

## Rotational Alignment Sub (Metal to Metal Seal) (RAS-M)

UMS Flowell Tubing Rotation Alignment Sub with Metal to Metal seal (RAS-M) is a quick and easy way to orientate your completion.

The RAS is used to assist with the orientation of well completion assemblies within a well completion string. A typical example would be the orientation between upper and lower y-tools in dual ESP completions, or orientation below a tubing hanger. The RAS-M can be orientated at any angular position. The wedge type metal to metal seal is energised by torquing a locking ring which also locks the angular position to prevent back off.

### FEATURES & BENEFITS

- Available in sizes from 1.900" up to 5-1/2"
- Other sizes available on request
- Compact design
- Wedge type Metal to Metal Seal
- Locked to right and left-hand rotation by torque

### SPECIFICATIONS

- Low alloy or 13Cr metallurgy
- Tubing matched pressure rating and strength



# Technical Specifications - Rotational Alignment Sub (Metal to Metal Seal) (RAS-M)

Part Number	Upper Connection	Lower Connection	OD (in)	ID (in)
RU-4500X4500-01	4-1/2" 12.6lb/ft VAM TOP BOX	4-1/2" 12.6lb/ft VAM TOP PIN	5.90	3.913
RU-5500-01	5-1/2" 20lb/ft VAM TOP BOX	5-1/2" 20lb/ft VAM TOP PIN	7.00	4.778

