

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 Yokohama 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**

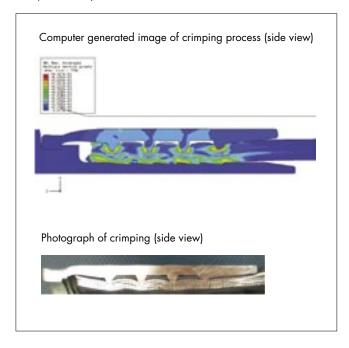
Longer Life Easy Installation



## **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.



#### **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.



#### Results show no leakage after the following test:

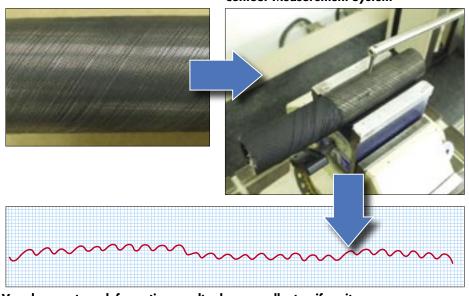
Test Method:

- 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.

#### **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.

#### **Contour Measurement System**

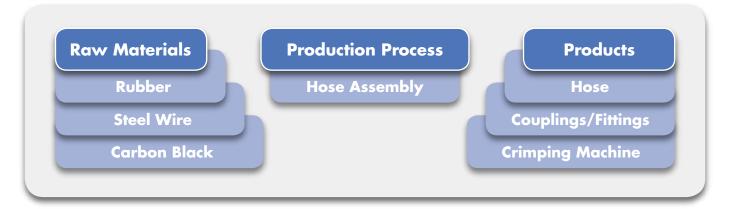






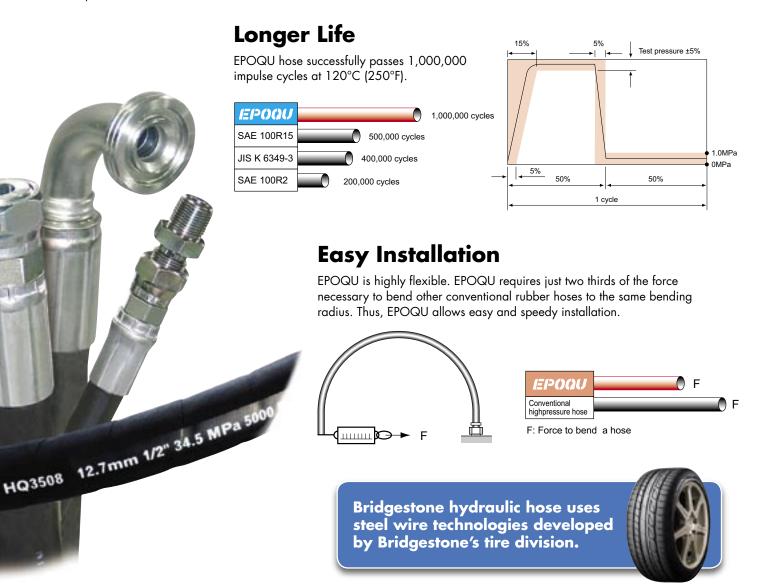
#### **Total Product Control**

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.

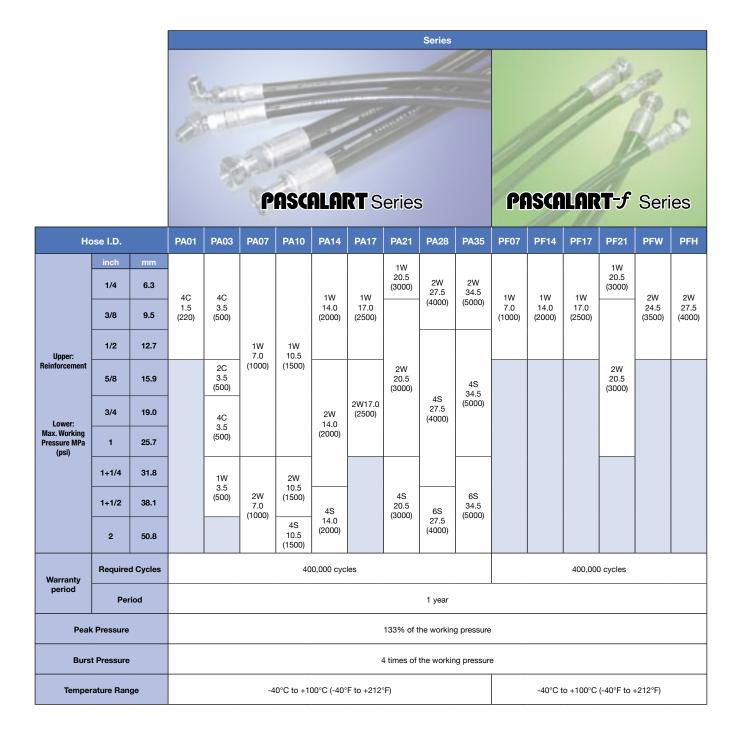


## **Superior Performance**

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

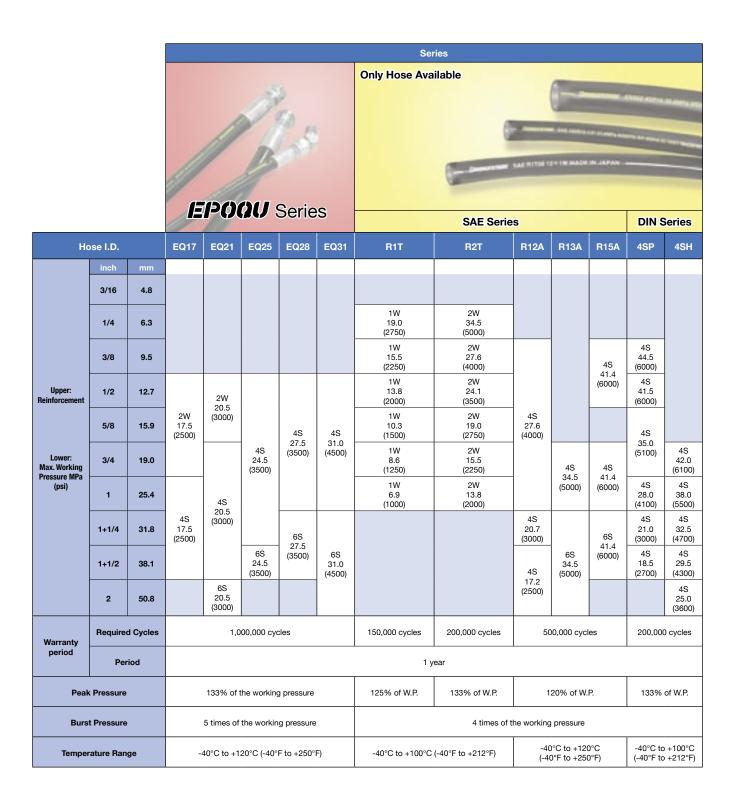


## Hose summary and warranty period



#### **Warranty Period for Special Purpose Hose**

	Series									
	OKE	JW, JWK	VW, NW	WB, WH	SA	Jambo	ACT/PJ			
Required Cycles	200,000 cycles	25,000 cycles	200,000 cycles	100,000 cycles	N/A	200,000 cycles	100,000 cycles			
Period	1 year for oil 1 year for water	1 year	1 year	6 months	3 months	1 year	1 year for oil 1 year for water			



#### **Warranty Period for Plastic Hose**

	Series									
	KF	KG	SPL, KA, KB	JC70, PS, PC	SF	JAT/JAM/JAL/JKY/JAK Only Hose Assembly Available				
Required Cycles	150,000 cycles	200,000 cycles	200,000 cycles	25,000 cycles	100,000 cycles	5,000/10,000/15,000/100,000/200,000 cycles				
Period	1 year	1 year	1 year	1 year	1 year	1 year	1 year			



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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

Bridgestone Environmental Management Systems ISO 14001 Approved

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