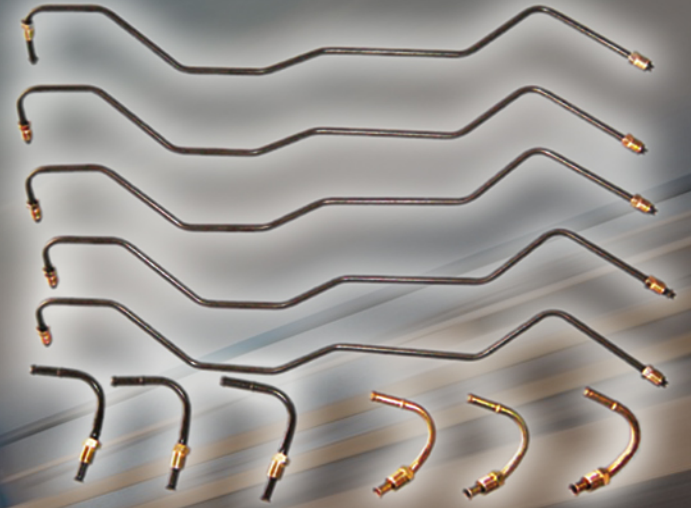


QINGDAO GOFAR MACHINERY PARTS CO., LTD.



GOFAR

ABOUT US

Qingdao Gofar Machinery Parts Co., Ltd. is a leading auto parts manufacturer tracing its beginning to the establishment of a workshop in 2002. Through a decade of development, we have gradually expanded our business and broadened product lines. Currently, we manufacture and trade a full range of GOFAR TM products including hydraulic brake hoses, air brake hoses, power steering hoses polyamide fuel hoses, low carbon steel metal tubes, CNG tubes, hose fittings, brake hose assemblies, which is achieved through expansion of production capacity and cooperation with our business partners. We have obtained ISO/TS16949 automotive quality system management certification and our products conform to US specifications SAEJ1401, SAEJ1402, SAEJ 2260, SAEJ526, SAEJ527 and FMVSS106.

To deliver exceptional customer experience is our philosophy. We prioritize customer satisfaction and build our success on superior quality and competitive price. Our talented engineers and proficient workers are committed to design and manufacture each piece of product in rigid accordance with established standards. As a segment market leader, we are known for our extensive inventory and customized service. Our outstanding technical strength and supply capability enable us to take care of both OEM market and aftermarket in Southeast Asia, Middle East, Western Europe, North American and Latin America.



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BRAKE HOSE ASSEMBLY

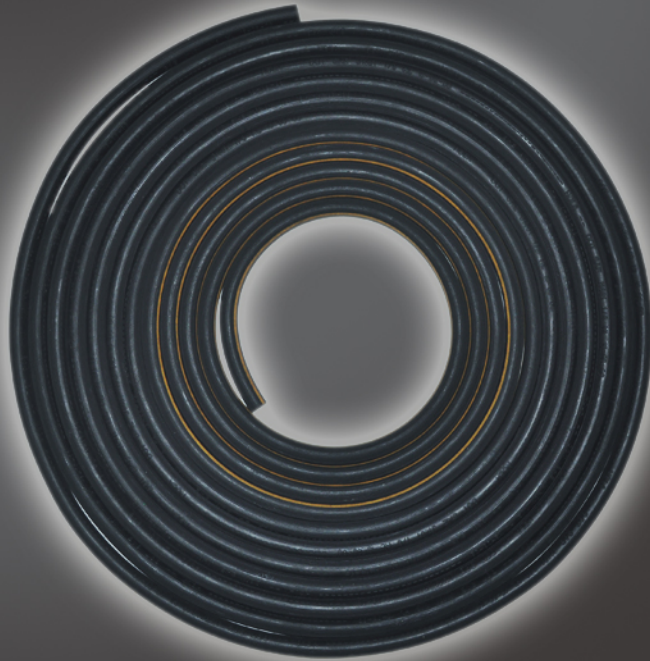
PRODUCT INTRODUCTION

We offer a wide range of hydraulic brake hoses assembly that find application in hydraulic brake system of motorbike, light truck, fork-lift, 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.



BRAKE HOSE ASSEMBLY

HOSE 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
- * Color glue and Bump printed



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BRAKE HOSE ASSEMBLY

TEST REPORT

Test Item	SAE J1401 Standard		Test Result
	Test Condition	Standard Result	
Visual Inspection		Nothing Abnormal	OK
I.D.		3.2mm	3.15-3.45mm
O.D.		10.5mm	10.30-10.70mm
Burst Test	No Leakage or Blowing off under	$\geq 49\text{Mpa}$	90Mpa
Volumetric	6.9Mpa	$\leq 1.08\text{ml/min}$	0.562 ml/min
Expansion	10.3Mpa	$\leq 1.38\text{ ml/min}$	0.783 ml/min
Tensile Test	Tensile Speed $25 \pm 3\text{mm/min}$	$\geq 1446\text{N}$	2400N
Brake Fluid	$120^\circ\text{C} \times 72\text{hr}$	No Leakage $\geq 49\text{Mpa}$	80Mpa
Compatibility	$27.6\text{Mpa} \times 2\text{min}$		
Flex Whip Test	Maintain 1.55-1.72Mpa	35hr, No Pressure Reduction and Leakage	80hr
Ozone Test	$100\text{pphm} \times 70\text{hr} \times 40+3^\circ\text{C}$, Inspect With $7\times$ Magnifying Glass	No Crack	No Crack
Cold Bend Test	$-45^\circ\text{C} \sim -48^\circ\text{C} \times 72\text{hr}$, 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 $85 \pm 2^\circ\text{C}$ for 70~72hr under $27.6\text{Mpa} \times 2\text{min}$; Pressure Rate $172.5 \pm 69\text{Mpa/min}$	Burst Test $> 49\text{Mpa}$	Burst Test $> 90\text{Mpa}$
		Whip Test $> 35\text{hr}$	Whip Test $> 60\text{hr}$
		Tensile Test $\geq 1446\text{N}$	Tensile Test $\geq 2400\text{N}$



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BRAKE HOSE ASSEMBLY

USE CONTRAST

OUR HOSE



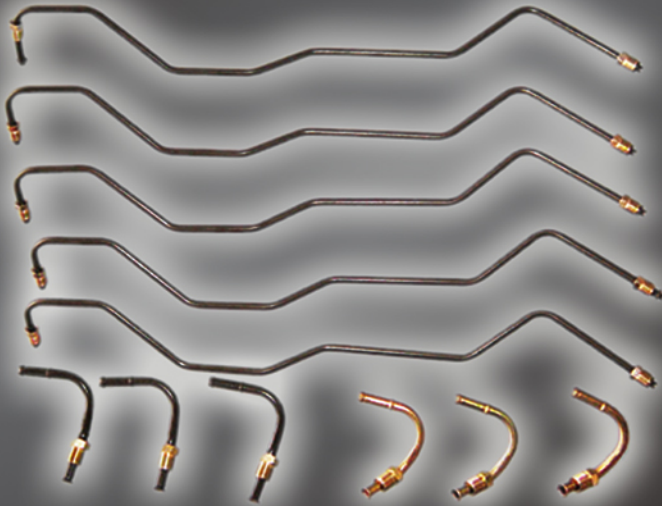
OTHER HOSE



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BRAKE PIPE ASSEMBLY

PRODUCT INTRODUCTION

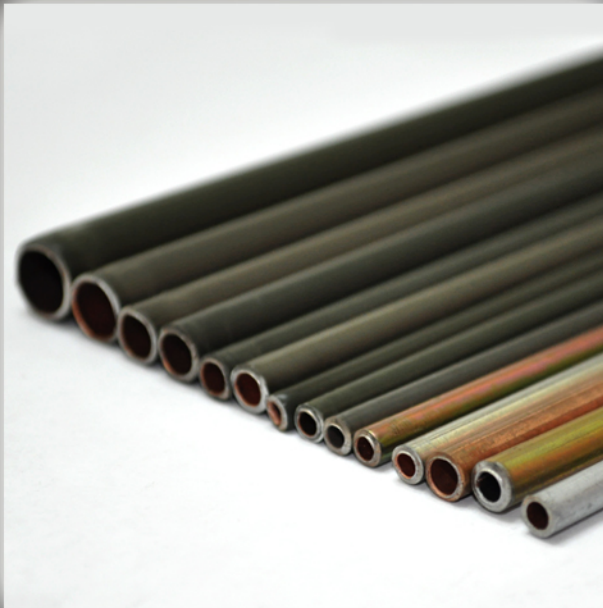


The low carbon steel brake tube is supplied in single wall and double wall (Bundy pipe). The products conform to ASTM A-254-91, A-512-91A and ASTM A214 and A513 in material and quality. Commonly sizes we supply to the client include 4.76mm x 0.7mm, 6mm x 0.7mm, 6.35mm x 0.7mm and 8mm x 0.7mm, 9.52mm x 0.7mm, 10mm x 0.7mm.



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BRAKE PIPE ASSEMBLY



PIPE FEATURE

Plating: Copper, Yellow Zinc, White Zinc, Galfan, Olive Green, PVF and PA.

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.



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BRAKE PIPE ASSEMBLY

SINGLE WALL TEST REPORT

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



BRAKE PIPE ASSEMBLY

DOUBLE WALL TEST REPORT

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 1min	No Leakage
Plating Thickness	$>15\mu\text{m}$	22 μm
Salt Spray Test	>2500 hours	3000 hours




BRAKE HOSE ASSEMBLY

OUR TRANSPORTATION



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