
INTERNATIONAL STANDARD



4039

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

Road vehicles — Pneumatic braking systems — Pipes, tapped holes and male fittings

Véhicules routiers — Systèmes de freinage pneumatique — Tuyauteries, logements et raccords mâles

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Descriptors : road vehicles, braking systems, pneumatic brakes, piping, metal tubes, pipe fittings, specifications, dimensions, materials specifications.

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 4039 was developed by Technical Committee ISO/TC 22, *Road vehicles*, and was circulated to the member bodies in May 1976.

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

| | | |
|----------------|----------------|-----------------------|
| Australia | Iran | Romania |
| Austria | Italy | South Africa, Rep. of |
| Belgium | Japan | Spain |
| Brazil | Korea, Rep. of | Sweden |
| Czechoslovakia | Mexico | Switzerland |
| Germany | Netherlands | Turkey |
| Hungary | Philippines | U.S.S.R. |

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

France
United Kingdom

Road vehicles — Pneumatic braking systems — Pipes, tapped holes and male fittings

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies the essential dimensional characteristics and material requirements for metallic pipes, tapped holes and male fittings used in pneumatic braking systems in road vehicles using compressed air at a pressure under 2 MPa (20 bar).

2 REFERENCE

ISO 3768, *Metallic coatings — Neutral salt spray test.*

3 PIPES

3.1 Dimensions

TABLE 1

Dimensions in millimetres

| Outer diameter, D_1 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 |
|----------------------------|-----|---|----|-----|----|----|-----|----|
| Wall thickness, A , min. | 0,7 | | | 1,0 | | | 1,5 | |

3.2 Material

Steel, copper and copper alloys.

3.3 Execution

The inner and outer surfaces shall be free from oxidation and shall be smooth and clean. The outer surface shall be protected against corrosion and shall resist for 96 h the salt spray test according to ISO 3768.

4 TAPPED HOLES AND MALE FITTINGS

4.1 Dimensions

TABLE 2

Dimensions in millimetres

| D_1 | D_2 6 H/6 g | D_3 | Hexagon S | B min. | C max. | E max. |
|-------|------------------|-------|----------------|-------------|-------------|-------------|
| 6 | M12 × 1,5 | 22 | 17 | 12 | 1,5 | 12 |
| 8 | | | | | | |
| 10 | M16 × 1,5 | 26 | 22 | 13 | 1,5 | 13 |
| 12 | | | | | | |
| 14 | M22 × 1,5 | 33 | 27 | 15 | 2 | 15 |
| 16 | | | | | | |
| 18 | M27 × 2 | 38 | 32 | 15 | 2 | 15 |
| 20 | | | | | | |

4.2 Execution of fittings

The inner and outer surfaces shall be free from oxidation and shall be smooth and clean. The outer surface shall be protected against corrosion and shall resist for 48 h the salt spray test according to ISO 3768.

