

Hydraulic Brake Hose Assembly



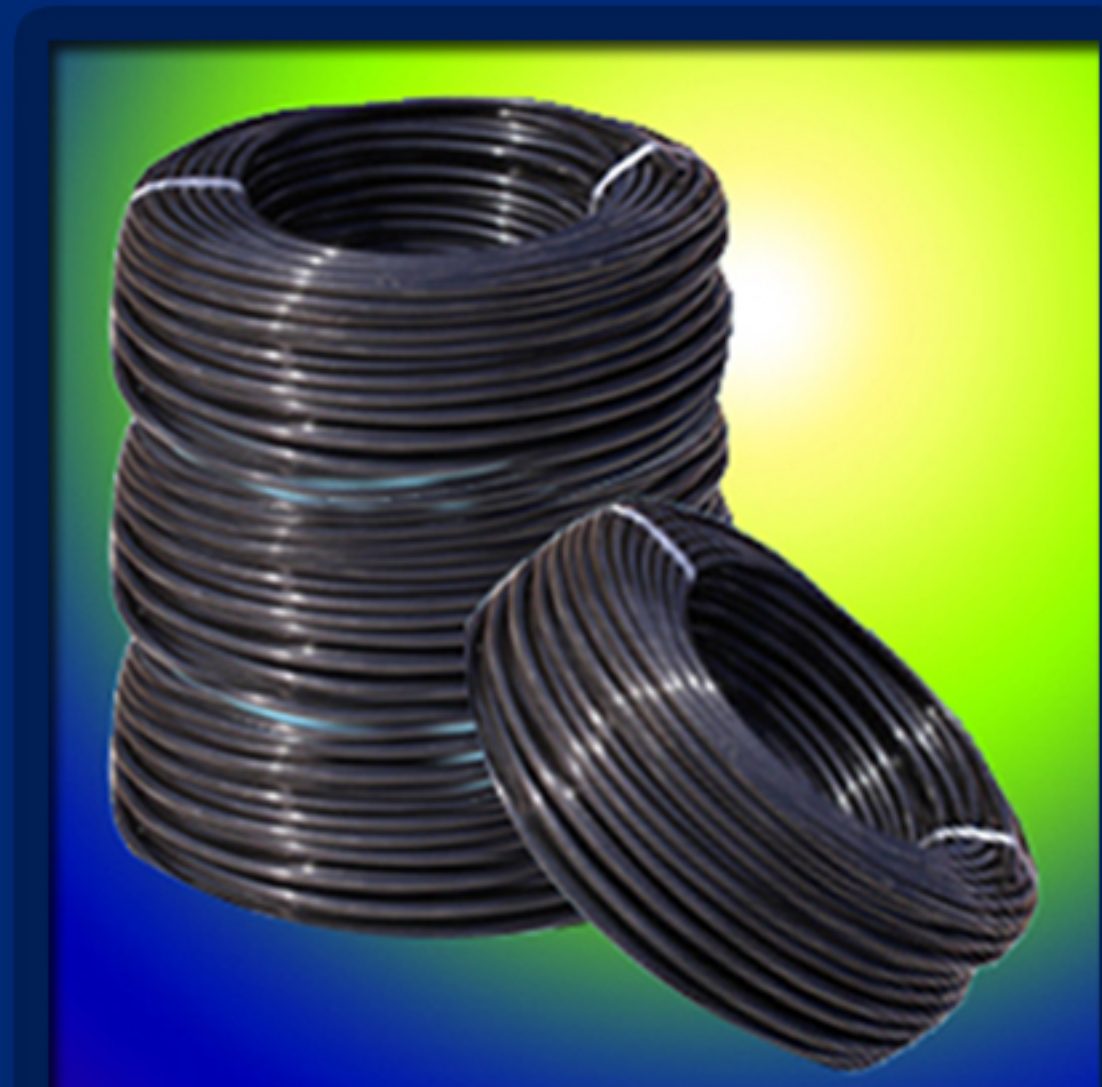
Hydraulic Brake Hose



We offer a wide range of hydraulic brake hoses assembly that find application in hydraulic brake system of motorbike, light truck, forklift, tricycle, scooter and other vehicles. Every piece of brake hose assembly is put to rigid test in the workshop before delivery to guarantee that the products can withstand the most hostile road environments and possible emergent situations. Our products conform to the following standards: FMVSS 106 DOT, SAE J1401, MS-EA70, ESA-M96D4-A, GM6403M, ISO 3996, JIS D2601, FR31302 1973, ADR 7, NTC 977, TL-VW 821 52, GB16897-97. Feature

- * Low volumetric expansion
- * Ozone and UV resistance
- * High corrosion resistance
- * Compatible with FMVSS 116 DOT 3, DOT 4 and most non-petroleum based brake fluids
- * Low and high temperature toughness range -50° C to 121° C
- * Proprietary structure design with three layer rubber and two PVA braided reinforcement

Test Item	SAE J1401 Standard		Test Result
	Test Condition	Standard Result	
Visual inspection		Nothing Abnormal	OK
I.D.		3.2 mm	3.15 – 3.45 mm
O.D.		10.5 mm	10.30 – 10.70 mm
Burst Test	No leakage or blowing off under	≥49 MPa	90 MPa
Volumetric	6.9MPa	≤1.08ml/min	0.562ml/min
Expansion	10.3MPa	≤1.38ml/min	0.783ml/min
Tensile Test	Tensile Speed: 25±3mm/min	≥1446N	2400 N
Brake Fluid	120°C x 72 hr,	No leakage ≥49MPa	80MPa
Compatibility	27.6MPa x 2 min		
Flex Whip Test	Maintain 1.55-1.72MPa	35 hr, no pressure reduction and leakage	80 hr
Ozone Test	100pphm x 70 hr x 40±3 °C , inspect with 7X magnifying glass	No Crack	No Crack
Cold Bend Test	-45 °C ~-48 °C x 72 hr, 3-5s, bending 180°	No Crack or Rupture	No Crack or Rupture
Salt Spray Test	5% NaCl for 24 hr, and clean with 35°C water	No Red Rust on Fittings	No Red Rust on Fittings
Water Aging	Submerge hose in water of 85±2 °C for 70hr~72hr under 27.6MPa x 2min, pressure rate 172.5±69MPa /min	Burst Test >49MPa;	Burst Test >90MPa;
		Whip Test>35hr;	Whip Test>60hr;
		Tensile Test ≥1446N	Tensile Test ≥2400N



Hydraulic Brake Hose Fitting

The fittings and other accessory metal parts are made with mild steel, stainless steel or brass.

Typical Thread

Metric: M10x1, M10x1.25, M12x1.25, M12x1.5, M14x1.5 etc;

Imperial: 3/8x24, 7/16x20, 7/16x24, 5/8x18, 5/8x26 etc.



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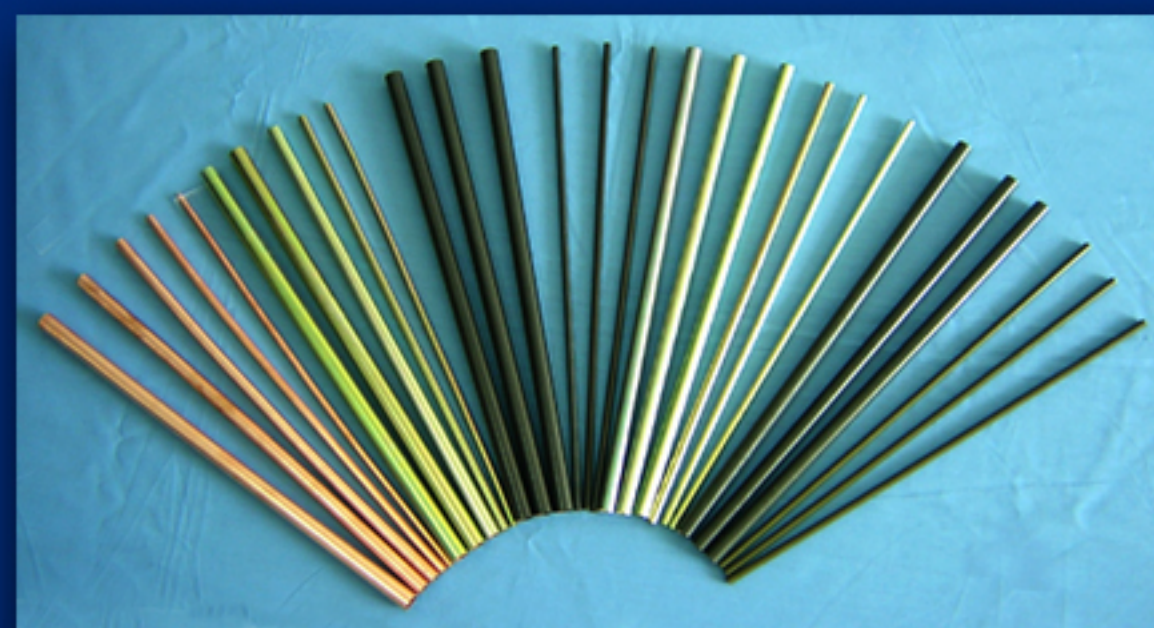
Brake Tube Assembly



Brake Tube

The low carbon steel brake tube is supplied in single wall and double wall (Bundy pipe). The products conform to ASTM A-254-91, A-512-91A and ASTM A214 and A513 in material and quality. Commonly sizes we supply to the client include 4.76mm x 0.7mm, 6.35mm x 0.7mm and 8mm x 0.7mm.

Plating: Yellow Zinc, White Zinc, Copper and PVF. Package: in coils / cut-to-length Application: Hydraulic brake line tubing, brake tubing, brake pipes, fuel lines, transmission oil cooler lines, air conditioning tube, power steering, condenser, compressor, evaporator etc.



Single Wall



Double Wall

Test Item	Technical Standard	Test Result
Outer Dia	$\Phi 4.76 \pm 0.1\text{mm} + \text{Galfan}$	$\Phi 4.76\text{mm}$
Mechanical Property	Tensile Strength $\geq 290\text{MPa}$	296MPa
	Yield Strength $\geq 180\text{MPa}$	190MPa
	Elongation $\geq 20\%$	30%
Wall Thickness	$0.70 \pm 0.1\text{mm}$	0.71mm
Flaring Test	Flaring $\geq 25\%$	30%
Bending Test	Bend 180° in a radius three times of the pipe diameter	No crack or peeling after flaring
Flattening Test	No crack after flattening	No crack
Pressure Test	No leakage when charged with 34.3Mpa nitrogen gas for 1 min	No leakage
Plating Thickness	10-15 μm	20 μm
Salt Spray Test	>500 hours	550 hours

Test Item	Technical Standard	Test Result
Outer Dia	$\Phi 4.76 \pm 0.1\text{mm} + \text{PVF}$	$\Phi 4.79\text{mm}$
Mechanical Property	Tensile Strength $\geq 290\text{MPa}$	296MPa
	Yield Strength $\geq 180\text{MPa}$	190MPa
	Elongation $\geq 20\%$	30%
Wall Thickness	$0.70 \pm 0.1\text{mm}$	0.71mm
Flaring Test	Flaring $\geq 25\%$	30%
Bending Test	Bend 180° in a radius three times of the pipe diameter	No crack or peeling after flaring
Flattening Test	No crack after flattening	No crack
Pressure Test	No leakage when charged with 34.3Mpa nitrogen gas for 1 min	No leakage
Plating Thickness	$\geq 15\mu\text{m}$	22 μm
Salt Spray Test	>2500 hours	3000 hours

Flare Nut



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