
International Standard



8479

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Aerospace — “Q” clamps (centre-mounted clamps) for fluid systems — Dimensions

Aéronautique et espace — Colliers à serrage central pour systèmes de fluides — Dimensions

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Foreword

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International Standard ISO 8479 was prepared by Technical Committee ISO/TC 20, *Aircraft and space vehicles*.

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Aerospace — “Q” clamps (centre-mounted clamps) for fluid systems — Dimensions

1 Scope

This International Standard specifies maximum and minimum dimensions for “Q” clamps (centre-mounted clamps) installed by means of a bolt with a nominal diameter of 5 mm.

The specified dimensions define a dimensional envelope. This International Standard shall not be considered as an interchangeability standard. The tolerances for each type of clamp are to be defined in the parts standards drawings.

2 Field of application

These clamps are intended for the installation, support and guiding of rigid tubing or hose assemblies used in aerospace equipment.

NOTE — “Q” clamps of sizes larger than DN 50 are not suitable for supporting tubing or hose assemblies; they may be used for other equipment, e.g. electrical cables or looms.

3 Reference

ISO 6771, *Aerospace construction — Fluid systems and components — Pressure and temperature classifications.*

4 Field of use

“Q” clamps (centre-mounted clamps) are classified into six types according to the temperature range in which they are intended to be used (see table 1).

Table 1

Temperatures in degrees Celsius

Clamp type	Temperature range ¹⁾	
	min.	max.
1	– 55	+ 70
2	– 55	+ 135
3	– 55	+ 200
4	– 55	+ 320
5	– 55	+ 400
6	– 55	+ 650

1) See ISO 6771.

5 Description

The “Q” clamp (centre-mounted clamp) is a “single-block” or a “multi-component”-type clamp. The “multi-component”-type clamp is provided as a metallic support with a plastomer or elastomer cushion or sheathing.

6 Dimensions

The “Q” clamp (centre-mounted clamp) shall be in accordance with the figure and table 2.

The shape of the clamp illustrated in the figure does not purport to be the exact shape of the manufactured clamp. Table 2 only specifies those dimensions required to define the maximum envelope and the proper location of the tube relative to the mounting plane and fastening point.