

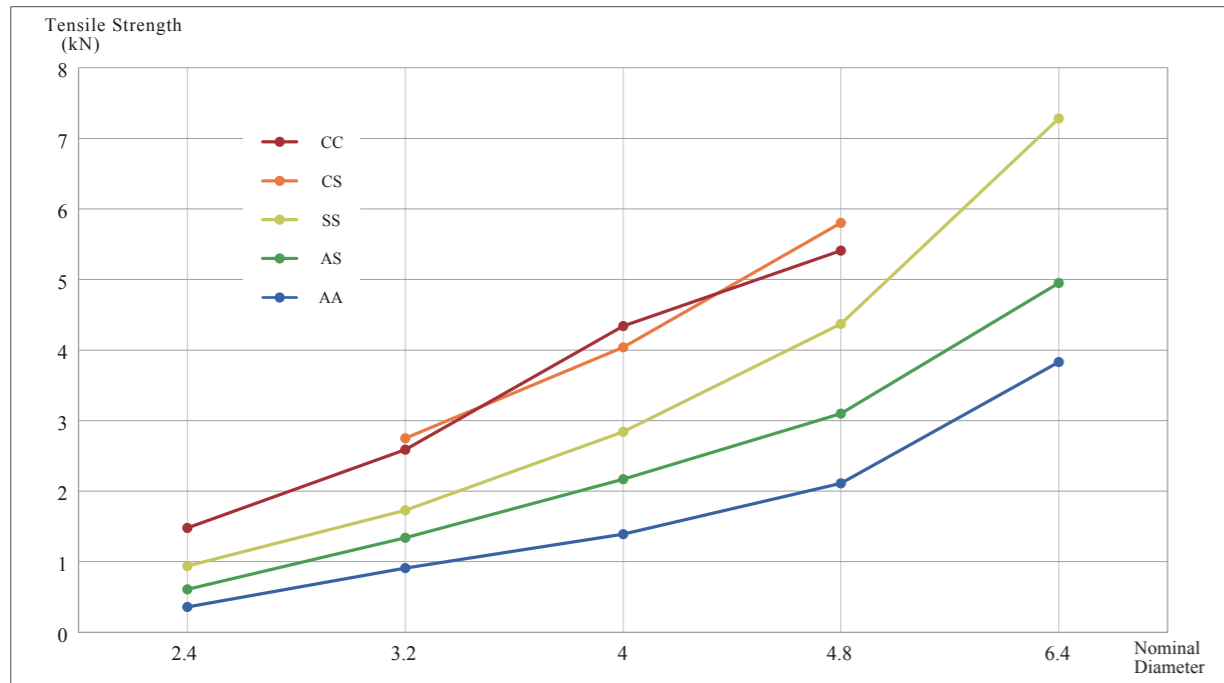
# Strength Distribution Charts

Please choose the appropriate rivet size and material according to the required strength.

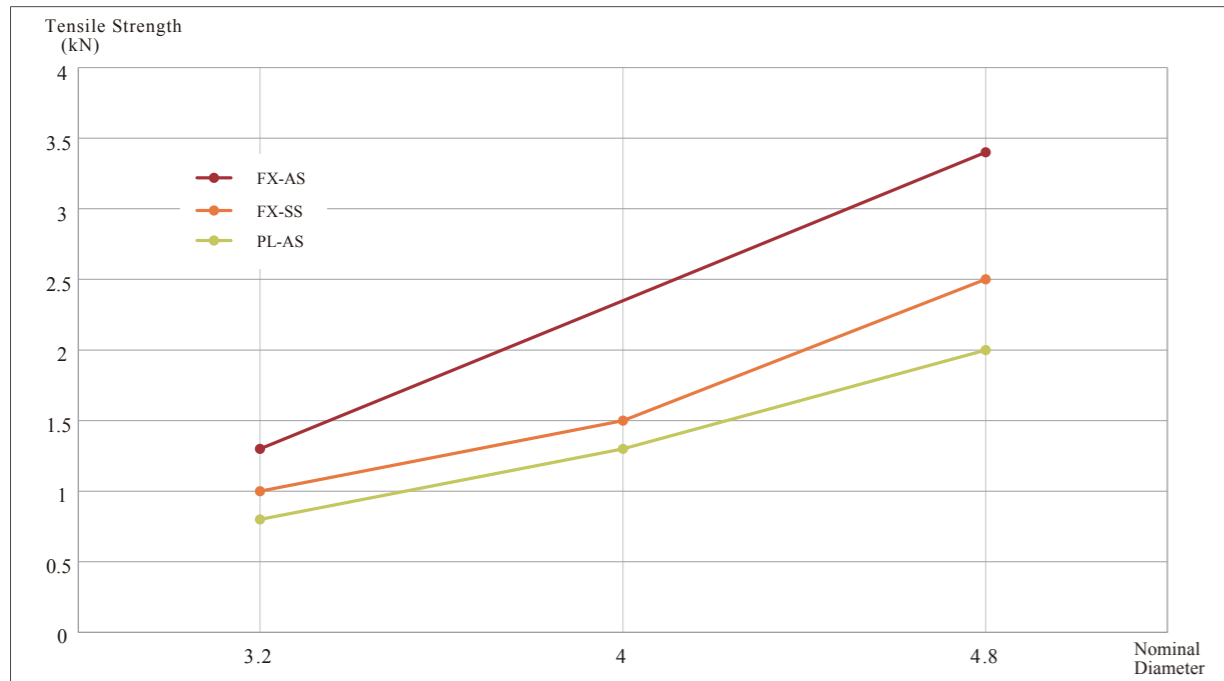
Fukui Byora offers various sizes and materials for each type of rivet. See the following strength distribution charts to choose the appropriate rivet size and material.

## Blind Rivet

### Standard Type



### FX and PL Types



• Approximate shear strength is "tensile strength × 2.4" for roll-up rivets, or "tensile strength × 1.2" for e-power rivets.

### CP Type

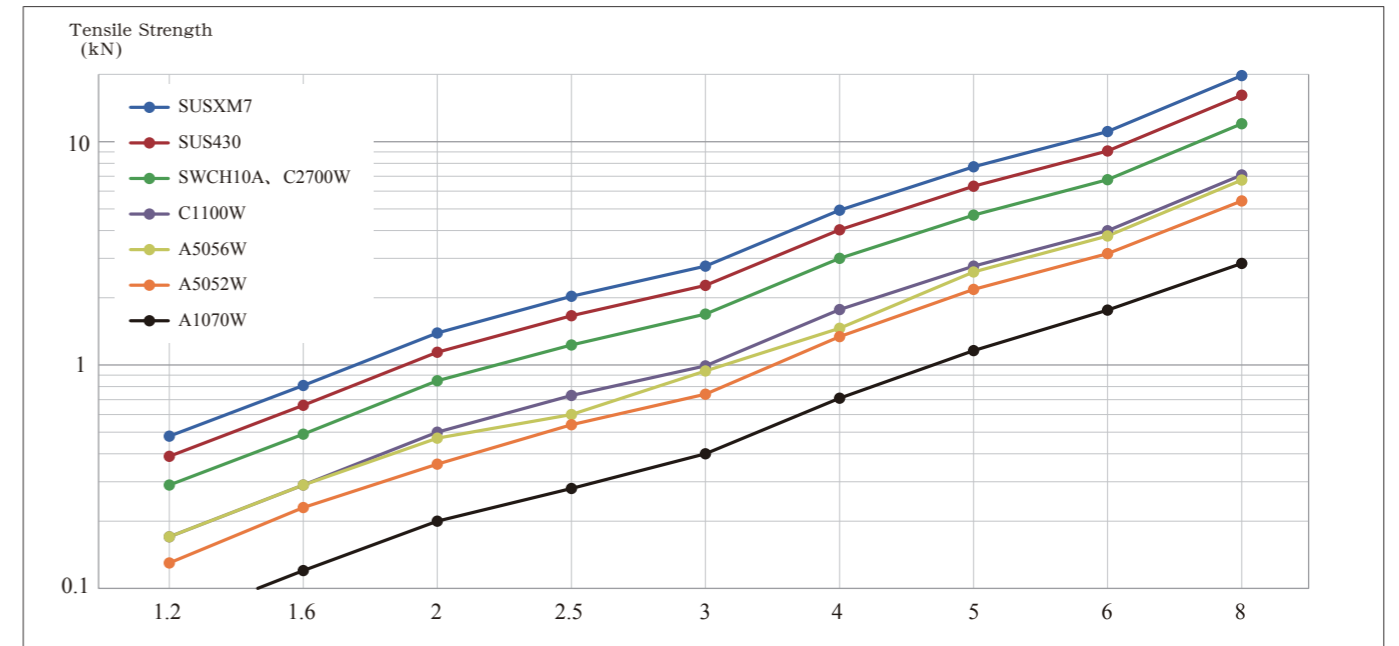
Material Code	Tensile	Shear
AS	1.10	0.90
AA	0.40	0.66

Note: Data for a nominal diameter of 4 mm

(Unit: kN)

Note: The strength data shown above was obtained by our prescribed testing. The results may vary significantly depending on the material and thickness of the actual workpiece. Please use a safety factor of three or higher when designing your product.

## Semi-Tubular Rivet

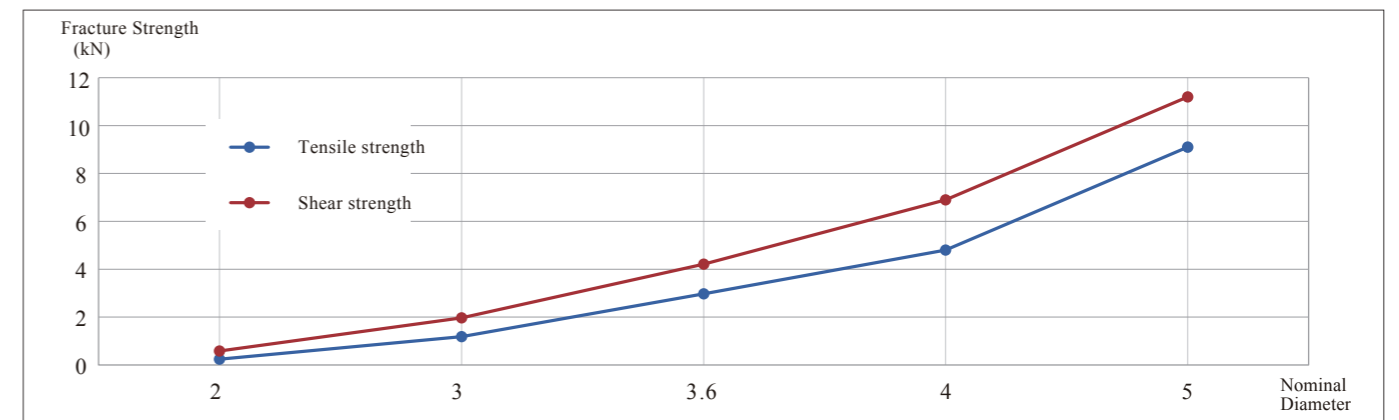


### Approximate Shear Strength

Material	SUSXM7	SUS430	SWCH10A	C2700W	C1100W	A5056W	A5052W	A1200W	A1070W
A	1.1	1.2	1.2	1.1	1.2	1.4	1.6	1.5	1.5

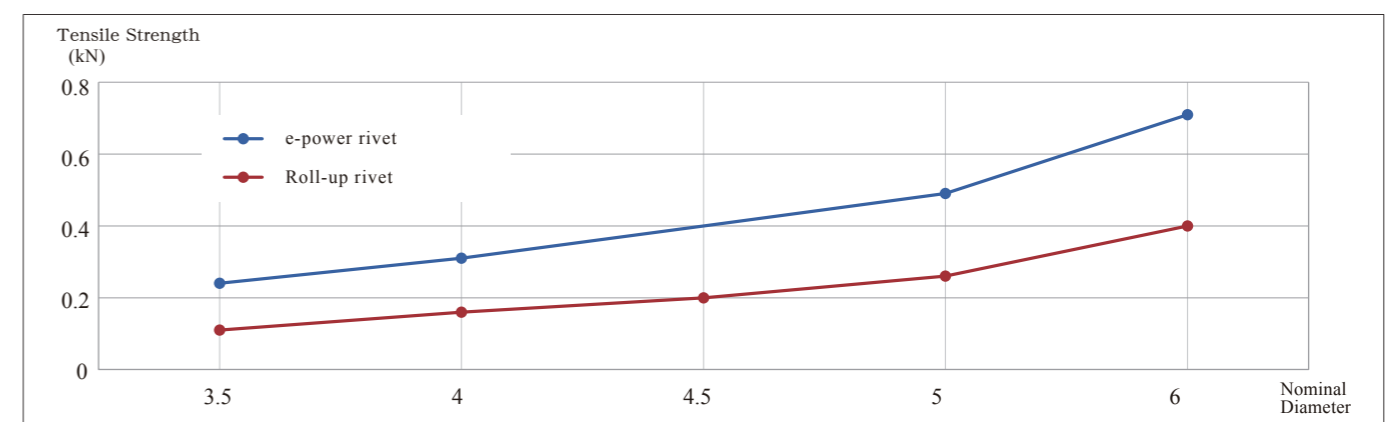
• Approximate shear strength is "tensile strength × A (coefficient of material)."

## Self-Piercing Rivet



• See page 28 for the combination and thickness of the test workpiece.

## Plastic Rivet



• Approximate shear strength is "tensile strength × 0.75" for the standard and FX types, or "tensile strength × 1.0" for the PL type.  
• POM material was used to obtain the strength data.

Note: All the products shown above comply with the RoHS/ELV:SOC6 regulations.

Note: In this brochure, materials fastened are referred to as "base materials" or "workpieces." Also, fastening may be referred to as "riveting."