



SLOVENSKI STANDARD
SIST EN 50041:1998

01-februar-1998

Low-voltage switchgear and controlgear for industrial use - Control switches 42,5 x 80 - Dimensions and characteristics

Low-voltage switchgear and controlgear for industrial use - Control switches - Position switches 42,5 x 80 - Dimensions and characteristics

Industrielle Niederspannung-Schaltgeräte - Hilfsstromschalter - Positionsschalter 2,5 x 80 - Masse und Kennwerte

Appareillage industriel à basse tension - Auxiliaires de commande - Interrupteurs de position 42,5 x 80 - Dimensions et caractéristiques

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Ta slovenski standard je istoveten z: EN 50041:1981

ICS:

29.130.20	Nizkonapetostne stikalne in krmilne naprave	Low voltage switchgear and controlgear
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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 50 041
Edition 1
July 1981

UDC: 621.316.542:621.3.027.2

Key words: electrical switchgear and controlgear, industrial use, low voltage, control switch, switch, position switch, dimensions, characteristics, operation point

English version

Low voltage switchgear and controlgear for industrial use

Control switches

Position switches 42,5 × 80

Dimensions and characteristics

Appareillage industriel à basse tension — Industrielle Niederspannungs-Schaltgeräte —
Auxiliaires de commande. Interrupteurs de Hilfsstromschalter. Positionsschalter
position 42,5 x 80. Dimensions et 42,5 x 80. Masse und Kennwerte
caractéristiques

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This European Standard was adopted by CENELEC on 1981-07-07. The CENELEC members are bound to adhere to the CENELEC Internal Regulations which specify under which conditions this European Standard has to be given, without any alteration, the status of a national standard.

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

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CENELEC

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

General Secretariat: rue Bréderode 2, Boîte 5, B-1000 Brussels

This European Standard has been prepared by Technical Committee CENELEC TC 17X.

1. Scope

This standard applies to certain position switches with automatic return actuator for industrial use, the standardized dimensions of which and the characteristics necessary for their application are given below.

Electric characteristics shall conform to those of IEC Publication 337 – Control switches.

This standard includes the six following types:

- roller lever (form A),
- rounded plunger (form B),
- plunger with roller (form C),
- rod lever (form D),
- rounded plunger side actuator (form F),
- roller plunger side actuator (form G).

The devices are fitted with either snap action designated (1) in clause 3 or slow make and break, designated (2) in clause 3, mechanisms.

2. Dimensions

The dimensions shown in figures 1, 2, 3, 4, 5, 6 and 7 are applicable to switches in a new condition.

The operating point corresponds to the opening of the break-contact element. The operating point can drift during the life of the switch. The manufacturer shall indicate the direction of the drift.

The differential travel (difference between the operating and reset points) of a position switch with snap action mechanism shall be stated by the manufacturer; it is shown as H in figures 2, 3, 4, 6 and 7, and differs dependent upon the type of actuator.

Apart from the dimensions indicated, the design of these devices is not restricted.

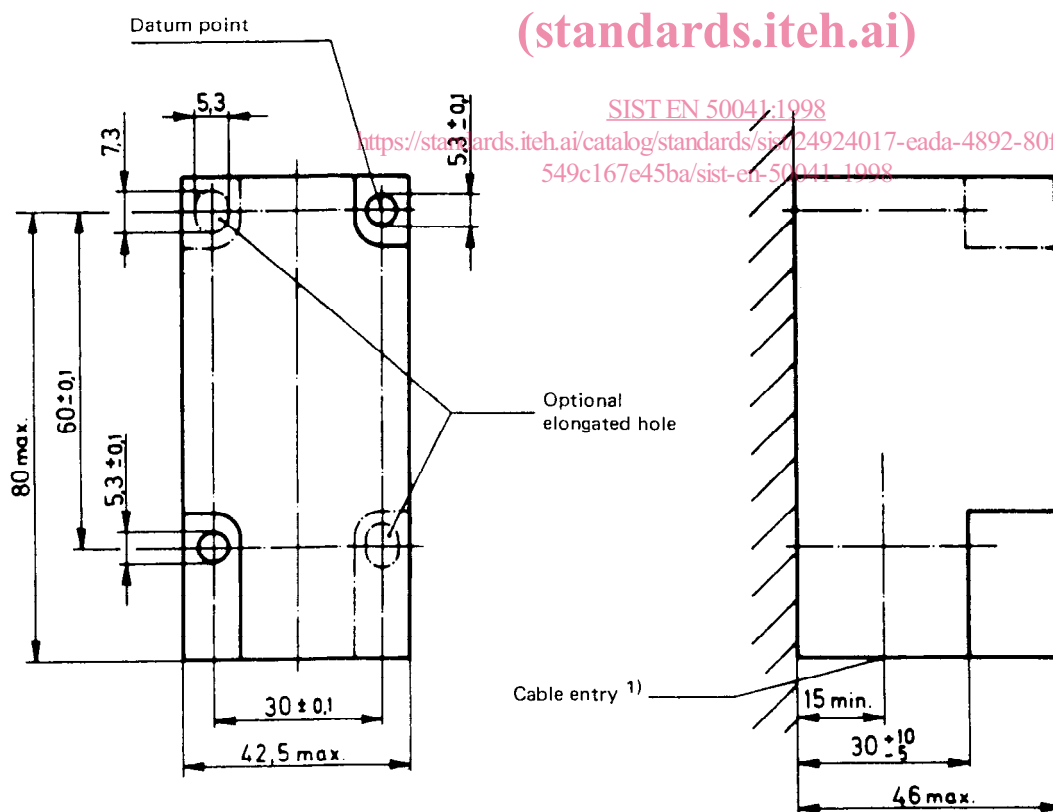
Dimensions are given in mm.

2.1 Enclosure

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1) The threaded cable entry standardized in each country (Pg 13,5 – CM 12, etc.) may be used until the publication of an international standard. The manufacturer shall specify the thread.

A cable with an external diameter not exceeding 12 mm shall pass through the cable entry.

Figure 1. Dimensions of enclosure

2.2 Roller lever actuator (form A)

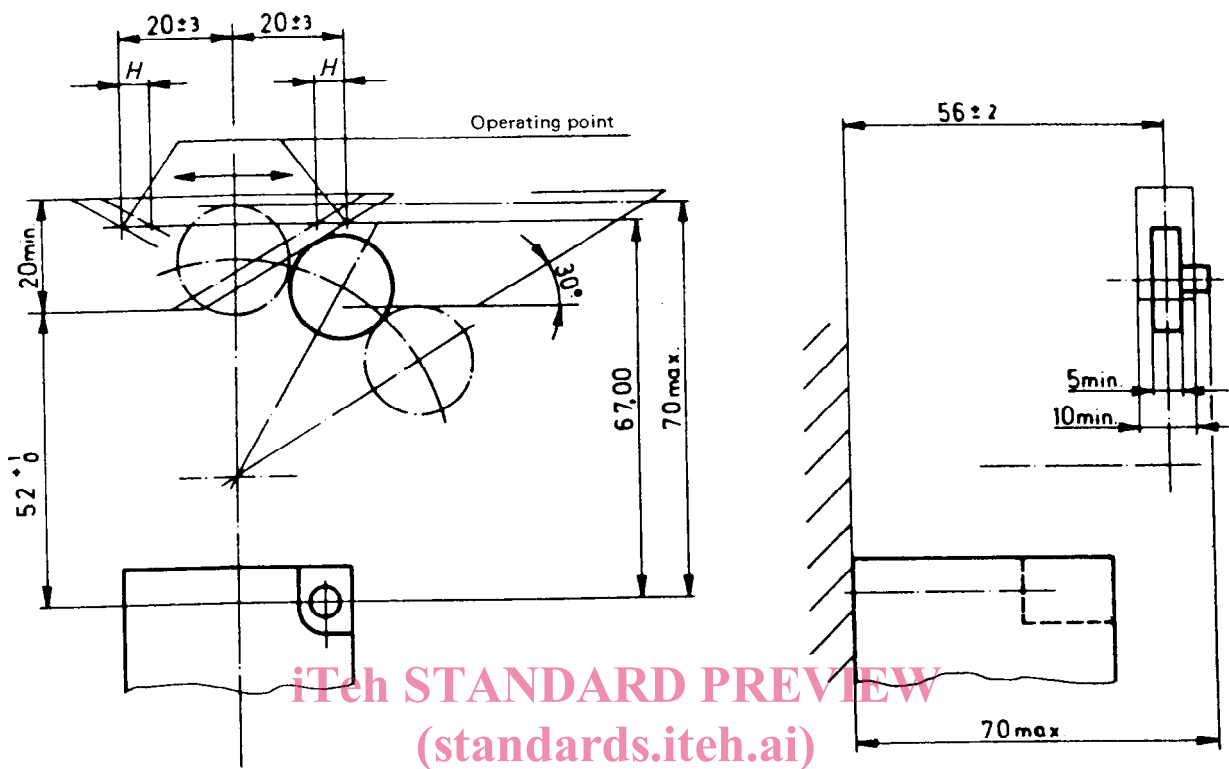


Figure 2. Roller lever actuator

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2.3 Rounded plunger actuator (form B)

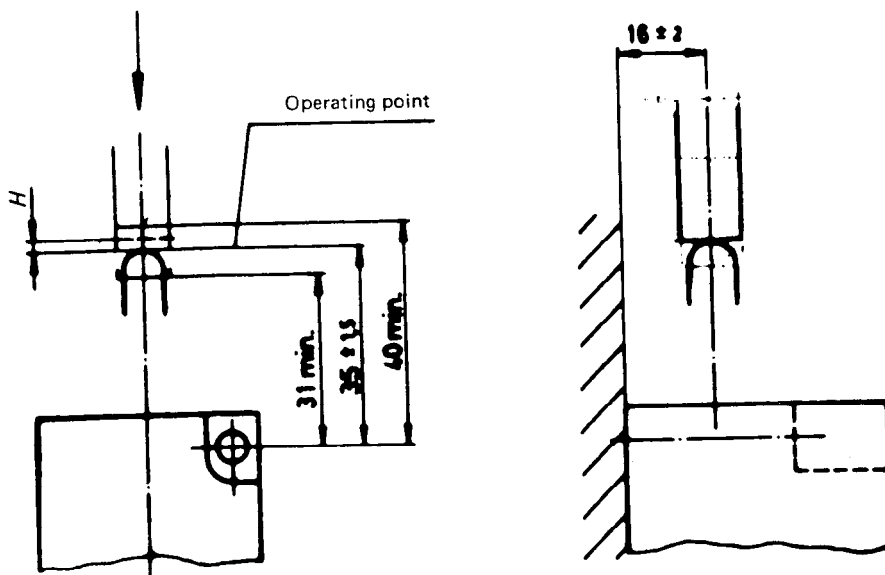
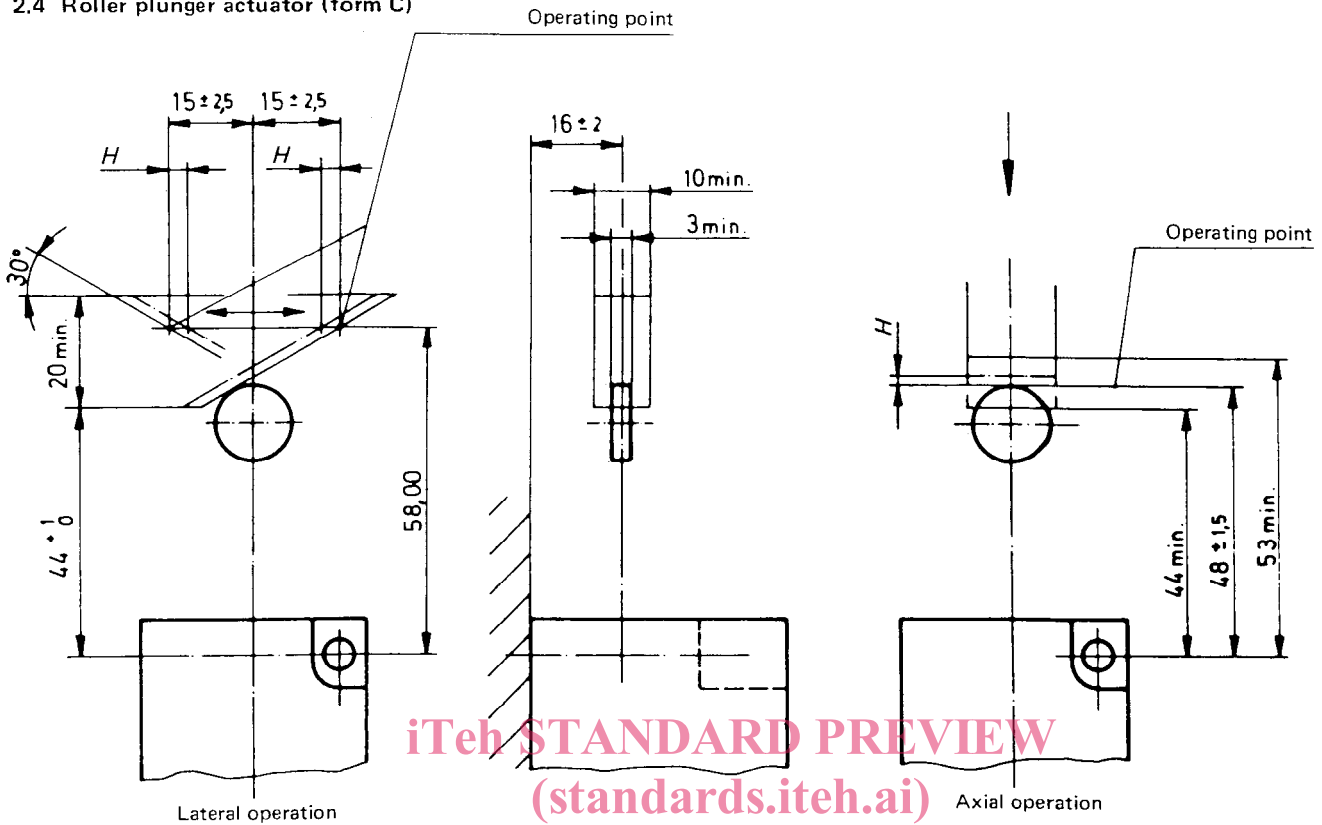


Figure 3. Rounded plunger actuator

2.4 Roller plunger actuator (form C)



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Figure 4. Roller plunger actuator

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2.5 Rod lever actuator (form D)

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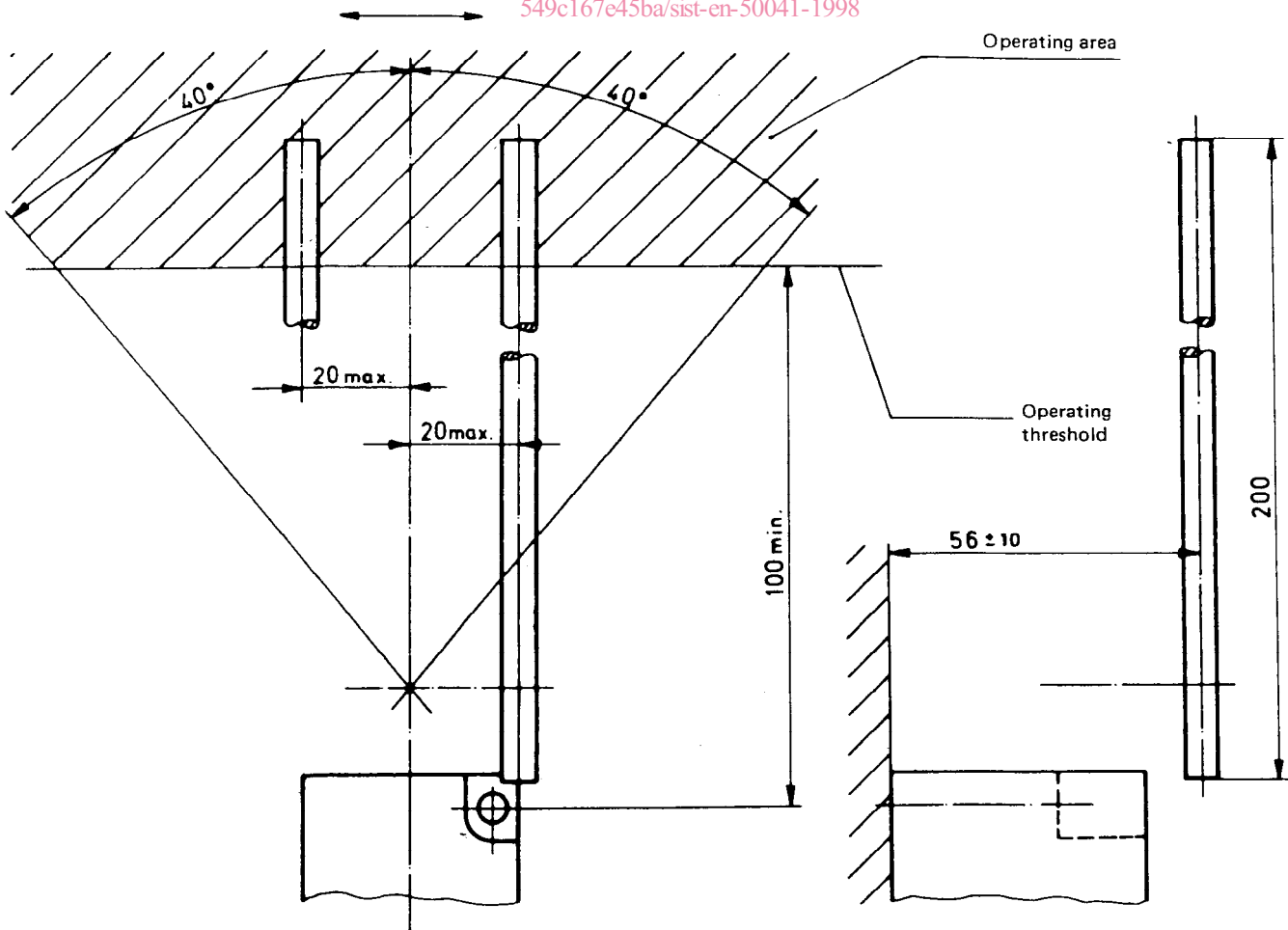


Figure 5. Rod lever actuator

The rod diameter is not specified, but the preferred value is 6 mm.

The rod can be moved along its length and can be offset from the centre of the rotation axis by 20 mm maximum.

2.6 Rounded plunger side actuator (form F)

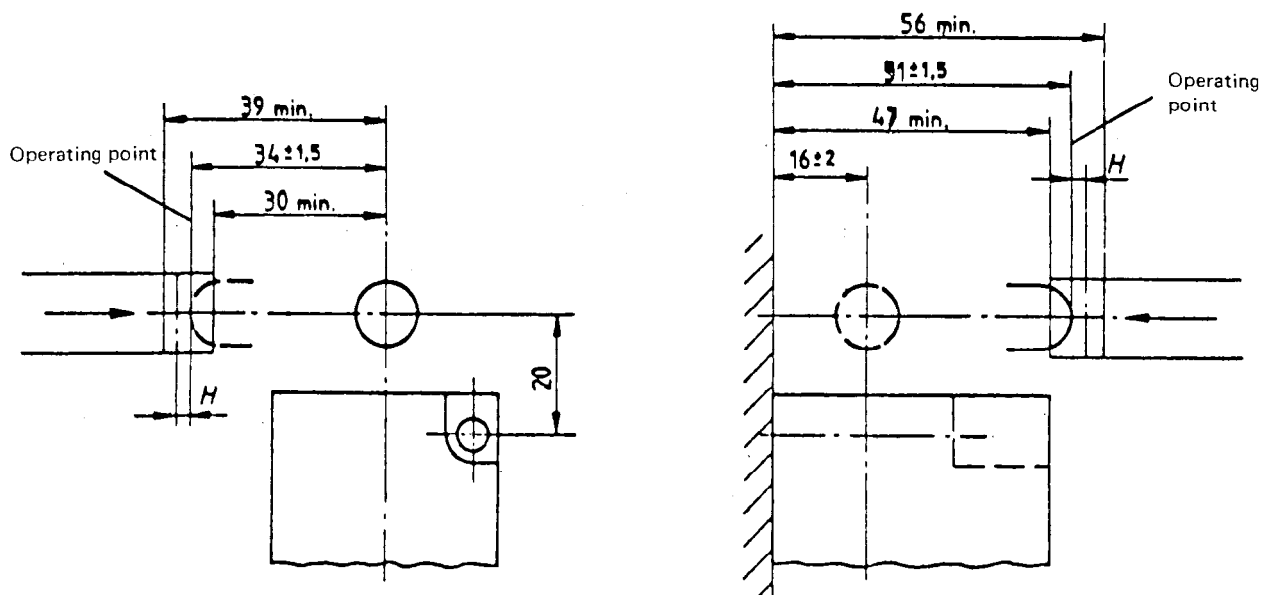


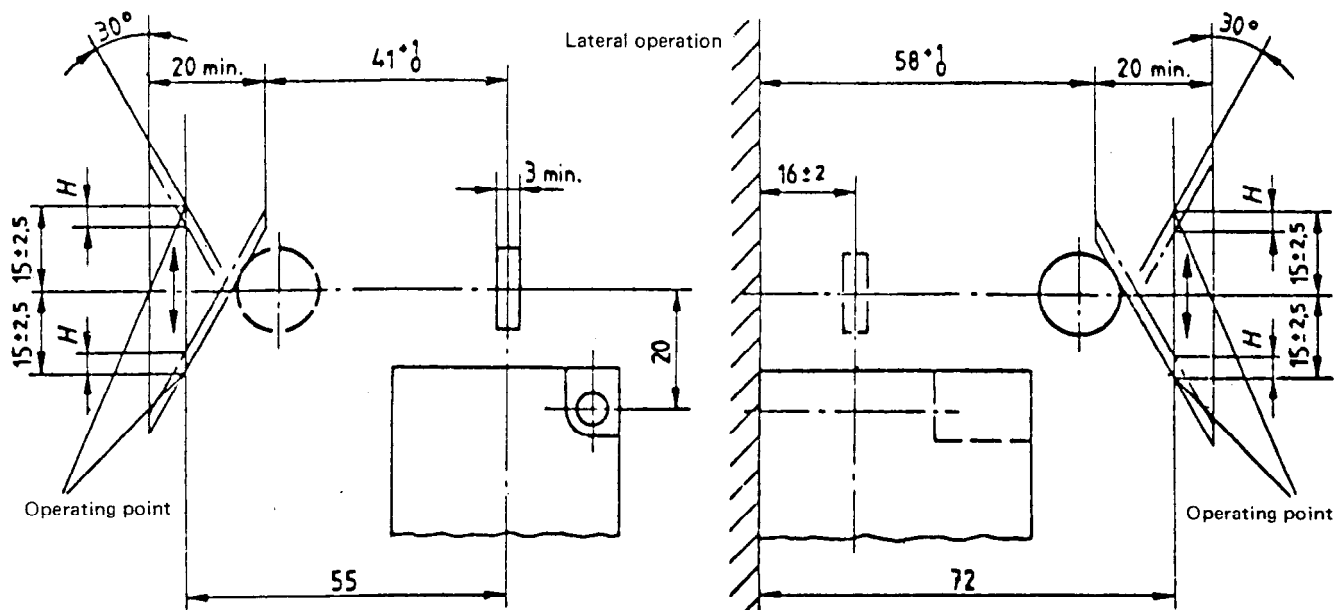
Figure 6. Rounded plunger side actuator

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2.7 Roller plunger side actuator (form G)



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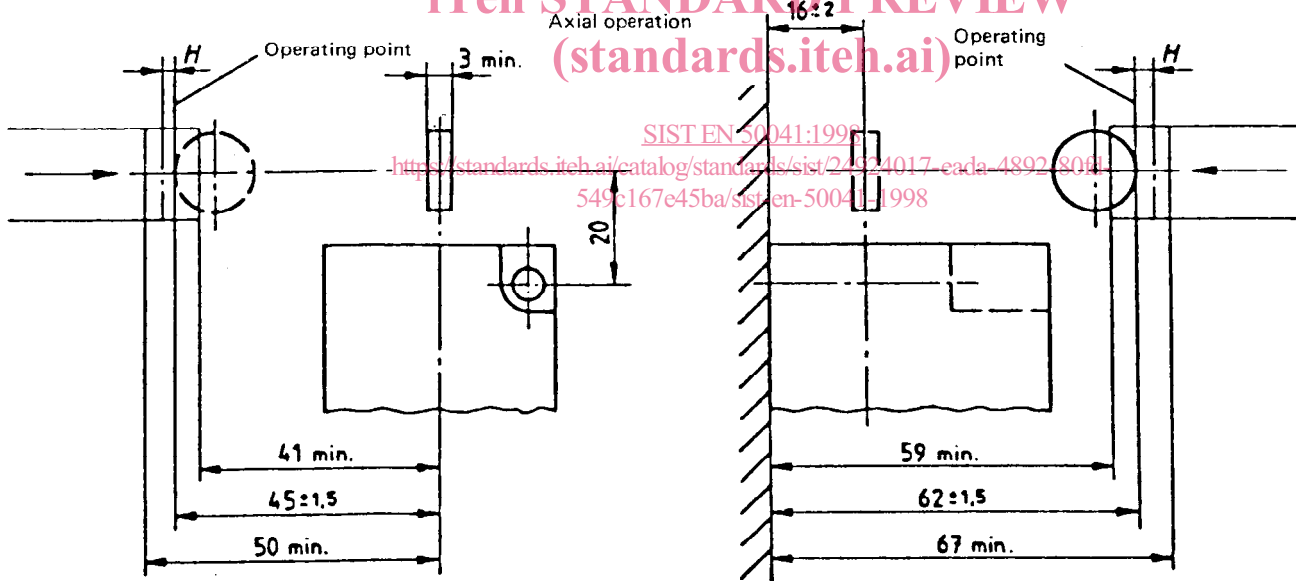


Figure 7. Roller plunger side actuator

3. Designation

Example of designation of a position switch 42,5 × 80 with a roller lever actuator (form A) with snap action mechanism (1):

Position switch EN 50 041 – A1.

Example of designation of a position switch 42,5 × 80 with rod lever actuator (form D) with slow make and break mechanism (2):

Position switch EN 50 041 – D2.

4. Contact elements and terminal marking

Position switches shall have a make contact and a break contact (distinctive number 11 in accordance with European Standard EN 50 005).

The terminal marking shall be in accordance with European Standard EN 50 013.

5. Terminal for protective conductor

Position switches with metal enclosures shall have a terminal for the protective conductor; this terminal shall be mounted inside the enclosure in the immediate vicinity of the cable entry and marked as appropriate.

6. Degree of protection

The minimum degree of protection required shall conform to IP 65, tested in accordance with IEC-Publication 529 or 144 when this latter is revised.