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# International Standard



# 5211/2

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## 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*

First edition — 1979-12-15

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**Descriptors** : industrial valves, servomotors, junctions, base plates, couplings, torque.

Price based on 1 page

## 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.

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

|                |                |                       |
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| Australia      | India          | Romania               |
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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<br>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/mm<sup>2</sup>;
- allowable stress : 200 N/mm<sup>2</sup>;
- 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/mm<sup>2</sup> = 1 MPa.