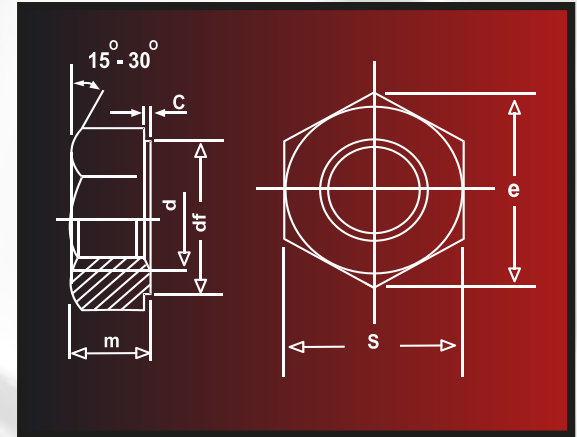


Pre - Load Fastener Assemblies HR BS EN 14399-3

Hexagon Nut

Drwaing

BS EN 14399-3 Nut Dimensions. Classes 8 & 10										
Nominal Size & Thread Diameter <i>d</i>	Pitch of thread <i>p</i> (coarse pitch series)	Width Across Flats <i>s</i>		Width Across Corner <i>e</i>	Diameter of washer face <i>df</i>		Depth of washer face <i>c</i>	Thickness of nut <i>m</i>		Tolerance on squareness
		max	min	min	min	max.	min	max.	min.	max.
M12	1.75	22.00	21.16	23.91	20.10	0.8	0.4	10.80	10.37	0.38
M16	2.00	27.00	26.16	29.56	24.90	0.8	0.4	14.80	14.10	0.47
M20	2.50	32.00	31.00	35.03	29.50	0.8	0.4	18.00	16.90	0.58
M22	2.50	36.00	35.00	39.55	33.30	0.8	0.4	19.40	18.10	0.63
M24	3.00	41.00	40.00	45.20	38.00	0.8	0.4	21.50	20.20	0.72
M27	3.00	46.00	45.00	50.85	42.80	0.8	0.4	23.80	22.50	0.80
M30	3.50	50.00	49.00	55.37	46.60	0.8	0.4	25.60	24.30	0.87
M36	4.00	60.00	58.80	66.44	55.90	0.8	0.4	31.00	29.40	1.05



Product Characteristic	Standard	
Material	Steel	
General requirements	EN 14399-1	
Thread	Tolerance	6H or 6AZ
	International standard	ISO 261, ISO 965-2, ISO 965-5
Mechanical Properties	Property Class	8 ^a or 10 ^a
	European Class	EN 20898-2
Tolerances	Product Grade	B expect dimensions <i>m</i> and <i>c</i>
	International standard	EN ISO 4759-1 ^b
Surface Finish	Normal	As processed ^c
	Hot Dip Galvanized	EN ISO 10684
	Others	To be agreed ^d
Surface discontinuities	Limits of surface discontinuities as specified in EN 493	
Acceptability	For acceptance procedure see EN ISO 3269	
For proof load values, see 4.3 all other mechanical properties as specified in EN 20898-2 Except tolerance on perpendicularity of bearing face. See tolerance / in table 4. "As processed" means the normal finish resulting from manufacture with a light coating of oil Other coating may be negotiated between the purchaser and the manufacturer they do not impair the mechanical properties of the functional characteristics. Coating of cadmium alloys are not permitted .		

BS EN 14399-3 Nut Proof Loads. Classes 8 & 10			
Nut Thread Dia	Stress Area Test Mandrel	Property class	
		8	10
		Tolerance Class 6H or 2) 6AZ	Tolerance Class 6H or 2) 6AZ
	mm ²	Proof load kN	Proof load kN
M12	84.30	84.30	97.80
M16	157.70	157.0	182.1
M20	245.0	245.0	284.2
M22	303.0	303.0	351.2
M24	353.0	353.0	409.5
M27	459.0	459.0	532.4
M30	561.0	561.0	650.8
M36	817.0	817.0	947.7

6H is the tolerance class for self colour & zinc plated nuts .
6AZ is the tolerance class for hot dip galvanized nuts.

