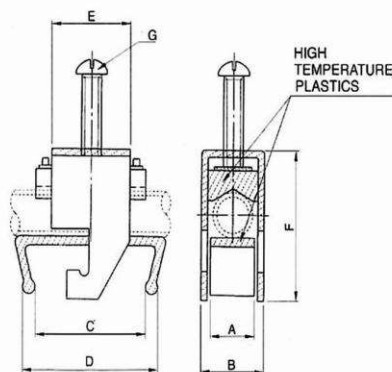
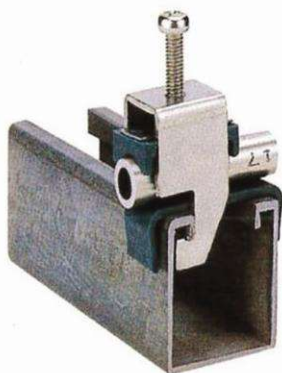
MODE: M615



TUBE SIZE	mm	inch
	6-15	1/4"-5/8"
A	15.5	
B	18.5	
C	30.5	
D	24	
E	38.5	
G	W-1/4X1"L	
MATERIAL	STAINLESS ☐ 304 ☐ 316	

CABLE & TUBE CLAMP FOR CHANNELS

MODE: MS

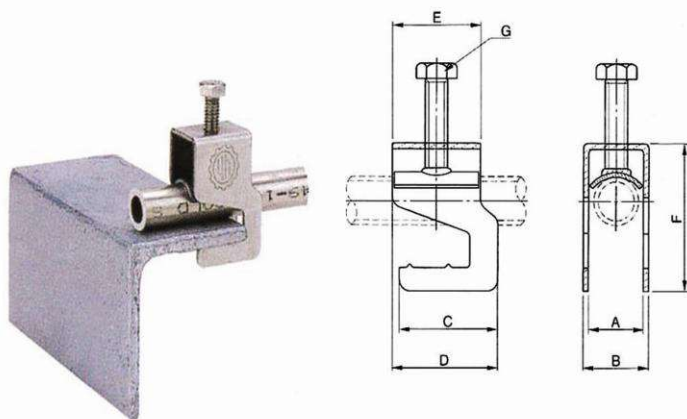


TUBE SIZE	Mode : MS615		Mode : MS1619		Mode : MS2022	
	mm	inch	mm	inch	mm	inch
	6-15	1/4"-5/8"	16-19	5/8"-3/4"	20-22	3/4"-7/8"
A	15		23		23	
B	19		27		27	
C	37		38		38	
D	42		45		45	
E	25.5		26		26	
F	42		49		59	
G	W-1/4"X1"L		W-5/16"X1"L		W-5/16"X1"L	
MATERIAL : STAINLESS						
☐ 304 ☐ 316						

INSTRUMENT TUBE & PIPE CLAMPS

CABLE & TUBE CLAMP FOR ANGLES

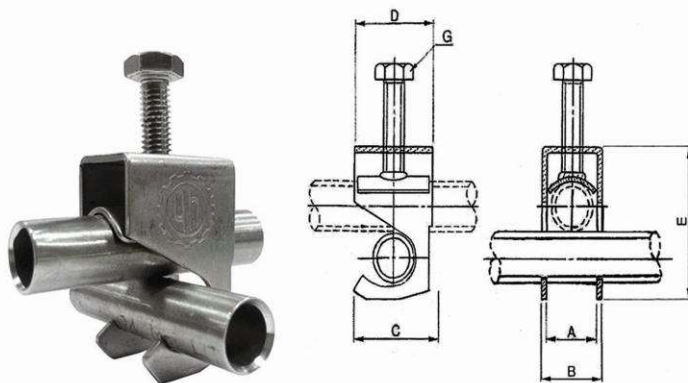
MODE: MA



TUBE SIZE	Mode : MA615		Mode : MA1522	
	mm	inch	mm	inch
	6-15	1/4"-5/8"	15-22	5/8"-7/8"
A	15.5		22.5	
B	18.5		26.5	
C	28		33	
D	30		33	
E	25		25	
F	38.5		43	
G	W-1/4X1"L		W-1/4X1"L	
MATERIAL	STAINLESS ☐ 304 ☐ 316			

CABLE & TUBE CLAMP FOR TUBE CROSS

MODE: MX615



TUBE SIZE	mm	inch
	6-15	1/4"-5/8"
A	15.5	
B	18.5	
C	20.5	
D	24	
E	38.5	
G	W-1/4X1"L	
MATERIAL	STAINLESS ☐ 304 ☐ 316	

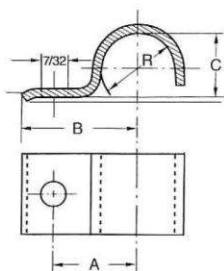
INSTRUMENT TUBE CLAMPS

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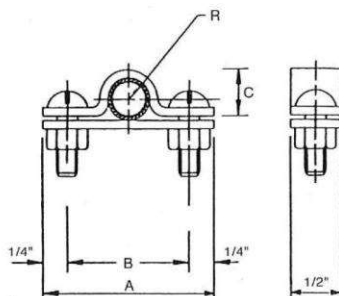
Industrial Company

TUBE CLAMP (SADDLES) TYPE

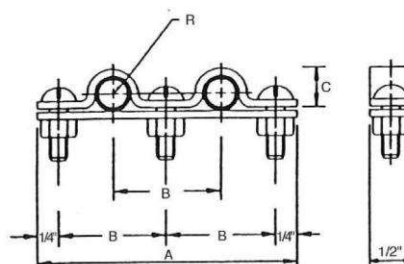
MODE:SAD-H



MODE:SAD-S



MODE:SAD-D



METRIC

MODEL NO.	TUBE SIZE	A	B	C	R	T	MATERIAL	備 註				
SAD-H-3	3 O.D	12	19	2.7	1.5	1.6	STAINLESS ☐ 304 ☐ 316					
SAD-H-4	4 O.D	12	20	4	2							
SAD-H-6	6 O.D	14	22	5	3							
SAD-H-8	8 O.D	15	23	6	4							
SAD-H-10	10 O.D	17	24	9	5							
SAD-H-12	12 O.D	17	25	11	6							
SAD-S-6	6 O.D	41	27	5	3	1.6			STAINLESS ☐ 304 ☐ 316			
SAD-S-8	8 O.D	43	28	6	4							
SAD-S-10	10 O.D	48	33	9	5							
SAD-S-12	12 O.D	48	33	11	6							
SAD-D-6	6 O.D	68	27	5	3	1.6					STAINLESS ☐ 304 ☐ 316	
SAD-D-8	8 O.D	73	30	6	4							
SAD-D-10	10 O.D	82	34	9	5							
SAD-D-12	12 O.D	80	35	11	6							
SAD-D-12-1	12 O.D	102	55	11	6							

FRANCTIONAL

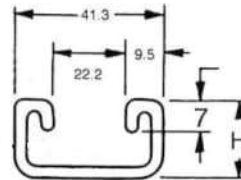
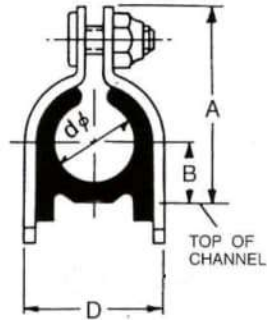
MODEL NO.	TUBE SIZE	A	B	C	R	T	MATERIAL	備 註				
SAD-H-20	1/8 O.D	12	19	2.7	1.5	1.6	STAINLESS ☐ 304 ☐ 316					
SAD-H-30	3/16 O.D	13	20	4.5	2							
SAD-H-40	1/4 O.D	14	22	5	3.5							
SAD-H-60	3/8 O.D	16	23	8	5							
SAD-H-80	1/2 O.D	17	25	11	6.5							
SAD-S-40	1/4 O.D	41	28	5	3.5	1.6						
SAD-S-60	3/8 O.D	43	28	8	5							
SAD-S-80	1/2 O.D	48	33	11	6.5							
SAD-D-40	1/4 O.D	68	27	5	3.5	1.6						
SAD-D-60	3/8 O.D	74	29	8	5							
SAD-D-80	1/2 O.D	80	35	11	6.5							
SAD-D-80-1	1/2 O.D	102	55	11	6.5							

INSTRUMENT TUBE & PIPE CLAMPS

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防震管夾 VIBRATION PROOFING TYPE



d"=Pipe Dia

UNIT=mm

PIPE SIZE			d"	A	B	D	H	MATERIAL
CC	8A-P	1/4"	13.8	35.8	19.1	23	25	STEEL & STAINLESS 304
CC	10A-P	3/8"	17.3	40.3	11.4	27.4		
CC	15A-P	1/2"	21.7	18.5	18.2	36.6		
CC	20A-P	3/4"	27.2	54.8	23.1	45.8		
CC	25A-P	1"	34	69.8	26.1	54.6		
CC	32A-P	1-1/4"	42.7	77	29.4	62		
CC	40A-P	1-1/2"	48.6	83.3	35.8	69		
CC	50A-P	2"	60.5	96	42.1	82		
CC	65A-P	2-1/2"	76.3	108.4	50	94		
CC	80A-P	3"	89.1	124.4	64.2	110		
CC	100A-P	4"	114.3	152.4	77	138.9		
CC	125A-P	5"	139.8	178.5	89.7	164.3		
CC	150A-P	6"	165.2	203.9	1.9	189.7		

d"=Tube Dia

TUBE SIZE		d"	A	B	D	H	MATERIAL
m/m	MCC - 6	6	28	5.5	15.4	25	STEEL & STAINLESS 304
	MCC - 8	8	31	7	18.7		
	MCC - 10	10	31	7	18.7		
	MCC - 12	12	34	8.5	21.7		
	MCC - 15	15	38	10	25		
	MCC - 18	18	40	11.4	27.4		
	MCC - 20	20	48	15	36.6		
	MCC - 22	22	48.5	14.9	36.6		
	MCC - 25	25	51.5	16.5	42.7		
inch	MCC - 40	1/4	28	5.5	15.4	25	
	MCC - 60	3/8	31	7	18.7		
	MCC - 80	1/2	34	8.5	21.7		
	MCC -120	3/4	40	11.5	36.6		
	MCC -160	1	51.5	16.5	42.7		

INSTRUMENT TUBE & PIPE CLAMPS

U-PRO
FITTINGS INC

Industrial Company

U型槽鐵夾

DDH Series

Specifications

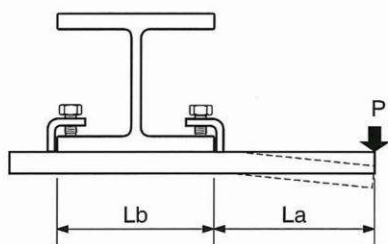
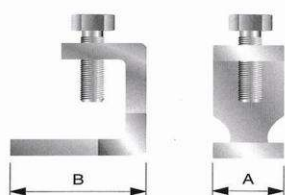
Standard Material;

Body, Bolt and Nut: Steel

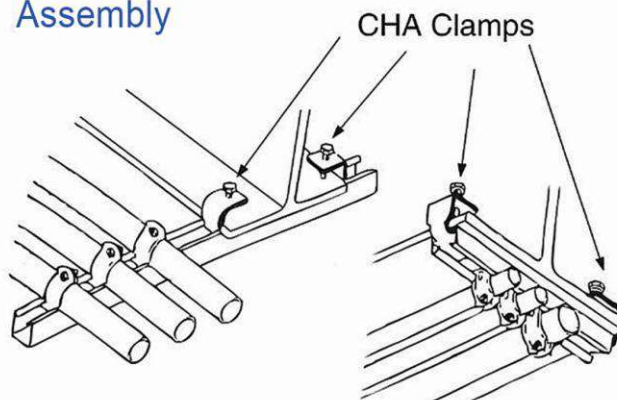
Standard Finishes:

Body: Hot Dip Galvanized

Bolt and Nut: Zinc Electroplated



Assembly



Cat. #	Dimensions(mm)		Bolt in.
	A	B	
CHA-32	32	51	3/8 x 1 - 1/2L
CHA-38	38	40	
CHA-40	40	40	

*All Dimensions are subject to change without notice.

SHA Series

Specifications

Standard Material;

Body: Steel

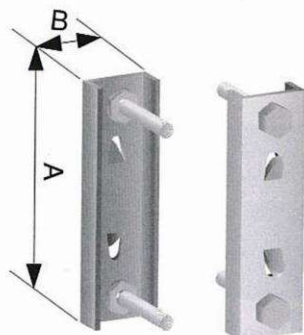
Bolt Screw: Stainless Steel

Standard Finishes:

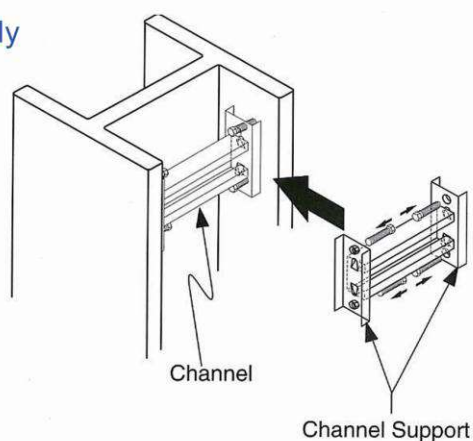
Body: Hot Dip Galvanized

Bolt Screw: Natural Finishes

Include two bodies and four Bolt Screws



Assembly



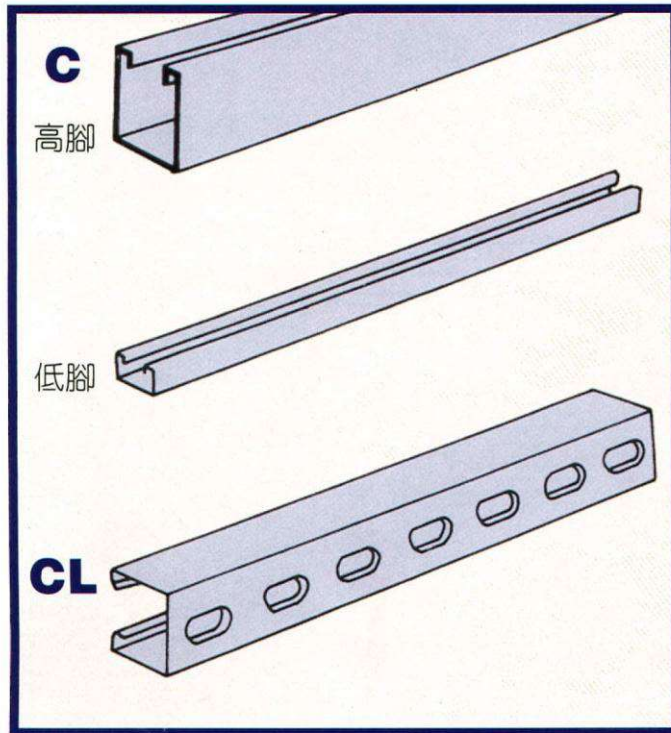
Cat. #	Dimensions(mm)		Bolt Size
	A	B	
DDH-10	85.0	30.0	5/16"-18

*All Dimensions are subject to change without notice.

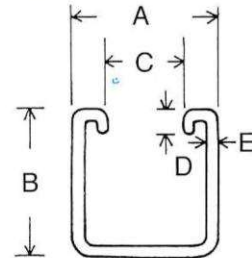
INSTRUMENT CHANNELS

U-PRO
FITTINGS Inc

Industrial Company



尺寸



材料

★進口鍍鋅鋼板裝成

特性

- ★免焊、免鑽，易施工。
- ★多種款式，可供選擇。
- ★鍍鋅板含鋅量高，不易腐蝕生銹。
- ★表面可再加電著塗裝處理，防銹處理，防銹更佳。

	編 型 TYPE	厚 度 E	高 B	寬 A	長	C	D	備註 RAMARKS
高 腳	C2600	2.6m/m	41m/m	41m/m	3M	22m/m	7m/m	
	C2000	2.0m/m	41m/m	41m/m	3M	22m/m	7m/m	
低 腳	C2000L	2.0m/m	25m/m	41m/m	3M	22m/m	7m/m	
	C1600L	1.6m/m	25m/m	41m/m	3M	22m/m	7m/m	
不 銹 鋼	C2000S	2.0m/m	41m/m	41m/m	3M	22m/m	7m/m	
	C1500S	1.5m/m	41m/m	41m/m	3M	22m/m	7m/m	
	C2000LS	2.0m/m	25m/m	41m/m	3M	22m/m	7m/m	
	C1500LS	1.5m/m	25m/m	41m/m	3M	22m/m	7m/m	

INSTRUMENT CHANNELS



Industrial Company

HT 型鋼容許荷重參考表

橫支撐間距	24"							
編 型	C2600	C2000	C2000L	C1600L	C2000S	C1500S	C2000LS	C1500LS
撓 度	0.05	0.03	0.05	0.05	0.03	0.03	0.05	0.05
簡支樑允許均佈荷量 (磅)	1110	660	140	100	710	520	150	110
允許均佈荷量最大撓度間距1/240	—	—	—	—	—	—	—	—

橫支撐間距	30"							
編 型	C2600	C2000	C2000L	C1600L	C2000S	C1500S	C2000LS	C1500LS
撓 度	0.05	0.05	0.08	0.08	0.05	0.06	0.09	0.08
簡支樑允許均佈荷量 (磅)	890	530	110	80	560	420	120	80
允許均佈荷量最大撓度間距1/240	—	—	—	—	—	—	—	—

橫支撐間距	36"							
編 型	C2600	C2000	C2000L	C1600L	C2000S	C1500S	C2000LS	C1500LS
撓 度	0.07	0.08	0.11	0.10	0.08	0.08	0.13	0.12
簡支樑允許均佈荷量 (磅)	740	440	90	60	470	350	100	70
允許均佈荷量最大撓度間距1/240	—	—	—	—	—	—	—	—

橫支撐間距	48"							
編 型	C2600	C2000	C2000L	C1600L	C2000S	C1500S	C2000LS	C1500LS
撓 度	0.13	0.14	0.22	0.21	0.15	0.15	0.22	0.21
簡支樑允許均佈荷量 (磅)	550	330	70	50	350	260	70	50
允許均佈荷量最大撓度間距1/240	—	—	60	40	—	—	60	40

橫支撐間距	60"							
編 型	C2600	C2000	C2000L	C1600L	C2000S	C1500S	C2000LS	C1500LS
撓 度	0.21	0.22	0.30	0.33	0.23	0.24	0.36	0.33
簡支樑允許均佈荷量 (磅)	440	260	50	40	280	210	60	40
允許均佈荷量最大撓度間距1/240	—	—	40	25	—	—	40	25

橫支撐間距	72"							
編 型	C2600	C2000	C2000L	C1600L	C2000S	C1500S	C2000LS	C1500LS
撓 度	0.31	0.32	0.42	0.43	0.33	0.33	0.53	0.43
簡支樑允許均佈荷量 (磅)	370	220	40	30	230	170	50	30
允許均佈荷量最大撓度間距1/240	350	200	25	20	200	150	25	20

★ 材料容許應力：鋅板(SPCC):16500PSI • 不銹鋼板(SUS304):17500PSI

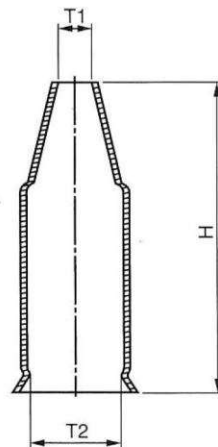
INSTRUMENT TUBE 配件

U-PRO
FITTINGS Inc

Industrial Company

NP 橡膠保護套管

FOR :
TUBE & FITTING USE
BRASS FITTING
STAINLESS FITTING
CARBON-STEEL FITTING



MM

UNIT=mm

MODEL NO.	TUBE SIZE		T1	T2	H	MATERIAL
	T1	T2				
NP- 6-40	6	1/4	7.5	13	67	VITON
NP- 6-60	6	3/8	7.5	17	67	
NP- 6-80	6	1/2	7.5	21	69	
NP- 8-60	8	3/8	9.5	17	69	
NP- 8-80	8	1/2	9.5	21	69	
NP-10-80	10	1/2	11	21	70	
NP-12-80	12	1/2	12	21	70	

INCH

UNIT=mm

MODEL NO.	TUBE SIZE		T1	T2	H	MATERIAL
	T1	T2				
NP-40-40	1/4	1/4	8	13	67	VITON
NP-40-60	1/4	3/8	8	17	67	
NP-40-80	1/4	1/2	8	21	69	
NP-60-60	3/8	3/8	11	17	70	
NP-60-80	3/8	1/2	11	21	70	
NP-80-80	1/2	1/2	12	21	70	

INSTRUMENT TUBE

U-PRO
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Industrial Company

棘輪扳手 Wrenches Tools



SIZE	Applicable HEX Range
RW-14	14 HEX
RW-17	17 HEX
RW-19	19 HEX
RW-22	22 HEX

For : Stainless & Brass Fitting

手動彎管器 Hand Tube Bender



SIZE	Order No.
6MM	HTB - 6M
8MM	HTB - 8M
10MM	HTB - 10M
12MM	HTB - 12M
1/4"	HTB - 40
3/8"	HTB - 60
1/2"	HTB - 80

For : Stainless & Brass Tube

切管器 Tube Cutters



TCU-S3-160



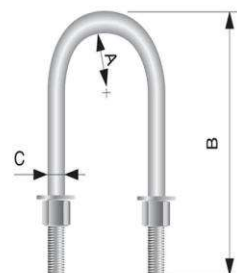
TCU-S3-10

SIZE	Applicable Tube Outer Diameter
TCU-S3-10	1/16" ~ 2mm
TCU-S3-160	1/8" ~ 1"

For : Stainless & Brass Tube

U型管夾 IUB

Specifications



Use with Tube and Pipe

Standard Material:

U-Bolt : Stainless Steel

(SUS304 / SUS316)

Nut : Stainless Steel

(SUS304 / SUS316)

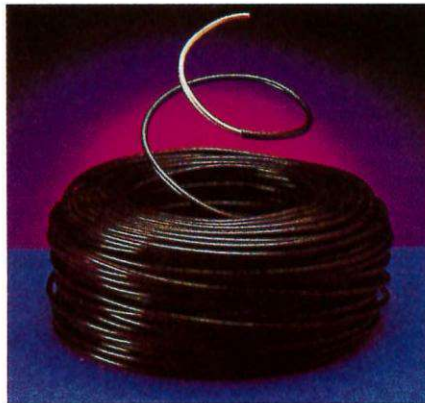
SIZE	Dimensions(mm)		Bolt (in.)
	A	B	C
IUB-S3-80	14	33	1/4 - 20
IUB-S3-16M	18	41	

INSTRUMENT TUBE

U-PRO
FITTINGS Inc

Industrial Company

P.V.C. 被覆銅管 P.V.C. COPPER TUBE



UNIT=mm

MM						
MODEL NO.		PCT-B1-5	PCT-B1-6	PCT-B1-8	PCT-B1-10	PCT-B1-12
TUBE SIZE	外徑O.D	4.76	6	8	10	12
	內徑I.D	3.4	4	6	8	10
PVC COTTING THK		1	1	1	1	1
INCH						
MODEL NO.		PCT-B1-40	PCT-B1-60		PCT-B1-80	
TUBE SIZE	外徑O.D	6.35	9.52		12.7	
	內徑I.D	4.8	7.52		10.7	
PVC COTTING THK		1	1		1	
材 質 MATERIAL		符合CNS 5127, JIS H3300, C 1220, ASTM B88 TYPE K 適用於醫療高壓瓦斯，薰汽配管用。 TYPE L 適用於一般建築、冷熱給水、空調冷溫水配管。				
備 註		上列以外之規格可依所需要之規格訂製				

INSTRUMENT TUBE

U-PRO
FITTINGS Inc

Industrial Company

銅管 COPPER TUBE / 紫銅管 COPPER A.C.R. TUBE

盤管(Coil)：分為四大類別

(一) 50呎 (二) 100呎 (三) 100米 (四) 大捲L.W.C.每捲約100公斤~120公斤)

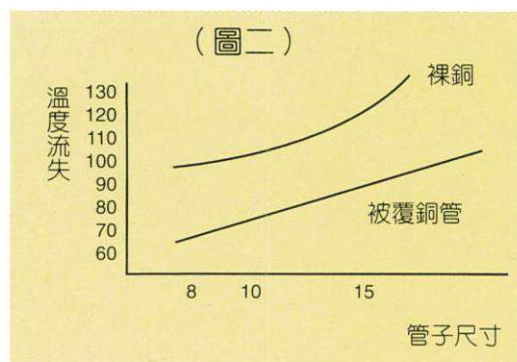
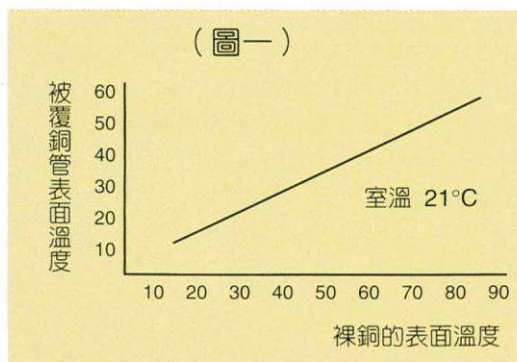


直管：外徑、厚度、長度、材質、可依所需之尺寸訂製



• 被覆銅管表面溫度比裸銅較低

• 使用被覆銅管可以有效保溫



INSTRUMENT TUBE



Industrial Company

COPPER TUBING

Based on ultimate tensile strength 30,000 psi(206,700 kPa). For metal temperatures -20° to 100°F (-29° to 37°C). Allowable working pressure loads calculated from S values (6000 psi-41, 300 kPa) as specified by ANSI B31.3 code.

Tube O.D. (In.)	Tube Wall Thickness (Inches)							
	.028	.035	.049	.065	.083	.095	.109	.120
1/8	2700	3600						
3/16	1800	2300	3400					
1/4	1300	1600	2500	3500				
5/16		1300	1900	2700				
3/8		1000	1600	2200				
1/2		800	1100	1600	2100			
5/8			900	1200	1600	1900		
3/4			700	1000	1300	1500	1800	
7/8			600	800	1100	1300	1500	
1			500	700	900	1100	1300	1500

Working Pressure (psig)

Note:

For gas service, use tubing where working pressure is listed outside of the shaded area.

Note:

1. No allowance is made for corrosion or erosion.
2. Calculations based on minimum wall and maximum O.D. allowable under ASTM B-75 specification.

Suggested ordering information:

High quality soft annealed seamless copper tubing ASTM B-75 or equivalent. Also soft annealed (Temper 0) copper water tube type K or type L to ASTM B-88. It should be noted that minimum wall thicknesses as shown in screened area should be observed.

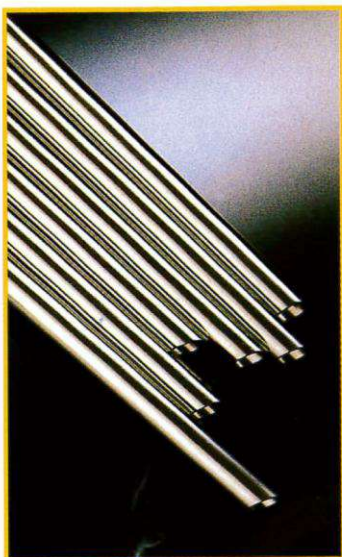
INSTRUMENT TUBE

U-PRO
FITTINGS Inc

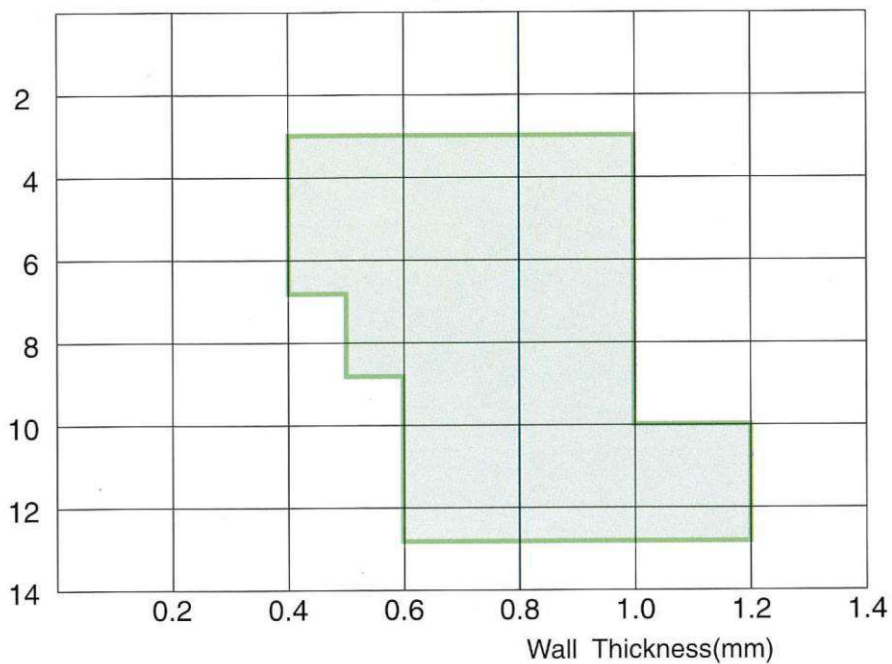
Industrial Company

無縫不銹鋼構造管 SMLESS STAINLESS TUBEING

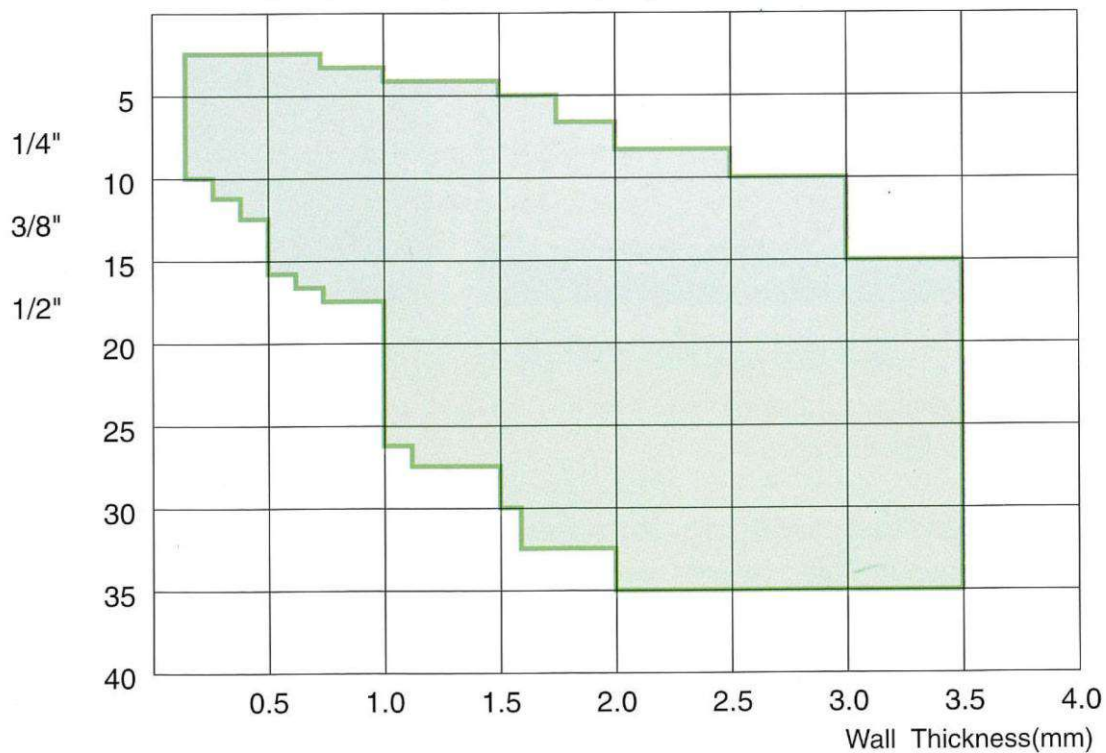
MANUFACTURING CAPABILITY



COILS Outside Diameter(mm)



S-C PIPES Outside Diameter(mm)



INSTRUMENT TUBE



Industrial Company

1. Outside Diameter & Wall Thickness:

We normally manufacture our products in the dimensions shown in the above figures; however, products (dimensions) other than above are also available upon request.

2. Length of product:

The standard lengths of our products are shown on the tables below. The pipe length may be limited depending on the outside diameter, the thickness and finish. Please inquire for details.

(1) Straight Pipes

(2) Coils

Outside Diameter(mm)	Length L(m)
~3	1~4
3~6	1~6
6~10	1~6
10~15	1~12
15~20	1~15
20~	1~12

Outside Diameter(mm)	A-C Length L(m)	S-C Length L(m)
~3	300~1,000	200~500
3~6	200~300	100~250
6~12.7	100~200	40~100

3. Finish:

We have three kinds of finishes as described below. Please contact us if you have any request and/or confirmation on the finish of the surface roughness and/or polish.

(1) Annealing in air and pickling finish

(2) Bright annealing finish

(3) Hardened surface finish

STAINLESS STEEL TUBING

Annealed 304 or 316 stainless steel tubing ASTM A269 or equivalent. Based on ultimate tensile strength 75,000 psi (5167 bar). For metal temperature from -20° to 100°F (-29° to 37°C). Allowable working pressure loads calculated from S values of 20,000 psi (1378 bar) as specified.

by ANSI B313 code

Tube OD (In.)	Tube Wall Thickness (Inches)																	
	.010	.012	.014	.016	.020	.028	.035	.049	.065	.083	.095	.109	.120	.134	.156	.188		
1/16	5600	6800	8100	9400	12000	For Seamless Tubing												
1/8						8500	10900											
3/16						5400	7000	10200										
1/4						4000	5100	7500	10200								Working Pressure (psig) Note: For has service, use tubing where working pressure is listed outside of the shaded area.	
5/16							4000	5800	8000									
3/8							3300	4800	6500									
1/2							2600	3700	5100	6700								
5/8								2900	4000	5200	6000							
3/4									2400	3300	4200	4900	5800					
7/8										2000	2800	3600	4200	4800				
1											2400	3100	3600	4200	4700			
1-1/4												2400	2800	3300	3600	4100	4900	
1-1/2													2300	2700	3000	3400	4000	4900
2														2000	2200	2500	2900	3600

For Seamless Tubing

Working Pressure (psig)

Note: For has service, use tubing where working pressure is listed outside of the shaded area.

• For higher pressures and heavier wall thickness tubing, see High Pressure Fittings subsection of Master Product Binder.

Note: 1. No allowance is made for corrosion or erosion.

2. Calculation based on minimum wall and maximum O.D. allowable under ASTM A269 specification.

3. For welded and drawn tubing, a derating factor must be applied for weld integrity:

a. for double welded tubing multiply pressure rating by .85.

b. for single welded tubing multiply pressure rating by .80.

Suggested ordering information:

Fully annealed high quality (Type 304, 316, etc) (seamless or welded and drawn) stainless steel hydraulic tubing ASTM A269 or A213, or equivalent. Hardness Rb 80 or less. Tubing is to be free of scratches and suitable for bending and flaring.

INSTRUMENT TUBE

U-PRO FITTINGS Inc

Industrial Company

CHARACTERISTICS OF MAIN PRODUCTS

1. Quality Assurance

We assure the excellent quality of our products manufactured, tested and inspected according to the customer's request in compliance with either:

American Standards(ASM, etc.), or Japanese Industrial Standards(JIS), or German Industry Standards(DIN), etc.

2. Accurate Dimensions and Reliable Finishing Accuracy

We supply, based on our own manufacturing technology products of accurate dimensions and surface finish as requested by the customer.

3. Remarkable Technology

We utilize the special technology which we have accumulated through the development and manufacturing of super high-precision tubes over the years.

4. Reliability of Mother Materials

All seamless blank tubes used are manufactured by the UGINE-SEJOURNET Hot Extrusion Process at Sumitomo Metal Industries, Ltd. Any type of Steel is available by request

5. Prompt Delivery

We deliver the products on time as requested by customers under thorough process control

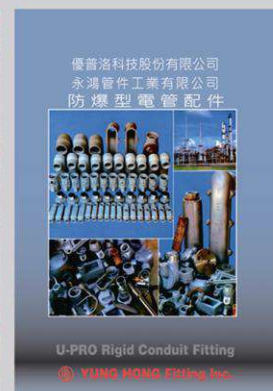
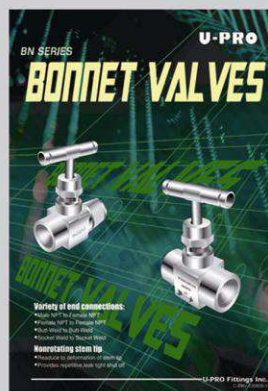
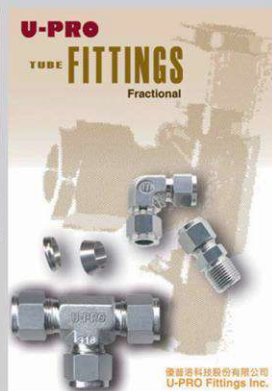
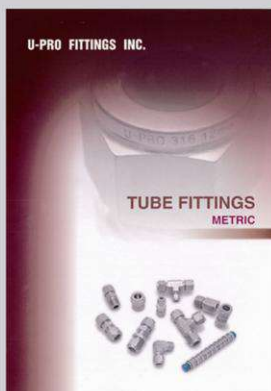
Type of Steel	Chemical Composition(%)										Characteristics									
ASTM JIS A269 G3459	C	Si	Mn	P	S	Ni	Cr	Mo	Others	Grade	Characteristics	Mechanical Properties			Specific Thermal Expansion	Specific Electric Resistance	Specific Heat	Anti-Oxidation		
TP304 SUS304	≤ 0.08	≤ 0.75	≤ 2.00	≤ 0.040	≤ 0.030	8.00	18.00	—	—	18-8	• 18Cr-8Ni standard type of steel • General use corrosion & heat resistant materials • Good weldability & workableness	Tensile Strength (N/mm ²)	Yield Strength (N/mm ²)	Elongation (%)	Specific Gravity	0-100°C X 10 ⁻⁵	Room Temp (10 ⁻³ Ωm)	0-100°C kJ/(kg·°C)	Critical Temperature Continuous Use(°C)	
TP304L SUS304L	≤ 0.035	≤ 0.75	≤ 2.00	≤ 0.040	≤ 0.030	8.00	18.00	—	—	Low-carbon 18-8	• Low carbon type, good intergranular corrosion resistance	≥ 515	≥ 205	≥ 35	7.93	17.3	72	0.5	900	
TP321 SUS321	≤ 0.08	≤ 0.75	≤ 2.00	≤ 0.040	≤ 0.030	9.00	17.00	—	—	18-8 Ti	• Preventing Cr carbon precipitation when heated by adding Ti and Cu, good intergranular corrosion resistance	≥ 515	≥ 205	≥ 35	7.93	16.7	72	0.5	900	
TP347 SUS347	≤ 0.08	≤ 0.75	≤ 2.00	≤ 0.040	≤ 0.030	9.00	17.00	—	Ti5 x C%min	18-8 Cb	• Preventing Cr carbon precipitation when heated by adding Ti and Cu, good intergranular corrosion resistance	≥ 515	≥ 205	≥ 35	7.98	16.7	73	0.5	900	
TP316 SUS316	≤ 0.08	≤ 0.75	≤ 2.00	≤ 0.040	≤ 0.030	11.00	16.00	2.00	Nb10 x C%min	18-8 Mo	• Non-oxidation acid and pitting corrosion resistance by adding Mo • High creep strength at high temperature • Good weldability & workableness	≥ 515	≥ 205	≥ 35	7.98	16.0	74	0.5	900	
TP316L SUS316L	≤ 0.035	≤ 0.75	≤ 2.00	≤ 0.040	≤ 0.030	10.00	16.00	2.00	—	Low-Carbon 18-8 Mo	• Low carbon type, good intergranular corrosion resistance	≥ 485	≥ 170	≥ 35	7.98	16.0	74	0.5	900	
TP310 SUS310	≤ 0.15	≤ 1.50	≤ 2.00	≤ 0.040	≤ 0.030	19.00	24.00	—	—	20Ni-25Cr	• 25Cr-20Ni • Highest grade corrosion and heat resistant material	≥ 515	≥ 205	≥ 35	7.98	15.8	78	0.5	1100	

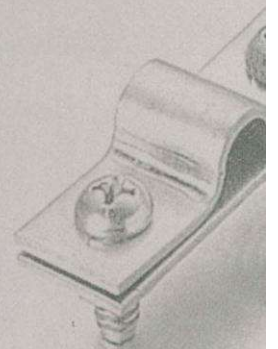
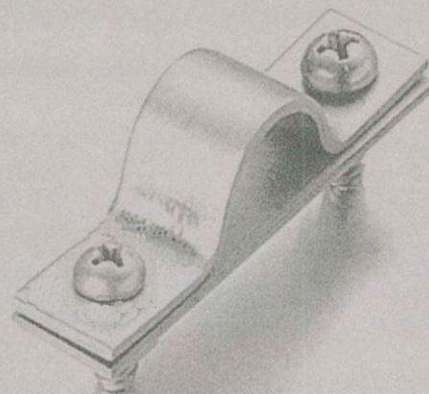
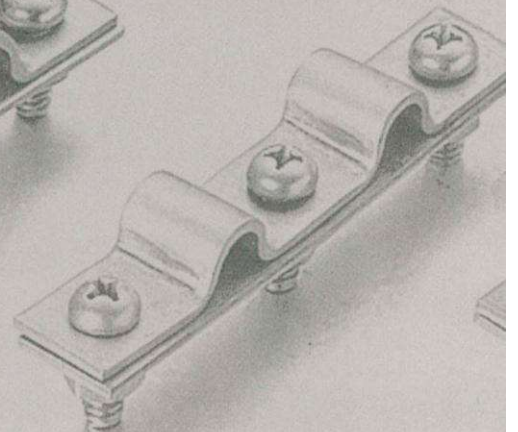
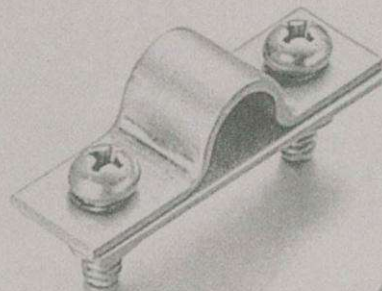
Professional



Service

Quality





U-PRO



SINCE 1961