Stud with short metal end - coarse pitch

Stud with separate tapped-hole and nut ends. Select diameter, projection length and pitches; specify material and supply requirements.

UNI 5909

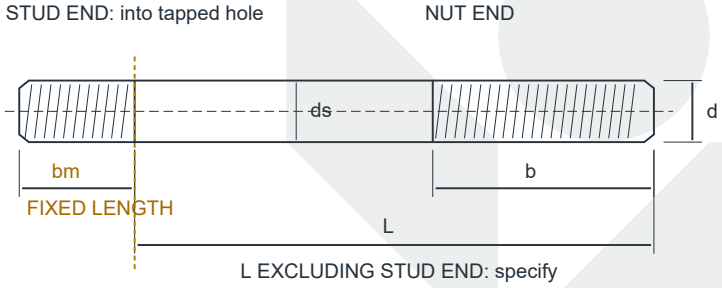
Reference: UNI 5909 · Stud end: short · Thread: coarse pitch · Units: mm



Representative stud-family photograph. Geometry and pitches are defined by the table and drawing.

Technical drawing - reading the dimensions

The fixed dimension is bm, not L. For UNI 5909 in M10, nominal stud-end length bm is 10 mm. L is measured from the end of the stud-end thread to the nut end; nominal overall length is L + bm.



bm	End screwed into the component. FIXED nominal length for the standard and diameter: last table column (js16).
L	Length EXCLUDING STUD END, to specify in the enquiry. bm is excluded.
b	Nut-end thread length. Verify for the requested L and execution; it is not bm.
d / ds	d: nominal thread diameter. ds: plain-shank diameter (h13).
P	Thread pitch. Read P nut end and P stud end separately.

Reading diagram, not to scale. bm is the geometric stud-end length: it does not by itself specify hole depth or actual engagement. Verify run-outs, chamfers, thread tolerances and usable b on the supply drawing.

Reference geometry

Read the table by selecting d and finding bm in the last column. For a given standard and diameter, bm is the fixed nominal stud-end length, subject to js16 tolerance. It does not change with the requested L.

P denotes thread pitch, not thread length. ds is the plain-shank diameter with h13 tolerance. Commercial lengths are not listed: specify L excluding the stud end in the enquiry.

d	P nut end	P stud end	ds h13	bm js16 - fixed stud end
M4	0,70	0,70	4	4
M5	0,80	0,80	5	5
M6	1,00	1,00	6	6
M8	1,25	1,25	8	8
M10	1,50	1,50	10	10
M12	1,75	1,75	12	12
M14	2,00	2,00	14	14
M16	2,00	2,00	16	16
M18	2,50	2,50	18	18
M20	2,50	2,50	20	20
M22	2,50	2,50	22	22
M24	3,00	3,00	24	24

Materials, grades, finishes and treatments

Material	Grade	Finish
Steel	8.8	Oiled; blackened and oiled; zinc plated
Stainless steel AISI 303	To specify	To specify

Executions to specification

The reference catalogue also lists quenched and tempered PR 80, property classes 10.9 and 12.9, grades B7, B7M, L7, L7M and stainless steels AISI 410 and AISI 316. Material specification, class, treatment and testing requirements must be confirmed for each execution.

AISI 303 does not automatically imply an ISO 3506 property class. Dueemme confirms size, material and finish combinations and availability in its quotation.

Documentation

Document	Status
Declaration of conformity	Subject to order agreement
Material certificate	Subject to order agreement
EN 10204 2.2 test report	Subject to order agreement
EN 10204 3.1 inspection certificate	Subject to order agreement
Dimensional inspection report	Subject to order agreement
Coating report	Subject to order agreement
Other documentation	Subject to order agreement

Batch documents are not automatically included: specify your requirements in the RFQ.

Standards, types and application

UNI 5909

The stud end screws into the component; the opposite end receives the nut. Engagement length depends on the component material and joint design.

Reference DIN 938 identifies an alternative execution to specify, not automatic equivalence with UNI 5909. Verify stud-end thread tolerance, pitches, bm length and run-outs in particular.

For Oil & Gas or pressure equipment, specify the applicable material standard and grade, temperature, service conditions and required documentation. A material designation alone does not qualify the joint.

ASTM A193 · ASTM A320

Technical references

Gandini - UNI 5909

https://www.dueemmesidol.it/en/products/standard-fasteners/screws-bolts/uni-5909/