



# PVC-U 塑膠管 · 接頭

## PVC-U PIPES AND FITTINGS

》本型錄僅供送審使用



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1. 質輕,搬運裝卸便利:

PVC-U管材質輕,搬運、裝卸,施工便利,可節省人工。

2. 耐化學藥品性優良:

PVC-U管具有優異的耐酸、耐鹼、耐腐蝕性,對於化學工業之用途甚為適合。

3. 流體阻力小:

PVC-U管之壁面光滑,對流體之阻力小,其粗糙係數僅0.009較其他管材為低,在相同之流量下,管徑可予以縮小。

4. 機械強度大:

PVC-U管之耐水壓強度,耐外壓強度,耐衝擊強度等均甚良好,適用於各種條件之配管工程。

5. 電氣絕緣性佳:

PVC-U管富有優越的電氣絕緣性,適用於電線、電纜之導管,與建築上之電線配管。

6. 不影響水質:

PVC-U管富有溶解試驗證實不影響水質,為目前自來水配管之最佳管材。

7. 施工簡易:

PVC-U管之接合施工迅速容易,故施工工程費用低廉。

1. Light Weight, easy to load and unload:

PVC-U pipe is very light, convenient to handle loading unloading, and installing. May save much labor.

2. Good chemicals and drugs resistance:

PVC-U pipe has its excellent resistance to the erosion caused by acids and alkalines, a great help to the chemical industries.

3. Small resistance to fluidity:

The smooth surface of PVC-U pipe reduces resistance to the fluids. Its roughness coefficient is only 0.009, much less than other pipes. Under same discharge, smaller calibre of the pipe can be used.

4. Strong mechanical strength:

Good resistance to water pressure, outside impact and pressure, is satisfied under any conditions.

5. Good electrical insulation:

PVC-U pipe has excellent insulation nature against electricity. It can be served as conduits and pipes in construction cable and wire.

6. Water quality unaffected:

The solution tests on the PVC-U pipe show no affect on water quality when the water flows through it. It is considered the best piping material for running water works.

7. Simple installation:

Very easy to connect, thus much time and labor cost may be saved.

PVC-U管·接頭適用場所

Applicable places for PVC-U Pipe and Fitting

1. 自來水工程 Drinking water engineering
2. 電氣工程 Electrical engineering
3. 建築工程 Construction engineering
4. 下水道工程 Sewer engineering
5. 電信工程 Telephone engineering
6. 鑿井工程 Well drilling engineering
7. 鹽水工程 Salt water engineering
8. 天然氣工程 Gas supply engineering
9. 化學工程 Chemical factory
10. 製紙工程 Paper mill
11. 釀造醱酵工程 Acidifying & Fermenting plant
12. 電鍍工程 Electroplating factory
13. 農業園地 Agricultural Ground
14. 礦場 Mining Plant
15. 養殖業 Aquaculture
16. 高速公路工程 Free way engineering
17. 高爾夫球場工程 Golf course engineering
18. 漁業用塑膠筏 Fishery use for Plastic raft



▲自來水工程 Drinking water engineering

### (一) 物理性質 Physical Properties

#### 1. 一般用PVC-U管 PVC-U Pipe for General Purpose

試驗項目 Test Items	試驗值 Test Value	試驗標準 Test standard	
抗拉降伏強度試驗 Tensile Strength Test	23°C時為45MPa以上 23°C, above 45MPa	CNS 1298 K3004	
直管耐水壓性	無漏水，破裂及變形現象 Non-broken		
接合部耐水壓性 <sup>(a)</sup>	無洩漏現象		
耐壓扁性 Flattening Test	無破裂或龜裂現象 Non-broken		
比重 Density	1.40~1.44		
衛氏軟化溫度 Vicat Softening Temperature	76°C以上 above 76°C		
浸漬性 Immersion Test	蒸餾水 Distilled Water		±0.2mg/cm <sup>2</sup> 以內 between ±0.2mg/cm <sup>2</sup>
	10% 氯化鈉溶液 10% Sodium Chloride Solution		
	30% 硫酸溶液 30% Sulfuric Acid Solution		
	40% 氫氧化鈉溶液 40% Sodium Hydroxide Solution		
	40% 硝酸溶液 40% Nitric Acid Solution		

註：(a)接合部耐水壓性適用於活套頭承口(VP)及接著型承口(VP及VU)之管，此等管應以接合部耐水壓試驗替代該管耐水壓試驗。

#### PVC-U管水壓試驗(CNS 1298 K3004) Hydraulic internal pressure test of PVC-U Pipe

種類 Categories	VP(B)管(厚管) Type VP(B)(Thick Wall)	VU(A)管(薄管) Type VU(A)(Thin Wall)
標稱管徑(mm) Nominal Pipe Size	13~600	40~700
試驗壓力(kgf/cm <sup>2</sup> ) Test Pressure	25.5	15.3
20°C使用壓力(Kgf/cm <sup>2</sup> ) Allowable working pressure at 20°C	7.65	2.55

#### 活套接頭水壓試驗

#### Hydraulic internal pressure test of ring-seal type joint

單位Unit: m/m

用途別 Application	標稱管徑 Nominal Pipe Size	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
自來水用W管(kgf/cm <sup>2</sup> )		35.7														
一般用VP(B)厚管(kgf/cm <sup>2</sup> )		25.5														

#### 2. 自來水用PVC-U管 PVC-U Pipe for Drinking Water

試驗項目 Test Item	試驗值 Test Value	試驗標準 Test standard	
抗拉降伏強度試驗 Tensile Strength Test	23°C時為45MPa以上 23°C, above 45MPa	CNS 4053-1 K3033-1	
直管耐水壓性	無破裂或龜裂現象 Non-broken		
接合部耐水壓性 <sup>(a)</sup>	無洩漏現象		
耐壓扁性 Flattening Test	無破裂或龜裂現象 Non-broken		
比重 Density	1.40~1.44		
衛氏軟化溫度 Vicat Softening Temperature Test	76°C以上 above 76°C		
不透明性	可見光透光率為0.2%以下		
管材VCM含量 Material's VCM Content	1.0ppm以下 below 1.0ppm		
溶出性 Extraction Test	濁度 <sup>(b)</sup> Turbidity		0.2NTU以下 below 0.2NTU
	色度 Colourness		0.5度以下 below 0.5degree
	總有機碳(TOC)	1.0ppm以下 below 1.0ppm	
	鉛及其化合物 Pb Extraction	0.005ppm以下 below 0.005ppm	
	鋅及其化合物 Zn Extraction	0.5ppm以下 below 0.5ppm	
	餘氯減量 Loss of Residual Chlorine	0.7ppm以下 below 0.7ppm	
	臭氣及異味 Odor and Taste	無不良氣味 Not Detectable	
	VCM溶出量 VCM Extraction	0.0015ppm以下 below 0.0015ppm	

註：(a)接合部耐水壓性適用於活套頭承口及接著型承口之管，此等管應以接合部耐水壓試驗替代該管耐水壓試驗。  
(b)依濁度計法，單位為NTU。

#### 自來水用PVC-U管水壓試驗 (CNS 4053-1 K3033-1)

#### Hydraulic internal pressure test of PVC-U Pipe for Drinking Water

標稱管徑(mm) Nominal Pipe Size	13	16	20	25	30	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
試驗壓力(kgf/cm <sup>2</sup> ) Test Pressure	40.8																			
20°C使用壓力(Kgf/cm <sup>2</sup> ) Allowable working pressure at 20°C	7.65以下																			

註：接合部(包括活套管及接著型管) 35.7kgf/cm<sup>2</sup>

NOTE: Hydraulic internal pressure test of ring-seal joint : 35.7kgf/cm<sup>2</sup>

### 3. 耐衝擊PVC-U管 High-Impact PVC-U Pipe

試驗項目 Test Items	試驗值 Test Value	試驗標準 Test Standard	
抗拉降伏強度試驗 Tensile Strength Test	在23°C時為40 MPa以上 Above 40 MPa on 23°C	CNS 14345 K3114	
直管耐水壓性	無漏水，破裂及變形現象 Non-broken		
接合部耐水壓性 <sup>(a)</sup>	無洩漏現象		
耐壓扁性 Flattening Test	無破裂或龜裂現象 Non-broken		
耐衝擊性 Impact Test	以沙丕(Charpy)衝擊試驗在0°C時 0°C: above 10kJ/m <sup>2</sup> by Charpy		
耐落錘衝擊性 Impact Test	無異常現象 Normal		
耐候性 Weather Resistance	23°C 14kJ/m <sup>2</sup> 以上 23°C above 14kJ/m <sup>2</sup>		
衛氏(Vicat)軟化溫度 Vicat Softening Temperature Test	76°C以上 above 76°C		
管材VCM含量 Material's VCM Content	1.0ppm以下 below 1.0ppm		
溶出性 Extraction Test	濁度 <sup>(b)</sup> Turbidity		0.2 NTU以下 below 0.2 NTU
	色度 Colourness		0.5度以下 below 0.5 degree
	總有機碳(TOC)		1.0ppm以下 below 1.0ppm
	鉛及其化合物 Pb		0.005ppm以下 below 0.005ppm
	鋅及其化合物 Zn		0.5ppm以下 below 0.5ppm
	餘氯減量 Loss of Residual Chlorine	0.7ppm以下 below 0.7ppm	
浸漬性 Immersion Test	臭氣及異味 Odor and Taste	無不良氣味 Not Detectable	
	氯乙烯單體 VCM	0.0015ppm以下 below 0.0015ppm	
	蒸餾水	±0.2mg/cm <sup>2</sup> 以內	
	10% 氯化鈉溶液		
	30% 硫酸溶液		
40% 氫氧化鈉溶液			
40% 硝酸溶液			
比重(23°C)	1.35~1.40		

註：(a)接合部耐水壓性適用於活套頭承口及接著型承口之管，此等管應以接合部耐水壓試驗替代該管耐水壓試驗。  
(b)依濁度計法，單位為NTU。

#### 耐衝擊PVC-U管水壓試驗

#### Hydraulic Internal Pressure Test of High-Impact PVC-U Pipe

標稱管徑(mm) Nominal Pipe Size	13	16	20	25	30	40	50	65	80	100	125	150	200	250	300	350	400
試驗壓力(MPa) Test Pressure	自來水用管 Drinking Water	4.0															
	一般用管 General Use	2.5															
20°C使用壓力 (MPa) Allowable Working pressure	自來水用管 Drinking Water	0.75以下															
	一般用管 General Use	0.75以下															

註：1. 接合部(包括活套管及接著型管)之試驗水壓為：自來水用3.5MPa 一般用 2.5MPa  
2. 壓力換算：1MPa = 10.2 kgf/cm<sup>2</sup>

### 4. PVC-U電線導管 PVC-U Pipe for Electric Conduct use

試驗項目 Test Items	試驗值 Test Value	試驗標準 Test standard
耐壓扁性 Flattening Test	載重1250 <sup>50N</sup> 時，外徑的減少率在25%以下，除去載重後減少率應在10%以下，且試樣以目視檢查不得有裂紋或破裂現象 When the load is 1250 <sup>50N</sup> , the reduction rate of the outside diameter is 25% or less, remove the load reduction rate should be below 10% and visual inspection of the sample should not have cracks.	CNS 1302 K3006
耐衝擊性 Impact Test	12個試樣試驗後，9個以上之試樣無破壞，以目視檢查無裂紋或破裂現象，而且不能有妨礙正常使用之變形 After test 12 specimens, more than 9 specimens shall be examined for visual inspection without cracks, and shall not be deformed to prevent normal use.	
絕緣性 Insulation Test	試驗中不得有跳脫動作 There shall be no tripping action in the test.	
絕緣電阻 Insulation Resistance	100 MΩ以上 Above 100MΩ	
耐燃性 Flammability	3個試樣應全部符合。移開火源後，火燄須在30秒內自然熄滅 All 3 specimens shall meets requirements. Remove the fire source, the flame must be naturally extinguished within 30 seconds.	
耐熱性 Heat Resistance	塞規僅以本身質量通過管內 The plug is only passed through the pipe with its own mass.	

### 5. 管筏用PVC-U管 PVC-U Pipe for Raft

試驗項目 Test Items	試驗值 Test Value	試驗標準 Test standard	
抗拉強度試驗 Tensile Strength Test	500kgf/cm <sup>2</sup> 以上 above 500kgf/cm <sup>2</sup>	CNS 12698 K3094	
壓扁試驗 Flattening Test	不破裂 Non-broken		
比重 Specific Gravity	1.42±0.03		
灰分試驗 Ash Content Test	4%以下 below 4%		
落錘衝擊試驗 Ball Impact Test	不破裂 Non-broken		
沙丕耐衝擊強度 Charpy Impact Strength	5.0kgf-cm/cm <sup>2</sup> 以上 above 5.0kgf-cm/cm <sup>2</sup>		
耐藥品性 Chemical Resistance	10% 氯化鈉溶液 10% Sodium Chloride Solution		±0.2mg/cm <sup>2</sup>
	40% 氫氧化鈉溶液 40% Sodium Hydroxide Solution		
耐候性 Weather Resistance	柴油 Diesel fuels		80% 以上 above 80%
	沙丕耐衝擊變化率 Charpy Impact Change Ratio		

## 2 PVC-U管 · 接頭之物理性質 Physical Properties of PVC-U Pipe and Fitting

### 6. PVC-U接頭配件 (給水用) PVC-U Fitting (Water supply)

試驗項目 Test Items		試驗值 Test Value			試驗標準 Test standard
抗拉強度試驗 Tensile Strength Test		480kgf/cm <sup>2</sup> 以上 above 480kgf/cm <sup>2</sup>			CNS 2334 K3011
水壓試驗(kgf/cm <sup>2</sup> ) Hydraulic internal pressure Test	標稱管徑(mm) Nominal Pipe Size	13-100	125	150以上 above 150	
		35	30	25	
灰分試驗 Ash Content Test		4%以下 below 4%			
材料VCM含量 Material's VCM Content		1.0ppm以下 below 1.0ppm (CNS標準無此項目)			
溶出性 extraction Test	濁度 turbidity	0.5度以內 below 0.5 degree			
	色度 Colourness	1.0度以內 below 1.0 degree			
	過錳酸鉀消耗量 KMnO <sub>4</sub> Consumption	本公司品質2ppm以內 below 2ppm (CNS標準: 10ppm以內)			
	鉛溶出量 Pb Extraction	本公司品質0.008ppm以下 below 0.008ppm (CNS標準: 0.1ppm以下)			
	餘氯之減量 Loss of residual Chlorine	0.7ppm以下 below 0.7ppm			
	臭味 Odor and Taste	無不良氣味 Not Detectable			
VCM溶出量 VCM Extraction		0.0015ppm以下 below 0.0015 ppm (CNS標準無此項目)			

### 7. PVC-U耐衝擊接頭配件 (給水用) High Impact PVC-U Fitting (Water supply)

試驗項目 Test Items		試驗值 Test Value		試驗標準 Test standard
抗拉強度 Tensile Strength Test		在15°C時為49MPa [500kgf/cm <sup>2</sup> ]以上 Above 49MPa [500kgf/cm <sup>2</sup> ] on 15°C		CNS 15010 K3126
耐水壓 Hydraulic internal pressure		3.5MPa [35.7kgf/cm <sup>2</sup> ]		
沙丕耐衝擊 Charpy Impact Test	耐候前 Before Weathering	10kJ/m <sup>2</sup> 以上(0°C) 0°C: above 10kJ/m <sup>2</sup>		
	耐候後 After Weathering	14kJ/m <sup>2</sup> 以上(23°C) 23°C: above 14kJ/m <sup>2</sup>		
耐落錘衝擊 Impact test		無異常現象 Normal		
衛氏(Vicat)軟化溫度 Vicat Softening temperature		72°C以上 Above 72°C		
接頭材料VCM含量 Material's VCM content		1.0 mg/L以下 Below 1.0 mg/L		
溶出性 Extraction Test	濁度 Turbidity	0.2度以下 Below 0.2 degree		
	色度 Colourness	0.5度以下 Below 0.5 degree		
	過錳酸鉀消耗量 KMnO <sub>4</sub> Consumption	1.5 mg/L以下 Below 1.5mg/L		
	鉛 Pb	0.005mg/L以下 Below 0.005mg/L		
	鋅 Zn	0.1 mg/L以下 Below 0.1mg/L		
	餘氯之減量 Loss of Residual Solution	0.7 mg/L以下 Below 0.7 mg/L		
	臭氣及異味 Odor and Taste	無不良氣味 Not Detectable		
氯乙烯單體(VCM) VCM		0.0015 mg/L以下 Below 0.0015 mg/L		
浸漬性 Immersion Test	蒸餾水 Distilled Water			
	10%氯化鈉溶液 10% Sodium Chloride Solution	±0.20mg/cm <sup>2</sup> 以內		
	30%硫酸 30% Sulfuric Acid Solution	Between ± 0.2mg/cm <sup>2</sup>		
	40%氫氧化鈉溶液 40% Sodium Hydroxide Solution			
	40%硝酸 40% Nitric Acid Solution			

## 3 PVC-U管規格 Specification of PVC-U Pipe

### (一)一般用管 PVC-U pipe for general purpose (CNS 1298)

#### \* VU (A管) 一般薄管 TYPE VU (A) Thin Wall

單位 Unit : m/m

標稱管徑 Nominal Pipe Size	外徑 及許可差 Outside Diameter and Tolerance	厚度 Wall Thickness		近似內徑 (參考) Approx. Inside Diameter	質量 (參考) Approx. Weight (kg/M)	20°C 使用壓力 Allow working Pressure at 20°C(kgf/cm <sup>2</sup> )	長度 Length (M)
		最小 Minimum	許可差 Tolerance				
40	1 1/2"	48 ± 0.2	1.8	+ 0.4	44	0.413	4M
50	2"	60 ± 0.2	1.8	+ 0.4	56	0.521	4M
65	2 1/2"	76 ± 0.3	2.2	+ 0.6	71	0.825	4M
80	3"	89 ± 0.3	2.7	+ 0.6	83	1.159	4M
90	3 1/2"	100 ± 0.4	3.1	+ 0.6	94	1.476	4M
100	4"	114 ± 0.4	3.1	+ 0.8	107	1.737	4M
125	5"	140 ± 0.5	4.1	+ 0.8	131	2.739	5M
150	6"	165 ± 0.5	5.1	+ 0.8	154	3.941	5M
200	8"	216 ± 0.7	6.5	+ 1.0	202	6.572	6M
250	10"	267 ± 0.9	7.8	+ 1.2	250	9.758	6M
300	12"	318 ± 1.0	9.2	+ 1.4	298	13.701	6M
350	14"	370 ± 1.2	10.5	+ 1.4	348	18.051	6M
400	16"	420 ± 1.3	11.8	+ 1.6	395	23.059	6M
450	18"	470 ± 1.5	13.2	+ 1.8	442	28.875	6M
500	20"	520 ± 1.6	14.6	+ 2.0	489	35.346	6M
600	24"	630 ± 3.2	17.8	+ 2.8	592	52.678	6M
*700	28"	732 ± 3.7	21.0	+ 3.2	687	72.018	6M

註/NOTE :

1. 外徑係指任意互相垂直兩外徑之算術平均值。
2. 管材長度可由買賣雙方協議。
3. \* : 表示模具開發中。

1. Average O.D refers to the arithmetic arithmetic mean value of any two given O.D at the right angle to each other.
2. Pipe length can be determined by the buyer and seller agreement.
2. \* : Means the mold is developing.

# 3 PVC-U管規格

## Specification of PVC-U Pipe

### \* VP (B管) 一般厚管 TYPE VP (B) Thick Wall

單位Unit : m/m

標稱管徑 Nominal Pipe Size	外徑 及許可差 Outside Diameter and Tolerance	厚度 Wall Thickness		近似內徑 (參考) Approx. Inside Diameter	質量 (參考) Approx. Weight (kg/M)	20°C 使用壓力 Allow working Pressure at 20°C(kgf/cm <sup>2</sup> )	長度 Length (M)
		最小 Minimum	許可差 Tolerance				
13	3/8"	18 ± 0.2	2.2	+ 0.6	13	0.174	4M
16	1/2"	22 ± 0.2	2.7	+ 0.6	16	0.256	4M
20	3/4"	26 ± 0.2	2.7	+ 0.6	20	0.310	4M
25	1"	32 ± 0.2	3.1	+ 0.8	25	0.448	4M
30	1 1/4"	38 ± 0.2	3.1	+ 0.8	31	0.542	4M
40	1 1/2"	48 ± 0.2	3.6	+ 0.8	40	0.791	4M
50	2"	60 ± 0.2	4.1	+ 0.8	51	1.122	4M
65	2 1/2"	76 ± 0.3	4.1	+ 0.8	67	1.445	4M
80	3"	89 ± 0.3	5.5	+ 0.8	77	2.202	4M
100	4"	114 ± 0.4	6.6	+ 1.0	100	3.409	5M
125	5"	140 ± 0.5	7.0	+ 1.0	125	4.464	5M
150	6"	165 ± 0.5	8.9	+ 1.4	146	6.701	6M
200	8"	216 ± 0.7	10.3	+ 1.4	194	10.129	6M
250	10"	267 ± 0.9	12.7	+ 1.8	240	15.481	6M
300	12"	318 ± 1.0	15.1	+ 2.2	286	21.962	6M
350	14"	370 ± 1.2	18.0	+ 2.6	333	30.407	6M
400	16"	420 ± 1.3	20.5	+ 3.0	378	39.336	6M
450	18"	470 ± 1.5	22.9	+ 3.4	423	49.223	6M
500	20"	520 ± 1.6	25.3	+ 3.8	468	60.218	6M
600	24"	630 ± 3.2	30.7	+ 4.0	567	87.746	6M

註/NOTE :

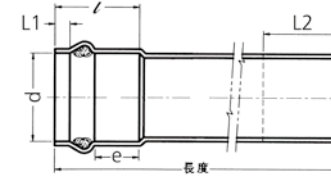
1. 外徑係指任意互相垂直兩外徑之算術平均值。
2. 一般壓力用管為淺灰色。
3. 下水道及建築物污水用管為橘紅色。
4. 其它顏色可經由協議後，予以訂購。
5. 管材長度可由買賣雙方協議。

1. Average O.D refers to the arithmetic mean value of any two given O.D at the right angle to each other.
2. PVC pressure pipes for general purposes are light gray.
3. PVC pipes for sewerage and sewer lines are reddish-orange.
4. The other colors could be produced by deal with customers.
5. Pipe length can be determined by the buyer and seller agreement.

使用時注意事項：

1. 在屋外儲存時，應避免直射日光，以不聚積熱氣的方式被蓋帆布等措施。
2. 管不得直接加螺紋。
3. 管不得噴射、塗布或接觸對其材質有不利影響之物質，例：丙酮、稀釋劑、雜酚油(cresol)、殺蟲劑、白蟻驅除劑等。  
再者，即使上述物質不直接與管件接觸時，例：須注意管淺埋時，若將上述物質灑在地面，則會滲透於地下而侵蝕管。
4. 為降低管路沉陷或溫度變化引起之伸縮等，依需要採取適當措施，例：在適當場所設置可撓性管件。

### \* 活套VP (B管) 一般用管 RING-SEAL TYPE VP(B) FOR GENERAL PURPOSE



單位Unit : m/m

標稱管徑 Nominal Pipe Size	平均內徑 最小值(d)(min)	有效插入長度 最小值(e) (min)	唇長最小值(L1) (min)	管承口長度 最小值(L) (min)	雄管插入長度 L2(約) Maleadapter Inserting	
40	1 1/2"	48.3	57	12	110	50~55
50	2"	60.3	58	15	115	60~65
65	2 1/2"	76.4	60	20	125	70~75
80	3"	89.5	61	20	130	80~85
100	4"	114.5	64	20	145	95~105
125	5"	140.6	67	25	150	105~115
150	6"	165.7	70	30	165	120~130
200	8"	216.9	76	30	190	170~180
250	10"	268.1	82	30	210	200~210
300	12"	319.3	88	35	235	245~260
350	14"	371.5	89	35	245	285~300
400	16"	421.7	91	35	265	315~330
450	18"	471.9	94	40	290	345~360
500	20"	522.1	96	40	305	385~400
600	24"	633.8	102	45	355	465~480

註/NOTE :

1. 管材長度可由買賣雙方協議。
  2. 標稱管徑200以上之活套頭承口，其承口部分之厚度不得小於直管之厚度。
1. Pipe length can be determined by the buyer and seller agreement.

# 3 PVC-U管規格

## Specification of PVC-U Pipe

### (二)自來水用管 PVC-U pipe for drinking water (CNS 4053-1)

#### \* W管 TYPE W

單位Unit: m/m

標稱管徑 Nominal Pipe Size	外徑 及許可差 Outside Diameter and Tolerance	厚度 Wall Thickness		近似內徑 (參考) Approx. Inside Diameter	質量 (參考) Approx. Weight (kg/M)	20°C 使用壓力 Allow working Pressure at 20°C(kgf/cm <sup>2</sup> )	長度 Length (M)	
		最小 Minimum	許可差 Tolerance					
13	3/8"	18 ± 0.2	2.3	+ 0.4	13	0.174	7.65以下	4M
16	1/2"	22 ± 0.2	2.7	+ 0.6	16	0.256		4M
20	3/4"	26 ± 0.2	2.7	+ 0.6	20	0.310		4M
25	1"	32 ± 0.2	3.2	+ 0.6	25	0.448		4M
30	1 1/4"	38 ± 0.2	3.2	+ 0.6	31	0.542		4M
40	1 1/2"	48 ± 0.2	3.7	+ 0.6	40	0.791		4M
50	2"	60 ± 0.2	4.1	+ 0.8	51	1.122		4M
65	2 1/2"	76 ± 0.2	4.1	+ 0.8	67	1.445		4M
80	3"	89 ± 0.2	5.5	+ 0.8	78	2.202		4M
100	4"	114 ± 0.2	6.6	+ 0.8	100	3.409		5M
125	5"	140 ± 0.3	7.0	+ 1.0	124	4.464		5M
150	6"	165 ± 0.3	9.0	+ 1.2	146	6.701		6M
200	8"	216 ± 0.7	10.8	+ 1.4	194	10.559		6M
250	10"	267 ± 0.9	13.3	+ 1.8	239	16.119		6M
300	12"	318 ± 1.0	15.9	+ 2.2	285	22.976		6M
350	14"	370 ± 1.2	18.0	+ 2.6	332	30.407		6M
400	16"	420 ± 1.3	20.5	+ 3.0	376	39.336		6M
450	18"	470 ± 1.5	22.9	+ 3.4	421	49.223		6M
500	20"	520 ± 1.6	25.3	+ 3.8	466	60.218		6M
600	24"	630 ± 3.2	30.7	+ 4.0	565	87.746		6M

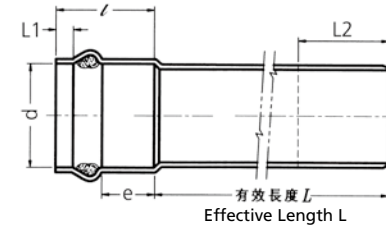
註/NOTE:

1. 外徑係指任意互相垂直兩外徑之算術平均值。
2. 管材長度可由買賣雙方協議。
1. Average O.D refers to the arithmetic mean value of any two given O.D at the right angle to each other.
2. Pipe length can be determined by the buyer and seller agreement.

使用時注意事項:

1. 在屋外儲存時，應避免直射日光，以不聚積熱氣的方式被蓋帆布等措施。
2. 管不得直接加螺紋。
3. 管不得噴射、塗布或接觸對其材質有不利影響之物質，例：丙酮、稀釋劑、雜酚油(cresol)、殺蟲劑、白蟻驅除劑等。再者，即使上述物質不直接與管接觸時，例：須注意管淺埋時，若將上述物質灑在地面，則會滲透於地下而侵蝕管。
4. 為降低管路沉陷或溫度變化引起之伸縮等，應依需要採取適當措施，例：在適當場所設置可撓性管件。
5. 接著劑應薄薄地均勻塗布在已清潔之管與管配件各黏合面，迅速黏合並保持插入力至規定時間。黏合後擦掉所溢出之接著劑。施工時，採取換氣等措施，以驅出管內之接著劑蒸氣。接著既須使用適合於管配件種類者。

### \* 活套管 (自來水用) RING-SEAL TYPE FOR DRINKING WATER



標稱管徑 Nominal Pipe Size	平均內徑d 最小值	有效插入長度e 最小值	管承口長度r 最小值	雄管插入長度 L2(約) Maleadapter Inserting	有效長度 L	
40	1 1/2"	48.3	57	110	50~55	4M
50	2"	60.3	58	115	60~65	4M~7M
65	2 1/2"	76.4	60	125	70~75	4M~7M
80	3"	89.5	61	130	80~85	4M~7M
100	4"	114.5	64	145	90~100	5M~7M
125	5"	140.6	67	150	105~115	5M~7M
150	6"	165.7	70	165	120~130	6M~7M
200	8"	216.9	76	190	170~180	6M~7M
250	10"	268.1	82	210	200~210	6M~7M
300	12"	319.3	88	235	245~260	6M~7M
350	14"	371.5	89	245	285~300	6M~7M
400	16"	421.7	91	265	315~330	6M~7M
450	18"	471.9	94	290	345~360	6M~7M
500	20"	522.1	96	305	385~400	6M~7M
600	24"	633.8	102	355	460~475	6M~7M

註/NOTE:

1. 200mm(8")以上為活套增厚管，其承口部分之厚度不得小於直管之厚度。
2. 管材長度可由買賣雙方協議。
1. Upward 200mm(8") is the ring-seal type for drinking water.
2. Pipe length can be determined by the buyer and seller agreement.

使用上的注意事項:

1. 在屋外儲存時，應避免直射日光，以不聚積熱氣的方式被蓋帆布等措施。
2. 管不得直接加螺紋。
3. 管不得噴射、塗布或接觸對其材質有不利影響之物質，例：丙酮、稀釋劑、雜酚油(cresol)、殺蟲劑、白蟻驅除劑等。再者，即使上述物質不直接與管接觸時，例：須注意管淺埋時，若將上述物質灑在地面，則會滲透於地下而侵蝕管。
4. 為降低管路沉陷或溫度變化引起之伸縮等，應依需要採取適當措施，例：在適當場所設置可撓性管件。
5. 接著劑應薄薄地均勻塗布在已清潔之管與管配件各黏合面，迅速黏合並保持插入力至規定時間。黏合後擦掉所溢出之接著劑。施工時，採取換氣等措施，以驅出管內之接著劑蒸氣。接著既須使用適合於管配件種類者。

# 3 PVC-U管規格

## Specification of PVC-U Pipe

### (三)PVC-U電線導管 PVC-U pipe for electric conduit use (CNS 1302)

#### \* E 管 TYPE E

單位Unit : m/m

標稱管徑 Nominal Pipe Size	外徑 及許可差 Outside Diameter and Tolerance	厚度Wall Thickness		近似內徑 (參考) Approx. Inside Diameter	質量 (參考) Approx. Weight (kg/M)	長度 許可差 Length Tolerance	長度 Length (M)	
		最小 Minimum	許可差 Tolerance					
13	3/8"	18 ± 0.2	1.8	+ 0.4	14	0.144	標示值 +30 -10	4M
16	1/2"	22 ± 0.2	1.8	+ 0.4	18	0.180		4M
20	3/4"	26 ± 0.2	1.8	+ 0.4	22	0.216		4M
28	1"	34 ± 0.3	2.7	+ 0.6	28	0.420		4M
35	1 1/4"	42 ± 0.3	3.1	+ 0.8	35	0.608		4M
41	1 1/2"	48 ± 0.4	3.1	+ 0.8	41	0.702		4M
52	2"	60 ± 0.5	3.6	+ 0.8	52	1.010		4M
65	2 1/2"	76 ± 0.5	4.1	+ 0.8	67	1.450		4M
80	3"	89 ± 0.5	5.1	+ 0.8	78	2.070		4M
100	4"	114 ± 0.6	6.6	+ 1.0	100	3.420		5M
125	5"	140 ± 0.8	7.0	+ 1.0	125	4.490		5M
150	6"	165 ± 1.0	8.5	+ 1.4	148	6.460		6M
200	8"	216 ± 1.3	10.5	+ 1.4	194	10.340		6M

註/NOTE :

1. 外徑係指任意互相垂直兩外徑之算術平均值。
2. 管材長度可由買賣雙方協議。
1. Average O.D refers to the arithmetic arithmetic mean value of any two given O.D at the right angle to each other.
2. Pipe length can be determined by the buyer and seller agreement.

#### \* ES-1管 TYPE ES-1

單位Unit : m/m

標稱管徑 Nominal Pipe Size	ES-1管							
	外徑 及許可差 Outside Diameter and Tolerance	厚度 Wall Thickness		近似內徑 (參考) Approx. Inside Diameter	質量 (參考) Approx. Weight (kg/M)	長度 許可差 Length Tolerance	長度 Length (M)	
		最小 Minimum	許可差 Tolerance					
80	3"	89 ± 0.5	2.7	+ 0.6	83	1.160	標示值 +30 -10	4M
100	4"	114 ± 0.6	3.6	+ 0.8	106	1.980		5M
125	5"	140 ± 0.8	4.1	+ 0.8	131	2.750		5M
150	6"	165 ± 1.0	5.1	+ 0.8	154	3.960		5M

註/NOTE :

1. 外徑係指任意互相垂直兩外徑之算術平均值。
2. 管材長度可由買賣雙方協議。
1. Average O.D refers to the arithmetic arithmetic mean value of any two given O.D at the right angle to each other.
2. Pipe length can be determined by the buyer and seller agreement.

#### \* 使用時注意事項 / Precautions for use :

1. 管在屋外儲存時應避免日光直射，在熱氣可流通的方式下覆蓋帆布等措施。
2. 不得對管直接切螺紋。
3. 不得有對其材質有不良影響之物質，例如丙酮、稀釋劑、雜酚油、殺蟲劑、白蟻驅除劑等進行噴射、塗布。
1. The pipes should be stored outdoors to avoid direct sunlight, in the hot air circulation can be covered under the canvas and other measures.
2. Do not thread the pipe directly on the pipe.
3. The material that adversely affects the pipes, Such as acetone, diluents, cresote, insecticides, termite repellents etc., should not sprayed and applied on the pipes.

### (四)耐衝擊PVC-U管 PVC-U pipe for High-Impact (CNS 14345)

單位Unit : m/m

標稱管徑 Nominal Pipe Size	外徑 及許可差 Outside Diameter and Tolerance	厚度Wall Thickness		近似內徑 (參考) Approx. Inside Diameter	質量 (參考) Approx. Weight (kg/M)
		最小 Minimum	許可差 Tolerance		
13	18 ± 0.2	2.3	+ 0.4	13	0.170
16	22 ± 0.2	2.7	+ 0.6	16	0.251
20	26 ± 0.2	2.7	+ 0.6	20	0.304
25	32 ± 0.2	3.2	+ 0.6	25	0.439
30	38 ± 0.2	3.2	+ 0.6	31	0.531
40	48 ± 0.2	3.7	+ 0.6	40	0.774
50	60 ± 0.2	4.1	+ 0.8	51	1.099
65	76 ± 0.2	4.1	+ 0.8	67	1.415
80	89 ± 0.2	5.5	+ 0.8	77	2.156
100	114 ± 0.2	6.6	+ 1.0	100	3.338
125	140 ± 0.3	7.5	+ 1.2	124	4.699
150	165 ± 0.3	9.0	+ 1.2	146	6.562
200	216 ± 0.7	10.5	+ 1.4	194	10.089
250	267 ± 0.9	13.0	+ 1.8	239	15.473
300	318 ± 1.0	15.5	+ 2.2	285	22.005
350	370 ± 1.2	18.0	+ 2.6	332	29.770
400	420 ± 1.3	20.5	+ 3.0	376	38.511

註/NOTE :

1. 外徑係指任意互相垂直兩外徑之算術平均值。
2. 耐衝擊活套管之尺度規格與自來水用相同。
3. 耐衝擊管為藍黑系顏色。
4. 其他顏色可經由協議後予以訂購。
5. 管材長度可由買賣雙方協議。
1. Average O.D refers to the arithmetic mean value of any two given O.D at the right angle to each other.
2. The pipe sizes and specification of ring-seal type for High-Impact are same with the ring-seal type for Drinking water's.
3. PVC-U pipe for High-Impact is dark black-blue color.
4. The other colors could be produced by deal with customers.
5. Pipe length can be determined by the buyer and seller agreement.

使用上的注意事項 :

1. 在屋外儲存時，應避免直射日光，並採取不會累積熱氣的方式，例：被蓋帆布等措施。
2. 管不得直接加螺紋。
3. 管不得以對其材質有不利影響之物質，例：丙酮、稀釋劑、雜酚油(cresol)、殺蟲劑、白蟻驅除劑等噴射、塗布、接觸之。此外，即使上述物質不直接與管接觸時，例：將管淺埋時，若將上述物質灑在地面，則會滲透於地下而侵蝕管，須注意。
4. 為了對應不均勻沉陷、溫度變化引起之伸縮等，依須要採取適當措施，例：在適當場所設置可撓性管件。
5. 接著劑應薄薄地均勻塗布在已清潔之管與管配件各黏合面，迅速黏合並保持插入力至規定時間。黏合後擦掉所溢出之接著劑。施工時，採取換氣等措施，以驅出管內之接著劑蒸氣。接著劑須使用適合於管配件種類者。

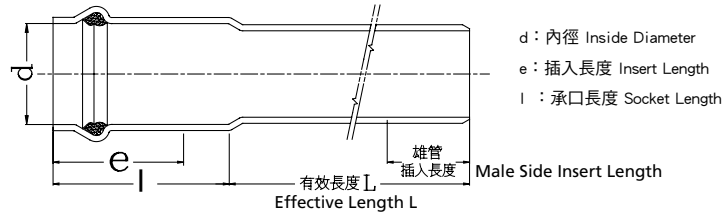


# 3 PVC-U管規格

## Specification of PVC-U Pipe

### (五)長型活套管 (A型)

#### RING-SEAL TYPE A FOR DRINKING WATER



單位Unit: m/m

標稱管徑 Nominal Pipe Size	平均內徑(d) (最小值) (min)	有效插入長度(e) (最小值) (min)	承口長度(l) (最小值) (min)	承口厚度		有效長度 L
				最小值 (min)	許可差 Tolerance	
40	48.3	151	215	3.7	+0.6	4M
50	60.3	156	220	4.1	+0.8	4M-7M
65	76.4	156	220	4.1	+0.8	4M-7M
80	89.5	166	220	5.5	+0.8	4M-7M
100	114.5	179	235	6.6	+1.0	5M-7M
125	140.6	191	245	7.5	+1.2	5M-7M
150	165.7	201	250	9.0	+1.2	6M,7M
200	216.9	222	270	10.5	+1.4	6M,7M
250	268.1	248	290	13.0	+1.8	6M,7M
300	319.3	272	310	15.5	+2.2	6M,7M
350	371.5	292	330	18.0	+2.6	6M,7M
400	421.7	312	350	20.5	+3.0	6M,7M

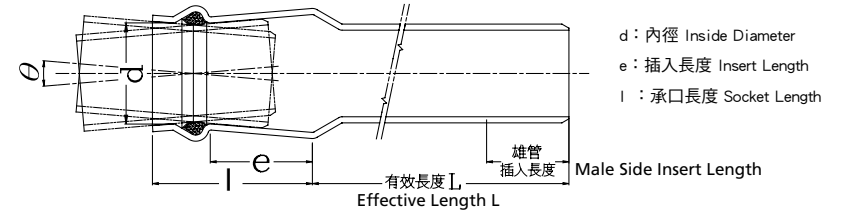
註/NOTE:

管材長度可由買賣雙方協議。

Pipe length can be determined by the buyer and seller agreement.

### (六)可撓性活套管 (B型)

#### RING-SEAL TYPE B FOR DRINKING WATER



單位Unit: m/m

標稱管徑 Nominal Pipe Size	平均內徑(d) (最小值) (min)	有效插入長度(e) (最小值) (min)	承口長度(l) (最小值) (min)	承口厚度		有效長度 L
				最小值 (min)	許可差 Tolerance	
40	48.3	44	105	3.7	+0.6	4M
50	60.3	50	125	4.1	+0.8	4M-7M
65	76.4	55	135	4.1	+0.8	4M-7M
80	89.5	60	145	5.5	+0.8	4M-7M
100	114.5	80	160	6.6	+1.0	5M-7M
125	140.6	90	175	7.5	+1.2	5M-7M
150	165.7	100	200	9.0	+1.2	6M,7M
200	216.9	115	235	10.5	+1.4	6M,7M
250	268.1	145	280	13.0	+1.8	6M,7M
300	319.3	170	320	15.5	+2.2	6M,7M
350	371.5	200	355	18	+2.6	6M,7M
400	421.7	230	380	20.5	+3.0	6M,7M

註/NOTE:

1. 可撓性活套頭 (B型) 套接後雄管端之可撓度  $\theta$ :  $\pm 5^\circ$  以內。  
Ring-Seal Type B joint together, the deflection  $\theta$ : Between  $\pm 5^\circ$
2. 管材長度可由買賣雙方協議。  
Pipe length can be determined by the buyer and seller agreement.

# 3 PVC-U管規格

## Specification of PVC-U Pipe

### (七)管筏用PVC-U管 PVC-U pipe for Raft (CNS 12698)

單位Unit : m/m

標稱管徑 Nominal Pipe Size	外徑 及許可差 Outside Diameter and Toerance	厚度及 許可差(mm) Wall Thickness and Tolerance	近似內徑 Approx. Inside Diameter	最大長度及 許可差 Greatest Length and Tolerance	質量 (參考) Approx. Weight (kg/M)	
125	5"	140 ± 0.8	3.3 + 0.5	133	10,000 ± <sub>30</sub> <sup>50</sup>	2.150
150	6"	165 ± 1.0	3.7 + 0.7	157	11,000 ± <sub>30</sub> <sup>50</sup>	2.900
200	8"	216 ± 1.3	4.6 + 0.8	206	12,000 ± <sub>30</sub> <sup>50</sup>	4.760
250	10"	267 ± 1.6	6.6 + 1.0	253	13,000 ± <sub>30</sub> <sup>50</sup>	8.210
300	12"	318 ± 1.9	8.0 + 1.2	301	14,000 ± <sub>30</sub> <sup>50</sup>	11.860
350	14"	370 ± 2.2	9.3 + 1.5	350	15,000 ± <sub>30</sub> <sup>50</sup>	16.230
400	16"	420 ± 2.6	11.2 + 1.8	396	16,000 ± <sub>30</sub> <sup>50</sup>	22.080
450	18"	470 ± 3.0	13.1 + 2.0	442	17,000 ± <sub>30</sub> <sup>50</sup>	28.790

註/NOTE :

1. 外徑係指任意互相垂直兩外徑之算術平均值。

2. 管材長度可由買賣雙方協議。

1. Average O.D refers to the arithmetic arithmetic mean value of any two given O.D at the right angle to each other.

2. Pipe length can be determined by the buyer and seller agreement.

用途：適用於沿海及淡水之漁撈、養殖作業之管筏用管。

### (八)鑿井用管 For well drilling engineering

單位Unit : m/m

標稱管徑 Nominal Pipe Size	外徑 及許可差 Outside Diameter and Toerance	厚度及 許可差(mm) Wall Thickness and Tolerance	近似內徑 Approx. Inside Diameter	重量參考 Approx. Weight (kg/M)	長度 Length	
150	6"	165 ± 1.0	9.0 + 1.2	146	6.702	6M
200	8"	216 ± 1.3	10.5 + 1.4	194	10.340	6M
250	10"	267 ± 1.6	13.0 + 1.8	239	15.860	6M
300	12"	318 ± 1.9	15.5 + 2.2	285	22.560	6M
350	14"	370 ± 2.2	18.0 + 2.6	332	30.520	6M
400	16"	420 ± 2.6	20.5 + 3.0	376	39.480	6M
450	18"	470 ± 3.0	22.9 + 3.4	421	49.400	6M
500	20"	520 ± 3.5	25.3 + 3.8	466	60.440	6M
600	24"	630 ± 4.0	30.7 + 4.0	565	88.070	6M

註/NOTE :

1. 外徑係指任意互相垂直兩外徑之算術平均值。

2. 管材長度可由買賣雙方協議。

1. Average O.D refers to the arithmetic arithmetic mean value of any two given O.D at the right angle to each other.

2. Pipe length can be determined by the buyer and seller agreement.

1. 依據經濟部水利署規劃試驗所編輯之「附冊三-地下水水井鑿井技術參考手冊」章節7.5鑿井工程因地面以下情況不能絕對控制，故工程工料之損耗或失敗無法完全避免。最常見者有下述現象：

(1)鑽孔：井孔坍塌彎曲，或鑽鑿特別艱難等。

(2)放管：接頭脫節管體陷落，管體破裂彎曲，或無法安放至預定深度等。

(3)填石：投填時擦塌孔壁，或架橋效應產生填充不實等。

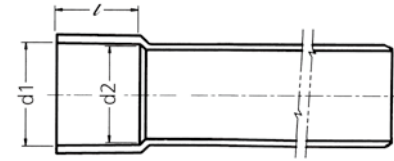
(4)攪水：地層組織過於細緻久洗不清，孔壁坍塌錯亂挽救困難，或水井效率不足須延長攪水時間等。

(5)其他：機械故障、工具陷落、備料不足、進度滯緩、工時延誤等。

2. 影響鑿井工程發生損耗或失敗之因素頗為複雜，有：地層因素、設備因素、環境因素、氣候因素、技術因素、或其他不可抗因素等。謹提供予鑿井施工業者參考。

### (九) T.S. 放口管 (單放)

PIPE WITH SOLVENT CEMENT SOCKET  
(SINGLE SOCKET)



單位Unit : m/m

標稱管徑 Nominal Pipe Size		平均內徑		放口頭長度 (l)(min) 最小值
		d1(口部)	d2(根部)	
13	3/8"	18.40 ± 0.20	17.53 ± 0.20	26
16	1/2"	22.40 ± 0.20	21.52 ± 0.20	30
20	3/4"	26.45 ± 0.20	25.42 ± 0.20	35
25	1"	32.55 ± 0.25	31.37 ± 0.25	40
30	1 1/4"	38.60 ± 0.25	37.31 ± 0.25	44
40	1 1/2"	48.70 ± 0.30	47.21 ± 0.30	55
50	2"	60.80 ± 0.30	59.10 ± 0.30	63
65	2 1/2"	76.80 ± 0.30	75.12 ± 0.30	64
80	3"	89.60 ± 0.30	88.30 ± 0.30	64
100	4"	114.70 ± 0.30	113.20 ± 0.30	84
125	5"	140.90 ± 0.40	139.10 ± 0.40	104
150	6"	166.00 ± 0.50	163.90 ± 0.50	132
200	8"	217.90 ± 0.80	213.90 ± 0.80	200
250	10"	269.30 ± 0.90	264.30 ± 0.90	250
300	12"	320.70 ± 1.00	314.70 ± 1.00	300
350	14"	373.10 ± 1.00	366.10 ± 1.00	350
400	16"	423.60 ± 1.20	415.60 ± 1.20	400
450	18"	474.00 ± 1.20	465.00 ± 1.20	450
500	20"	524.50 ± 1.30	514.50 ± 1.30	500
600	24"	635.30 ± 2.10	623.30 ± 2.10	600
*700	*28"	738.10 ± 2.40	724.10 ± 2.40	700

註/NOTE :

1. VP適用標稱管徑13~600，VU適用標稱管徑40~700，W管適用標稱管徑13~600。

2. 管材長度可由買賣雙方協議。

3. "\*"表示模具開發中。

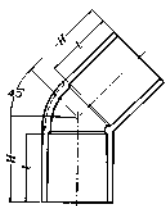
### PVC-U管施工應注意事項 Notice Items of PVC-U Piping Instructions

- 1.大樓建築物樓板打混凝土之前，自來水管線須依「建築技術規則」建築設備編第二章-給水排水系統及衛生設備第28條之規定做水壓試驗。試驗壓力不得低於 $10\text{kgf/cm}^2$ 或最高使用壓力之1.5倍，並應保持1小時如無漏水始可打混凝土，上述之水壓試驗，一般均每層分別進行。
- 2.活套管試水壓時，管線須予蓋土，如環境許可時，可僅留活套頭部份不蓋土，試水前須蓋土的目的，主要為防止活套頭試水壓時之脫開，如在市區因交通流量大，一般可全部蓋土後試水壓。
- 3.管線施工後須分段試水壓，每段長度約500-1000M，試靜水壓力為 $10\text{kgf/cm}^2$ 或使用壓力之1.5倍，並維持1小時並觀察是否有漏水現象。
- 4.管線較高之位置與管端，應裝設排氣閥。
- 5.管線埋設須先填砂，厚度最小10cm，管子配管後，再填砂10-30cm，使管子不致與石頭直接接觸。
- 6.大樓樓板的電氣配管以直線配管為原則，如需要彎曲時，一個彎曲角度應在 $90^\circ$ 以內，且一區間（兩接線盒間）的管線彎曲角度，合計不得超過 $270^\circ$ ，且其配線長度，不得超過30M。
- 7.電氣用管與接線盒，裝配後於打混凝土時應防止受到破壞或損傷，如有破損應即修復，以免混凝土之阻塞影響往後的拉線工作。
- 8.樓板內的埋設配管，一個交叉點的管子，應為2支以下，不得同一位置有3支管子相交叉。
- 9.樓板打混凝土作業中，水電人員應常駐於工地，以便處理配管上之突發事件。
- 10.PVC-U膠合劑塗敷要適量，禁止使用過量而造成PVC-U管、接頭軟化、膨脹或破裂之異常。
- 11.大樓樓板、樑柱之混凝土應注意其固化劑添加量，避免混凝土固化時大量放熱溫度過高使PVC-U管發生變形、凹陷等異常。
- 12.PVC-U管埋設於大樓樓板、樑柱時，須依「行政院公共工程委員會施工綱要規範」、「經濟部水利署施工規範」第03310章-結構用混凝土之規定正確施工。結構混凝土施工時，為防止PVC管發生過熱造成變形、凹陷等異常現象，施工應注意下列事項：
  - (1)炎熱天候為免產生混凝土澆置時與澆置後數天內較高之混凝土溫度，導致PVC-U管軟化凹陷，應採取下列操作：
    - A.周圍溫度超過 $32^\circ\text{C}$ 以上時，應於澆置混凝土前，將模板及鋼筋等以水或其他方式適當降溫。
    - B.為避免澆置後混凝土溫度高於 $32^\circ\text{C}$ 時，應採取下列措施保護已澆置之混凝土：
      - a.以適當方式遮蔽防止混凝土直接受到日曬。
      - b.採用冷水噴灑或以溼潤之粗麻布或粗棉墊覆蓋，使模板保持潮濕。
  - (2)預拌混凝土之品質應符合CNS 3090「預拌混凝土」國家標準之規定。例如：
    - A.預拌混凝土自水加入水泥與粒料中起至運送到工地並卸料完畢止，必須在1.5小時以內完成。在天氣炎熱，或有混凝土早凝之情況時，買方可指定此運送時間少於1.5小時。
    - B.當使用預熱粒料、熱水，或二者同時採用以產製混凝土時，在製造或運送途中最高溫度不得大於 $32^\circ\text{C}$ 。
  - (3)管道之孔洞應以易於取出之材料暫時填塞，以防止混凝土水泥漿滲入。
  - (4)澆置混凝土應注意PVC-U管有無移位或變形，倘有此現象，應暫停澆置，待校正加固後再繼續澆置。
  - (5)應避免搗實過度，引起埋設PVC-U管位移、凹陷、變形。
  - (6)混凝土澆置15分鐘內，以振動器振動時不可觸及模板及鋼筋，以避免PVC-U管發生位移。

- 1.Before concreting the floor, run water pressure test on the tap water pipe line according to Article 28, Chapter II, "Construction Technical Rules" with testing water pressure retained for one (1) hour at not lower than  $10\text{kg/cm}^2$ , nor higher than 1.5 times of the working pressure. Start concreting only when no leakage is observed. Usually, this test is separately run by floor.
- 2.Earth coverage over the pipe line is required on testing the water pressure of spigot pipe, which however may be left bare only the connecting parts if working environment permits. The purpose of earth coverage before the test is mainly to prevent the spigot from escaping during the test to be run in where heavy traffic flow occurs, such as in the downtown area.
- 3.Run the water pressure test by section for approximately every 500-1000M on pipe line completed, at the testing hydrostatic pressure retained for one (1) hour at not lower than  $10\text{kg/cm}^2$ , nor higher than 15 times of the working pressure. Observe for any leakage.
4. Provide vent valve to the pipe line at the pipe end or at where with higher elevation.
- 5.Send filling with layer thickness not less than 10cm is required before the embedment of pipe line. Do not cause the pipe to contact directly with any stone.
- 6.Linear allocation governs the pipe for electric conduit on the building floor. If bending is required, the bend angle shall not be larger than  $90^\circ$  and not larger than  $270^\circ$  in total in one area (i.e. between two wiring cases). The wiring length shall not be larger than 30M.
- 7.Prevent the assembled pipe for electric conduit use and wiring cases from being destructed or damaged by concreting. Repair any damage immediately to avoid affecting the subsequent wire pulling by clog of concrete.
- 8.Number of pipe at intersection embedded in the floor shall not be larger than two as illustrated below. Three or more pipes at the same intersection is not allowed.
- 9.Civil utilities technician shall be always available on site during the operation of concreting in case of any incident to the piping work.
- 10.Don't apply the vinyl adhesive too much between PVC-U pipe and fitting, thus avoid the soften, expansion, cracked occurred by PVC-U pipe and fitting.
- 11.Put the required amount of cement hardener into the concrete, to avoid the curing heat softening, transforming the PVC-U pipe during concreting the floor, wall, column.
- 12.When PVC-U pipe is embedded in the floor slabs, columns and beams of a building, follow the proper concrete construction standards by following the requirements in The Practice of Construction Outline, Public Engineering Committee of Executive Yuan and Chapter 03310 - Concrete for Structures in The Practice of Construction, Water Resources Department, Ministry of Economy. In construction with structural concrete, note the following items during the construction to avoid the deformation, sinking and other anomalies caused by overheating of PVC-U pipe:
  - (1)During hot weather, the following operations should be implemented in order to prevent sinking of PVC-U pipe due to softening when the temperature of concrete is too high in the few days after pouring:
    - A.When the ambient temperature exceeds  $32^\circ\text{C}$ , implement proper cooling for the mold plate and rebar, etc. by water or other appropriate methods several days before pouring the concrete.
    - B.To prevent the concrete pouring temperature exceeding  $32^\circ\text{C}$ , the following measures should be taken to protect the poured concrete.
      - a. Properly cover the concrete to prevent direct sun exposure.
      - b. Spray cold water or cover with moist burlap sacks or thick pads to keep the mold plate moist.
  - (2)The quality of ready-mixed concrete should be in compliance with the requirements of CNS 3090 "Pre-blended Concrete". For example,
    - A.The process of adding water to the ready-mixed concrete and pellets and transporting to the construction site must be completed within 1.5 hours. In hot weather or in case of early setting of the concrete, the buyer can specify that the delivery time should be less than 1.5 hours.
    - B.While using the pre-heated pellets, hot water, or both at the same time for the fabrication of concrete, the maximum temperature for fabrication or transportation should not exceed  $32^\circ\text{C}$ .
  - (3)The pipe hole shall be temporarily filled with easily removable material to prevent the infiltration of concrete mortar.
  - (4)While pouring the concrete, it is necessary to pay attention to the PVC-U pipe in case of displacement or deformation. If this happens, the pouring should be suspended to correct the situation before continuing to pour.
  - (5)It is necessary to prevent excessive tamping caused by displacement, sinking and deformation of the PVC-U pipe.
  - (6)Within 15 minutes of pouring concrete, ensure not to touch the mold plate and rebar while the vibrator is in operation to prevent shifting of the PVC-U pipe.

# 5 給水用接頭規格

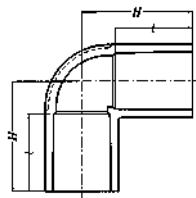
## Specification of PVC-U Fittings for Water Supply



### 45° L 型給水接頭 45° ELBOW

單位：mm

規格 SIZE	∠	H
16 1/2"	30	38
20 3/4"	35	44
28 1"	40	51
35 1 1/4"	44	56
40 1 1/2"	55	69
50 2"	63	80
65 2 1/2"	69	90
80 3"	72	95
90 3 1/2"	80	105
100 4"	92	121
125 5"	112	150
150 6"	140	185
200 8"	172	224
250 10"	185	248



### 90° L 型給水接頭 90° ELBOW

單位：mm

規格 SIZE	∠	H
13 3/8"	26	36
16 1/2"	30	43
20 3/4"	35	50
25 1"-W	40	58
28 1"	40	60
30 1 1/4"-W	44	65
35 1 1/4"	44	68
40 1 1/2"	55	82
50 2"	63	96
65 2 1/2"	69	110
80 3"	72	120
90 3 1/2"	80	135
100 4"	92	152
125 5"	112	188
150 6"	140	228
200 8"	172	288
250 10"	185	326

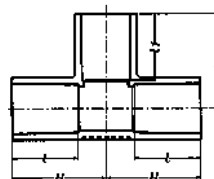
### 90° L 型異徑給水接頭 90° Reducer Elbow

單位：mm

規格 SIZE	∠	∠1	H	H1
20x16 3/4"x1/2"	35	30	48	44.5
28x16 1"x1/2"	40	30	53	48.5
28x20 1"x3/4"	40	35	55	53.5

註/Remark：

1. 製品亦可依點線製造。
  2. 藍黑色製品係耐衝擊接頭。
1. Production can follow the instructions along dashed lines as well.  
2. Black-blue fittings means the high-Impact fittings.



### T型給水接頭 TEE

單位：mm

規格 SIZE	∠	∠1	H	H1
13X13 3/8"	26	26	36	36
16X13 1/2"X3/8"	30	26	41	38
16X16 1/2"	30	30	43	43
20X13 3/4"X3/8"	35	26	46	40
20X16 3/4"X1/2"	35	30	48	45
20X20 3/4"	35	35	50	50
25X13 1"WX3/8"	40	26	51	43
25X16 1"WX1/2"	40	30	53	48
25X20 1"WX3/4"	40	35	55	53
25X25 1"W	40	40	58	58
28X13 1"X3/8"	40	26	51	45
28X16 1"X1/2"	40	30	53	49
28X20 1"X3/4"	40	35	55	54
28X28 1"	40	40	60	60
30X30 1 1/4"W	44	44	65	65
35X13 1 1/4"X3/8"	44	26	55	52
35X16 1 1/4"X1/2"	44	30	57	53
35X20 1 1/4"X3/4"	44	35	59	58
35X28 1 1/4"X1"	44	40	64	63
35X35 1 1/4"	44	44	68	68
40X13 1 1/2"X3/8"	55	26	66	52
40X16 1 1/2"X1/2"	55	30	68	56
40X20 1 1/2"X3/4"	55	35	70	62
40X25 1 1/2"X1"W	55	40	73	67
40X28 1 1/2"X1"	55	40	75	67
40X30 1 1/2"X1 1/4"W	55	44	76	71
40X35 1 1/2"X1 1/4"	55	44	79	71
40X40 1 1/2"	55	55	82	82
50X13 2"X3/8"	63	26	74	58
50X16 2"X1/2"	63	30	76	64
50X20 2"X3/4"	63	35	78	68
50X25 2"X1"W	63	40	81	73
50X28 2"X1"	63	40	82	74
50X35 2"X1 1/4"	63	44	86	77
50X40 2"X1 1/2"	63	55	90	88
50X50 2"	63	63	96	96
65X20 2 1/2"X3/4"	69	35	84	74
65X28 2 1/2"X1"	69	40	90	80
65X40 2 1/2"X1 1/2"	69	55	96	96
65X50 2 1/2"X2"	69	63	102	104
65X65 2 1/2"	69	69	110	110
80X20 3"X3/4"	72	35	90	82
80X28 3"X1"	72	40	94	87
80X40 3"X1 1/2"	72	55	100	102
80X50 3"X2"	72	63	105	110
80X65 3"X2 1/2"	72	69	113	117
80X80 3"	72	72	120	120
90X90 3 1/2"	80	80	135	135
100X40 4"X1 1/2"	92	55	120	115
100X50 4"X2"	92	63	125	122
100X80 4"X3"	92	72	140	132
100X100 4"	92	92	152	152
125X80 5"X3"	112	72	160	148
125X100 5"X4"	112	92	174	168
125X125 5"	112	112	188	188
150X80 6"X3"	140	72	193	160
150X100 6"X4"	140	92	202	182
150X125 6"X5"	140	112	214.5	200
150X150 6"	140	140	228	228
200X100 8"X4"	172	92	236.5	204
200X150 8"X6"	172	140	264	252
200X200 8"	172	172	287.5	287
250X250 10"	185	185	325	325

註/Remark：

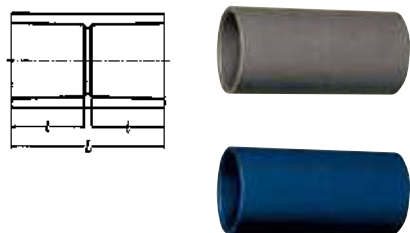
1. 製品亦可依點線製造。
  2. 藍黑色製品係耐衝擊接頭。
1. Production can follow the instructions along dashed lines as well.  
2. Black-blue fittings means the high-Impact fittings.

# 5 給水用接頭規格

## Specification of PVC-U Fittings for Water Supply

### 同徑普通給水接頭 COUPLING

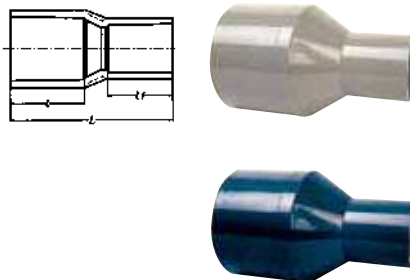
單位：mm



規格 SIZE	∠	L
13 3/8"	26	57
16 1/2"	30	65
20 3/4"	35	77
25 1"-W	40	87
28 1"	40	87
35 1 1/4"	44	95
40 1 1/2"	55	117
50 2"	63	133
65 2 1/2"	69	147
80 3"	72	155
90 3 1/2"	80	166
100 4"	92	200
125 5"	112	235
150 6"	140	300
200 8"	172	360
250 10"	185	400

### 異徑普通給水接頭 REDUCER COUPLING

單位：mm



規格 SIZE	∠	∠1	L
16X13 1/2"X3/8"	30	26	67
20X13 3/4"X3/8"	35	26	68
20X16 3/4"X1/2"	35	30	72
25X20 1"WX3/4"	40	35	84
28X16 1"X1/2"	40	30	86
28X20 1"X3/4"	40	35	88
35X16 1 1/4"X1/2"	44	30	100
35X20 1 1/4"X3/4"	44	35	96
35X28 1 1/4"X1"	44	40	96
40X16 1 1/2"X1/2"	55	30	114
40X20 1 1/2"X3/4"	55	35	110
40X28 1 1/2"X1"	55	40	112
40X35 1 1/2"X1 1/4"	55	44	108
50X16 2"X1/2"	63	30	120
50X20 2"X3/4"	63	35	135
50X28 2"X1"	63	40	136
50X35 2"X1 1/4"	63	44	136
50X40 2"X1 1/2"	63	55	136
65X40 2 1/2"X1 1/2"	69	55	150
65X50 2 1/2"X2"	69	63	153
80X40 3"X1 1/2"	72	55	165
80X50 3"X2"	72	63	165
80X65 3"X2 1/2"	72	69	165
100X40 4"X1 1/2"	92	55	190
100X50 4"X2"	92	63	208
100X80 4"X3"	92	72	190
125X80 5"X3"	112	72	210
125X100 5"X4"	112	92	225
150X80 6"X3"	140	72	260
150X100 6"X4"	140	92	280
150X125 6"X5"	140	112	295
200X100 8"X4"	172	92	340
200X125 8"X5"	172	112	345
200X150 8"X6"	172	140	350
250X200 10"X8"	185	172	420
300X200 12"X8"	230	172	495

註/Remark：

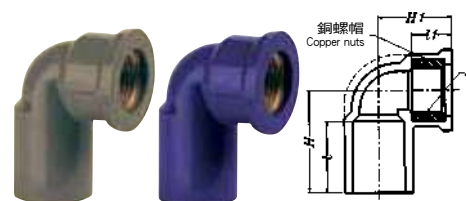
1. 製品亦可依點線製造。
2. 藍黑色製品係耐衝擊接頭。
1. Production can follow the instructions along dashed lines as well.
2. Black-blue fittings means the high-Impact fittings.

### L 型水龍頭接頭 FAUCET FITTING-90° Elbow

#### A. 入銅產品

(Insert bronze nut)

單位：mm

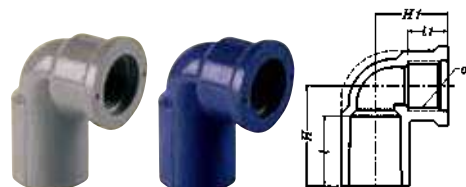


規格 SIZE	∠	H	螺牙THREAD		H1
			d	∠1	
16 1/2"	30	43	PF1/2"	17	31
20 3/4"	35	51	PF3/4"	19	26

#### B. 不入銅產品

(Without bronze nut)

單位：mm



規格 SIZE	∠	H	螺牙THREAD		H1
			d	∠1	
13 1/2"W	26	38	PT1/2"	17	29
16 1/2"	30	43	PT1/2"	18	31
20 3/4"	35	51	PT3/4"	19	36

### T型水龍頭接頭 FAUCET FITTING-Fixture TEE

#### A. 入銅產品

(Insert bronze nut)

單位：mm

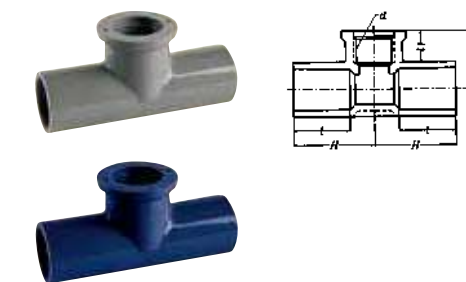


規格 SIZE	∠	H	螺牙THREAD		H1
			d	∠1	
16X13 1/2"	30	43	PF1/2"	17	31
20X13 3/4"X1/2"	35	47	PF1/2"	17	34
20X20 3/4"	35	51	PF1/2"	19	36

#### B. 不入銅產品

(Without bronze nut)

單位：mm



規格 SIZE	∠	H	螺牙THREAD		H1
			d	∠1	
13X13 1/2"W	26	38	PT1/2"	17	29
16X13 1/2"	30	43	PT1/2"	17	31
20X13 3/4"X1/2"	35	47	PT1/2"	17	34
20X20 3/4"	35	51	PT3/4"	19	36

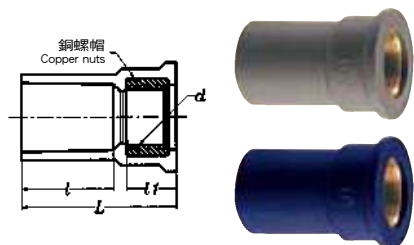
註/Remark：

1. 製品亦可依點線製造。
2. 藍黑色製品係耐衝擊接頭。
3. 五樓以上之建築物，其水龍頭接頭請全部使用入銅製品。
1. Production can follow the instructions along dashed lines as well.
2. Black-blue fittings means the high-Impact fittings.
3. For buildings above fifth floor, please use insert bronze nut for all faucer fittings.

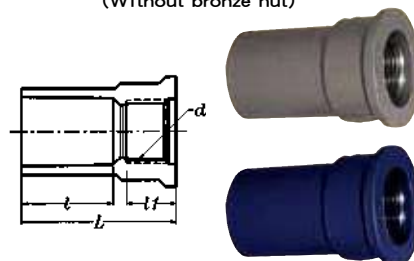
# 5 給水用接頭規格

## Specification of PVC-U Fittings for Water Supply

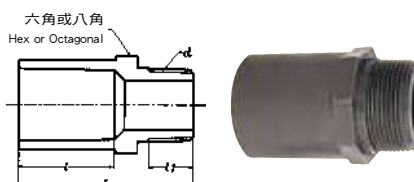
### A. 入銅產品 (Insert bronze nut)



### B. 不入銅產品 (Without bronze nut)



### A. 不入銅產品 (Without bronze nut)



### B. 入銅產品 (Insert bronze nut)



註/Remark：  
藍黑色製品係耐衝擊接頭。  
Black-blue fittings means the high-Impact fittings.

### S 型水龍頭接頭 FAUCET FITTING—Female Adapter

單位：mm

規格 SIZE	∠	螺牙THREAD		L
		d	∠1	
16 1/2"	30	PT 1/2"	17	52
20 3/4"	35	PT 3/4"	19	59

單位：mm

規格 SIZE	∠	螺牙THREAD		L
		d	∠1	
13 1/2"W	26	PT 1/2"	17	47
16 1/2"	30	PT 1/2"	19	57
20 3/4"	35	PT 3/4"	19	59

### 止閥接頭 MALE ADAPTER

單位：mm

規格 SIZE	∠	螺牙THREAD		L
		d	∠1	
13 3/8"	26	PT 1/2"	15	50
16 1/2"	30	PT 1/2"	15	56
20 3/4"	35	PT 3/4"	17	64
25 1"-W	40	PT 1"	19	71
28 1"	40	PT 1"	19	71
30 1 1/4"-W	40	PT 1 1/4"	22	80
35 1 1/4"	44	PT 1 1/4"	22	80
40 1 1/2"	55	PT 1 1/2"	22	92
50 2"	63	PT 2"	26	106
65 2 1/2"	70	PT 2 1/2"	30	120
80 3"	72	PT 3"	33	126
100 4"	92	PT 4"	40	146
125 5"	112	PT 5"	44	177
150 6"	140	PT 6"	44	213

單位：mm

規格 SIZE	∠	螺牙THREAD		L
		d	∠1	
16 1/2"	30	PT 1/2"	15	68
20 3/4"	35	PT 3/4"	17	83
28 1"	40	PT 1"	19	97
35 1 1/4"	44	PT 1 1/4"	22	108
40 1 1/2"	55	PT 1 1/2"	22	112
50 2"	63	PT 2"	26	130

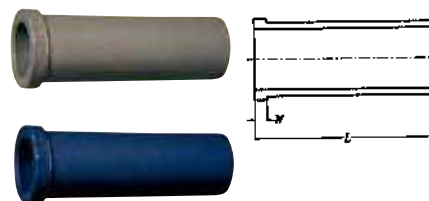


圖1 FIG.1



圖2 FIG.2



註/Remark：

1. 大彎接頭亦可使用於一般及電氣用途。
2. 藍黑色製品係耐衝擊接頭。
1. 90°-bend connectors can be used for general applications and on electrical appliances.
2. Black-blue fittings means the high-Impact fittings.

### 由令 UNION

單位：mm

規格 SIZE	W	L
13 1/2"W	5	80
16 1/2"	5	85
20 3/4"	6	90
25 1"W	7	100
30 1 1/4"W	8	110
40 1 1/2"	8	120
50 2"	9	130

### 塞頭 CAP

單位：mm

規格 SIZE	∠	L	備註 REMARK
13 3/8"	26	29	圖1 FIG.1
16 1/2"	30	34.5	圖1 FIG.1
20 3/4"	35	39.5	圖1 FIG.1
25 1"W	40	44	圖1 FIG.1
28 1"	40	45	圖1 FIG.1
30 1 1/4"W	44	48	圖1 FIG.1
35 1 1/4"W	44	49	圖1 FIG.1
40 1 1/2"	55	59.5	圖1 FIG.1
50 2"	63	68	圖1 FIG.1
65 2 1/2"	69	100	圖2 FIG.2
80 3"	72	107	圖2 FIG.2
90 3 1/2"	80	120	圖2 FIG.2
100 4"	92	138	圖2 FIG.2
125 5"	112	168	圖2 FIG.2
150 6"	140	205	圖2 FIG.2
200 8"	172	260	圖2 FIG.2
250 10"	185	295	圖2 FIG.2

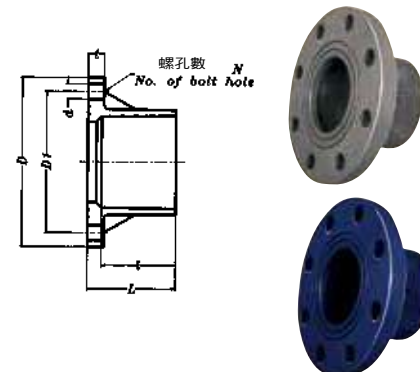
### 法蘭接頭 FLANGE

單位：mm

規格 SIZE	D	D1	∠	螺孔Hole		t	L
				d	N		
40 1 1/2"	140	105	55	19	4	17	68
50 2"	155	120	63	19	4	17	76
65 2 1/2"	175	140	69	19	4	18	83
80 3"	185	150	72	19	8	20	86
100 4"	210	175	92	19	8	20	107
125 5"	250	210	112	23	8	20	130
150 6"	280	240	140	23	8	22	165
200 8"	330	290	172	23	12	22	195
250 10"	400	355	185	25	12	24	235
300 12"	445	400	230	25	16	30	295

註：

1. 每法蘭接頭附1pc 膠墊圈。  
Remark: Each flanged connector comes with a 1PC washer.
2. 藍黑色製品係耐衝擊接頭。  
Black-blue fittings means the high-Impact fittings.

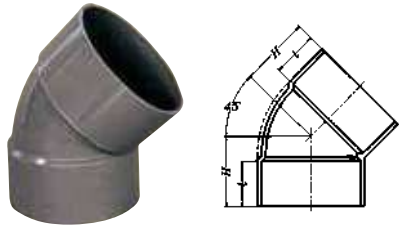


# 6 排水用接頭規格

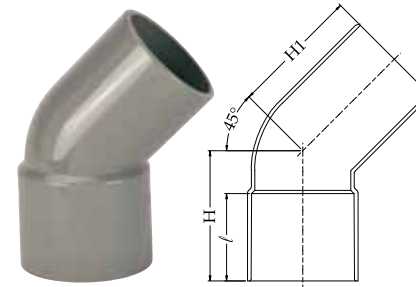
## Specification of PVC-U Fittings for Drainage

### 45° L 型排水接頭 45° ELBOW

單位: mm



規格 SIZE	∠	H
1"X2mm	26	34
1 1/4"X2mm	20	30
1 1/2"X2mm	22	34
2"X2mm	25	40
2 1/2"X2.5mm	35	53
2 1/2"X3mm	35	53
3"X3mm	40	63
3 1/2"X3mm	50	73.5
4"X3.5mm	50	78
5"X3.5mm	65	100
6"X4mm	80	120
8"X7.5mm	100	155
10"X8.5mm	130	191
12"X10mm	150	223



### 45° L 型單放口(厚)接頭

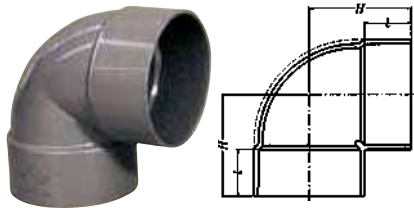
### 45° ELBOW WITH SPIGOT END

單位: mm

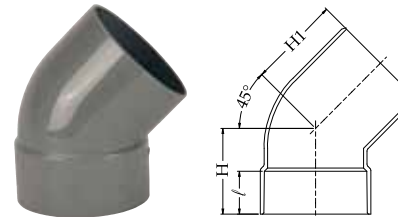
規格 SIZE	∠	H	H1
2"X4.0mm	63	85	85
3"X5.5mm	72	95	95
4"X7.0mm	92	121	121
5"X7.5mm	112	148	148
6"X8.5mm	140	185	180

### 90° L 型排水接頭 90° ELBOW

單位: mm



規格 SIZE	∠	H
1"X2mm	20	39
1 1/4"X2mm	30	52
1 1/2"X2mm	22	48
2"X2mm	22	48
2 1/2"X3mm	35	77
3"X3mm	40	88
3 1/2"X3mm	50	102
4"X3.5mm	50	112
5"X3.5mm	65	140
6"X4mm	80	168
8"X7.5mm	100	215
10"X8.5mm	130	269
12"X10mm	150	316



### 45° L 型單放口排水接頭

### 45° ELBOW WITH SPIGOT END

單位: mm

規格 SIZE	∠	H	H1
1 1/2"X2mm	22	34	34
2"X2mm	25	40	40
2 1/2"X2.5mm	35	53	53
3"X2.5mm	40	61	61
3 1/2"X2.5mm	50	73	73
4"X3.5mm	50	78	78

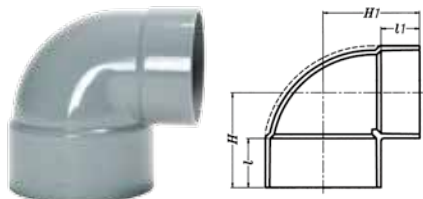
註/Remark:

製品亦可依點線製造。

Production can follow the instructions along dashed lines as well.

### 90° L 型異徑排水接頭 90° REDUCER ELBOW

單位: mm

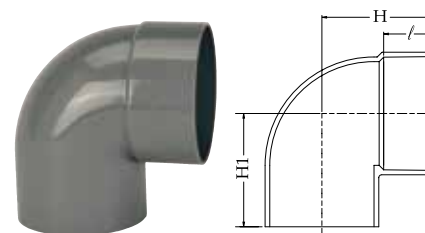


規格 SIZE	∠	∠1	H	H1
2 1/2"X2"X3mm	35	25	69	66

註/Remark:

製品亦可依點線製造。

Production can follow the instructions along dashed lines as well.



### 90° L 型單放口排水接頭

### 90° ELBOW WITH SPIGOT END

單位: mm

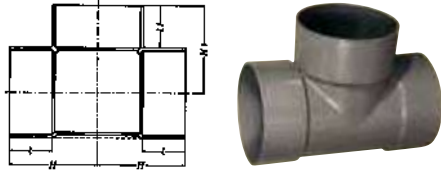
規格 SIZE	∠	H	H1
1 1/2"X2mm	22	47.5	49
2"X2mm	25	57	58.5
2 1/2"X2.5mm	35	75	76.5
3"X2.5mm	40	86.5	88
3 1/2"X2.5mm	50	102	103.5
4"X3.5mm	50	110	114

# 6 排水用接頭規格

## Specification of PVC-U Fittings for Drainage

### T 型排水接頭 TEE

單位 : mm



規格 SIZE	∠	H	∠1	H1
1"X2mm	26	45	26	45
1 1/4"X2mm	30	52	30	52
1 1/2"X2mm	22	49	22	49
2"X3/4"X2mm	25	45	20	51
2"X1 1/2"X2mm	25	52	22	55
2"X2mm	25	59	25	59
2 1/2"X3/4"X2.5mm	35	58	20	59
2 1/2"X1 1/2"X3mm	35	63	22	55
2 1/2"X2"X2.5mm	35	68	25	65
2 1/2"X3mm	35	76.5	35	77
3"X1 1/2"X3mm	40	67	22	70
3"X2"X3mm	40	73	25	73
3"X3mm	40	88.5	40	88
3 1/2"X1 1/2"X3mm	50	78	22	74
3 1/2"X2"X3mm	50	84	25	77
3 1/2"X2 1/2"X3mm	50	91	35	88
3 1/2"X3mm	50	103	50	103
4"X1 1/2"X3.5mm	50	76	22	83
4"X2"X3.5mm	50	85.5	25	85
4"X2 1/2"X3.5mm	50	92	35	96
4"X3"X3.5mm	50	98	40	101
4"X3.5mm	50	112	50	112
5"X2 1/2"X3.5mm	65	107	35	110
5"X3"X3.5mm	65	113	40	115
5"X4"X3.5mm	65	127.5	50	125
5"X3.5mm	65	145	65	145
6"X2 1/2"X4mm	80	122	35	121
6"X3"X4mm	80	127	40	126
6"X4"X4mm	80	142	50	137
6"X4mm	80	167	50	167
8"X4"X7.5mm	100	165	50	165
8"X6"X7.5mm	100	185	80	195
8"X7.5mm	100	215.5	100	215.5
10"X8.5mm	130	270	130	270
12"X10mm	150	316	150	316

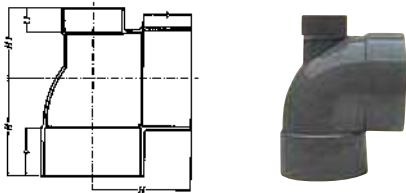
註/Remark :

製品亦可依點線製造。

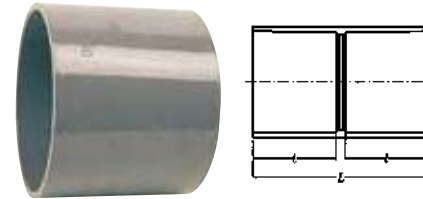
Production can follow the instructions along dashed lines as well.

### 排氣T型接頭 VENT TEE

單位 : mm



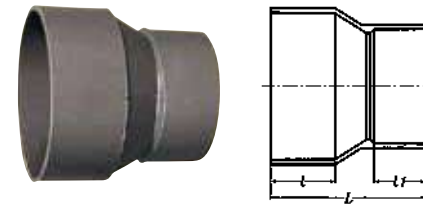
規格 SIZE	∠	H	∠1	H1
3 1/2"X1 1/2"X3mm	50	103	22	70
3 1/2"X2"X3mm	50	103	25	75
4"X2"X3.5mm	50	110	25	80



### 同徑普通排水接頭 COUPLING

單位 : mm

規格 SIZE	∠	L
1 1/4"X3mm	20	43
1 1/2"X3mm	22	47
2"X3mm	25	53
2 1/2"X3mm	35	73
3"X3mm	40	84
3 1/2"X3mm	50	109
4"X3.5mm	50	104
5"X3.5mm	65	134
6"X4mm	80	164
8"X7.5mm	100	205
10"X8.5mm	130	270



### 異徑普通排水接頭 REDUCER COUPLING

單位 : mm

規格 SIZE	∠	∠1	L
2"X1 1/4"X3mm	25	20	60
2"X1 1/2"X2mm	25	22	67
2 1/2"X1 1/2"X3mm	35	20	78
2 1/2"X2"X3mm	35	25	81
3"X1 1/2"X3mm	40	22	87
3"X2"X3mm	40	25	90
3"X2" 1/2"X3mm	40	35	90
3 1/2"X1 1/2"X3mm	50	22	103
3 1/2"X2X3mm	50	25	105
3 1/2"X2 1/2"X3mm	50	35	116
3 1/2"X3" X3mm	50	40	115
4"X2"X3.5mm	50	25	105
4"X2 1/2"X3.5mm	50	22	102
4"X3"X3.5mm	50	40	120
4" X3 1/2" X3.5mm	50	50	120
5"X2 1/2"X3.5mm	65	35	130
5"X3"X3.5mm	65	40	140
5"X4"X3.5"mm	65	50	150
6"X2 1/2"X4mm	80	35	160
6"X3"X4mm	80	40	165
6"X4"X4mm	80	50	170
6"X5"X4"mm	80	65	170
8"X6"X7.5mm	100	80	250
10"X8"X8.5mm	130	100	300

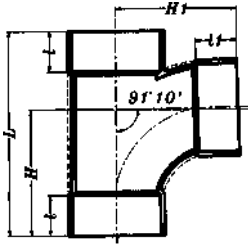


# 6 排水用接頭規格

## Specification of PVC-U Fittings for Drainage

### 順T型排水接頭 SANITARY TEE

單位: mm



規格 SIZE	∠	H	∠1	H1	L
1 1/2"X2mm	22	68	22	68	110
2"X1 1/2"X2mm	25	70	22	75	114
2"X2mm	25	84	25	88	133
2 1/2"X1 1/2"X3mm	35	84	22	85	138
2 1/2"X2"X3mm	35	93	25	92	153
2 1/2"X3mm	35	109	35	105	177
3"X1 1/2"X3mm	40	90	22	100	147
3"X2"X3mm	40	98	25	105	162
3"X3mm	40	123	40	125	198
3 1/2"X1 1/2"X3mm	50	100	22	100	168
3 1/2"X2"X3mm	50	109	25	110	183
3 1/2"X2 1/2"X3mm	50	115	35	120	200
3 1/2"X3mm	50	130	50	140	226
4"X1 1/2"X3.5mm	50	90	22	110	160
4"X2"X3.5mm	50	100	25	118	175
4"X2 1/2"X3.5mm	50	125	35	125	210
4"X3"X3.5mm	50	133	40	140	220
4"X3.5mm	50	155	50	155	255
5"X2 1/2"X3.5mm	65	140	35	140	238
5"X3"X3.5mm	65	130	40	145	235
5"X4"X3.5mm	65	155	50	160	270
5"X3.5mm	65	200	65	200	325
6"X2"X4mm	80	132	25	155	237
6"X3"X4mm	80	151	40	170	272
6"X4"X4mm	80	170	50	180	300
6"X4mm	80	238	80	238	390
8"X6"X7.5mm	100	235	80	265	410
8"X7.5mm	100	300	100	300	490
10"X6"X8.5mm	130	271	80	285	474
10"X8"X8.5mm	130	312	100	323	537
10"X8.5mm	130	370	130	370	615

註/Remark:

製品亦可依點線製造。

Production can follow the instructions along dashed lines as well.

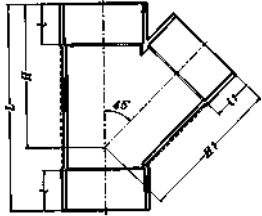


# 6 排水用接頭規格

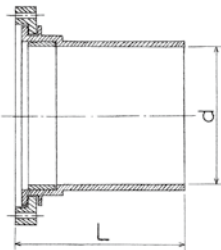
## Specification of PVC-U Fittings for Drainage

### 45° Y 型排水接頭 45° WYE

單位: mm



規格 SIZE	∠	H	∠1	H1	L
1 1/2"X2mm	20	72	20	75	103
1 1/2"X2mm	22	80	22	84	114
2X1 1/2"X2mm	25	91	22	91	124
2"X2mm	25	100	25	103	142
2 1/2"X1 1/2"X2.5mm	35	109	22	105	148
2 1/2"X2"X3mm	35	118	25	114	162
2 1/2"X3mm	35	127	35	133	185
3"X1 1/2"X3mm	40	120	22	115	160
3"X2"X3mm	40	130	25	123	170
3"X3mm	40	152	40	154	213
3 1/2"X1 1/2"X3mm	50	136	22	122	177
3 1/2"X2"X3mm	50	144	25	131	192
3 1/2"X2 1/2"X3mm	50	155	35	149	217
3 1/2"X3mm	50	171.5	50	177.5	247
4"X1 1/2"X3.5mm	50	90	22	126	177
4"X2"X3.5mm	50	152	25	142	195
4"X2 1/2"X3.5mm	50	162	35	160	217
4"X3"X3.5mm	50	173	40	171	238
4"X3.5mm	50	193	50	194	273
5"X2"X3.5mm	65	183	25	155	228
5"X2 1/2"X3.5mm	65	193	35	180	250
5"X3"X3.5mm	65	205	40	187	273
5"X4"X3.5mm	65	216	50	212	300
5"X3.5mm	65	235	65	240	335
6"X2 1/2"X4mm	80	220	35	197	280
6"X3"X4mm	80	227	40	206	300
6"X4"X4mm	80	245	50	230	340
6"X4mm	80	285	80	285	410
8"X4"X7.5mm	100	292	50	268	380
8"X6"X7.5mm	100	328	80	326	445
8"X7.5mm	100	365	100	375	520



註/Remark:  
1.製品亦可依點線製造。

Production can follow the instructions along dashed lines as well.

### 組合式穿樑接頭 Assembly type Beam Fittings

單位: mm

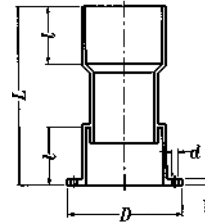
規格 SIZE	d	L
2"	62	102
2 1/2"	78	102
3"	91	108
4"	116	121
5"	142	121
6"	167	121



### 樓板接頭 SLAB JOINT

單位: mm

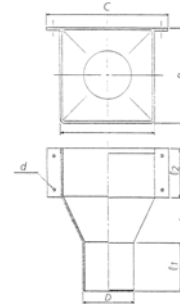
規格 SIZE	D	d	W	∠	L
1 1/2"	76	3.5	5	40	140
2"	90	3.5	5	45	140
3"	121	3.5	5	50	140
4"	147	3.5	5	50	140



### 漏斗 HOPPER

單位: mm

規格 SIZE	A	B	C	D	d	∠1	∠2	L
200 8"	395	395	512	φ214.5	φ12.5	210	200	580

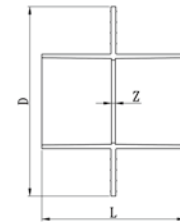


### 止水板接頭

#### Coupling With Waterstop Board

單位: mm

規格 SIZE	D	Z	L
2"	160	3	147
2-1/2"	180	3	147
3"	200	4	147
4"	220	4	147
5"	250	4	167
6"	275	4	225

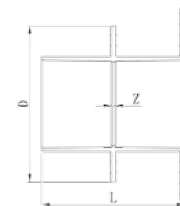


### 雙層止水板接頭

#### Coupling With Double Waterstop Board

單位: mm

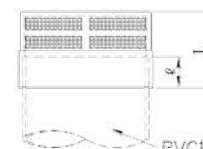
規格 SIZE	D	D1	Z	L
5"	240	240	4	148



### 通氣口接頭 AIR VENT

單位: mm

規格 SIZE	∠	L
2"	22	50
2-1/2"	22	52
3"	22	54



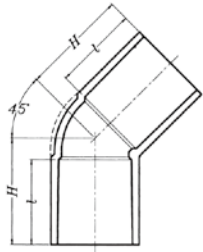
PVC排氣管  
PVC exhaust pipe

# 7 下水道及排水用接頭規格

## Specification of PVC-U Fittings for Sewerage & Drainage

### 45° L 型接頭 45° ELBOW

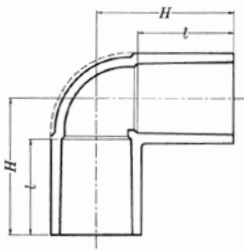
單位: mm



規格 SIZE	∠	H
40 1 1/2"	55	69
50 2"	63	80
65 2 1/2"	69	90
80 3"	72	95
90 3 1/2"	80	105
100 4"	92	121
125 5"	112	150
150 6"	140	185
200 8"	172	224
250 10"	185	248

### 90° L 型接頭 90° ELBOW

單位: mm

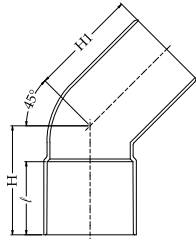


規格 SIZE	∠	H
40 1 1/2"	55	82
50 2"	63	96
65 2 1/2"	69	110
80 3"	72	120
90 3 1/2"	80	135
100 4"	92	152
125 5"	112	188
150 6"	140	228
200 8"	172	288
250 10"	185	326

### 45° L 型單放口(厚)接頭

### 45° ELBOW WITH SPIGOT END

單位: mm



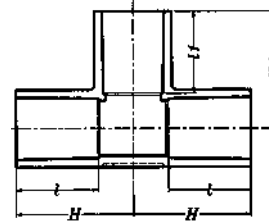
規格 SIZE	∠	H	H1
2"X4.0mm	63	85	85
3"X5.5mm	72	95	95
4"X7.0mm	92	121	121
5"X7.5mm	112	148	148
6"X8.5mm	140	185	180

註/Remark:

1. 製品亦可依點線製造。
2. 橘色製品係下水道用。
1. Production can follow the instructions along dashed lines as well.
2. Orange fitting is used for sewerage.

### T型接頭 TEE

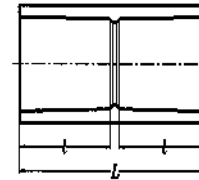
單位: mm



規格 SIZE	∠	∠1	H	H1
40X40 1 1/2"	55	55	82	82
50X25 2"X1"W	63	40	81	73
50X28 2"X1"	63	40	82	74
50X35 2"X1 1/4"	63	44	86	77
50X40 2"X1 1/2"	63	55	90	88
50X50 2"	63	63	96	96
65X40 2 1/2"X1 1/2"	69	55	96	96
65X50 2 1/2"X2"	69	63	102	104
65X65 2 1/2"	69	69	110	110
80X40 3"X1 1/2"	72	55	100	102
80X50 3"X2"	72	63	105	110
80X65 3"X2 1/2"	72	69	113	117
80X80 3"	72	72	120	120
90X90 3 1/2"	80	80	135	135
100X40 4"X1 1/2"	92	55	120	115
100X50 4"X2"	92	63	125	122
100X80 4"X3"	92	72	140	132
100X100 4"	92	92	152	152
125X80 5"X3"	112	72	160	148
125X100 5"X4"	112	92	174	168
125X125 5"	112	112	188	188
150X80 6"X3"	140	72	193	160
150X100 6"X4"	140	92	202	182
150X125 6"X5"	140	112	214.5	200
150X150 6"	140	140	228	228
200X100 8"X4"	172	92	236.5	204
200X150 8"X6"	172	140	264	252
200X200 8"	172	172	287.5	287
250X250 10"	185	185	325	325

### 同徑普通接頭 COUPLING

單位: mm



規格 SIZE	∠	L
40 1 1/2"	55	117
50 2"	63	133
65 2 1/2"	69	147
80 3"	72	155
90 3 1/2"	80	166
100 4"	92	200
125 5"	112	235
150 6"	140	300
200 8"	172	360
250 10"	185	400

註/Remark:

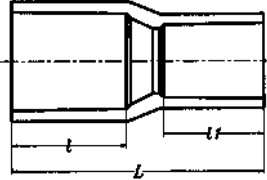
1. 製品亦可依點線製造。
2. 橘色製品係下水道用。
1. Production can follow the instructions along dashed lines as well.
2. Orange fitting is used for sewerage.

# 7 下水道及排水用接頭規格

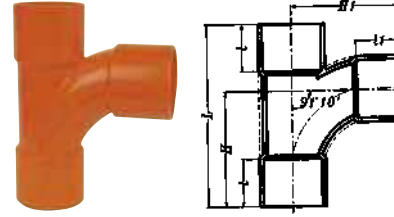
## Specification of PVC-U Fittings for Sewerage & Drainage

### 異徑普通接頭 REDUCER COUPLING

單位: mm



規格 SIZE	∠	∠1	L
50X40 2"X1 1/2"	63	55	136
65X40 2 1/2"X1 1/2"	69	55	150
65X50 2 1/2"X2"	69	63	153
80X40 3"X1 1/2"	72	55	165
80X50 3"X2"	72	63	165
80X65 3"X2 1/2"	72	69	165
100X40 4"X1 1/2"	92	55	190
100X50 4"X2"	92	63	208
100X80 4"X3"	92	72	190
125X80 5"X3"	112	72	210
125X100 5"X4"	112	92	225
150X80 6"X3"	140	72	260
150X100 6"X4"	140	92	280
150X125 6"X5"	140	112	295
200X100 8"X4"	172	92	340
200X125 8"X5"	172	112	345
200X150 8"X6"	172	140	350
250X200 10"X8"	185	172	420
300X200 12"X8"	230	172	495



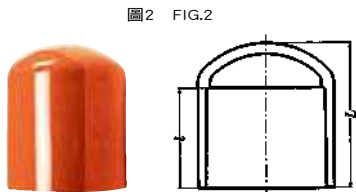
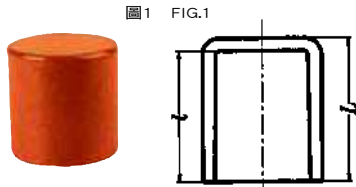
### 順T接頭 SANITARY TEE

單位: mm

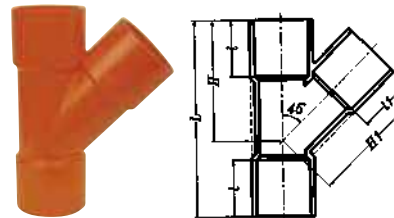
規格 SIZE	∠	∠1	H	H1	L
40X40 1 1/2"	55	55	111	111	180
50X40 2"X1 1/2"	63	55	114	118	192
50X50 2"	63	63	114	127	200
65X50 2 1/2"X2"	69	63	128	130	218
65X65 2 1/2"	69	69	132	140	234
80X50 3"X2"	72	63	140	145	235
80X80 3"	72	72	177	172	280
100X50 4"X2"	92	63	154	152	270
100X80 4"X3"	92	72	194	182	318
100X1004"	92	92	224	219	355
125X80 5"X3"	112	72	235	198	350
125X1005"X4"	112	92	235	219	388
125X1255"	112	112	252	233	416
150X50 6"X2"	140	63	215	180	420
150X80 6"X3"	130	72	230	207	420
150X1006"X4"	130	92	246	234	425
150X1256"X5"	140	112	273	252	468
150X1506"	140	140	290	295	495
200X50 8"X2"	172	63	245	210	440
200X80 8"X3"	172	72	265	235	470
200X1008"X4"	172	92	262	263	510
200X1508"X6"	172	140	307	320	560
200X2008"	172	172	347	360	615
250X15010"X6"	185	140	332	345	588

### 塞頭 CAP

單位: mm



規格 SIZE	∠	L	備註 REMARK
40 1 1/2"	55	59.5	圖1 FIG.1
50 2"	63	68	圖1 FIG.1
65 2 1/2"	69	100	圖2 FIG.2
80 3"	72	107	圖2 FIG.2
90 3 1/2"	80	120	圖2 FIG.2
100 4"	92	138	圖2 FIG.2
125 5"	112	168	圖2 FIG.2
150 6"	140	205	圖2 FIG.2
200 8"	172	260	圖2 FIG.2
250 10"	185	295	圖2 FIG.2



### 45°Y型接頭 45°WYE

單位: mm

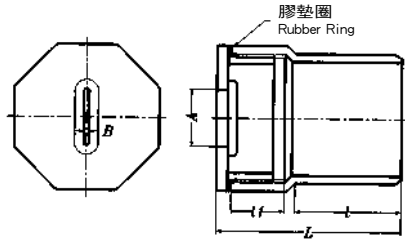
規格 SIZE	∠	∠1	H	H1	L
40X40 1 1/2"	55	55	116	119	185
50X40 2"X1 1/2"	63	55	132	128	202
50X50 2"	63	63	141	142	220
65X50 2 1/2"X2"	69	63	148	152	230
80X50 3"X2"	72	63	164	164	239
80X80 3"	72	72	180	188	280
100X50 4"X2"	92	63	195	185	285
100X80 4"X3"	92	72	213	202	319
100X100 4"	92	92	230	240	355
125X50 5"X2"	112	63	233	192	337
125X80 5"X3"	112	72	252	216	372
125X100 5"X4"	112	92	272	252	415
125X125 5"	112	112	282	292	434
150X50 6"X2"	140	63	270	228	385
150X80 6"X3"	130	72	282	240	412
150X100 6"X4"	130	92	294	274	435
150X125 6"X5"	140	112	322	310	500
150X150 6"	140	140	344	352	530
200X50 8"X2"	172	63	327	258	445
200X80 8"X3"	172	72	345	282	485
200X100 8"X4"	172	92	362	316	520
200X150 8"X6"	172	140	400	394	600
200X200 8"	172	172	446	433	690
250X150 10"X6"	185	140	450	430	625

註/Remark:

- 橘紅色製品係下水道用。
- 製品亦可依點線製造。
- Sewerage use are reddish-orange color.
- Production can follow the instructions along dashed lines as well.

# 7 下水道及排水用接頭規格

## Specification of PVC-U Fittings for Sewerage & Drainage



### 清除孔接頭 CLEANOUT BUSHING

單位: mm

規格 SIZE	A	B	∠	∠1	L
50 2"	30	4.5	59	25	98
80 3"	50	4.5	75	38	131
100 4"	50	4.5	93	47	164
125 5"	80	10	120	50	194
150 6"	125	10	128	50	204
200 8"	160	10	175	50	255

註/Remark:

清除孔接頭本體與蓋之間所套入橡膠墊圈，於每次使用後應鎖緊，以防漏水。

In order to against the leakage of rubber ring between cleanout bushing body and cap, please screw the cleanout cap on the cleanout bushing body tightly.



### P 型存水接頭

#### "P" TRAP WITH SOLVENT WELDJOINT AND CLEANOUT PLUG

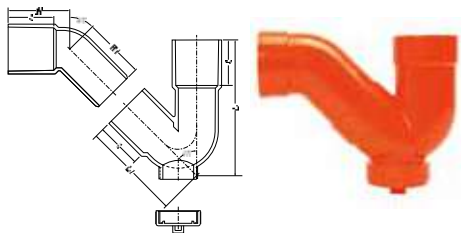
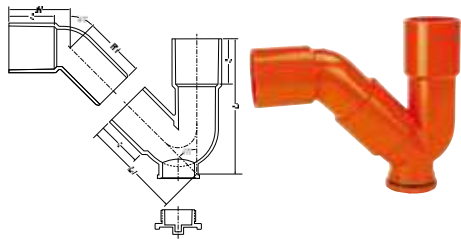
單位: mm

規格 SIZE	∠	H	L1	H1	L
1 1/2" X 2mm (1 1/4" 內大牙)	22	37	80	37	102
2" X 2mm (1 3/4" 內大牙)	25	50	100	75.5	137
2" X 4mm (1 3/4" 內大牙)	63	85	138	85	195

註/Remark:

橘紅色製品係下水道用。

Sewerage use are reddish-orange color.



單位: mm

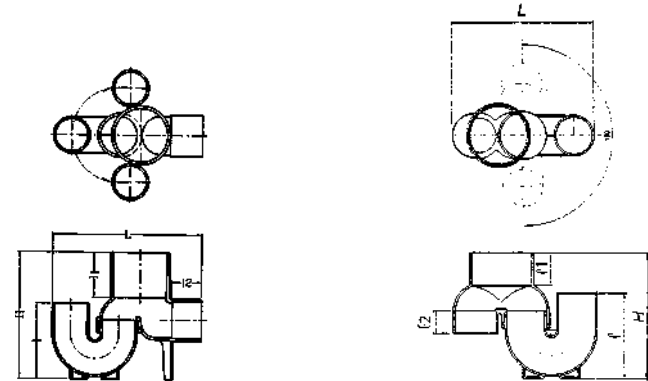
規格 SIZE	∠	H	L1	H1	L
1 1/2" X 2mm (1 1/4" 外大牙)	22	37	80	37	102
2" X 2mm (1 3/4" 外大牙)	25	50	100	75.5	137
2" X 4mm (1 3/4" 外大牙)	63	85	138	85	195

### 污水防臭接頭 JUNCTION WITH ODOR TRAP

#### 本體

單位: mm

規格 SIZE	H	L	∠	∠1	∠2
(A型) 100x150 4"X6"	398	457	234.5	140	92
(B型) 100x150 4"X6"	305	402	234.5	50	50



A型  
TYPE A



B型  
TYPE B

# 7 衛生下水道用PVC-U匯流井規格

## Specification of PVC-U Inspection Chambers for Sewerage



### 45YS-UT



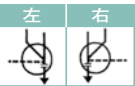
#### 單接糞管及存水彎側通匯流井 45° confluence with trap

型號	標稱管徑(mm)			
	用戶接管	匯流管	豎井	TSS規格
45YS-UT(右) 100x80Sx100-150	100x80S	100	150	●
45YS-UT(右) 100x80Px100-150	100x80P	100	150	●
45YS-UT(左) 100x80Sx100-150	100x80S	100	150	●
45YS-UT(左) 100x80Px100-150	100x80P	100	150	●

註：1. 80存水彎末尾S者，其接管端為承口型，末尾P者，其接管端為插口型。  
2. 存水彎可視配管需要旋轉調整角度。



### HYS



#### 單接糞管側通匯流井 Parallel and 90° confluence

型號	標稱管徑(mm)			
	用戶接管	匯流管	豎井	TSS規格
HYS(右) 100x100-150	100	100	150	●
HYS(左) 100x100-150	100	100	150	●

註：45°L承口可視配管需要旋轉調整角度。



### UTW



#### 雙接存水彎匯流井 Double access trap

型號	標稱管徑(mm)			
	用戶接管	匯流管	豎井	TSS規格
UTW(右) 80Sx80Sx100-150	80Sx80S	100	150	●
UTW(右) 80Px80Px100-150	80Px80P	100	150	●
UTW(左) 80Sx80Sx100-150	80Sx80S	100	150	●
UTW(左) 80Px80Px100-150	80Px80P	100	150	●

註：1. 80存水彎末尾S者，其接管端為承口型，末尾P者，其接管端為插口型。  
2. 存水彎可視配管需要旋轉調整角度。



### 90L

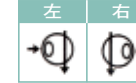


#### 90°彎管匯流井 90° Turn

型號	標稱管徑(mm)			
	用戶接管	匯流管	豎井	TSS規格
90°L(右)100-150	—	100	150	●
90°L(左)100-150	—	100	150	●



### UT



#### 單接存水彎匯流井 Single access trap

型號	標稱管徑(mm)			
	用戶接管	匯流管	豎井	TSS規格
UT(右) 100x100-150	100	100	150	●
UT(左) 100x100-150	100	100	150	●

註：存水彎可視配管需要旋轉調整角度。



### ST



#### 直型匯流井 Straight

型號	標稱管徑(mm)			
	用戶接管	匯流管	豎井	TSS規格
ST 100-150	—	100	150	●



### WLS



#### 兩側合流匯流井 Left and right confluence

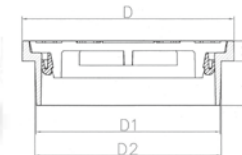
型號	標稱管徑(mm)			
	用戶接管	匯流管	豎井	TSS規格
WLS 100-150	—	100	150	●



#### 異徑轉接頭 Adapter

單位：mm

規格	ℓ	L
80x50	25	40
100x50	25	50
100x80	40	50



#### 匯流井蓋 Chamber cover

單位：mm

規格	D	D1	D2	L	H
100	114	99	100.2	24	11
150	165	145	146.5	35	16

## 8 (1)南亞硬質膠合劑

### (1) Nan Ya Vinyl Adhesive

南亞牌硬質膠合劑是硬管、接頭等硬質PVC-U管專用的粘著劑，因具有優異的粘著強度，可適用於各種氣溫下之PVC-U管線施工，其產品品質、物性，皆可符合CNS 6224標準。管線完成膠合施工後，膠合強固期間不能移動，常溫下24小時內即可通水，但氣溫在5°C以下之低溫施工時，膠合施工後，需經48小時後再通水。

#### ■禁止食用

#### ■包裝類別

180KG、16KG、1KG、500G、100G

■硬質膠合劑為適用於硬質PVC-U管、接頭專用的粘著劑，不可與其他材質混用。

NAN YA Vinyl Adhesive was reserved for the uses of rigid PVC-U products, as PVC-U pipe, PVC-U fitting etc. It suits the installation of PVC-U pipe lines during different temperatures, by the way the product's qualities and physical properties are all apply to standard CNS 6224.

When the PVC-U pipe lines were installed by NAN YA Vinyl Adhesive, the PVC-U pipe lines will start to transfer water after wait for 24 hours. But if the temperature is under 5°C, the PVC-U pipe lines need to keep 48 hours waiting after installed, then start to transfer water.

#### ■No Eating

#### ■Packing Category :

180KG, 16KG, 1KG, 500G, 100G



## 8 (2)南亞高耐衝擊PVC-U膠合劑

### (2) Nan Ya High Impact Vinyl Adhesive

南亞牌高耐衝擊PVC-U膠合劑為HI耐衝擊PVC-U管、接頭的專用接著膠合劑，其接著強度超高，約為硬質膠合劑的4倍，使用時接合物不需加熱以冷間就可接合施工，另在任何氣溫下仍可施工使用。HI耐衝擊PVC-U管、接頭的接合施工，皆應採用本項高耐衝擊PVC-U膠合劑。

#### ■禁止食用、遠離孩童

#### ■包裝類別

1KG

NAN YA High Impact Vinyl Adhesive was reserved for the uses of high impact products, as high impact PVC-U pipe, high impact PVC-U fitting etc. It suits the installation of high impact PVC-U pipe lines during different temperatures, by the way the product's qualities and physical properties are excellence.

#### ■No Eating

#### ■Packing Category :

1KG



# 9 ISO 9001 品質認證合格證書

## ISO 9001 quality certification



# 10 各項CNS產品通過正字標記認證證書

## CNS certification for all products



# ISO 14001 品質認證合格證書

## ISO 14001 quality certification

