
International Standard



5211/2

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Part-turn valve actuator attachment — Part 2 : Flange and coupling performance characteristics

*Raccordement des servomoteurs à fraction de tour aux appareils de robinetterie —
Partie 2 : Caractéristiques d'utilisation de l'embase et de l'accouplement*

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 5211/2 was developed by Technical Committee ISO/TC 153, *General purpose industrial valves*, and was circulated to the member bodies in August 1978.

ISO 5211-2:1979

It has been approved by the member bodies of the following countries :

Australia	India	Romania
Austria	Ireland	South Africa, Rep. of
Belgium	Italy	Sweden
Canada	Japan	Switzerland
Chile	Korea, Rep. of	United Kingdom
Finland	Mexico	USA
France	Netherlands	USSR
Germany, F. R.	Norway	

The member body of the following country expressed disapproval of the document on technical grounds :

Czechoslovakia

Part-turn valve actuator attachment —

Part 2 : Flange and coupling performance characteristics

1 Scope and field of application

This International Standard specifies reference values for torque for flanges having the dimensions specified in ISO 5211/1.

2 Reference

ISO 5211/1, *Part-turn valve actuator attachment — Part 1 : Flange dimensions.*

3 Definition

torque : A turning moment transmitted through the mounting flanges and couplings. It is expressed in newton metres.

4 Maximum torques

The torque values listed in the table represent the maximum torques which can be transmitted through the mounting flanges and couplings, and are based upon specified criteria.

Flange type	Torque N·m
F05	125
F07	250
F10	500
F12	1 000
F14	2 000
F16	4 000
F25	8 000
F30	16 000
F35	32 000
F40	63 000
F48	125 000

NOTES

1 All values have been selected on the basis of the following assumptions :

- bolt material : ISO class 8.8; yield stress 628 N/mm²;
- allowable stress : 200 N/mm²;
- bolts in tension only; no allowance is made for stresses induced by tightening the bolts;
- coefficient of friction between the mounting flanges : 0,3.

2 1 N/mm² = 1 MPa.

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