

TORQ SYNCROSNAP® CENTRIFUGALS

TORQ SYNCROSNAP®



FIGURE A

NOTE: Shaft diameter code is stamped on side of metal plate facing weights. TORQ Syncrosnap® mechanisms can be assembled with 3 or 6 weights. Our catalog recommends the best replacement configuration making it unnecessary to match the number of weights.

TORQ SYNCROSNAP®



FIGURE D

NOTE: Shaft diameter code is stamped on side of metal plate facing weights. TORQ Syncrosnap® mechanisms can be assembled with 3 or 6 weights. Our catalog recommends the best replacement configuration making it unnecessary to match the number of weights.

TORQ SYNCROSNAP®



FIGURE B

NOTE: Face spool toward you and look for shaft diameter code on metal ring which presses on shaft. TORQ Syncrosnap® mechanisms can be assembled with 3 or 6 weights. Our catalog recommends the best replacement configuration making it unnecessary to match the number of weights.

TORQ SYNCROSNAP®



FIGURE E

NOTE: Shaft diameter code is stamped on side of metal plate facing weights. TORQ Syncrosnap® mechanisms can be assembled with 3 or 6 weights. Our catalog recommends the best replacement configuration making it unnecessary to match the number of weights.

COIL SPRING



FIGURE C

NOTE: This coil spring type mechanism used by various motor manufacturers is not manufactured by TORQ. It can be replaced by a TORQ Syncrosnap® mechanism for certain applications as shown in the tables. TORQ replacement will look like **Figure A**.

FRANKLIN



FIGURE F

NOTE: This coil spring type mechanism used by Franklin for some applications is not manufactured by TORQ. It can be replaced by the TORQ Syncrosnap® mechanism for certain applications as shown in the tables. TORQ replacement centrifugal will look like **Figure A**.

TORQ SYNCROSAP® CENTRIFUGALS - 60 HERTZ (USA)

HOW TO USE THIS SECTION

This section lists available centrifugals by:

- **MOTOR MANUFACTURER** listed alphabetically
- **BORE SIZE** listed in ascending order under each manufacturer

IF YOU DO NOT KNOW THE MANUFACTURER, MEASURE THE BACKPLATE O.D. AND SORT BY BORE SIZE.

1. Refer to the motor name plate to obtain the manufacturer's name, frequency (hertz), and speed/RPM (poles) of the motor. Use the chart below for typical motor speed ranges.

TYPICAL FRACTIONAL HORSEPOWER INDUCTION MOTOR SPEED RATINGS

MOTOR TYPE		SYNCHRONOUS SPEED	TYPICAL FULL LOAD SPEED	TYPICAL CENTRIFUGAL MECHANISM SPEEDS	
POLES	HERTZ			CUT-OUT	CUT-IN
2P	60	3600 RPM	3450 RPM	2600-3000 RPM	1000-2000 RPM
4P	60	1800 RPM	1725 RPM	1300-1450 RPM	600-1000 RPM
6P	60	1200 RPM	1140 RPM	850-950 RPM	400-700 RPM
8P	60	900 RPM	850 RPM	650-730 RPM	350-550 RPM
2P	50	3000 RPM	2850 RPM	2200-2450 RPM	900-1700 RPM
4P	50	1500 RPM	1425 RPM	1050-1200 RPM	500-900 RPM
6P	50	1000 RPM	950 RPM	700-780 RPM	330-550 RPM

2. Centrifugals are listed under each manufacturer starting with the smallest centrifugal bore diameter. Dimension shown in the tables are +.000 inches and -.003 inches. **A simple way to identify bore size is to read the bore letter code stamped on the centrifugal.** (Refer to the pictures on the page above to see where the code letter is stamped.) If you are unable to read the code letter, measure the bore size, or the shaft diameter where the mech mounts in inches.
3. Measure all dimensions including the back plate O.D., the spool O.D., and I.D.
4. Check the **NOTES** column - they have **SIGNIFICANT** impact on switch selection.
5. Don't be concerned whether a mechanism has 3 or 6 weights, **UNLESS** specified in the **NOTES** column. Our suggested replacement part has taken that into account.
6. When replacing a centrifugal mechanism, press it on the shaft with an interference fit as shown in the table below. Always check the running clearance (the distance between the **actuated** spool and the stationary switch buttons or contact point.) The measured **Running Clearance (RC)** should be duplicated when installing a new centrifugal. Improper running clearance adversely affects performance. Nominal running clearances for TORQ® centrifugals are below.

BACKPLATE O.D.	2.25	2.42	2.61	2.78	2.98	3.56
RUNNING CLEARANCE (in inches)	0.05	0.06				0.12
INTERFERENCE FIT (in inches)	.004 TO .010					.006 TO .012