

# COUPLINGS

## Grade TA/TAS

### ENGINEERED AND DESIGNED TO THE HIGHEST STANDARDS

LUFKIN Rods' extremely accurate precision CNC lathes coupled with our unique manufacturing approach, ensures the outer diameter and inner diameter is precisely concentric for consistent wall-thickness throughout. This eliminates stress concentrations due to eccentric wall-thickness.

An enhanced face is provided to maximize the contact area between the coupling and pin shoulder. This improved design fosters consistent circumferential displacement (CD) and preload stress values during makeup; i.e., potentially reducing connection-related failures. In addition, all couplings are furnished with cold-formed threads to provide additional fatigue resistance.

All LUFKIN Couplings are manganese phosphate coated for corrosion protection, anti-galling, and lubricity.

### GRADE TA

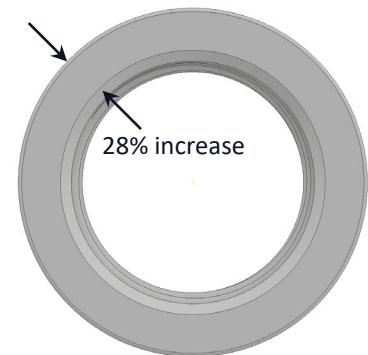
Recommended for medium-to-deep wells and/or moderate-to-heavy rod loads and corrosive fluids that are effectively inhibited to prevent corrosion.

### GRADE TAS

Recommended to increase corrosion abrasion resistance, Grade TAS couplings have a hard, spray metal coating on the outer diameter.



Grade TA/TAS Couplings



Enhanced Face  
1" SHT Coupling

All LUFKIN Couplings have the product identification markings on the inside counter bore for traceability after installation.

# COUPLINGS – GRADE TA/TAS – SPECIFICATIONS



## CHEMICAL

Grade	TA/TAS
UNS Series Steel	G86300
Carbon, %	0.28 to 0.33
Manganese, %	0.65 to 0.95
Phosphorus, %	0.03 max.
Sulfur, %	0.15 to 0.03
Silicon, %	0.15 to 0.35
Nickel, %	0.35 to 0.75
Chromium, %	0.40 to 0.60
Molybdenum, %	0.15 to 0.25
Vanadium, %	0.10 max.
Aluminum, %	0.035 max.

## MECHANICAL

Yield Strength, 2-inch offset, psi	60,000 min.
Tensile Strength, psi	95,000 to 120,000
Hardness	56 to 62 HRA



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LUFKIN Rods is the only privately owned and operated Sucker Rod manufacturing plant in the USA!

Chemical & mechanical specifications are subject to change without notice!  
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