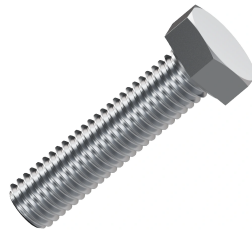


ISO 4018

Hexagon head screws - Product grade C



Standard	ISO 4018		
Product Type	This document specifies the characteristics of hexagon head screws, in steel, with metric coarse pitch threads M5 to M64, and with product grade C. If in certain cases other specifications are requested, property classes can be selected from ISO 898-1, and dimensional options from ISO 888 or ISO 4753.		
Material	Carbon Steel		
Property Class	4.6, 4.8		
Surface Finish	Zinc Plated, Hot Dip Galvanized, Dacromet, Blackened, Phosphate, Plain		
Size Range	M5 - M64	Length Range	10-200 mm
Thread	ISO metric coarse pitch		

BASIS OF SPECIFICATION

WHICH STANDARD GOVERNS WHAT

Dimensions to	ISO 4018:2022
Carbon steel / Alloy steel mechanical properties to	ISO 898-1:2013
Stainless steel mechanical properties to	ISO 3506-1:2020
Product grade	C

MECHANICAL PROPERTIES

REQUIRED VALUES PER ISO 898-1

Class	Rm min.	Yield requirement	Elongation requirement	Hardness	Source
4.6	400 MPa	ReL min. 240 MPa	A min. 22 %	120 - 220 HV	ISO 898-1
4.8	420 MPa	Rpf min. 340 MPa (not a test value)	Af min. 0.24	130 - 220 HV	ISO 898-1

DIMENSIONAL DATA - SIZES WE SUPPLY

ALL DIMENSIONS PER THE STANDARD

d	P	s (max)	e (min)	k	d	P	s (max)	e (min)	k
Diameter - mm	Thread Pitch - mm	Width Across Flats - mm	Width Across Corners - mm	Nominal Head Height - mm	Diameter - mm	Thread Pitch - mm	Width Across Flats - mm	Width Across Corners - mm	Nominal Head Height - mm
M6	1	10	10.89	4	M16	2	24	26.17	10
M8	1.25	13	14.2	5.3	M20	2.5	30	32.95	12.5
M10	1.5	16	17.59	6.4	M24	3	36	39.55	15
M12	1.75	18	19.85	7.5					

FURTHER SIZES IN THIS STANDARD

ALL DIMENSIONS PER THE STANDARD

Not held in stock. Available to order; minimum order quantity applies.

d Diameter - mm	P Thread Pitch - mm	s (max) Width Across Flats - mm	e (min) Width Across Corners - mm	k Nominal Head Height - mm	d Diameter - mm	P Thread Pitch - mm	s (max) Width Across Flats - mm	e (min) Width Across Corners - mm	k Nominal Head Height - mm
M5	0.8	8	8.63	3.5	M39	4	60	66.44	25
M7	1	11	11.94	4.8	M42	4.5	65	71.3	26
M14	2	21	22.78	8.8	M45	4.5	70	76.95	28
M18	2.5	27	29.56	11.5	M48	5	75	82.6	30
M22	2.5	34	37.29	14	M52	5	80	88.25	33
M27	3	41	45.2	17	M56	5.5	85	93.56	35
M30	3.5	46	50.85	18.7	M60	5.5	90	99.21	38
M33	3.5	50	55.37	21	M64	6	95	104.86	40
M36	4	55	60.79	22.5					

MARKING

Steel — Required

What	Manufacturer identification mark and the property class symbol (Table 19), for example 8.8
Where	Preferably on the top of the head, embossed or indented; alternatively indented on the side of the head. On flanged products, on the flange
Sizes	d >= 5 mm
Clause	ISO 898-1:2013, 10.3.3.1 Hexagon and hexalobular head bolts and screws

- Clause 6.1 of this standard says, in so many words, that marking shall be as specified in ISO 898-1; the standard sets nothing of its own.
- The smallest size in this standard is M5, which sits exactly on the d >= 5 mm threshold, so every size in it must be marked.
- Clause 6.2 also requires the package label to carry: this document number ISO 4018, the thread size and nominal length l, the property class symbol, the surface condition, the manufacturer or distributor identification, the manufacturing lot number to ISO 1891-4, and the number of pieces in the package.
- Confirm the ordered property class before production.

INSPECTION DOCUMENTS WE CAN ISSUE

EN 10204 3.1 material certificate	Can be included when agreed in the order.
Dimensional inspection report	Can be provided for the agreed inspection scope.
Certificate of conformity	Can be issued against the confirmed order requirements.
Mechanical test report	Available when the required tests are agreed before production.
Chemical analysis report	Available when the material verification scope is agreed.
Coating inspection report	Can record the coating checks agreed for the order.

REFERENCES & NOTES

- Note: Dimensional values follow the selected execution standard. Material properties and batch test results are included only when declared or supported by the applicable certificate or test report.