

DYNATORQUE

VALVE ACTUATORS AND ACCESSORIES

ISO 5211 Manual Overrides: Double Acting & Spring Return

Sizing & Ordering

DynaTorque ISO 5211 manual overrides have been sized based on a combination of maximum allowable torque for a given ISO flange size and the interface dimensions associated with that flange size. Sizes shown on the matrixes are suggestions only, and in all cases sizing is the responsibility of the specifying entity. Contact DynaTorque for technical assistance (email info@dynatorque.com, phone 231-739-1431, fax 231-739-4514)

In some cases, the actual application torque would suggest that the overrides indicated on these matrixes may be oversized. Keep in mind that the combinations suggested on these matrixes take into consideration torque, drive coupling dimensions, and mounting pattern dimensions and their relative compatibility with the PA series product sized. (Example: When an actuator is operated at 40 PSI instrument air, the amount of torque required for that application is much different (less) than if the actuator were operating using 80 PSI instrument air. The actuators ISO mounting dimensions are determined by the torque the actuator can produce at maximum instrument air and may be too large for an override that has been sized strictly on torque).

Dimensions:

Bolting Patterns- Top flanges are per ISO 5211:2001(E) Section 5, Table 2 with through clearance holes for Unified Standard thread forms. Bottom surface bolt patterns are per ISO 5211:2001(E) section 5, Table 2 with tapped holes to Unified Standard thread forms.

Drive Coupling- Top ends have male squares per ISO 5211:2001(E) Section 7.3 Table 5. Bottoms have female squares per ISO 5211:2001(E) Section 7.3, Table 5. All tolerances are per DynaTorque standards.

Ratings:

Torque Ratings- All unit ratings exceed those specified in ISO 5211:2001(E) section 4 table 1.

Handwheel Sizing- Handwheel sizing is based on the flange torques indicated in ISO 5211:2001(E), Section 4, Table 1. This differs from standard handwheel sizing in that the ISO flange ratings generally require less torque than the standard PA series product ratings. Handwheel diameters in the ISO matrixes are of equal or smaller diameters than the DynaTorque standards.

References: ISO 5211:2001(E), Section 4, Table 1
ISO 5211:2001(E), Section 5, Table 2
ISO 5211:2001(E), Section 7.3, Table 5

Please Note:

When assembling DynaTorque products to a valve or to an automated valve package, standard engineering practices must be utilized to assure proper mounting orientation, configuration, and distribution of weights and forces. Failure to do so could cause product damage and/or malfunction, **and void warranty consideration**. If there are any questions please contact the factory at info@dynatorque.com.