

# RF series female thread insert construction



## Specification

**Housing** 30/40 tons carbon steel.  
Corrosion protected.

**Ball** 1% carbon chromium steel.  
Heat treated.

**\*Inserts** Naval brass/oil retaining sintered copper.

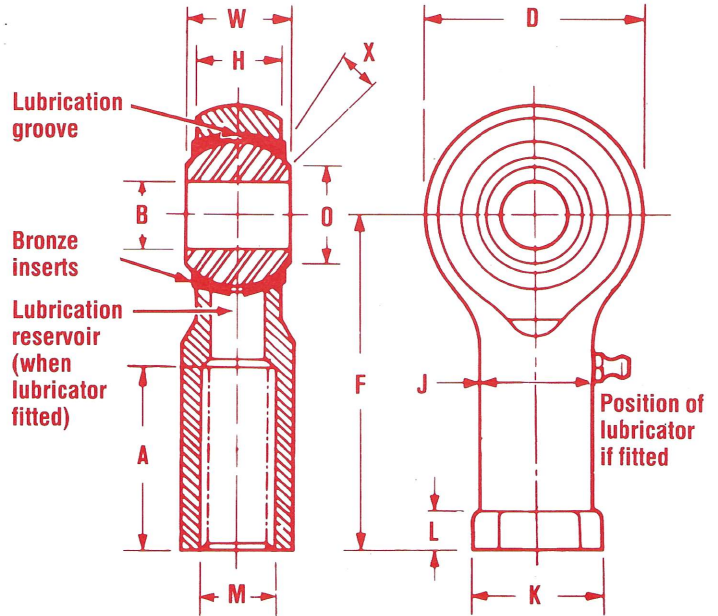
\*Where alternative materials are specified, the right is reserved to supply whichever is available.

### Temperature and fits

The normal maximum operating temperature for these rod ends is 180°C.

The clearance in the rod ends will be in line with the following chart:

Bearing size	Diametral clearance (in)
RF	
04 - 05	0.0002 - 0.0013
06 - 10	0.0003 - 0.0016
12	0.0004 - 0.0020



## Imperial dimensions

Bearing number	B	W	H	O	D	F	L	A	K	J	M	X	Ball dia nom	Maximum static radial load in pounds approx	Weight in pounds each approx
	Bore	Ball width	Housing width	Ball flat dia	Head dia	Centre length		Thread length		Shank dia	Thread size	Angle deg			
	+0015 -0005	+000 -005	+005 -005		+010 -010	+010 -010	+010 -010	+060 -030	+010 -010	+010 -010	UNF 2B				
<b>RF 04U</b>	.2500	.375	.281	.355	.750	1.312	.187	.750	.468	.375	.250 - 28	12.5	.516	1460	.062
<b>RF 05U</b>	.3125	.437	.344	.447	.875	1.375	.187	.750	.500	.437	.312 - 24	10.5	.625	1850	.078
<b>RF 06U</b>	.3750	.500	.406	.517	1.000	1.625	.250	.937	.687	.562	.375 - 24	9.0	.719	2450	.128
<b>RF 07U</b>	.4375	.562	.437	.586	1.125	1.812	.250	1.062	.750	.625	.437 - 20	10.5	.812	3010	.172
<b>RF 08U</b>	.5000	.625	.500	.698	1.312	2.125	.250	1.187	.875	.750	.500 - 20	9.0	.937	4290	.286
	+0015 -0005	+000 -005	+005 -005		+030 -010	+030 -010	Min	+060 -030	+015 -015	+015 -015					
<b>RF 10GU</b>	.6250	.750	.562	.832	1.500	2.500	.312	1.500	1.000	.875	.625 - 18	12.0	1.125	4640	.469
<b>RF 12GU</b>	.7500	.875	.687	.978	1.750	2.875	.312	1.750	1.125	1.000	.750 - 16	9.5	1.312	6580	.625

For left hand thread insert L in bearing number, eg. RFL 05U.

For BSF threads in Imperial units delete letter U in part number, eg. RF 06.

For applications where re-lubrication is desirable, RF series rod ends from sizes RF 04U to RF 08U are available with lubricators fitted, on request.

The part number of a rod end with lubricator fitted would then carry the suffix 'G', eg. RF 05UG.

Other bearings outside the above range can be obtained, but will not be so readily available.