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# INTERNATIONAL STANDARD



# 3069

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

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## End suction centrifugal pumps — Dimensions of cavities for mechanical seals and for soft packing

*Pompes centrifuges à aspiration en bout — Dimensions des logements de garnitures mécaniques et de garnitures à tresse*

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**Descriptors :** pumps, centrifugal pumps, seals (stoppers), dimensions, diameters.

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 3069 was drawn up by Technical Committee ISO/TC 115, *Pumps*, and circulated to the Member Bodies in February 1973.

It has been approved by the Member Bodies of the following countries:

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The following Member Body expressed disapproval of the document on technical grounds :

Australia

# End suction centrifugal pumps – Dimensions of cavities for mechanical seals and for soft packing

## 1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies the dimensions of the cavity for balanced and unbalanced mechanical seals and for soft packing for use with end suction centrifugal pumps, rating 16 bar, in accordance with ISO 2858. It can, however, apply to other rotating machinery.

## 2 REFERENCE

ISO 2858, *End-suction centrifugal pumps for chemical liquids (rating 16 bar) – Designation, nominal duty point and dimensions*.

## 3 SPECIFICATION OF DIAMETERS OF SHAFTS AND CAVITIES

The diameters shown in figures 1, 2 and 3 shall have the values given in the table.

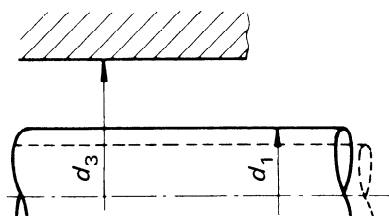


FIGURE 1 – Unbalanced mechanical seal or soft packing with or without sleeve

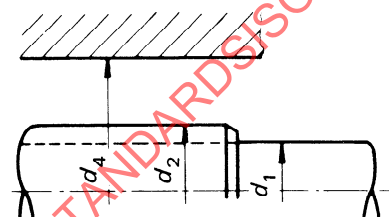


FIGURE 2 – Balanced mechanical seal with or without short sleeve

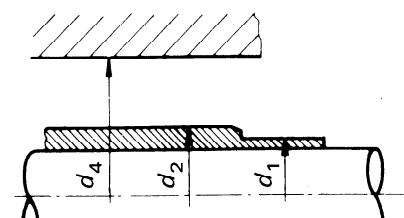


FIGURE 3 – Balanced mechanical seal with sleeve

Dimensions in millimetres

| $d_1$ | $d_2$ | $d_3$ | $d_4$ |
|-------|-------|-------|-------|
| 18    | 22    | 34    | 38    |
| 20    | 24    | 36    | 40    |
| 22    | 26    | 38    | 42    |
| 24    | 28    | 40    | 44    |
| 25    | 30    | 41    | 46    |
| 28    | 33    | 44    | 49    |
| 30    | 35    | 46    | 51    |
| 32    | 38    | 48    | 58    |
| 33    | 38    | 49    | 58    |
| 35    | 40    | 51    | 60    |
| 38    | 43    | 58    | 63    |
| 40    | 45    | 60    | 65    |
| 43    | 48    | 63    | 68    |
| 45    | 50    | 65    | 70    |
| 48    | 53    | 68    | 73    |
| 50    | 55    | 70    | 75    |
| 53    | 58    | 73    | 83    |
| 55    | 60    | 75    | 85    |
| 58    | 63    | 83    | 88    |
| 60    | 65    | 85    | 90    |
| 63    | 68    | 88    | 93    |
| 65    | 70    | 90    | 95    |
| 68    | —     | 93    | —     |
| 70    | —     | 95    | —     |