

荆州市天宇汽车配件有限公司



Jingzhou Tianyu Auto Parts Co., Ltd.

Product Catalogue



Jingzhou Tianyu Auto Parts Co., Ltd.

Contents

- Cold-rolled & copper plated steel strip
- Double wall steel tube
- Single wall steel tube
- Zinc-plated tube
- Algal tube
- PVF tube
- PA12 tube
- Cupro Nickel tube
- Stainless tube
- Brake line
- Tube assembly
- Tube nuts
- Engine and Engine Compartment Pipe assembly
- Commercial Vehicle Tube Assembly
- Stainless Steel Intake and Exhaust Tube for Commercial Vehicles
- Differential Pressure Tube





Jingzhou Tianyu Auto Parts Co., Ltd.

➤ Cold-rolled & copper plated steel strip

- Copper plating on the surface of steel strip, uniformity of thickness, suitable for single wall and double wall steel tube production.
- Chemical composition:
C: 0.025-0.05 Mn: 0.2-0.5 Al: 0.02-0.05 Si: ≤ 0.02 S: ≤ 0.015 P: ≤ 0.015





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➤ Cold-rolled & copper plated steel strip

Tube Diameter (mm)	Wall Thickness (mm)	Tolerance (mm)	Width (mm)	Tolerance (mm)	Burr (mm)	Coil ID (mm)
4.76/6/6.36/8/10/12 X 0.70	0.35	±0.012	240/250/266	+0.5	≤0.06	450-500
10 X 1.0	0.50	±0.012	220	+0.5	≤0.06	450-500
12 X 1.0	0.50	±0.012	220	+0.5	≤0.06	450-500

Item	Standard
Tensile strength (MPa)	270-370
Yield strength (MPa)	180-260
Elongation (%)	32
Hardness (HR30T)	46-52



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➤ Double-wall steel tube

- Coated with copper on both sides of the steel strip, and brazed after coiled by 720°.
- Good inner surface cleanness, high strength and elongation, and fine process ability.
- Higher anti-pressure explosion and anti-corrosion performance.
- Can supply in coils or by cut-to-length as per customer requirements.





Jingzhou Tianyu Auto Parts Co., Ltd.

➤ Double-wall steel tube

OD (mm)	Tolerance (mm)	Wall Thickness (mm)	Tolerance (mm)	Burst Pressure (Mpa)	Elongation (%)	Cleanliness (g/M ²)	Tensile Strength (Mpa)	Yield Strength (Mpa)
4.76	±0.05	0.7	±0.08	≥110	≥25	≤0.16	≥290	≥180
6.00	±0.08	0.7	±0.08	≥85				
6.35	±0.08	0.7	±0.08	≥78				
8.00	±0.08	0.7	±0.08	≥67.5				
9.52	±0.1	0.7	±0.08	≥57				
10.00	±0.1	0.7/1.00	±0.08/0.09	≥55/65				
12.00	±0.1	0.7/1.00	±0.08/0.09	≥32/56				
12.7	±0.1	0.7/1.00	±0.08/0.09	≥25/51				



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➤ Single-wall steel tube

- Coiled in 180° after high-frequency welded.
- Mainly used as auto fuel tube and transmission tube after surface treatment.





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➤ Single-wall steel tube

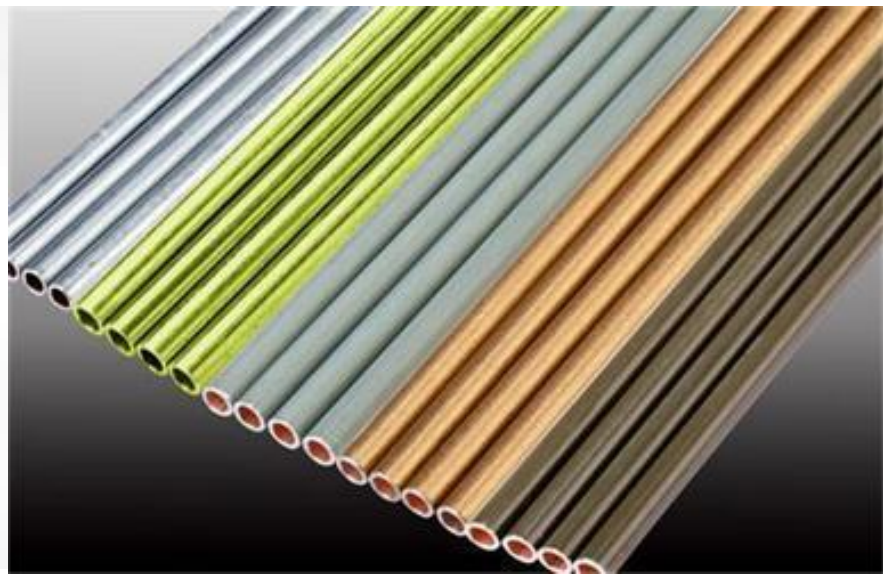
OD (mm)	Tolerance (mm)	Wall Thickness (mm)	Tolerance (mm)
4.76	± 0.05	0.70	+0.05/-0.08
5.00	+0.05/-0.08	0.70	+0.05/-0.08
6.00	± 0.08	0.70	± 0.08
6.35	± 0.08	0.70	± 0.08
8.00	± 0.08	0.70/1.00	± 0.08
9.00	± 0.10	0.70	± 0.08
9.52	± 0.10	0.70/1.00	± 0.08
10.00	± 0.10	0.70/1.00	± 0.08



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➤ Zinc-plated tube

- High density zinc plating will enhance the anti-corrosion performance.
- Trivalent chromate (Cr^{3+}) passivation is also available for environmental.





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➤ Algal tube

- Treated by hot-dip Galfan + Al-rich Epoxy.
- Salt spray test: Over 1000 hours without red rust.
- Used for secondary class automobiles.





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➤ PVF tube

- Made by trivalent chromate ($\text{Cr } 3^+$) passivated processing and chromate-free PVF or PVDF coating.
- Coating is even, strong adhesion, and nice corrosive resistance.
- Salt spray test : Over 1000 hours without red rust.





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➤ PA12 tube

- PA12 coated on the surface of zinc plated tube.
- Passivated by chromate-free and meet environmental requirements.
- Highest corrosion resistance, good impact resistance, and nice appearance.
- Salt spray test: Over 1000 hours without red rust.
- Used on high-class automobiles.





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➤ PA12 tube

Surface Treatment	Abbreviation	Zinc-plate Thickness (μm)	NSS (h) Red Rust
Zinc + white blue passivating	White Zn	≥8	≥192
Zinc + color passivating	Color Zn	6-8	≥192
Zinc + yellow passivating	Yellow Zn	8-12	≥192
Zinc + green passivating	Green Zn	6-8	≥216
Zinc + olive green passivating	Gray Zn	12-15	≥216
Zinc + PVF	PVF	12-25	≥1000
Zinc + PA12	PA12 tube	≥25	≥1000



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➤ Cupro Nickel tube

- Soften tubing for easier bending and flaring.
- Used as Original Equipment by Volvo and Mercedes.
- Meets or exceeds OE specification (.028 Wall) for brake line tubing.





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➤ Stainless tube

- Double annealed to soften tubing for easier bending and flaring.
- Ideal for custom builds, classic cars and more.
- Meets or exceeds OE specification (.028 Wall) for brake line tubing.





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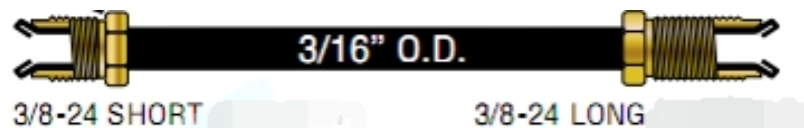
➤ Brake line





Jingzhou Tianyu Auto Parts Co., Ltd.

SAE inverted flare



Description	No.			Standard	
				Tube	Nuts
3/16" X 8"	308ST	308PVF	308CN	GM123 SAE J527 SAE J1650	SAE J1290
3/16" X 12"	312ST	312PVF	312CN		
3/16" X 20"	320ST	320PVF	320CN		
3/16" X 30"	330ST	330PVF	330CN		
3/16" X 40"	340ST	340PVF	340CN		
3/16" X 51"	351ST	351PVF	351CN		
3/16" X 60"	360ST	360PVF	360CN		
3/16" X 72"	372ST	372PVF	372CN		



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SAE inverted flare

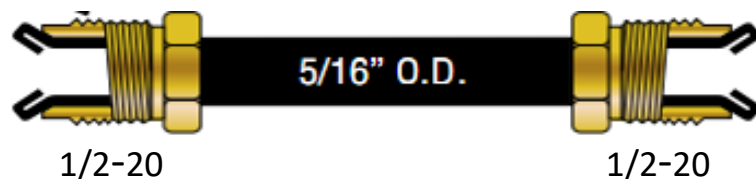


Description	No.			Standard	
				Tube	Nuts
1/4" X 8"	408ST	408PVF	408CN	GM123 SAE J527 SAE J1650	SAE J1290
1/4" X 12"	412ST	412PVF	412CN		
1/4" X 20"	420ST	420PVF	420CN		
1/4" X 30"	430ST	430PVF	430CN		
1/4" X 40"	440ST	440PVF	440CN		
1/4" X 51"	451ST	451PVF	451CN		
1/4" X 60"	460ST	460PVF	460CN		
1/4" X 72"	472ST	472PVF	472CN		



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SAE inverted flare

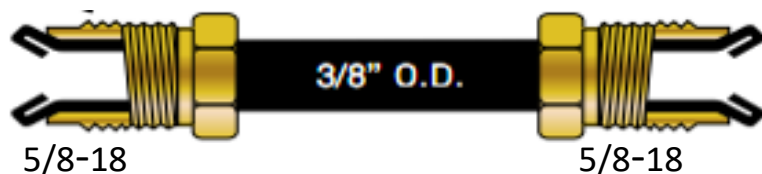


Description	No.			Standard	
				Tube	Nuts
5/16" X 8"	508ST	508PVF	508CN	GM123 SAE J527 SAE J1650	SAE J1290
5/16" X 12"	512ST	512PVF	512CN		
5/16" X 20"	520ST	520PVF	520CN		
5/16" X 30"	530ST	530PVF	530CN		
5/16" X 40"	540ST	540PVF	540CN		
5/16" X 51"	551ST	551PVF	551CN		
5/16" X 60"	560ST	560PVF	560CN		
5/16" X 72"	572ST	572PVF	572CN		



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SAE inverted flare

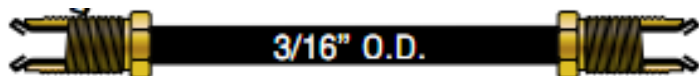


Description	No.			Standard	
				Tube	Nuts
3/8" X 8"	608ST	608PVF	608CN	GM123 SAE J527 SAE J1650	SAE J1290
3/8" X 12"	612ST	612PVF	612CN		
3/8" X 20"	620ST	620PVF	620CN		
3/8" X 30"	630ST	630PVF	630CN		
3/8" X 40"	640ST	640PVF	640CN		
3/8" X 51"	651ST	651PVF	651CN		
3/8" X 60"	660ST	660PVF	660CN		
3/8" X 72"	672ST	672PVF	672CN		



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Japanese brake line



M10X1.0 LONG

M10X1.0 LONG

Description	No.			Standard	
				Tube	Nuts
3/16" X 8"	4308ST	4308PVF	4308CN	GM123 SAE J527 SAE J1650	SAE J1290
3/16" X 12"	4312ST	4312PVF	4312CN		
3/16" X 20"	4320ST	4320PVF	4320CN		
3/16" X 30"	4330ST	4330PVF	4330CN		
3/16" X 40"	4340ST	4340PVF	4340CN		
3/16" X 51"	4351ST	4351PVF	4351CN		
3/16" X 60"	4360ST	4360PVF	4360CN		
3/16" X 72"	4372ST	4372PVF	4372CN		



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British brake line



3/8-24

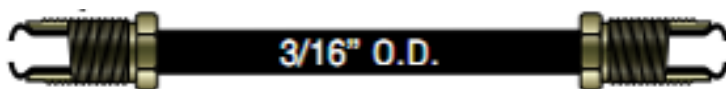
3/8-24

Description	No.			Standard	
				Tube	Nuts
3/16" X 8"	5308ST	5308PVF	5308CN	GM123 SAE J527 SAE J1650	SAE J1290
3/16" X 12"	5312ST	5312PVF	5312CN		
3/16" X 20"	5320ST	5320PVF	5320CN		
3/16" X 30"	5330ST	5330PVF	5330CN		
3/16" X 40"	5340ST	5340PVF	5340CN		
3/16" X 51"	5351ST	5351PVF	5351CN		
3/16" X 60"	5360ST	5360PVF	5360CN		
3/16" X 72"	5372ST	5372PVF	5372CN		



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European brake line



M10X1.0

M10X1.0

Description	No.			Standard	
				Tube	Nuts
3/16" X 8"	6308ST	6308PVF	6308CN	GM123 SAE J527 SAE J1650	SAE J1290
3/16" X 12"	6312ST	6312PVF	6312CN		
3/16" X 20"	6320ST	6320PVF	6320CN		
3/16" X 30"	6330ST	6330PVF	6330CN		
3/16" X 40"	6340ST	6340PVF	6340CN		
3/16" X 51"	6351ST	6351PVF	6351CN		
3/16" X 60"	6360ST	6360PVF	6360CN		
3/16" X 72"	6372ST	6372PVF	6372CN		



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Import Brake line



Description	No.		Standard	
			Tube	Nuts
6mm X 8"	708PVF	708CN	GM123 SAE J527 SAE J1650	SAE J1290
6mm X 12"	712PVF	712CN		
6mm X 20"	720PVF	720CN		
6mm X 30"	730PVF	730CN		
6mm X 40"	740PVF	740CN		
6mm X 51"	751PVF	751CN		
6mm X 60"	760PVF	760CN		
6mm X 72"	772PVF	772CN		



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Adapter brake line



Description	No.			Standard	
				Tube	Nuts
3/16" X 8"	318ST	318PVF	318CN	GM123 SAE J527 SAE J1650	SAE J1290
3/16" X 8"	328ST	328PVF	328CN		
3/16" X 8"	338ST	338PVF	338CN		
3/16" X 8"	348ST	348PVF	348CN		
1/4" X 8"	418ST	418PVF	418CN		
1/4" X 8"	428ST	428PVF	428CN		
1/4" X 8"	438ST	438PVF	438CN		



Jingzhou Tianyu Auto Parts Co., Ltd.

Adapter brake line



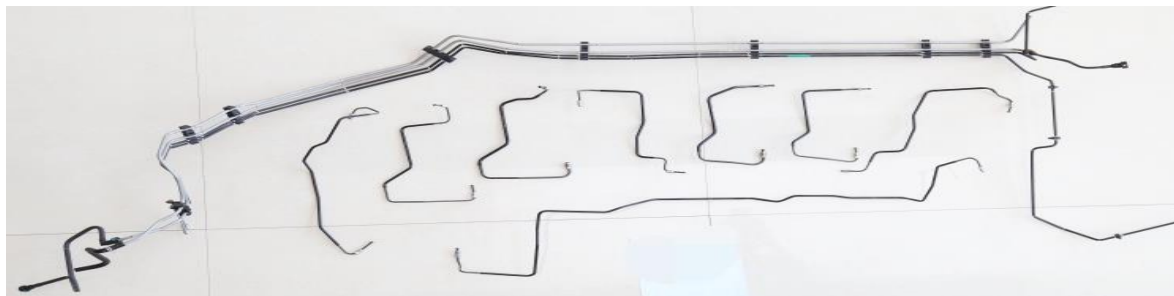
Description	No.		Standard	
			Tube	Nuts
3/16" X 8"	910PVF	910CN	GM123 SAE J527 SAE J1650	SAE J1290
3/16" X 12"	911PVF	911CN		
3/16" X 20"	912PVF	912CN		
3/16" X 30"	913PVF	913CN		
3/16" X 40"	914PVF	914CN		
3/16" X 51"	915PVF	915CN		
3/16" X 60"	916PVF	916CN		



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➤ Tube assembly

We can produce all kinds of tube assemblies according to customers' drawings or requirements.





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➤ Tube nuts

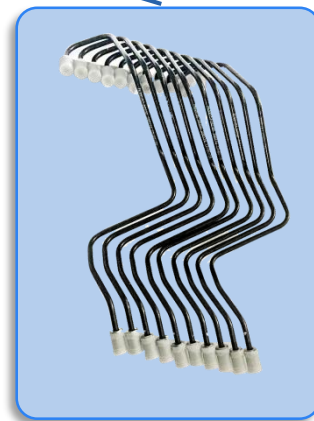
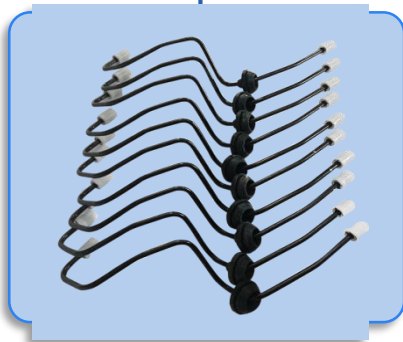
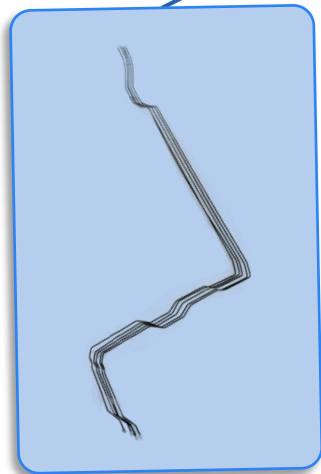
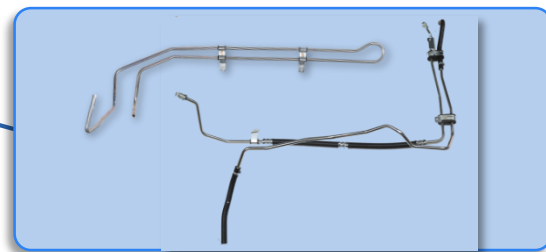
We can supply standard tube nuts from 3/16" to 1/2", metric tube nuts from 10mm to 14mm in thread pitches of 1.0, 1.25, 1.50, 1.75 and 2.0. Can be used in a variety of vehicles.





Jingzhou Tianyu Auto Parts Co., Ltd.

➤ Engine and Engine Compartment Pipe assembly





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➤ Engine and Engine Compartment Pipe assembly

Product	Vehicle Model	Tube	Dimension	Surface Treatment	Picture
Warm air water return pipeline	passenger vehicles	finished steel tube	$\phi 20 \times 1.0$	black electrophoretic paint	
Engine compartment cooling water pipe assembly	electric vehicles	double wall tube	$\phi 15 \times 1.0$	black electrophoretic paint	
Water pump inlet pipe	passenger vehicles	cold-drawn steel tube	$\phi 32 \times 1.0$	black electrophoretic paint	
Rear compartment cooling water pipe assembly	electric vehicles	double wall tube	$\phi 15 \times 1.0$	black electrophoretic paint	
Floor cooling water pipe assembly	electric vehicles	double wall tube	$\phi 15 \times 1.0$	black electrophoretic paint	
EGR cooling water pipe assembly	passenger vehicles	welded tube	$\phi 19 \times 1.2$	Cr3+ rainbow Zinc	



Jingzhou Tianyu Auto Parts Co., Ltd.

➤ Commercial Vehicle Tube





Jingzhou Tianyu Auto Parts Co., Ltd.

➤ Commercial Vehicle Tube

Product	Vehicle Model	Tube	Dimension	Surface Treatment	Picture
Air pipe assembly	Commercial Vehicle	double wall tube	$\phi 15 \times 1.0$	Cr6+ rainbow Zinc	
Oil return serpentine pipe assembly	Commercial Vehicle	double wall tube	$\phi 15 \times 1.0$	Cr6+ rainbow Zinc	
Air pipe assembly (0 Sharp)	Commercial Vehicle	double wall tube	$\phi 15 \times 1.0$	Cr6+ rainbow Zinc	
Air pipe assembly	Commercial Vehicle	seamless steel tube	$\phi 15 \times 1.5$	Olive Zinc coating on inner surface	
Air pipe assembly (0 Sharp)	Commercial Vehicle	seamless steel tube	$\phi 15 \times 1.5$	Olive Zinc coating on inner surface	
Oil return serpentine pipe assembly	Commercial Vehicle	seamless steel tube	$\phi 15 \times 1.5$	Olive Zinc coating on inner surface	
Air pipe assembly (0 Sharp)	Commercial Vehicle	seamless steel tube	$\phi 18 \times 1.5$	Olive Zinc coating on inner surface	
Power cylinder oil pipe assembly	Commercial Vehicle	seamless steel tube	$\phi 12 \times 1.0$	Olive Zinc coating on inner surface	



Jingzhou Tianyu Auto Parts Co., Ltd.

- Stainless Steel Intake and Exhaust Tube for Commercial Vehicles





Jingzhou Tianyu Auto Parts Co., Ltd.

➤ Stainless Steel Intake and Exhaust Tube for Commercial Vehicles

Product	Vehicle Model	Tube	Dimension	Picture
Exhaust Pipe	Commercial Vehicle	stainless steel tube	$\phi 70 \times 1.0$	
Air intake pipe	Commercial Vehicle	stainless steel tube	$\phi 114 \times 1.0$	
Intercooler intake pipe	Commercial Vehicle	stainless steel tube	$\phi 80 \times 1.0$	
Air intake pipe assembly	Commercial Vehicle	stainless steel tube	$\phi 110 \times 1.0$	
Compressor air intake pipe	Commercial Vehicle	stainless steel tube	$\phi 102 \times 1.0$	
Hydrocarbon injection assembly pipe	Commercial Vehicle	stainless steel tube	$\phi 89 \times 2.0$	



Jingzhou Tianyu Auto Parts Co., Ltd.

➤ Differential Pressure Tube

Product	Vehicle Model	Tube	Dimension	Picture
Exhaust Pipe (Differential high pressure hard pipe)	passenger vehicles	stainless steel tube	$\phi 8 \times 1.0$	
Exhaust Pipe (Differential low pressure hard pipe)	passenger vehicles	stainless steel tube	$\phi 8 \times 1.0$	