

---

# International Standard



# 6392

---

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

---

## Earth moving machinery — Lubrication fittings — Nipple type

*Engins de terrassement — Raccords de graissage — Type à embout*

First edition — 1980-09-01

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

ISO 6392:1980

<https://standards.iteh.ai/catalog/standards/sist/51649db6-9b73-4e1d-a403-b4712536a705/iso-6392-1980>

---

UDC 621.879-72

Ref. No. ISO 6392-1980 (E)

Descriptors : earth handling equipment, lubrication, grease (nipples), fittings, fitting ends, dimensions, tolerances, designation, specifications.

Price based on 4 pages

## 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 6392 was developed by Technical Committee ISO/TC 127, *Earth moving machinery*, and was circulated to the member bodies in January 1979.

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

Austria	France	Sweden
Belgium	Italy	Turkey
Bulgaria	Libyan Arab Jamahiriya	United Kingdom
Canada	Poland	USA
Chile	Romania	USSR
Egypt, Arab Rep. of	South Africa, Rep. of	

The member bodies of the following countries expressed disapproval of the document on technical grounds :

Czechoslovakia  
Germany, F. R.  
Japan

# Earth moving machinery — Lubrication fittings — Nipple type

## 1 Scope and field of application

This International Standard specifies the tip end of lubrication nipples, recommended acceptable fitting configurations, and the clearance space for nipple fittings for multipurpose type grease applications on earth-moving machinery.

## 2 References

ISO 2081, *Metallic coatings — Electroplated coatings of zinc on iron or steel*

ISO 2082, *Metallic coatings — Electroplated coatings of cadmium on iron or steel*

## 3 Designation

All lubrication fittings for earthmoving machinery are designated by their configuration (see figure 3).

## 4 Materials, design and manufacture

### 4.1 Material and manufacture

Unless otherwise specified, fittings shall be made from manufacturer's standard steel. The greasing end of fittings shall have minimum hardness of 56 Rockwell Scale C to a minimum depth of 0,153 mm (0.006 in) for the heavier nipples. For the thinner walled nipples, however, a case depth between 0,076 mm (0.003 in) and 0,153 mm (0.006 in) is permissible due to the thin wall section.

### 4.2 Finish

Steel fittings shall have a minimum plating thickness of 0,005 mm (0.0002 in) of cadmium (ISO 2082) or zinc (ISO 2081). Fittings may have a supplementary chromate coating or similar treatment (but not unstable organic type

coatings) and both cadmium and zinc plated fittings shall withstand a salt spray (FOG) test.

### 4.3 Workmanship

Fittings shall be free from burrs, loose scale, sharp edges, and all other conditions that might affect their intended lubrication function.

### 4.4 Check valve

The lubrication fittings specified in this International Standard shall be supplied with check valves which will provide a seal against the ingress of foreign matter, but will admit lubricant under pressure and prevent its escape.

## 5 Required characteristics

### 5.1 Dimensions and tolerances

The dimensions and tolerances are given in figures 1, 2 and 3 in both millimetre and inch units. The tabulated dimensions shall apply to the finished processed parts. Tolerances on all dimensions not otherwise limited shall be plus or minus 0,25 mm (0.01 in).

### 5.2 Contour

Tip contour shall be optional according to the manufacturer, providing the dimensions in figure 1 are maintained to allow a standard hydraulic grip coupler to seal with up to a 10° misalignment to the axis of the fitting as shown in figure 2.

### 5.3 Clearance space

Clearance space shall be provided for the lubrication nipple to allow use of lubrication equipment with a misalignment up to that shown in figure 2.

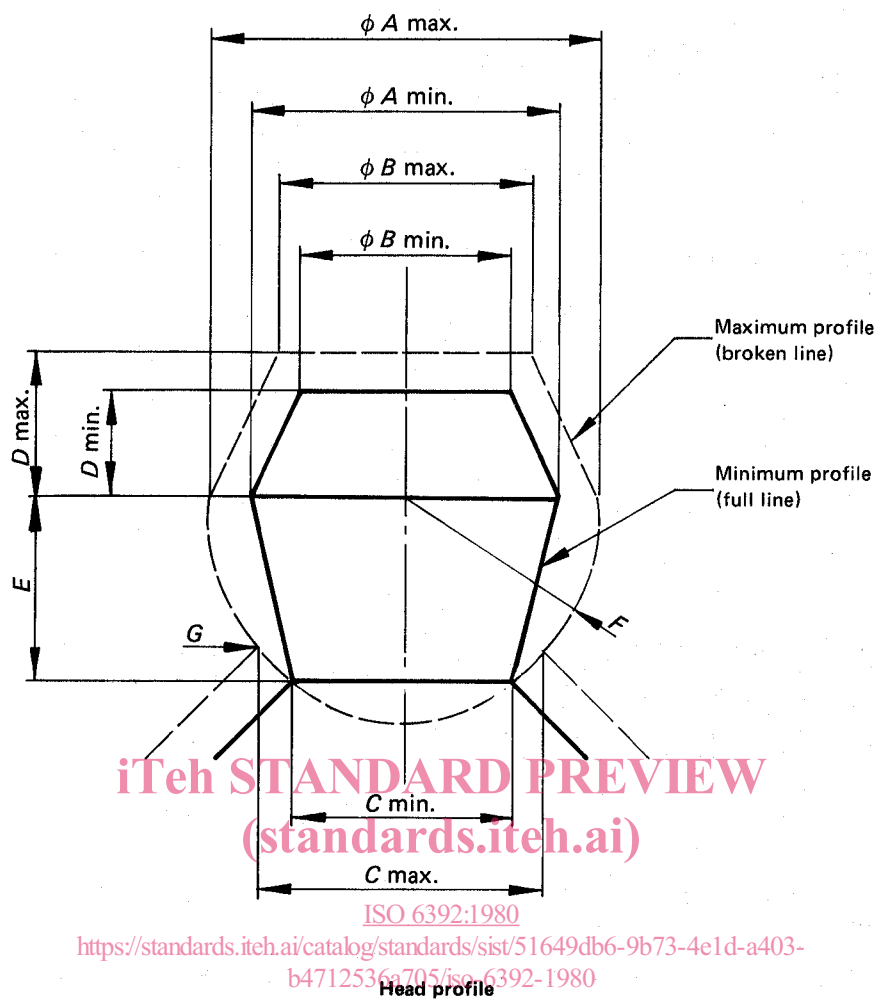
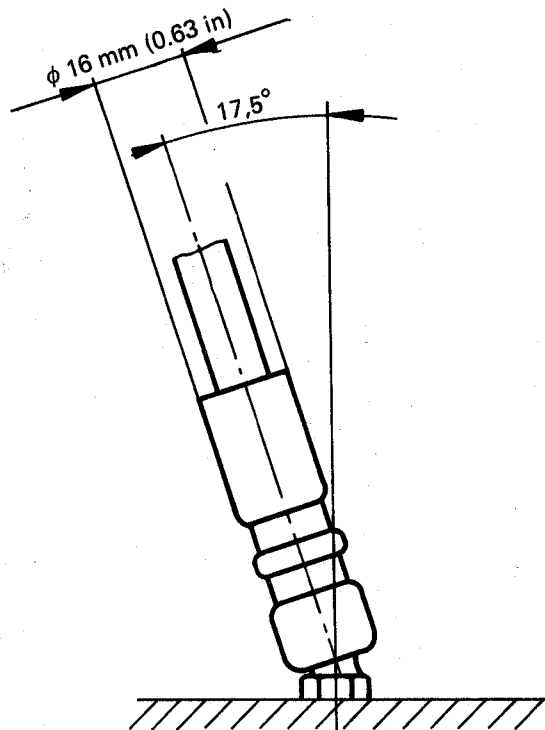


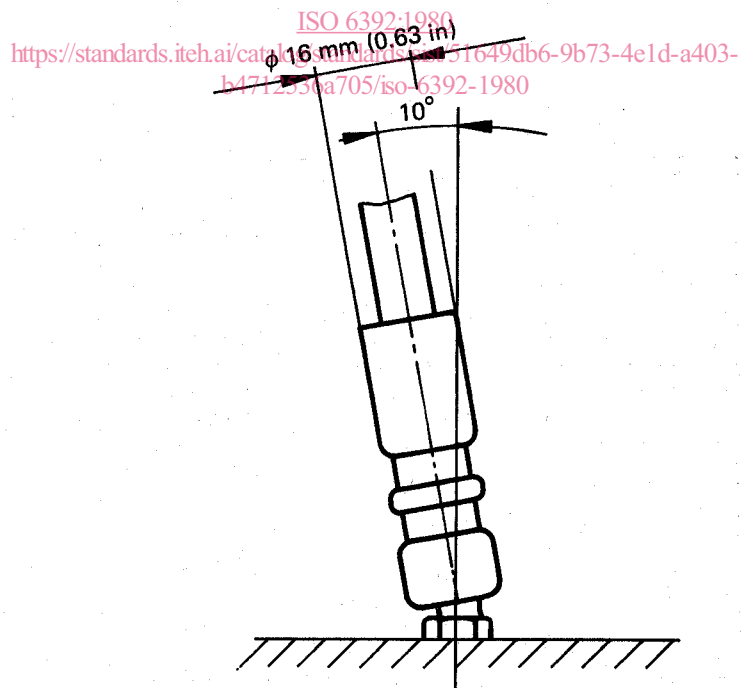
Figure 1 – Head of lubricating nipple

Table – Dimensions

Dimension	mm	in
$\phi A$	6,86 max. 6,30 min.	0.270 max. 0.248 min.
$\phi B$	5,33 max. 3,57 min.	0.210 max. 0.140 min.
$\phi C$	5,95 max. 4,44 min.	0.234 max. 0.175 min.
$D$	2,79 max. 1,98 min.	0.110 max. 0.078 min.
$E$	2,38	0.094
$F$ radius	3,43	0.135
$G$ radius	0,81	0.032

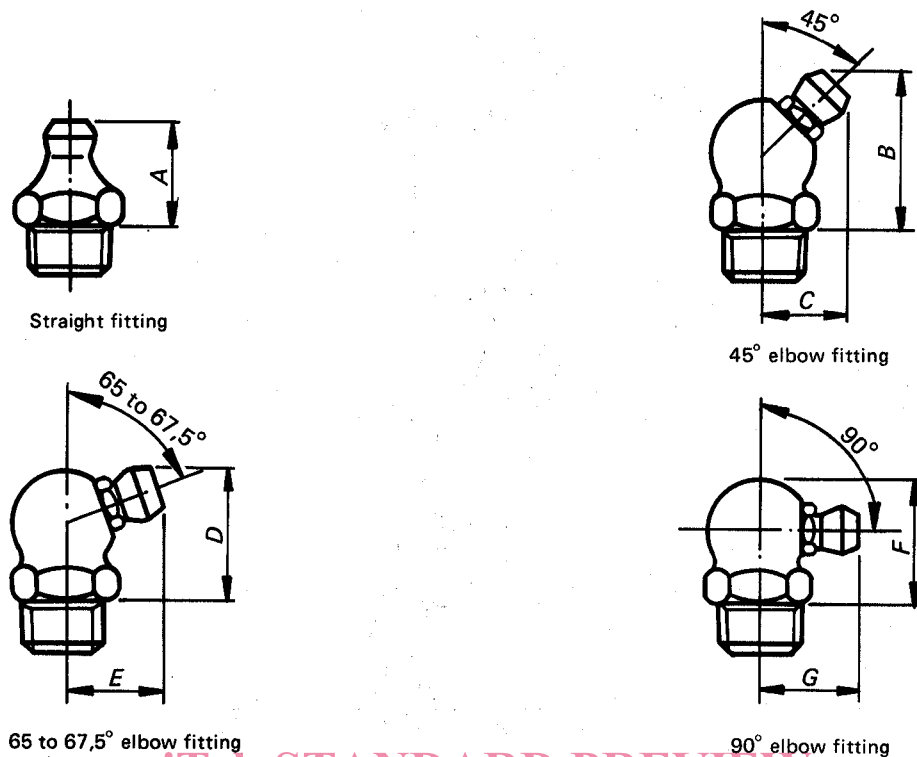


**iTeh STANDARD PREVIEW**  
Clearance space required for coupling and uncoupling misalignment  
(standards.iteh.ai)



Clearance space required for misalignment in use

Figure 2 — Clearance space required for coupling, uncoupling and use



**iTeh STANDARD PREVIEW**  
 (standards.iteh.ai)

Figure 3 – Configurations (designations)

ISO 6392:1980

<https://standards.iteh.ai/catalog/standards/sist/51649db6-9b73-4e1d-a403-b4712536a705/iso-6392-1980>

Table – Dimensions

Dimension	mm	in
A	14,50 max. 7,00 min.	0.571 max. 0.276 min.
B	25,00 max. 12,00 min.	0.984 max. 0.474 min.
C	16,00 max. 9,00 min.	0.630 max. 0.354 min.
D	18,00 max. 12,00 min.	0.709 max. 0.472 min.
E	14,00 max. 10,00 min.	0.551 max. 0.394 min.
F	17,00 max. 11,50 min.	0.669 max. 0.453 min.
G	20,50 max. 11,00 min.	0.807 max. 0.433 min.