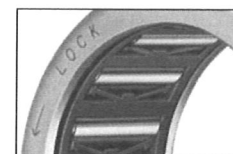




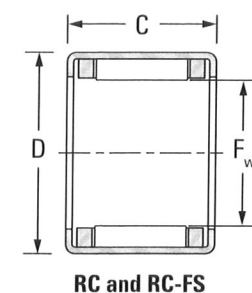
NEEDLE ROLLER BEARINGS

DRAWN CUP ROLLER CLUTCHES INCH SERIES

- For proper application, separate bearings are suggested (adjacent to clutch) to carry radial loads and assure concentricity between shaft and housing.
- The clutch engages when housing is rotated relative to the shaft in direction of arrow marking (← LOCK), as labeled on cup.
- Proper inspection requires use of ring gage and bore plug gage(s). See the inspection section on page B-3-9.
- Full details on installation are given on page B-3-8.
- Shaft raceway and housing bore diameters that are necessary for proper mounting and operation are listed on the opposite page.
- Type RC clutches have springs integrally molded with the cage to position the rollers for lockup.



The mounted clutch engages when the housing is rotated relative to the shaft in the direction of the arrow marking (← LOCK) stamped on the cup.



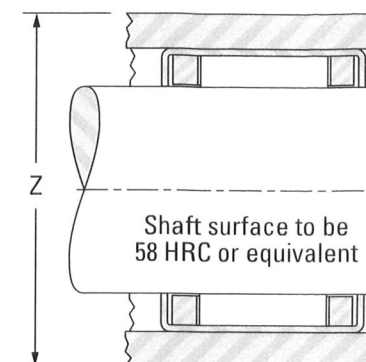
RC and RC-FS

Shaft Diameter	F _w	D	C	Clutch Designations		Torque Rating	Minimum O.D. of Steel Housing for Rated Torque	Overrun Limiting Speed Rating for Rotating Shaft ⁽¹⁾
							Z	
mm in	mm in	mm in	mm in	With Stainless Steel Springs	With Integral Springs	N-m lbs-in		min ⁻¹
3.175 0.1250	3.18 0.125	7.14 0.281	6.35 0.250	—	RC-02	0.323 2.86	11.2 0.44	34000
6.350 0.2500	6.35 0.250	11.13 0.438	12.70 0.500	RC-040708-FS ⁽²⁾	RC-040708	1.94 17.2	15.7 0.62	20000
9.525 0.3750	9.53 0.375	15.88 0.625	12.70 0.500	RC-061008-FS ⁽²⁾	RC-061008	5.45 48.2	22.4 0.88	18000
12.700 0.5000	12.70 0.500	19.05 0.750	12.70 0.500	RC-081208-FS ⁽²⁾	RC-081208	8.85 78.3	27.9 1.10	17000
15.875 0.6250	15.88 0.625	22.23 0.875	15.88 0.625	RC-101410-FS ⁽²⁾	RC-101410	16.8 149	30.5 1.20	14000
19.050 0.7500	19.05 0.750	25.40 1.000	15.88 0.625	RC-121610-FS ⁽²⁾	RC-121610	23.3 206	35.6 1.40	12000
25.400 1.0000	25.40 1.000	33.35 1.313	15.88 0.625	RC-162110-FS ⁽²⁾	RC-162110	49.6 439	48.3 1.90	8700

⁽¹⁾ Indicates the number of relative rotations allowed when the shaft idles.

⁽²⁾ Suffix "-FS" is not always stamped on the clutch cup. Type RC-FS with stainless steel springs are always readily identified by RED clutch cage.

⁽³⁾ See pages B-2-66 to B-2-69 for other suitable bearing types and sizes.



Suitable Drawn Cup Bearing ⁽³⁾	Gaging		
	Ring Gage	Clutch Locking Plug	Clutch Overrun
	mm in	mm in	
—	7.155 0.2817	3.160 0.1244	0
J-45	11.125 0.4380	6.337 0.2495	0
JH-68	15.888 0.6255	9.512 0.3745	0
JH-87	19.063 0.7505	12.687 0.4995	1 0
JH-1010	22.238 0.8755	15.862 0.6245	1 0
J-126	25.387 0.9995	19.012 0.7485	1 0
JH-1612	33.325 1.3120	25.362 0.9985	2 1