



Replaces costly special parts – shafts, pivots, pins, guides, linkages and trunnion mountings. Also standard for tool and die industries.

Equivalent Standard

Specification: Generally conforming to ISO 7379, ASME B18.3.3M, BS 4168-7

Mechanical Properties

Material: Unbrako High Grade Alloy Steel

Thread Class: 4g6g

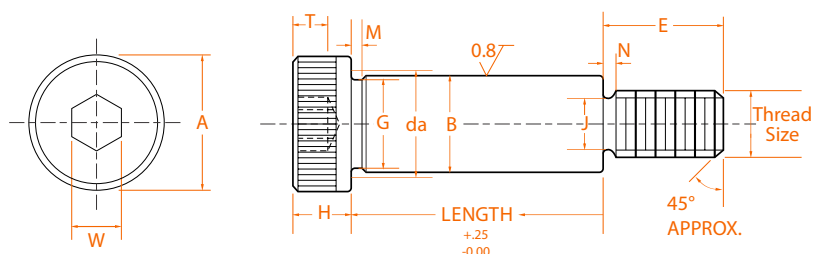
Hardness: Rc 39-43

Shear Strength: 730 N/mm²

Working Temperatures: -50°C to 300°C

Note

Because of their configuration, these screws cannot be tensile tested.



Product Dimensions

Body size nom.	Thread size	Pitch	Head Diameter A max	Hex Socket Size W nom	Head Height H max	Socket Depth T min	Shoulder diameter B max min	J max
6	M5	0.80	10.00	3	4.50	2.4	6 5.96	3.84
8	M6	1.00	13.00	4	5.50	3.3	8 7.95	4.56
10	M8	1.25	16.00	5	7.00	4.2	10 9.95	6.23
12	M10	1.50	18.00	6	8.00	4.9	12 11.95	7.89
16	M12	1.75	24.00	8	10.00	6.6	16 15.95	9.54
20	M16	2.00	30.00	10	14.00	8.8	20 19.95	13.20
24	M20	2.50	36.00	12	16.00	10.0	24 23.95	16.54

Body size nom.	da max	N max	G max	M max	Thread Length E max	Recommended seating torque N-m	in-lbs.
6	6.80	2.00	5.62	1.85	9.75	7	60
8	9.20	2.50	7.62	1.85	11.25	12	105
10	11.20	3.00	9.62	1.85	13.25	29	255
12	14.20	3.50	11.62	1.85	16.40	57	500
16	18.20	4.00	15.62	1.85	18.40	100	885
20	22.40	4.50	19.62	2.50	22.40	240	2,125
24	26.40	5.60	23.62	2.65	27.40	470	4,160

CONCENTRICITY - Body to head O.D. within 0.002 TIR when checked in a 'V' block. Body to thread P.D. within 0.004 TIR when checked at a distance of 0.188 from the shoulder at the threaded end. Squareness, concentricity, parallelism and bow of body to thread P.D. shall be within 0.005 TIR per inch of body length with a maximum of 0.020 when seated against the shoulder in a threaded bush and checked on the body at a distance of 2M from the underside of the head.

Head Marking



Head markings may vary slightly depending on manufacturing practice. UNBRAKO and UNB are recognized identifications for M6 diameter & larger.

Unbrako