

# HIGH SURFACE FINISH (HSF) CENTRALIZERS

## Proven By Extensive Field Trials To Significantly Reduce Abrasive Tubing Wear

Spray Metal (SM) sucker rod components manufactured with the proprietary High Surface Finish (HSF) have been demonstrated to significantly extend the run lives of wells compared to their plain steel and standard API SM counterparts.

### DESCRIPTION AND OPERATION

The HSF centralizers allow a large flow area to reduce pressure drop. Reduced wear and friction reduces rod hang-up.

They are available in standard and customized sizes and lengths to suit unique applications.

Tubing Size	Connections
2 3/8 in. [60.3 mm]	API SR Pin or Box
2 7/8 in. [73.0 mm]	API SR Pin or Box
3 1/2 in. [88.9 mm]	API SR Pin or Box
4 1/2 in. [114.3 mm]	API SR Pin or Box



### APPLICATION

- Centralized sucker-rod string

### BENEFITS

- Prevent rod string from buckling
- Prevents tubing wear

### FEATURES

- Low-friction surface
- Corrosion resistant OD