



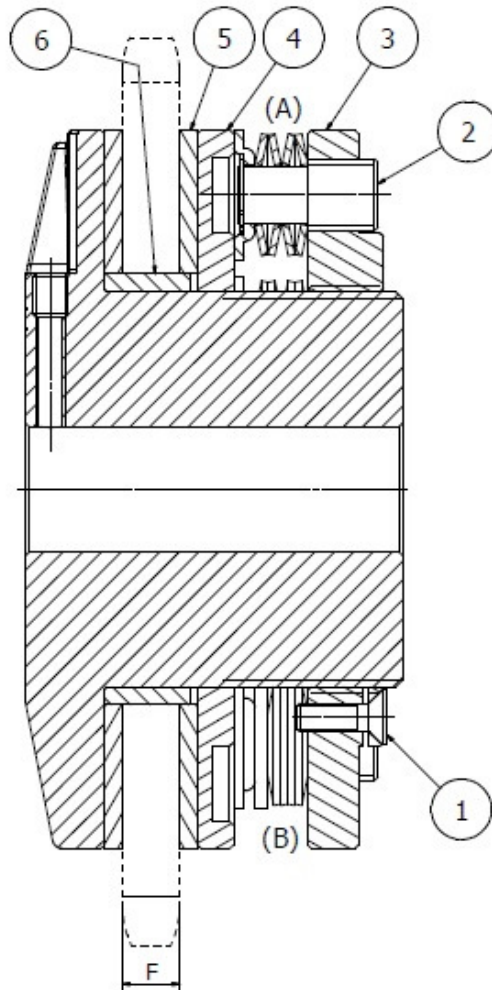
Power Transmission Solutions

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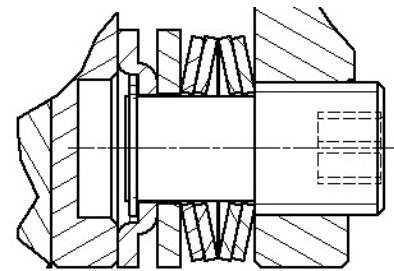
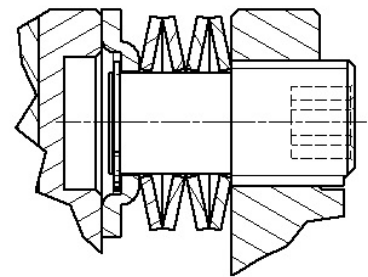
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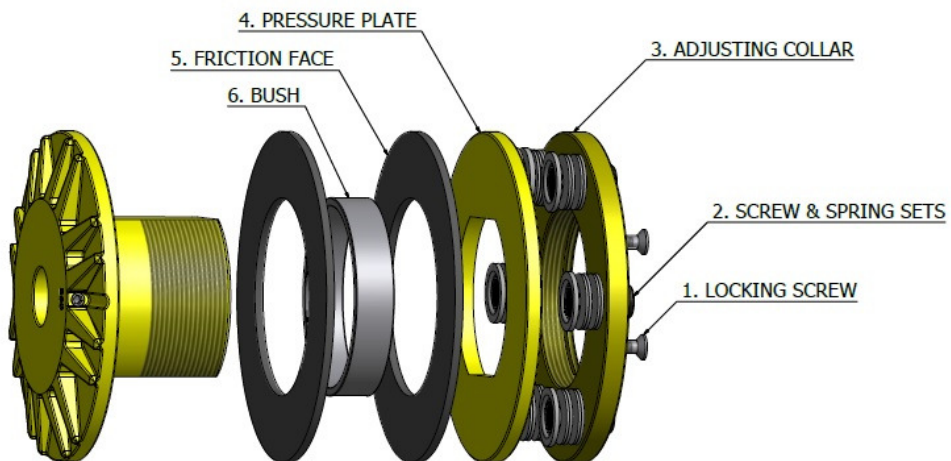
INSTALLATION AND ADJUSTMENT OF M200/254/280 TORQUE LIMITERS



CONFIGURATION A



CONFIGURATION B



MODELS M200/254/280

- A. To install platewheel release the two locking screws (Part 1) to enable free rotation of the main adjusting collar (Part 3). Remove collar (unscrew c.clockwise) with adjusting screws and spring sets; then take off pressure plate (Part 4) and one friction face (Part 5).
- B. Fit platewheel over bush (Part 6) and assemble back friction face ensuring it is fitting on bush, and then replace the pressure plate, ensuring recessed face is outwards.

Prior to refitting the adjusting collar with screws and spring sets, ensure springs are assembled according to torque requirements, either in configuration "A" or "B". It is essential all spring sets must be assembled in the same arrangement. Torque ratings are shown below. With spring sets and washers all in place, replace the locking collar on hub and screw up until resistance to springs is felt. The adjusting screws on all the springs should be totally released, i.e. the top of the screws should be protruding from the collar by approximately 1mm. When locking collar is in place ensure all is correct, particularly that the two friction facings are sitting on bush (they should be concentric with hub and pressure plate) and that the springs are all correctly located on the pins. If all correct, tighten the two locking screws (1), and then tighten all adjusting screws to minimum torque (1 to 2 Nm) to ensure all equally positioned.

- C. Adjustment or torque is by screwing in the adjusting screws equally until no slip occurs on starting of machinery. Whilst initial adjustment can be coarse (1 turn of screw), it is recommended final adjustment to be no more than 60° turn steps. When no slip occurs it is customary to turn the bolts a further 60° to prevent excess slip on start-up.

Maximum torque is achieved at approximately 80% deflection of the springs, it is important not to exceed this value to avoid damage to the springs. The standard bush length is to suit platewheels with thickness 'F' in the catalogue. If the platewheel is thinner the bush should be reduced by the difference to the minimum size, and if thicker a second bush is required to provide a total length 6mm greater than the platewheel thickness.

Torque Capacities

TORQUE LIMITER MODEL	SPRING CONFIGURATION	MINIMUM TORQUE	MAXIMUM TORQUE	PLATEWHEEL THICKNESS (F)
M200	(A)	440 Nm	2200 Nm	16.0 - 18.2
M200	(B)	800 Nm	4000 Nm	
M254	(A)	760 Nm	3800 Nm	23.8 – 26.0
M254	(B)	1350 Nm	6800 Nm	
M280	(A)	1100 Nm	5500 Nm	23.8 – 26.0
M280	(B)	2000 Nm	10000 Nm	