
Industrial-process control valves - Part 6-2: Mounting details for attachment of positioners to control valves - Positioner mounting on rotary actuators (IEC 60534-6-2:2000)

Industrial-process control valves -- Part 6-2: Mounting details for attachment of positioners to control valves - Positioner mounting on rotary actuators

Stellventile für die Prozessregelung -- Teil 6-2: Montageeinzelheiten zur Befestigung von Stellungsreglern an Stellventil-Antriebe - Montage von Stellungsreglern an Schwenkantriebe

Vannes de régulation des processus industriels -- Partie 6-2: Détails d'assemblage pour le montage des positionneurs sur les actionneurs de vannes de régulation - Montage des positionneurs sur les actionneurs rotatifs

Ta slovenski standard je istoveten z: EN 60534-6-2:2001

ICS:

23.060.40	V æ } ã^* ~ æ ã	Pressure regulators
25.040.40	Merjenje in krmiljenje industrijskih postopkov	Industrial process measurement and control

SIST EN 60534-6-2:2002**en**

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 60534-6-2:2002

<https://standards.iteh.ai/catalog/standards/sist/f4e3407f-cf9c-4aa2-b2b3-52e4556b3dc9/sist-en-60534-6-2-2002>

EUROPEAN STANDARD

EN 60534-6-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

February 2001

ICS 23.040;25.040.040

English version

**Industrial-process control valves
Part 6-2: Mounting details for attachment
of positioners to control valves -
Positioner mounting on rotary actuators
(IEC 60534-6-2:2000)**

Vannes de régulation des processus
industriels
Partie 6-2: Détails d'assemblage pour le
montage des positionneurs sur les
actionneurs de vannes de régulation -
Montage des positionneurs sur les
actionneurs rotatifs
(CEI 60534-6-2:2000)

Stellventile für die Prozessregelung
Teil 6-2: Montageeinzelheiten zur
Befestigung von Stellungsreglern
an Stellventil-Antriebe -
Montage von Stellungsreglern an
Schwenkantriebe
(IEC 60534-6-2:2000)

<https://standards.iteh.ai/catalog/standards/sist/f4e3407f-cf9c-4aa2-b2b3-52e4556b3dc9/sist-en-60534-6-2-2002>

This European Standard was approved by CENELEC on 2001-01-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

The text of document 65B/410/FDIS, future edition 1 of IEC 60534-6-2, prepared by SC 65B, Devices, of IEC TC 65, Industrial-process measurement and control, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60534-6-2 on 2001-01-01.

The following dates were fixed:

- latest date by which the EN has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 2001-10-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2004-01-01

Endorsement notice

The text of the International Standard IEC 60534-6-2:2000 was approved by CENELEC as a European Standard without any modification.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 60534-6-2:2002](https://standards.iteh.ai/catalog/standards/sist/f4e3407f-cf9c-4aa2-b2b3-52e4556b3dc9/sist-en-60534-6-2-2002)

<https://standards.iteh.ai/catalog/standards/sist/f4e3407f-cf9c-4aa2-b2b3-52e4556b3dc9/sist-en-60534-6-2-2002>

**NORME
INTERNATIONALE
INTERNATIONAL
STANDARD**

**CEI
IEC**

60534-6-2

Première édition
First edition
2000-11

Vannes de régulation des processus industriels –

Partie 6-2:

**Détails d'assemblage pour le montage
des positionneurs sur les actionneurs
de vannes de régulation –**

**Montage des positionneurs sur
les actionneurs rotatifs**

[SIST EN 60534-6-2:2002](https://standards.iteh.ai/catalog/standards/sist/f4e3407f-cf9c-4aa2-b2b3-32c4556f6c73/sist-en-60534-6-2-2002)

<https://standards.iteh.ai/catalog/standards/sist/f4e3407f-cf9c-4aa2-b2b3-32c4556f6c73/sist-en-60534-6-2-2002>

Industrial-process control valves –

Part 6-2:

**Mounting details for attachment of positioners
to control valves – Positioner mounting
on rotary actuators**

© IEC 2000 Droits de reproduction réservés — Copyright - all rights reserved

Aucune partie de cette publication ne peut être reproduite ni utilisée sous quelque forme que ce soit et par aucun procédé, électronique ou mécanique, y compris la photocopie et les microfilms, sans l'accord écrit de l'éditeur.

No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

International Electrotechnical Commission
Telefax: +41 22 919 0300

3, rue de Varembé Geneva, Switzerland
e-mail: inmail@iec.ch IEC web site <http://www.iec.ch>



Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

CODE PRIX
PRICE CODE

F

Pour prix, voir catalogue en vigueur
For price, see current catalogue

INTERNATIONAL ELECTROTECHNICAL COMMISSION

INDUSTRIAL-PROCESS CONTROL VALVES –

**Part 6-2: Mounting details for attachment of positioners
to control valves – Positioner mounting on rotary actuators**

FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, the IEC publishes International Standards. Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of the IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested National Committees.
- 3) The documents produced have the form of recommendations for international use and are published in the form of standards, technical specifications, technical reports or guides and they are accepted by the National Committees in that sense.
- 4) In order to promote international unification, IEC National Committees undertake to apply IEC International Standards transparently to the maximum extent possible in their national and regional standards. Any divergence between the IEC Standard and the corresponding national or regional standard shall be clearly indicated in the latter.
- 5) The IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with one of its standards.
- 6) Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. The IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 60534-6-2 has been prepared by subcommittee 65B: Devices, of IEC technical committee 65: Industrial-process measurement and control.

The text of this standard is based on the following documents:

FDIS	Report on voting
65B/410/FDIS	65B/419/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 3.

The committee has decided that the contents of this publication will remain unchanged until 2006. At this date, the publication will be

- reconfirmed;
- withdrawn;
- replaced by a revised edition, or
- amended.

INDUSTRIAL-PROCESS CONTROL VALVES –

Part 6-2: Mounting details for attachment of positioners to control valves – Positioner mounting on rotary actuators

1 Scope

This part of IEC 60534 is intended to permit a variety of positioning devices, which respond to a rotary motion, to be mounted on the actuator of a control valve, either directly or by employing an intermediate mounting bracket. This standard is applicable where interchangeability between actuators and positioners is desired.

- a) The standardized mounting in this standard defines the interface between the positioner and a part of the actuator having a rotary movement proportional to the control valve travel.
- b) This standard also covers the direct connection between the positioner feedback and the shaft (or its axial extension) of a rotary control valve. In such cases, the feedback rotation is coincident with the valve angular travel.
- c) The standardized mounting applies to those rotary actuators in which the rotary part mentioned in item a) has a maximum travel of 90°. Such a travel is coincident with the valve travel when a direct connection (see item b)) is performed.
- d) The standardized mounting is divided into two options. Figure 1 shows the basic design and defines the minimum requirements an actuator must fulfill to adapt most common positioners. The universal design in figure 2 offers more variations of positioner adaptation and positioner feedback connection. The positioner manufacturer should state which mounting design is required.

<https://standards.iteh.ai/catalog/standards/sist/f4e3407f-cf9c-4aa2-b2b3-52e4556b3dc9/sist-en-60534-6-2-2002>

2 Definitions

For the purpose of this part of IEC 60534, the definitions given in other parts of IEC 60534 apply.

3 Positioner mounting

3.1 To allow the attachment of the positioner, the actuator manufacturer shall provide a drilled plane surface perpendicular to the axis of the end of the rotary part mentioned in item a) of clause 1 and located at the distance indicated in figure 1 or 2, as appropriate.

3.2 The multiple drilling allows for different dimensions and masses of the positioner housing.

3.3 The positioner may be mounted directly on the actuator, or indirectly by means of an intermediate bracket. The bracket on which the positioner is mounted may be an integral part of the actuator housing.

3.4 The mounting design shall take vibration resistance into consideration.

4 Feedback connection

4.1 The valve (or actuator) manufacturer shall provide suitable machining of the rotary part end as shown in figures 1 and 2.

4.2 The positioner manufacturer shall provide appropriate means for connecting the moving parts of the positioner to the shaft or shaft extension. The design of such linkage shall minimize the lost motion along the feedback path.

4.3 To allow for the possibility that the rotary part is rigidly connected to the valve shaft, thermal linear expansion of the rotary part of up to 1 mm shall be taken into account by the positioner manufacturer.

4.4 The feedback connection shall take vibration resistance into consideration.

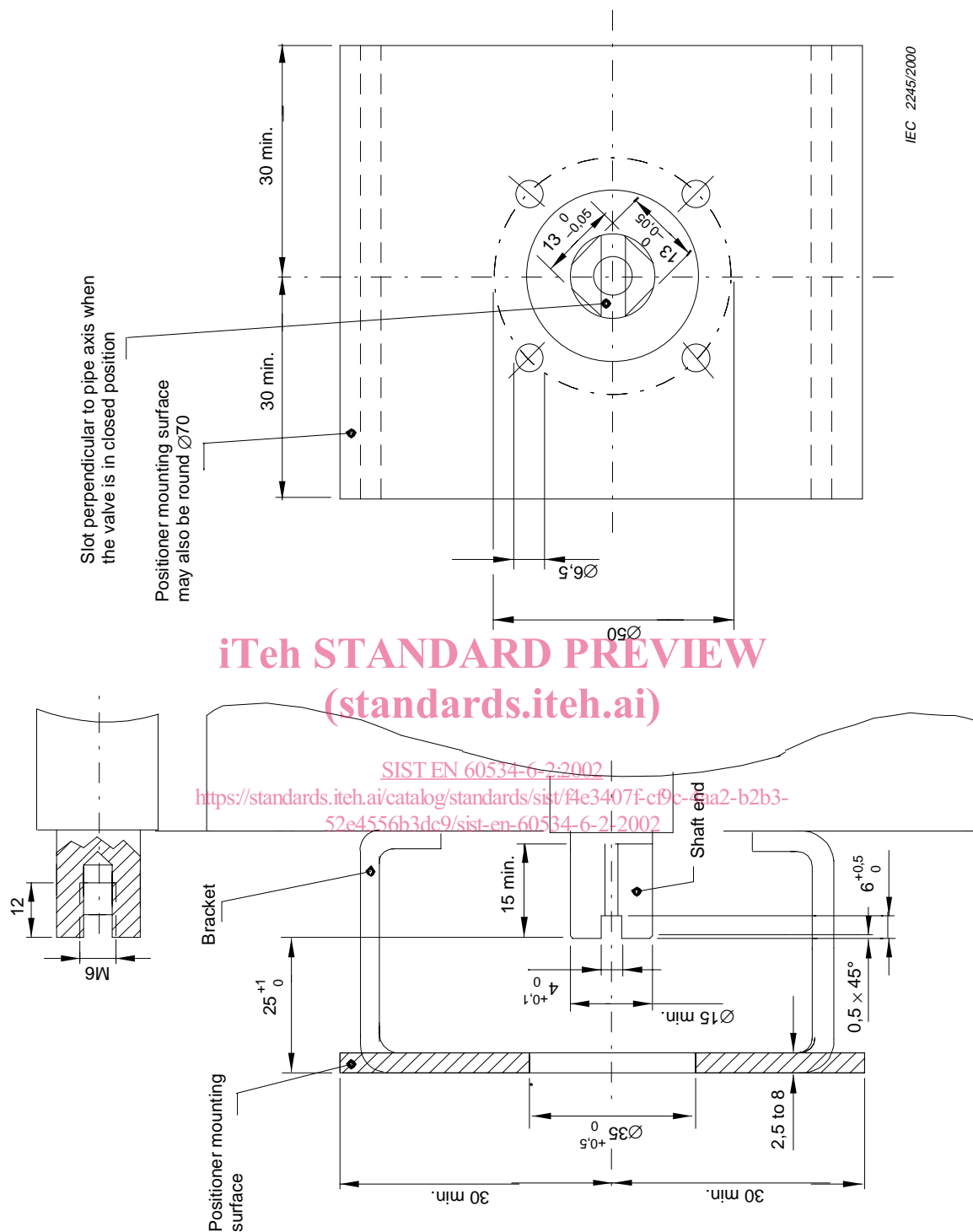
5 Mounting accessories

Unless otherwise specified, the positioner manufacturer shall provide two or more M6 screws (plus nuts and washers) according to the design of the positioner, to permit the positioner mounting on the actuator.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 60534-6-2:2002

<https://standards.iteh.ai/catalog/standards/sist/f4e3407f-cf9c-4aa2-b2b3-52e4556b3dc9/sist-en-60534-6-2-2002>



Dimensions in millimetres

NOTE The shaft end may be square or round. Flats are not required for round shaft end.

Figure 1 – Basic design