Browning®

Torq/Pro® Torque Overload Device Installation and Maintenance Instructions for Models TPX10 - TPX70

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FORM
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⚠ WARNING

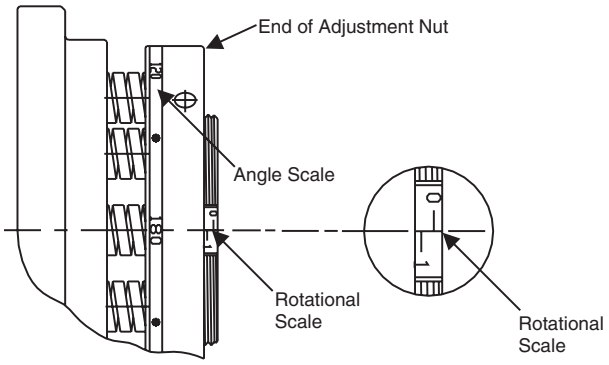
- Read and follow all instructions carefully.
- Disconnect and lock-out power before installation and maintenance. Working on or near energized equipment can result in severe injury or death.
- Do not operate equipment without guards in place. Exposed equipment can result in severe injury or death.

⚠ CAUTION

- Periodic inspections should be performed. Failure to perform proper maintenance can result in premature product failure and personal injury.
- All electrical work should be performed by qualified personnel and compliant with local and national electrical codes.

Torque Setting

TPX units must be adjusted to accommodate your required trip torque. Check to see that the angle and rotation scales show "0" (see figure below). To adjust Torque, loosen the setscrew on the adjustment nut, and then read the adjustment nut angle of required torque from the diagrams listed on the back of this page and rotate the nut to the required torque setting. To properly set Torque, rotate the adjustment nut 60 degrees less then required torque and perform a trip test. Continue rotating the adjustment nut to achieve the desired tripping torque. After adjusting the unit to the desired torque, tighten the setscrew(s) in the adjustment nut.



Installation and Maintenance

Slide the TPX onto the shaft; tighten setscrew(s) in the hub to lock the TPX onto the shaft. Use the table below for the required torque to properly tighten the setscrews(s). Use a parallel key in the keyway as the use of a tapered key will result in damage to the unit.

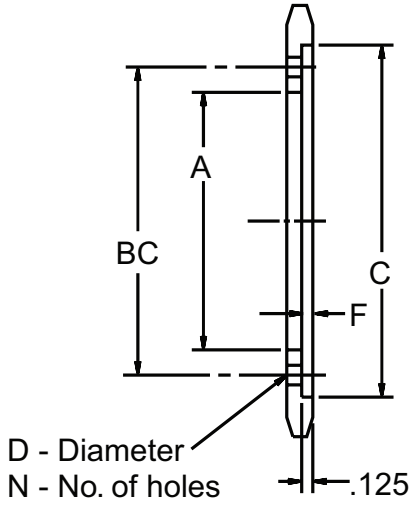
	TPX10	TPX20	TPX35	TPX50	TPX70
Bolt Size	M5	M5	M5	M8	M8
Tightening torque N-m	3.8	3.8	3.8	16	16

To attach a sprocket/pulley/gear onto the driven flange of the TPX, first test fit the sprocket/pulley/gear to make sure it will slide onto the driven flange and then tighten flange bolts to hold sprocket/pulley/gear to the TPX. To prevent the bolts from backing out or loosening, apply liquid thread locker to the bolt threads and use lock washers.

Browning TPX Drive Member Mounting Dimensions

Model	A	BC	C	D	N	F* (min.)
TPX10	1.72	2.126	2.443-2.446	3/16	4	0.125
TPX20	2.43	2.913	3.388-3.391	7/32	6	0.125
TPX35	2.82	3.465	4.215-4.218	9/32	6	0.125
TPX50	4.20	5.118	5.829-5.832	11/32	6	0.125
TPX70	5.38	6.457	7.285-7.288	7/16	6	0.125

.125" could be adjusted to a larger dimension to accommodate standard screw lengths



REGAL™

Maintenance

After every 1,000 engagements, or at least annually, disassemble the unit and apply NGLI2 lithium based, EP grease to the internal bearing and ball detent grooves.

Mobilux EP2	Listun EP2	Alvania EP Grease 2	Nisseki-Mitsubishi Epinoc EP 2	Rizonics EP2	Daphne Eponex Grease EP No. 2	Kygnus EP Grease 2

The names referenced in the table above are believed to be the trademarks and/or trade names of their respective owners and are not owned or controlled by Regal Beloit Corporation.

Application Considerations

Do not use the TPX in an environment in which flammable liquids, gases, or dust is present, as frequent tripping of the TPX may create sparks

*To Convert: (N-m) to (ft-lb) Multiply (N-m) x 0.7375