

AUTOGARD SERIES 400

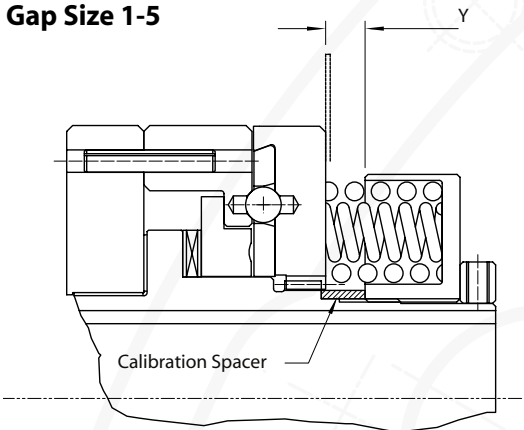
TORQUE LIMITER ACCESSORIES

Standard Springs

The torque carrying capacity of the Series 400 Torque Limiter can be varied by the position of the adjusting nut and the number and configuration of the springs supplied.

Coil springs are offered on sizes 1 to 5, the number and length of which can be varied to provide an optimum range of torque settings. The larger size Torque Limiters utilise disc spring stacks which can be varied in thickness to provide a range of torque settings. The actual torque setting of a unit is directly related to the gap 'Y' - refer to table 1. Consult Autogard Engineering for details on quantities and configurations for the spring assemblies offered on each size.

Gap Size 1-5



Gap Size 6+

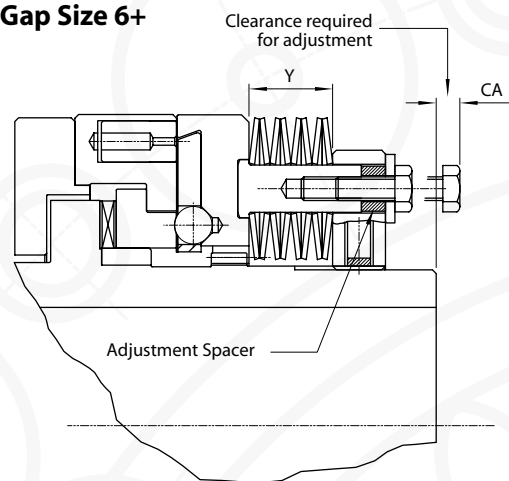


Table 1

Size		1	2	3	4	5	6	7	8	9
Min Gap 'Y'	(in)	.075	.20	.20	.20	.40	1.05	1.15	2.05	3.23
	(mm)	1.9	5.1	5.1	5.1	10.2	26.7	29.2	52.1	82.0
Clearance 'CA'	(in)	-	-	-	-	-	3/8	1/2	1	1-1/2
	(mm)	-	-	-	-	-	9.5	12.7	25.4	38.1

Torque Adjustment

The Series 400 Torque Limiter can be shipped from the factory with the torque setting specified at the time of the order or furnished unset for adjustment at the time of installation. It should be noted that in the event that the torque ranges are not specified, Autogard will supply the torque limiter with a spring arrangement to provide the maximum rating for the size ordered.

Sizes 1 to 5 are furnished with a calibration spacer that prevents adjustment beyond the maximum torque rating of the unit. If factory setting is required, a spacer can be furnished to prevent adjustment to a higher value than that set at the factory. Standard units are not supplied with the spacer, which must be requested at the time the order is placed. The spacer must be removed to allow tightening of the adjustment nut to achieve a higher torque value. On sizes 6 and larger, positioning spacers are provided to prevent torque adjustment. If removed to make an adjustment, they must be replaced to assure proper operation.

In some cases the exact torque setting requirements are difficult to calculate with a reasonable degree of accuracy, therefore the recommended installation procedure would be to try to start the drive with a low torque setting, progressively tightening the adjusting nut until the unit will start and drive the mechanism without disengaging under normal conditions. Before attempting to turn the adjusting nut, ensure that the locking set screw is loosened and for sizes 6+, the locking key is removed. Replace keys and tighten setscrew after final adjustment.

Caution

DO NOT TIGHTEN THE ADJUSTING NUT SO THAT THE SPRINGS ARE COMPRESSED BEYOND THEIR MINIMUM OPERATING LENGTH, dimension Y, Table 1, or the springs will not allow sufficient movement of the slide plate to let the balls leave their seats during an overload. Damage to the machinery or to the Autogard Torque Limiter will result.

It is important that our product is used in the correct manner and that adjustments and setting in relation to a particular function follow recommended procedures.