



PLANT STANDARD

HPBP TIRUCHIRAPPALLI

BPS 41225

Rev. No. 03

PAGE 1 OF 2

EYE BOLTS, PRODUCT GRADE 'A'

(Property Class 8.8)

1.0 SCOPE

Covers the requirements of Eye Bolts in the size range M20 to M27.

2.0 SPECIFICATION AND REFERENCE STANDARDS

Dimensions and preferred sizes	Fig 1 & Table 1 of this standard	
Preferred length size combination	Table 1 of this standard	
Tolerance	Product grade	A
	Indian Standard	IS: 1367 (Part 2)
Thread	Pitch	Table 1 of this standard
	Tolerance	6g
	Indian Standard	IS 4218 (Part 3, 5 & 6)
Material	Steel	
Manufacture	Preferably forged	
Mechanical Properties	Property class	8.8
	Indian Standard	IS: 1367 (Part 3)
Sampling and Acceptability	Indian Standard	IS: 1367 (Part 17)
General requirements	Eye Bolts shall comply with relevant parts of IS: 1367 in respect of requirements not covered in this standard.	

2.1 Referred standards (Only current versions are applicable)

IS 1367 (Part 2, 3 & 17)	Technical supply conditions for threaded steel fasteners
IS 1368	Dimensions for ends of parts with external ISO metric threads
IS 1369	Fasteners thread run-out and undercuts
IS 4218 Part 3,5 & 6	ISO metric screw threads

3.0 DESIGNATION

A Grade 'A' Eye Bolt to this standard of thread size M10 and nominal length 55mm shall be designated as :

3.1 On Drawings

- Material Specification column
- Description Column
- Drawing Number Column
- Material Code column:

EYE BOLT GR A - 8.8 M10x55
BPS 41225
4122510055

Revisions

Brought up to date

Approved

STANDARDS SECTION
CONTRACT ENGINEERING AND CO-ORDINATION
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3.2 Ordering Description

For placing indents, issuing enquiries and on purchase order, Ordering Description given below shall be followed.

Eye Bolt M10x55 to BPS: 41225

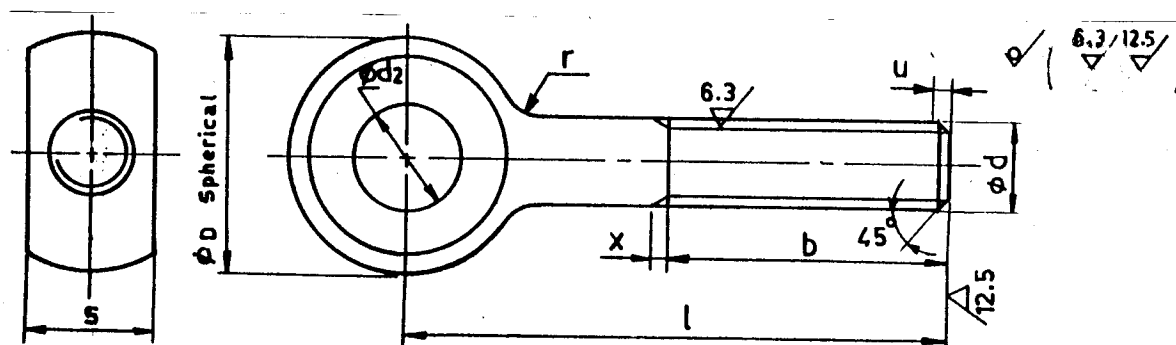
4.0 ADDITIONAL INFORMATION

4.1 Copies of this standard shall be enclosed along with the purchase order.

4.2 These bolts are also called the swinging bolts and these shall not be used for lifting purposes.

FIG. 1, DIMENSIONS FOR EYE BOLTS

(All dimensions are in millimetres)



'u' according to CE of IS: 1368

'x' according to IS:1369

TABLE 1, PREFERRED LENGTH-SIZE COMBINATION FOR EYE BOLTS

(All dimensions are in millimetres)

Thread Size d (h ₁₃)	s h ₁₂	D ≈	d ₂ h ₁₁	r	b		Max. load Kg	Length (l)														
					For l ≤ 150	For l > 150		50	55	60	70	75	80	90	100	110	120	130	140	150		
M10	12	20	11	4	26		525		42.4													
M12	14	25	13	6	30	36	870						98.3									
M16	17	32	17	6	38	44	1375					156		180		212	228	244				
M20	22	40	21	6	46	52	2300								363							
M24	25	45	26	10	54	60	2365												603			
(M27)	27	50	26	10	60	66	3610															

Note:

1. Preferred lengths are in between the stepped bold lines
2. Weights are given in Kg per 1000 numbers only