

產品外觀

PRODUCT APPEARANCE

德國 DIN 74324 技術規格製造之尼龍管材
Nylon Tubing Manufactured to German
DIN 74324 Specifications



訂購代號

ORDER NO.

DIN	4*6	100	BU
系列	內外管徑	長度	顏色
DIN	4*6 mm	25 M	BU 藍色
	6*8 mm	50 M	BK 黑色
	6*9 mm	100 M	R 紅色
	6*10 mm		Y 黃色
	7*10 mm		
	7.5*10 mm		
	8*10 mm		
	9*12 mm		
	10*14 mm		
	12*15 mm		

特點

FEATURES

- 管材外形穩定，不易因壓力變化而變形
Maintains dimensional stability and resists deformation caused by pressure fluctuations.
- 產品依據 DIN 74324 規範進行製造與品質控制，並依標準要求設計管材結構及耐壓性能，使其在規定的壓力與溫度範圍內維持穩定且一致的物理與機械性能
Manufactured in accordance with DIN 74324, with the tubing construction and pressure performance designed to meet the standard requirements, ensuring stable and consistent physical and mechanical properties within the specified pressure and temperature ranges.

適用範圍

APPLICATIONS

- 適用於商用車氣壓煞車系統，以及重型車輛的氣壓煞車與氣動控制系統
Designed for use in air brake and pneumatic control systems for commercial and heavy-duty vehicles.

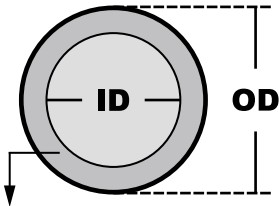
公制尺寸

Metric Size

型 號 TYPE	管材內徑 Tube I.D.	管材外徑 Tube O.D.	管壁厚度 Wall Thickness	23°C 工作壓力 Working Pressure at 23°C	23°C 爆破壓力 Burst Pressure at 23°C	每米重量 Weight (g/m)	長度 Length (m)
DIN-4*6	4 mm	6 mm	1 mm	36 bar	108 bar	16.1	25 / 50 / 100
DIN-6*8	6 mm	8 mm	1 mm	25 bar	75 bar	22.5	25 / 50 / 100
DIN-6*9	6 mm	9 mm	1.5 mm	36 bar	108 bar	36.2	25 / 50 / 100
DIN-6*10	6 mm	10 mm	2 mm	45 bar	135 bar	51.5	25 / 50 / 100
DIN-7*10	7 mm	10 mm	1.5 mm	31 bar	93 bar	41	25 / 50 / 100
DIN-7.5*10	7.5 mm	10 mm	1.25 mm	25 bar	75 bar	35.2	25 / 50 / 100
DIN-8*10	8 mm	10 mm	1 mm	20 bar	60 bar	29	25 / 50 / 100
DIN-9*12	9 mm	12 mm	1.5 mm	25 bar	75 bar	50.7	25 / 50 / 100
DIN-10*14	10 mm	14 mm	2 mm	30 bar	90 bar	77.2	25 / 50 / 100
DIN-12*15	12 mm	15 mm	1.5 mm	20 bar	60 bar	65.2	25 / 50 / 100
DIN-12*16	12 mm	16 mm	2 mm	25 bar	75 bar	90.1	25 / 50 / 100
DIN-14*18	14 mm	18 mm	2 mm	75 bar	66 bar	103	25 / 50 / 100

溫度範圍 Temperature Range	-40°C~80°C / -40°F~176°F
材質 Material	聚醯胺 Polyamide (PA)

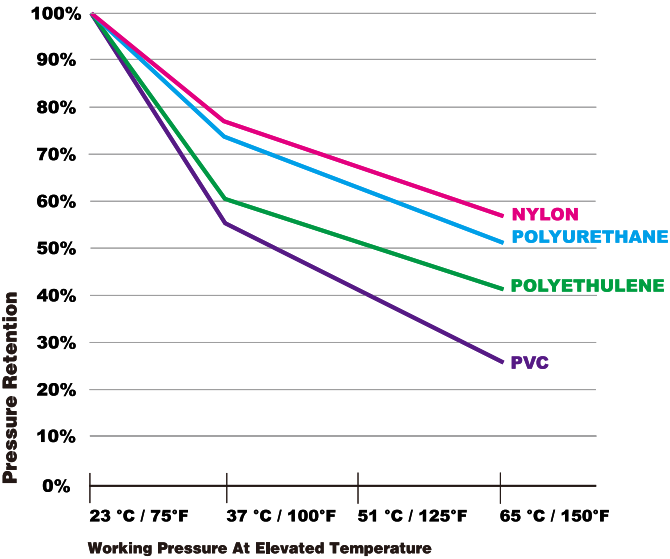
Tubing



Wall Thickness

技術圖表

TECHNICAL CHARTS



產品外觀

PRODUCT APPEARANCE

美國 SAE J844 技術規格製造之尼龍管材
Nylon Tubing Manufactured to SAE
J844 Specifications



訂購代號

ORDER NO.

SAE	0.170*1/4	100	BU	A
系列	內外管徑	長度	顏色	
SAE	0.079*1/8	100 M	BU 藍色	A 含線紗補強
	0.092*5/32	500 M	BK 黑色	B 無線紗補強
	0.117*3/16	1000 M	R 紅色	
	0.170*1/4		Y 黃色	
	0.232*5/16		OR 橘色	
	0.251*3/8		G 綠色	
	0.376*1/2			
	0.441*5/8			
	0.566*3/4			

特點

FEATURES

- 管材外形穩定，不易因壓力變化而變形
Maintains dimensional stability and resists deformation caused by pressure fluctuations.
- 產品依據 SAE J844 規範進行製造與品質控制，並依標準要求設計管材結構及耐壓性能，使其在規定的壓力與溫度範圍內維持穩定且一致的物理與機械性能
The tubing is manufactured and quality controlled in accordance with SAE J844. Its construction and pressure performance are designed to comply with the standard, ensuring stable and consistent physical and mechanical properties throughout the specified pressure and temperature ranges.

適用範圍

APPLICATIONS

- 適用於汽車及商用車氣壓系統，並符合 SAE J844 規範之北美車用管路應用
Suitable for automotive and commercial vehicle air systems, meeting SAE J844 requirements for North American vehicle applications.

英制尺寸

Inch Size

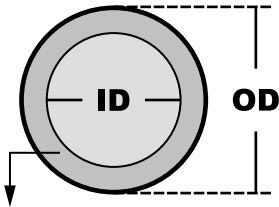
型 號 TYPE	管材內徑 Tube I.D.	管材外徑 Tube O.D.	管壁厚度 Wall Thickness	75°F 工作壓力 Working Pressure at 75°F	75°F 爆破壓力 Burst Pressure at 75°F	彎曲半徑 Min. Bending Radius	每米重量 Weight (lb/ft)
SAE-07918	0.079	1/8"	0.02 inch	330 psi	1000 psi	3/8"	0.003
SAE-092532	0.092	5/32"	0.03 inch	400 psi	1200 psi	1/2"	0.006
SAE-117316	0.117	3/16"	0.04 inch	400 psi	1200 psi	3/4"	0.008
SAE-17014	0.170	1/4"	0.04 inch	400 psi	1200 psi	1"	0.012
SAE-232516	0.232	5/16"	0.04 inch	330 psi	1000 psi	1 1/4"	0.015
SAE-25138	0.251	3/8"	0.06 inch	465 psi	1400 psi	1 1/2"	0.027
SAE-37612	0.376	1/2"	0.06 inch	320 psi	950 psi	2"	0.037
SAE-44158	0.441	5/8"	0.09 inch	300 psi	900 psi	2 1/2"	0.069
SAE-56634	0.566	3/4"	0.09 inch	265 psi	800 psi	3"	0.085

溫度範圍 Temperature Range	-40°C~80°C / -40°F~176°F
材質 Material	特殊尼龍材質 Specially formulated nylon material

TYPE A

無紗線補強

Tubing

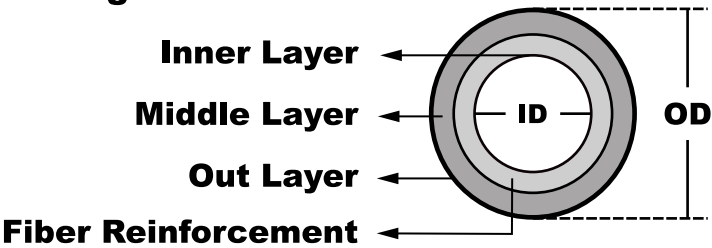


Wall Thickness

TYPE B

含紗線補強

Tubing



氣壓煞車直管介紹

Straight Air Brake Tubing Overview

氣壓煞車管為商用車氣壓煞車系統的重要管路元件，用於傳輸壓縮空氣，將氣壓穩定傳遞至各制動裝置，以確保系統正常運作。

卡車、拖車、公車及聯結車等大型商用車多採用氣壓煞車系統作為主要制動方式，其系統主要由空氣壓縮機、儲氣筒、控制閥、制動裝置及管路等元件組成。

氣壓煞車直管通常安裝於車輛底盤的固定配管位置，多採用尼龍（Nylon）材料製成，具備穩定的耐壓性能及良好的環境適應能力。

Air brake tubing is a key component of commercial vehicle air brake systems, designed to transmit compressed air and deliver air pressure reliably to braking devices for proper system operation.

Heavy-duty commercial vehicles, including trucks, trailers, buses, and semi-trailers, commonly use air brake systems as their primary braking system. These systems typically consist of an air compressor, air reservoirs, control valves, braking devices, and air tubing.

Straight air brake tubing is typically installed in fixed chassis routing and is commonly manufactured from nylon to provide stable pressure resistance and reliable performance under various operating environments.

管材性能比較

Tubing Material Comparison

型 號 TYPE	DIN 氣壓煞車管 DIN Air Brake Tubing	SAE 氣壓煞車管 SAE Air Brake Tubing
管材材質 Material	PA12 尼龍材質 PA12 nylon material	特殊尼龍材質 Specially formulated nylon material
適用規範 Applicable Standards	管材符合 DIN 73378 / DIN 74324 Tubing complies with DIN 73378 and DIN 74324	符合 SAE J844 / D.O.T. FMVSS 106 Complies with SAE J844 and D.O.T. FMVSS 106
建議用途 Recommended Applications	適用於歐洲車用氣壓煞車系統 For European vehicle air brake systems	適用於北美車用氣壓煞車系統 For North American vehicle air brake systems
尺寸系統 Dimension System	公制尺寸 Metric Size	英制尺寸 Inch Size

產品符合不同地區之標準規範，可依實際應用需求及規格選擇適用型號

Products comply with different regional standards. Select the appropriate model based on application requirements and specifications.

備註

NOTES

- 評等僅供材料特性比較參考
Ratings are provided for material performance comparison only.
- 如有特殊應用需求，請洽詢本公司技術人員
Please contact our technical team for special application requirements.