



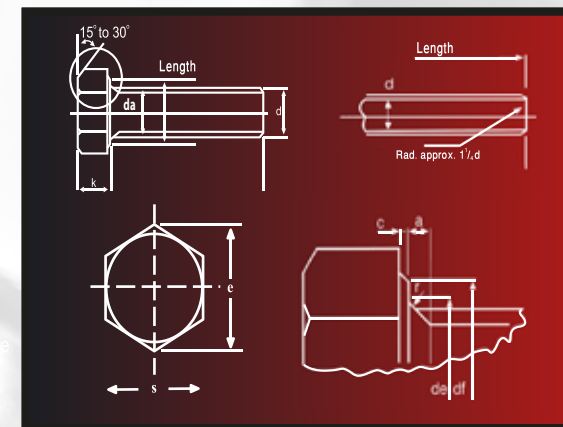
Non- Pre Load Bolt Assemblies as ISO 898-1

Hex Bolt

ISO 898-1 Partially threaded Hex Bolt dimensions. Classes 10.9

Nominal size and Thread dia. d	Pitch of thread p (Coarse pitch series)	Thread rouout a max	Width across flats s		Width across corners e		Depth of washer face d		Radius under head r min	Transition diameter d_a max	Thickness of head k	
			max	min	max	min	max	min			max	Min
M12	1.75	4.00	19.00	18.67	21.90	21.10	18.37	18.12	0.60	14.20	8.18	7.82
M16	2.00	5.00	24.00	23.67	27.75	26.78	23.27	23.02	0.60	18.20	10.18	9.82
M20	2.50	6.00	30.00	29.67	34.60	33.53	29.27	28.80	0.80	22.40	13.215	12.785
M24	3.00	7.00	36.00	35.38	41.60	39.98	34.98	34.51	0.80	26.40	15.215	14.785
M30	3.50	8.00	46.00	45.38	53.10	53.10	44.98	44.36	1.00	33.40	19.26	18.74
M36	4.00	10.00	55.00	54.26	63.50	61.31	53.86	53.24	1.00	39.40	23.26	22.74

Bolt Drawing



Product Characteristics		Standard
Fully threaded setscrews		
General requirements		ISO 898-1
Material & manufacture		ISO 898-1 CLASSES 10.9
Finish /coatings	Zinc electroplated	BS 7371-3 or BS EN ISO 4042
	Hot dip galvanized	BS 7371-6 or BS EN ISO 10684
Mechanical Properties		ISO 898-1 Classes 10.9
Dimensions & tolerances		BS3692 & BS3643-2
Threads		BS3643-1 class 6G

ISO 898-1 Mechanical properties as per Gr 10.9

Bolt thread dia	Tensile strength	Proof load	Elongation	Hardness Rockwell HRC	
	N/mm ² min	N/mm ² min	% min	min	Max
M12	1040.00	70.00	9	32.00	39.00
M16	1040.00	130.00	9	32.00	39.00
M20	1040.00	203.00	9	32.00	39.00
M22	1040.00	252.00	9	32.00	39.00
M24	1040.00	293.00	9	32.00	39.00
M27	1040.00	381.00	9	32.00	39.00
M30	1040.00	466.00	9	32.00	39.00
M36	1040.00	678.00	9	32.00	39.00

Quenched and Tempered as per ISO 898-1 425° (B, Mn or Cr)

Marking

