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**Fittings made from unplasticized  
poly(vinyl chloride) (PVC-U), chlorinated  
poly(vinyl chloride) (PVC-C) or  
acrylonitrile/butadiene/styrene (ABS) with  
plain sockets for pipes under pressure —**

**Part 2:  
Inch-based series**

*Raccords en poly(chlorure de vinyle) non plastifié (PVC-U), en  
poly(chlorure de vinyle) chloré (PVC-C) ou en  
acrylonitrile/butadiène/styrène (ABS), à emboîtements lisses pour tubes  
sous pression —*

*Partie 2: Série basée sur les inches*



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## Foreword

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The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 727-2 was prepared by Technical Committee ISO/TC 138, *Plastics pipes, fittings and valves for the transport of fluids*, Subcommittee SC 2, *Plastics pipes and fittings for water supplies*.

This second edition cancels and replaces the first edition (ISO 727-2:2002), which has been technically revised.

ISO 727 consists of the following parts, under the general title *Fittings made from unplasticized poly(vinyl chloride) (PVC-U), chlorinated poly(vinyl chloride) (PVC-C) or acrylonitrile/butadiene/styrene (ABS) with plain sockets for pipes under pressure*:

- Part 1: Metric series
- Part 2: Inch-based series

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# Fittings made from unplasticized poly(vinyl chloride) (PVC-U), chlorinated poly(vinyl chloride) (PVC-C) or acrylonitrile/butadiene/styrene (ABS) with plain sockets for pipes under pressure —

## Part 2: Inch-based series

**IMPORTANT** — It is strongly recommended that the advice of the fittings manufacturer be sought in the selection of an appropriate type of solvent cement used to connect sockets to pipes, depending upon whether the cylindrical or conical type of socketed fitting is being used for a particular installation.

### 1 Scope

This part of ISO 727 specifies the dimensions, in millimetres, of plain sockets (cylindrical and conical), for the inch-based pipe series, in fittings made from unplasticized poly(vinyl chloride) (PVC-U), chlorinated poly(vinyl chloride) (PVC-C) or acrylonitrile/butadiene/styrene (ABS), intended for connecting by solvent cementing to pipes of the corresponding material for use under pressure. The resulting joint does not require mechanical anchorage.

### 2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 161-2:1996, *Thermoplastics pipes for the conveyance of fluids — Nominal outside diameters and nominal pressures — Part 2: Inch-based series*

### 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

#### 3.1

##### **cylindrical socket**

parallel socket

plain socket having a generally cylindrical form with similar root and mouth dimensions

**NOTE** In practice, such sockets are manufactured with a slight taper in order to assist in removing the moulded fitting from the moulding tool (see 4.1).