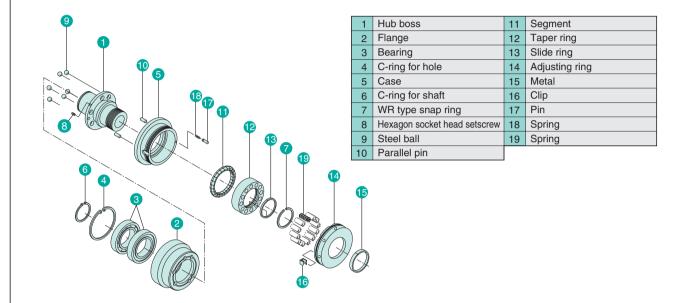
WER CONTROL SYSTEMS



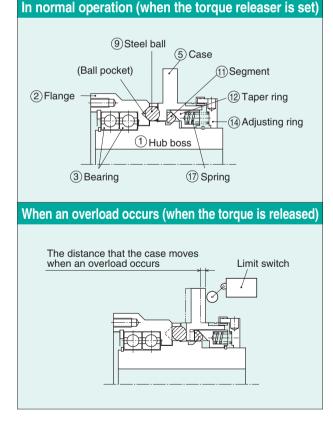
Design and Operating Principle (TY Series)

The TY series of torque releasers is available in A, D and AR types, to meet the users' needs more closely. The clutch mechanism is basically the same in all three types. The design and operating principle will be explained using type TY \Box A as the example.



Head Office

- (1) In normal operation, the steel balls (a) held by the hub boss (1) are forced into the ball pocket of the hub boss (1) by the spring (19), and the torque is transmitted from the hub boss (1) through the steel balls (a) to the flange (2).
- (2) When an overload occurs, the steel balls (a) are pushed out along the sloping ball pocket in the flange (2) in order to stop transmitting torque. In addition, the segment (1) moves up the hub boss slope against the force of the springs (a) to open the gap between the case (5) and the taper ring (12), finally reaching the peak of the hub boss. Consequently, the force needed to press the steel balls (a) against the ball pocket in the flange (2) is removed and therefore the flange (2) is free to rotate on the bearing (3). At this time, since the case (5) moves in the axial direction (toward the adjusting ring (14), you can use this motion to detect an overload by installing a limit switch, proximity switch or the like.
- (3) To resume operation, remove the cause of the overload and rotate the input side or the output side of the torque releaser until the marks on the hub boss (1) and flange (2) are aligned, and then press the case (5) against the flange (2) to reset it.



*Dimensions and specifications are subject to change without prior notice.



 Tel:(06)6384-1212
 Fax:(06)6338-1415

 Tokyo Branch
 Shibaishii Bldg. 9-3, 4-Chome, Shiba, Minato-ku, Tokyo, 108-0014, Japan Tel:(03)3769-3434

 Fax:(03)3769-1033

 Nagoya Branch
 YMD Bldg. 20-25, 1-Chome, Nishiki, Naka-ku, Nagoya, 460-0003, Japan

29-2, 2-Chome, Minamikaneden, Suita Osaka, 564-0044, Japan

YMD Bldg. 20-25, 1-Chome, Nishiki, Naka-ku, Nagoya, 460-0003, Japan Tel:(052)231-3455 Fax:(052)231-3566 11