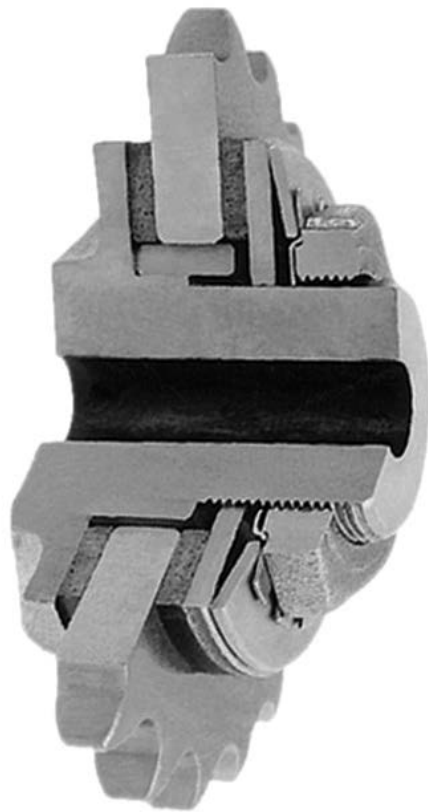


Friction Torque Limiters Series 300 (with Coupling Serie 300-05)

Service Manual

P-2070-WE
NR 245



 **Warner**[®]
Electric

An Altra Industrial Motion Company

To adjust slipping torques for those limiters, you have to proceed as follow:

Sizes 10 to 30:

Wind the adjusting nut until tight. Make sure that the discs springs are correctly centered on the locking washer. Use spanner to thighten the adjusting nut until no slip is observed under maximum load conditions.

In order to avoid excess slip on machine start-up, it is common practice to turn the adjusting nut a further 60 degrees.

Sizes 40 to 60:

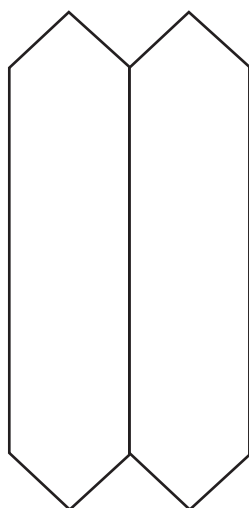
Wind the adjusting nut until tight against pilot plate. Make sure that the discs springs are correctly centered on the pilot plate. Apply load on the spring by releasing the adjustings bolts until no slip is observed under maximum load conditions. It is essential that all of the four bolts are equally turned or damage to friction facings will occur.

In order to avoid excess slip on machine start-up, it is common practice to turn the bolts a further 60 degrees.

Sizes 70:

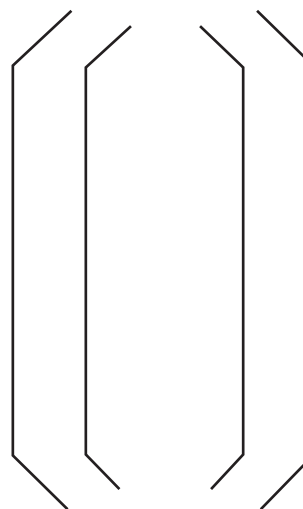
You have to distinguish in this size 2 types of spring assembly:

Assembly A to obtain Max slipping torque : 3 800 N.m



Type A

Assembly B to obtain Max slipping torque : 6 800 N.m



Type B

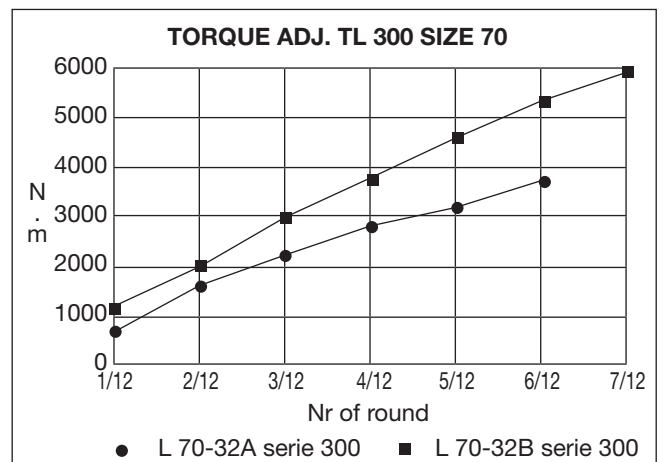
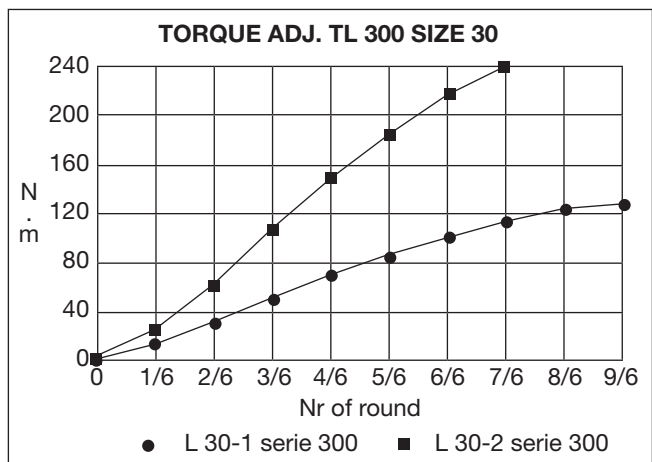
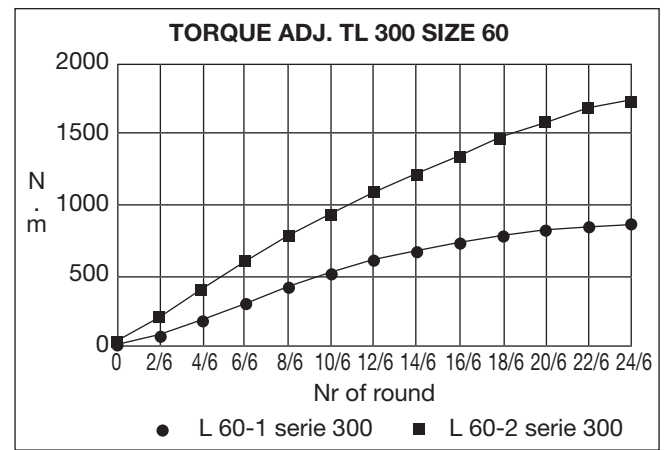
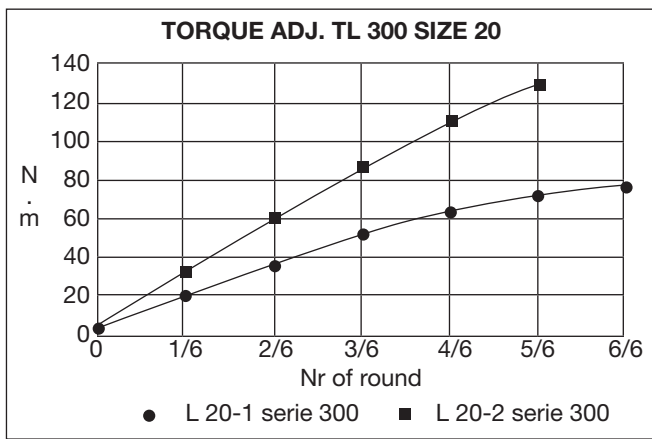
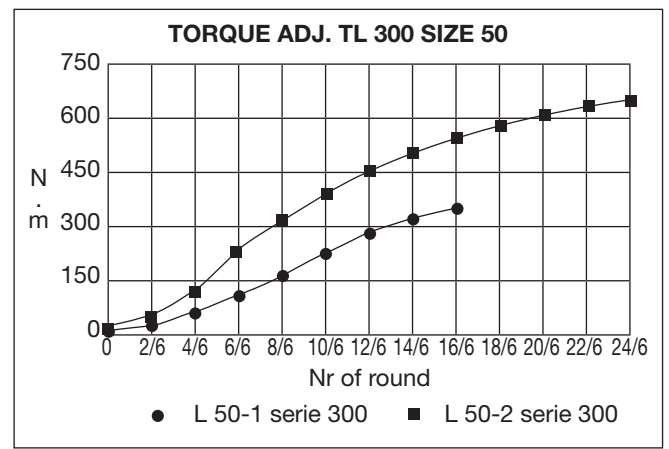
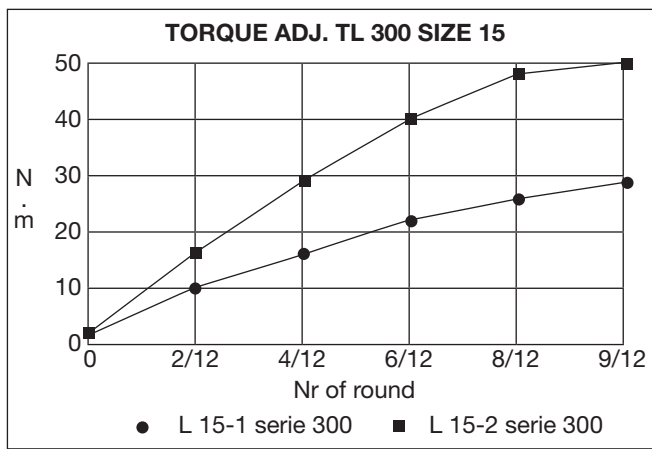
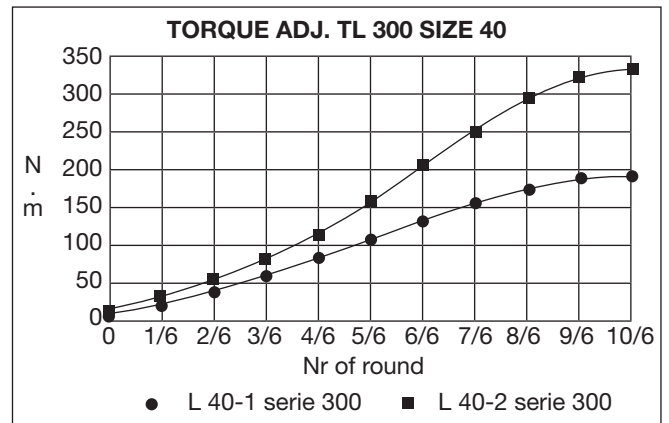
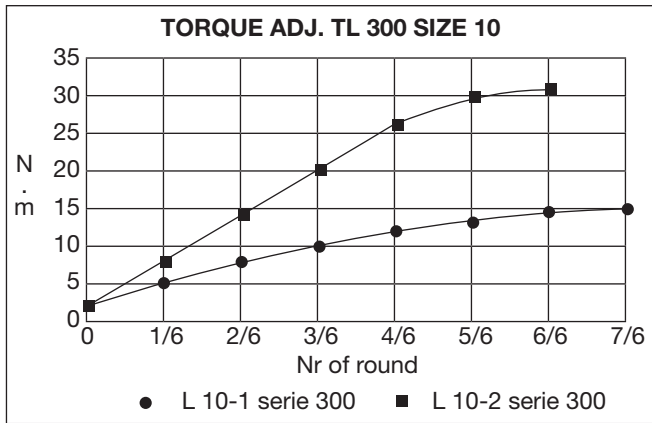
Wind the nut by hand. Ensure friction facings are concentric on the bush and the springs are correctly located on the pins. Apply spring load by tightening the 8 adjusting bolts in approximatly 60 degrees steps until no slip is observed under maximum load conditions in normal running mode. It is essential that all the 8 bolts have equal adjustments or damage to friction facings will occur.

Having set the torque limiter as outlined above, it is common practice to advance the bolts a further 60 degrees to prevent excess slip on machine start-up.

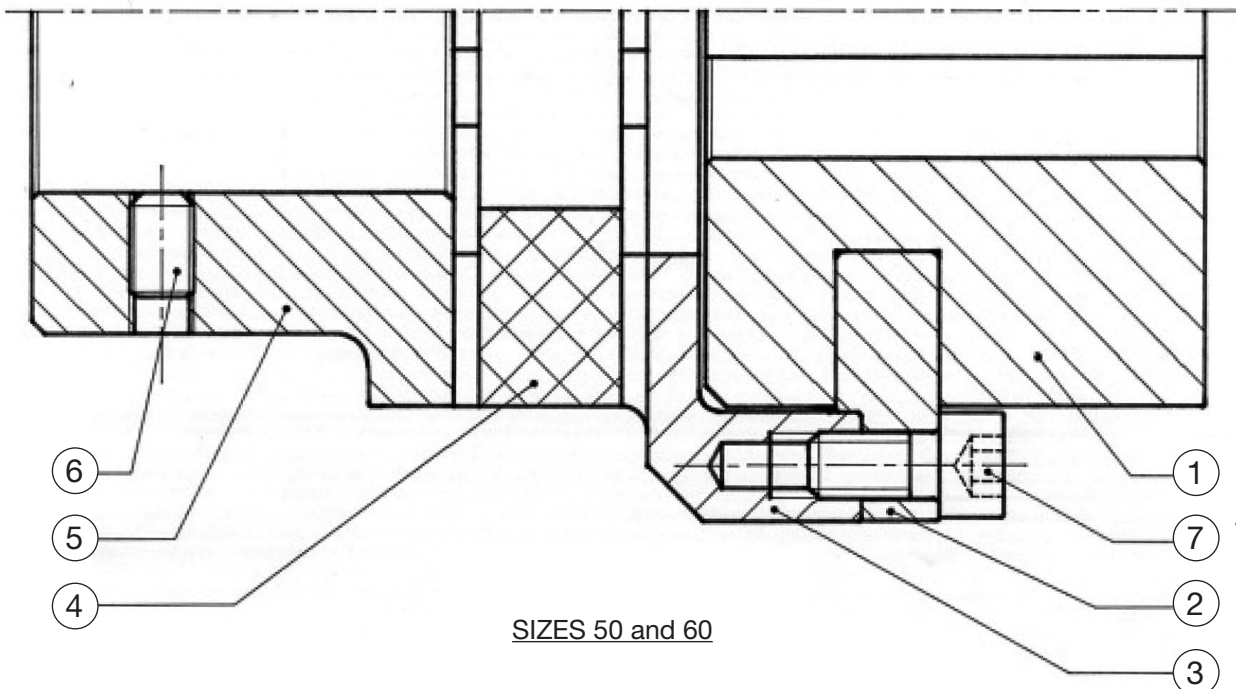
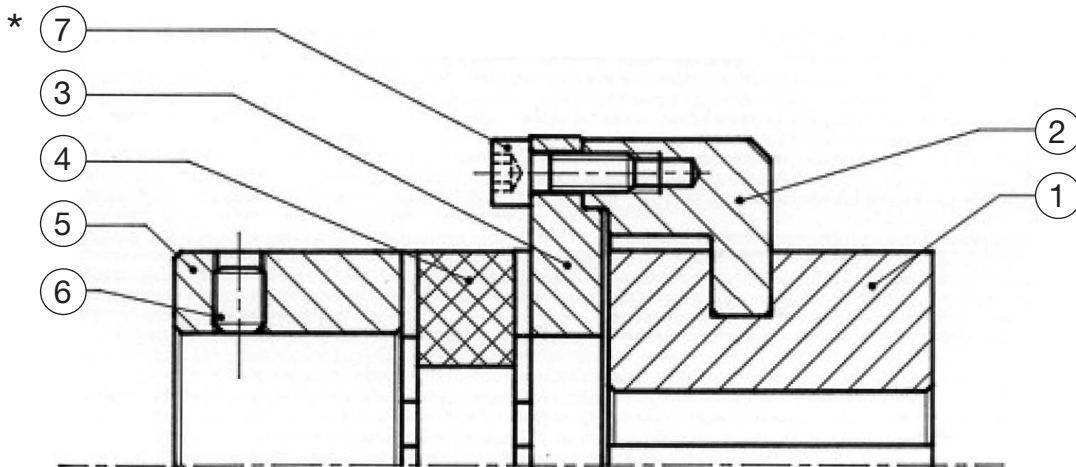
Lock the nut by tightening the 2 screws located in it.

Springs: For all sizes, the maximum torque is realised at approximatly 80% deflection of the spring. It is very important to do not exceed this value to avoid damage to the springs.

D						Date: 07-05-97 Name: B. Zema Checked: Y. Le Floch
C						
B						
A	-	Mise à jour fig. A et B (page 1/3)	11-09-97	YF	MP	
Iss.	FM	Object	Date	By	Checked	



SIZES 10 and 40



KEY:

- 1 - Torque Limiter
- 2 - Intermediate Flange
- 3 - Coupling Flange
- 4 - Spider
- 5 - Hur
- 6 - Screw
- *7 - Fixing Screw

* For serie 300-05, the fixing screws will be tighten to the thightening torque, indicated in the board here under. And installed with Loctite 270 or equivalence in other trade mark, by the customer.

SIZE	Fixing Screw		Tightening Torque (N.m)
	M	Qty	
10	M5	3	5.2 ±0.5
15	M5	6	5.2 ±0.5
20	M6	6	9.1 ±0.9
30	M8	6	22 ±2
40	M10	6	44 ±4
50	M10	4	44 ±4
60	M10	6	44 ±4

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