Hydraulic Hose
High quality spiral and wire braid hose for industrial applications
A WORLD LEADER 
IN THE RUBBER INDUSTRY

Bridgestone was founded in 1931 and has grown to become the world’s largest tire and rubber products company, with 179 production facilities in 25 countries and sales networks in over 150 countries.

The company is renowned for its R&D and design capability, exemplified by the success of Bridgestone’s racing tires. This expertise extends to a wide range of products including automotive parts and industrial rubber products such as Hydraulic Hoses.

“Bridgestone... Serving Society with Superior Quality”

Construction
Civil Engineering
Agriculture
Transportation

Hydraulic hoses are used in a wide range of applications and industries. Bridgestone has continued to innovate and improve the quality of its hose to meet ever growing market demands, requiring better performance and a wider range of specifications.

Bridgestone Hydraulic Hose History

1938 : Started hose production at Yokahama factory Japan
1965 : Established joint venture with Imperial Eastman for couplings
1971 : Transferred production facility to Kumamoto Japan
1980 : Joint venture became 100% subsidiary of Bridgestone Corporation
1990 : Began additional hose production at Seki factory
1998 : Built hose assembly factory in China
  ( CBF: China Bridgestone Flowtech )
2003 : Built hose assembly factory in USA
  ( ABF: America Bridgestone Flowtech )
2004 : Built hose production factory in Thailand
Advantages of using Bridgestone Hose

**Tested and Proven Reliability**
Bridgestone has a long and successful history supplying high quality hose and assemblies to a global client base including Japanese construction machinery manufacturers.

**Bridgestone Quality**
- Crimping Technology
- Heat Aging Test
- Wire Alignment
- Total Product Control

**Superior Performance**
- Longer Life
- Easy Installation
Bridgestone Quality

Crimping Technology
95% of all leaks occur between the crimped portion of the coupling and the hose. Bridgestone overcomes this common problem by using advanced development methods such as computer analysis.

Results show no leakage after the following test:
Test Method:
1. Heat to 100°C for 16 hours
2. Remove hose from oven and cool to room temperature.
3. Pressure Test at maximum working pressure for 3 minutes and check leakage
4. Impulse cycle test for in excess of 1 million cycles.

Heat Aging Test
In addition to standard impulse testing, Bridgestone also evaluates hose performance by carrying out its own specialized heat aging tests. These tests allow Bridgestone engineers to optimize hose performance and hose stability.

Wire Alignment
The superior wire alignment found in Bridgestone hoses provides excellent structural uniformity along the whole length of hose. This assures a high level of flexibility and durability. Alignment is controlled using a Contour Measuring System.

Very low contour deformation results show excellent uniformity
Total Product Control
Bridgestone maintains total control over every step of the manufacturing process because all activities are carried out in-house by Bridgestone’s own staff. This core strength means Bridgestone can always ensure that its hoses meet the highest quality standards.

Superior Performance
Bridgestone offers superior performance hoses which exceed SAE/DIN test requirements. Examples of EPOQU series hoses are shown below.

Longer Life
EPOQU hose successfully passes 1,000,000 impulse cycles at 120°C (250°F).

![Graph showing test pressure and cycles](image)

<table>
<thead>
<tr>
<th>Test Pressure ±5%</th>
<th>1.0MPa</th>
<th>0MPa</th>
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</thead>
<tbody>
<tr>
<td>SAE 100R15</td>
<td>500,000 cycles</td>
<td>200,000 cycles</td>
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<tr>
<td>JIS K6349-3</td>
<td>400,000 cycles</td>
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<tr>
<td>SAE 100R2</td>
<td>200,000 cycles</td>
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</tbody>
</table>

Easy Installation
EPOQU is highly flexible. EPOQU requires just two thirds of the force necessary to bend other conventional rubber hoses to the same bending radius. Thus, EPOQU allows easy and speedy installation.

![Diagram showing ease of installation](image)

Bridgestone hydraulic hose uses steel wire technologies developed by Bridgestone’s tire division.
### PASCALART Series

<table>
<thead>
<tr>
<th>Hose I.D.</th>
<th>PA01</th>
<th>PA03</th>
<th>PA07</th>
<th>PA10</th>
<th>PA14</th>
<th>PA17</th>
<th>PA21</th>
<th>PA28</th>
<th>PA35</th>
<th>PF07</th>
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<td>Lower: Max. Working Pressure MPa (psi)</td>
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#### Warranty Period for Special Purpose Hose

<table>
<thead>
<tr>
<th>Series</th>
<th>OKE</th>
<th>JW, JWK</th>
<th>VW, NW</th>
<th>WB, WH</th>
<th>SA</th>
<th>Jambo</th>
<th>ACT/PJ</th>
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<tbody>
<tr>
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<td>25,000 cycles</td>
<td>200,000 cycles</td>
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<td>1 year</td>
<td>6 months</td>
<td>3 months</td>
<td>1 year</td>
<td>1 year for oil</td>
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- **Warranty Period for Special Purpose Hose**

- **Bridgestone Hydraulic Hose**
## EPOOU Series

### Upper: Reinforcement

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<thead>
<tr>
<th>Hose I.D.</th>
<th>EQ17</th>
<th>EQ21</th>
<th>EQ25</th>
<th>EQ28</th>
<th>EQ31</th>
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### Lower: Max. Working Pressure (MPa)

| 2W 20.5 (3000) | 4S 27.5 (3500) | 4S 31.0 (4500) | 1W 13.8 (2000) | 2W 24.1 (3500) | 4S 17.2 (2500) | 6S 31.0 (4500) | 6S 34.5 (5000) | 6S 24.5 (3500) | 6S 27.5 (3500) | 4S 34.5 (5000) | 6S 34.5 (5000) |

### Warranty Period

- **Hose I.D.**: 3/16 - 2
- **Working Pressure**: 1,000,000 cycles
- **Period**: 1 year

### Required Cycles

- **1,000,000 cycles**: 150,000 cycles
- **200,000 cycles**: 200,000 cycles
- **500,000 cycles**: 200,000 cycles
- **1,000,000 cycles**: 1 year

### Peak Pressure

- **133% of the working pressure**

### Burst Pressure

- **5 times of the working pressure**

### Temperature Range

- **-40°C to +120°C (-40°F to +250°F)**

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## SAE Series

### Only Hose Available

### Required Cycles

- **150,000 cycles**: 200,000 cycles
- **25,000 cycles**: 5,000/10,000 cycles

### Period

- **1 year**: 1 year

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## DIN Series

### Only Hose Assembly Available

### Required Cycles

- **5,000/10,000/15,000/100,000/200,000 cycles**

### Period

- **1 year**: 1 year

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## Warranty Period for Plastic Hose

### Series

<table>
<thead>
<tr>
<th>KF</th>
<th>KG</th>
<th>SPL, KA, KB</th>
<th>JC70, PS, PC</th>
<th>SF</th>
<th>JAT/JAM/JAL/JKY/JAK</th>
</tr>
</thead>
<tbody>
<tr>
<td>150,000 cycles</td>
<td>200,000 cycles</td>
<td>200,000 cycles</td>
<td>25,000 cycles</td>
<td>100,000 cycles</td>
<td>5,000/10,000/15,000/100,000/200,000 cycles</td>
</tr>
</tbody>
</table>

### Period

- **1 year**: 1 year

---

### Temperature Range

- **-40°C to +120°C (-40°F to +250°F)**
- **-40°C to +100°C (-40°F to +212°F)**
- **-40°C to +120°C (-40°F to +250°F)**
- **-40°C to +100°C (-40°F to +212°F)**

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**Hydraulic Hose**

**Bridgestone**
Bridgestone hose products are manufactured at facilities recognized for their quality of management by the highest international certification standards:

Bridgestone Quality Management Systems
ISO 9001/2000 Approved

CM012
005

Bridgestone Environmental Management Systems
ISO 14001 Approved

CM009
091-C

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