

# Installation Instructions



*Martin* QUADRA-FLEX® flanges (hubs) and elastomeric elements (sleeves) come in a wide range of sizes and types. First, determine the size and type of coupling components required. Remove all components from their boxes and loosely assemble the coupling. **Do not install the wire ring on the two piece sleeves at this time.** Check maximum RPM values in table against operating speeds.

*Martin* EM sleeves are rated the same as other EPDM and Neoprene sleeves, and may be used interchangeably; however, Hytrel sleeves are rated at different values and may not be interchanged with *Martin* EM sleeves, or the EPDM and Neoprene sleeves. Check horsepower and torque ratings when selecting Hytrel sleeves.

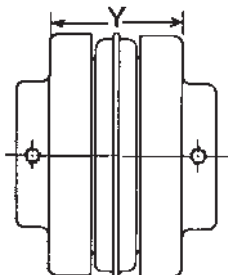


**Step 1.** Make sure the motor driving the part or components is locked out electrically in such a manner that it cannot be started by anyone, however remote from the area. The same type of lockout procedure applies to any other driving device which may be used. Failure to follow these instructions may result in personal injury or property damage.

**Step 2.** Prepare shafts for coupling installation. Inspect all coupling components and remove any protective coating or lubricants from bores, mating surfaces, and fasteners.

**Step 3.** Slide one coupling flange onto each prepared shaft using key stock where required. With the QD Type B flange, it may be necessary to expand the QD bushing bore for ease of installation.

**Step 4.** Position the flange on the shafts to achieve the approximate "Y" dimension (distance between flanges) shown in table. It is best to have equal shaft length into each flange. Tighten one flange in position, and slide the other flange sufficient distance back to install sleeve. Do not install wire ring on two piece sleeve in its final position at this time, but allow it to hang loosely in groove next to teeth.



**Step 5.** Slide loose flange on the shaft until the sleeve has seated completely in teeth of both flanges. Refer to "Y" dimension although not a critical dimension. Secure the flange to shaft and torque set screws and cap screws to correct torque values.



Parallel



Angular

**Step 6.** Check parallel alignment by placing a straight edge across the two coupling flanges and measure the maximum offset at several points around the periphery of coupling. **Do not** rotate coupling when taking these measurements. Refer to table for maximum allowed offset of parallel alignment. Realign the coupling if necessary.

**Step 7.** Check angular alignment with a micrometer, vernier, or caliper. Take measurement from outside to outside of flanges at several points around the periphery of coupling. **Do not** rotate coupling when taking these measurements. Determine the difference between maximum and minimum dimensions and check to make sure they do not exceed the angular figure on the table. If a correction is necessary, recheck parallel alignment.

## Maximum RPM and Allowable Misalignment (Dimensions in Inches)

Sleeve Size	Max. RPM	Types JEM, EM, E and N			★ Type H & HS		
		Parallel	Angular	Y	Parallel	Angular	Y
3	9200	.010	.035	1.188	—	—	—
4	7600	.010	.043	1.500	—	—	—
5	7600	.015	.056	1.938	—	—	—
6	6000	.015	.070	2.438†	.010	.016	2.500
7	5250	.020	.081	2.563	.012	.020	2.625
8	4500	.020	.094	2.938	.015	.025	3.000
9	3750	.025	.109	3.500	.017	.028	3.563
10	3600	.025	.128	4.053	.020	.032	4.125
11	3600	.032	.151	4.875	.022	.037	4.938
12	2800	.032	.175	5.688	.025	.042	5.750
13	2400	.040	.195	6.688	.030	.050	6.688
14	2200	.045	.242	7.750	.035	.060	7.813
16	1500	.062	.330	10.250	—	—	—

NOTE: Values shown above may apply if the actual torque transmitted is more than 1/2 the coupling rating. For lesser torque, reduce the above values by 1/2.

★ Type H & HS sleeves should not be used as direct replacements for JEM or EM sleeves.

† Value when using 6J flanges is 2.125.

**Step 8.** If the coupling employs the two-piece sleeve with wire ring, install ring in center groove of sleeve.

Note: Some force may be required to seat the ring in groove.

**Step 9.** Install protective guards and/or shields per OSHA and any other additional local or state safety codes as required.

**WARNING: Coupling sleeves may be forced from coupling when subjected to a severe shock load or abuse.**