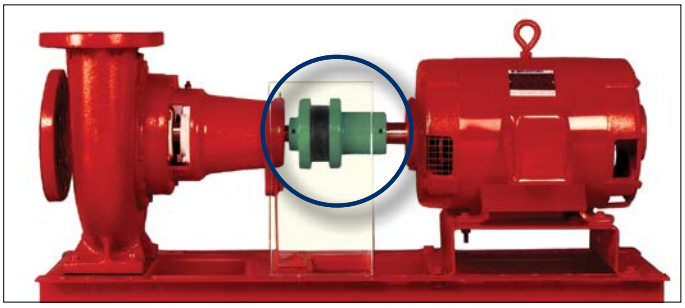
Regal Rexnord

# Sure-Flex Plus®
# Elastomeric Couplings (Metric)

TB WOOD'S™
A REGAL REXNORD BRAND

# Sure-Flex Plus® couplings are a TB Wood's original!

Sure-Flex Plus couplings utilize EPDM, Neoprene, and Hytrel™ flexible elastomer sleeves to transmit torque and accommodate shaft misalignment. Sure-Flex Plus couplings have exceptional torsional flexibility, with the 4-way flexing action absorbing virtually all types of shock, vibration, misalignment and end float. Sure-Flex Plus couplings are an excellent choice when low cost, high flexibility, low vibration and easy installation are important.



## Applications

Sure-Flex Plus couplings can be found hard at work in many industries such as power generation and material handling. These couplings are ideal for a wide variety of applications including:

- Pumps
- Fans/Blowers
- Compressors
- Mixers
- Electric Motors
- Conveyors

### Easy, Quick Installation

Sure-Flex Plus can be installed quickly and easily, thanks to its simple design with no bolts, gaskets, covers or seals. Alignment can be checked on the precision machined flanges using only a straightedge and calipers. No special tools are needed for installation, alignment or removal.

### No Lubrication, Trouble-Free Operation

The teeth of the sleeve lock into the teeth of the flanges without clamps or screws, tightening under torque to provide smooth transmission of power. Couplings are not affected by abrasives, dirt or moisture, eliminating the need for lubrication or maintenance and providing clean, dependable, quiet performance.

### Sure-Flex Plus couplings last over 3X longer

Fatigue Test to Failure results reveal that Sure-Flex Plus sleeves last over three times as long as the nearest competitive sleeve.
See brochure P-7819-TBW.

## Features (Metric)

- Up to 8.20 kNm; 72,480 in.lbs.
- Quick and easy installation
- Spacer, bushed hub and clamping hub designs in stock
- Flexible design accommodates misalignment and protects equipment
- 7° to 21° torsional wind up
- Needs no lubrication, no maintenance

## New! Sure-Flex® PLUS

For over 50 years, TB Wood's has led the coupling industry with the original TB Wood's Sure-Flex design. And we haven't stopped innovating: this industry favorite just got even better. Our new Sure-Flex Plus EPDM and Neoprene sleeves are best-in-class for coupling performance and value. Here's why:

### High Torque Rating

- **30% Increased Torque Rating**
  Sure-Flex Plus sleeves provide longer service life in demanding applications, reducing required maintenance and associated replacement cost.

### Longer Life

- **Sure-Flex Plus Lasts Over 3X Longer than the Competition**
  Extensive testing shows our sleeves outlast the imitators. More uptime means less costly downtime.

### Better Value

- **Save Money Using a Smaller Coupling**
  Over 50% of common applications can now use a smaller coupling, lowering the cost of both coupling purchase and sleeve replacement.

### Interchangeable

- **Retrofits to Existing Flanges**
  No need to replace the full coupling – the Sure-Flex Plus sleeve design is 100% compatible with the current industry standard created by TB Wood's over 50 years ago.

## Sure-Flex Plus 4-Way flexing action absorbs all types of shock, vibration and misalignment

### Torsional

Sure-Flex Plus coupling sleeves have an exceptional ability to absorb torsional shock and dampen torsional vibrations. The EPDM and Neoprene sleeves wind up approximately 21° torsionally at their rated torque. Hytrel sleeves wind up approximately 7°.

### Angular

The unique design of the Sure-Flex Plus coupling's teeth allows for the absorption of angular misalignment without wear. Refer to page 17 for misalignment limits. Angular alignment can be achieved using only a scale and calipers.

### Parallel

Parallel misalignment is absorbed without wear or appreciable energy loss. The lateral flexibility of the coupling sleeve minimizes radial bearing loads normally associated with parallel misalignment. This feature also allows for easier installation by the use of components bored for slip fits without fretting corrosion occurring at the shaft. Refer to page 17 for parallel misalignment limits. Only a straight-edge and feeler gage are required for parallel alignment.

### Axial

Sure-Flex Plus couplings may be used in applications with limited axial shaft movements. The axial compressibility of the EPDM and Neoprene sleeves allows for shaft end-float without the absolute transfer of thrust loads.

## Table of Contents



### Metric Version Catalog

For Imperial information see Catalog P-1690-TBW

# Sure-Flex Plus Selection Guide

**Use the Coupling Selector Program on www.TBWoods.com/Select**
Or follow these steps:

**Sure-Flex Plus couplings are selected as component parts.**

1. Determine SLEEVE material and type.
   Refer to pages 4 & 5
2. Determine coupling SIZE.
   Refer to pages 6 & 7
3. Determine FLANGES to be used.
   Refer to pages 8 thru 16

**Specify coupling components.**

- Example #1 - Close coupled
  Size 6, Type S flange w 35 mm bore
  Size 6, Type S flange w 25 mm bore
  Size 6, Split EPDM sleeve
- Example #2 - 5" Between shaft spacer
  Size 9, Type SC flange for #11 hub
  Size 9, Type SC flange for #9 hub
  Size 11 Hub w 2-3/8" bore
  Size 9 Short hub w 1-1/8" bore
  Size 9 Solid Hytrel sleeve

| Product Number | Product Description |
|---|---|
| 6S35MM | 6S x 35 mm |
| 6S25MM | 6S x 25 mm |
| 6JS | 6JES |
| 9SC5011 | 9SC50-11 |
| 9SC50 | 9SC50 |
| 11SCH238 | 11SCH x 2-3/8 |
| 9SCHS118 | 9SCHS x 1-1/8 |
| 9H | 9H |