



# Torque Limiters Installation and Torque Setting Instructions

**Power Transmission Solutions**  
Regal Beloit America, Inc.  
7120 New Buffington Road  
Florence, KY 41042  
Application Engineering: 800 626 2093  
www.RegalPTS.com

**FORM**  
**4601E**  
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## ⚠ WARNING

- Read and follow all instructions carefully.
- Disconnect and lock-out power before installation and maintenance. Working on or near energized equipment can result in severe injury or death.
- Do not operate equipment without guards in place. Exposed equipment can result in severe injury or death.

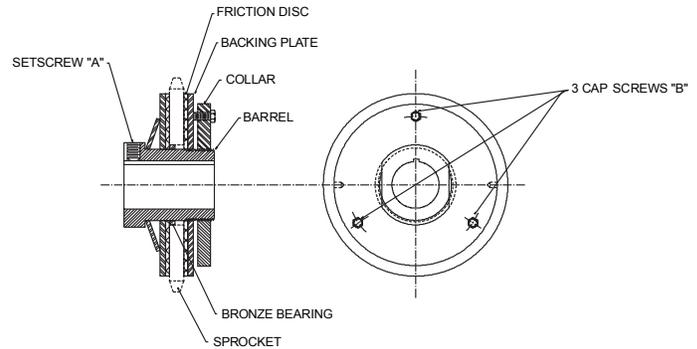
## ⚠ CAUTION

- Periodic inspections should be performed. Failure to perform proper maintenance can result in premature product failure and personal injury.

**BROWNING®** Torque Limiters provide overload protection on light drives by supplying a controlled and adjustable slip level.

## INSTALLATION

1. Clean shaft and Torque Limiter bore to remove any foreign matter. Make sure the shaft, sheave bore, keys and keyways are free of burrs, paint, etc. Slide Torque Limiter onto shaft. (While Torque Limiter can be mounted in either direction, mounting with collar away from machine housing permits easier adjustment.) Insert key and tighten setscrew "A" to the values in Table 1.
2. Remove collar, one backing plate, and one friction disc. Place Torque Limiter sprocket over bronze bearing. Slip friction disc and backing plate over barrel until they rest against sprocket. Make sure cap screws B are backed off until points are recessed in collar. Screw collar on barrel until it is finger-tight against backing plate.



**Table 1**

SET SCREW TORQUE (IN-LBS)	
Size	Torque
1/4 - 20	87
5/16 - 18	165
3/8 - 16	250

**Table 2**  
**Minimum Recommended Number of Teeth and Number of Bearings Required for Torque Limiters**

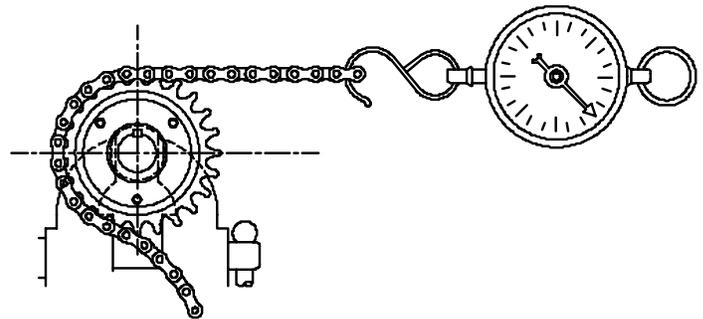
Torque Limiter	Chain Size											
	35		41		40		50		60		80	
	Min. Teeth	No. Brgs.										
T25L	25	1	20	1	20	1	—	—	—	—	—	—
T35L	—	—	26	1	26	1	21	2	—	—	—	—
T45L	—	—	—	—	32	1	26	1	22	2	—	—
T55L	—	—	—	—	—	—	32	1	27	2	21	2
T65L	—	—	—	—	—	—	—	—	32	1	24	2

One bronze bearing is packaged with each Stock Torque Limiter.  
Where an extra bearing is required, it is packaged with the Stock Torque Limiter Sprocket.

## ADJUSTMENT

To adjust the torque limiter to its maximum torque:

1. Back off the three cap screws "B" until the points are recessed in the threaded adjusting collar.
2. Tighten the collar by hand and then tighten the cap screws until the heads bottom against the collar.
3. The torque limiter can be adjusted to a lesser torque by loosening the cap screws and the collar, and then re-tightening the cap screws until the heads bottom against the collar. The torque may be checked in application, or by using a spring scale or other means as shown in the sketch.



**Table 3**  
**Approximate Maximum Torque Ratings in Inch-Pounds**

Part Number	With One Spring	With Two Springs
T25L	800	1100
T35L	1800	3000
T45L	2800	4900
T55L	3800	6800
T65L	4800	8800

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Have questions? Contact Technical Services at 1-800-626-2093.

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