

(STANDARD THREAD) SHOULDER TYPE - CARBON STEEL- SELF COLORED



MACHINERY EYE BOLTS

Maximum blank lengths, either pattern indicated in column (1). Vertical loads are based on a design factor of 5 to 1. Variation in quantity: on special items we reserve the right to a maximum 10% variation for allowances in manufacture. Finishes include zinc plated, hot galvanized and black oxide.

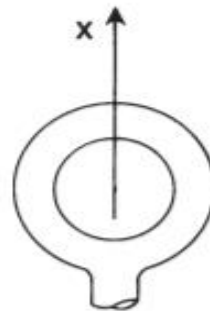
- Meets or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements.
- Material traceability available through Product Identification Code (PIC) System



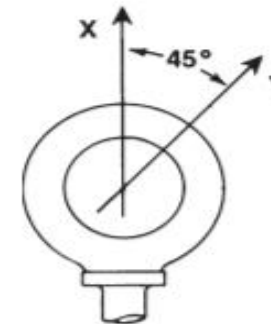
| Stock Numbers | | Dimensions – Inches | | | | | | | AVAILABILITY |
|---------------|------------------|---------------------|--------|----------|----------|----------------------|-------------------------|---------------------|--------------|
| Plain Pattern | Shoulder Pattern | Shank | | Eye | | Overall Length Plain | Overall Length Shoulder | Maximum Lengths (1) | |
| | | Dia. & Thread | Length | I.D. | O.D. | | | | |
| 1 | 21 | 1/4"-20 | 1" | 3/4" | 1-1/4" | 2-1/4" | 2-3/8" | 3" | STOCK OMA |
| 2 | 22 | 5/16"-18 | 1-1/8" | 7/8" | 1-1/2" | 2-5/8" | 2-3/4" | 4" | STOCK OMA |
| 3 | 23 | 3/8"-16 | 1-1/4" | 1" | 1-21/32" | 2-29/32" | 3-1/4" | 4-1/2" | STOCK OMA |
| 4 | 24 | 7/16"-14 | 1-3/8" | 1-3/32" | 1-27/32" | 3-7/32" | 3-5/8" | 4-1/2" | NSI |
| 5 | 25 | 1/2"-13 | 1-1/2" | 1-3/16" | 2-1/16" | 3-9/16" | 4" | 4-1/2" | STOCK OMA |
| 6 | 26 | 9/16"-12 | 1-5/8" | 1-9/32" | 2-9/32" | 3-29/32" | 4-1/2" | 4-1/2" | NSI |
| 7 | 27 | 5/8"-11 | 1-3/4" | 1-3/8" | 2-1/2" | 4-1/4" | 4-7/8" | 4-1/2" | STOCK OMA |
| 8 | 28 | 3/4"-10 | 2" | 1-1/2" | 2-13/16" | 4-13/16" | 5-1/4" | 5" | STOCK OMA |
| 9 | 29 | 7/8"-9 | 2-1/4" | 1-11/16" | 3-1/4" | 5-1/2" | 6" | 5" | STOCK OMA |
| 10 | 30 | 1"-8 | 2-1/2" | 1-13/16" | 3-9/16" | 6-1/16" | 7" | 5" | STOCK OMA |
| 11 | 31 | 1-1/8"-7 | 2-3/4" | 2" | 4" | 6-3/4" | 7-1/2" | 2-3/4" | STOCK OMA |
| 12 | 32 | 1-1/4"-7 | 3" | 2-3/16" | 4-7/16" | 7-7/16" | 8-1/2" | 3" | STOCK OMA |
| 14 | 34 | 1-1/2"-6 | 3-1/2" | 2-1/2" | 5-3/16" | 8-11/16" | 9-1/2" | 3-1/2" | STOCK OMA |

Working load limits for eye bolts are based on a straight vertical lift in a gradually increasing manner. Angular lifts will significantly lower working load limits (see Shoulder Pattern) and should be avoided whenever possible. If an angular lift is required, a properly seated Shoulder Pattern eye bolt must be used. Loads should always be applied to eye bolts in the plane of the eye, not at an angle to this plane. Angular lifts must never be more than a 45° pull. For angular lifting see chart below.

| Diameter and Thread | Working Load Limit | |
|---------------------|--------------------|----------------------------|
| | Straight Pull (X) | 45° Pull (Y) Shoulder Only |
| 1/4"-20 | 500 | 125 |
| 5/16"-18 | 900 | 225 |
| 3/8"-16 | 1400 | 350 |
| 7/16"-14 | 2000 | 500 |
| 1/2"-13 | 2600 | 650 |
| 9/16"-12 | 3200 | 800 |
| 5/8"-11 | 4000 | 1000 |
| 3/4"-10 | 6000 | 1500 |
| 7/8"-9 | 7000 | 1750 |
| 1"-8 | 9000 | 2250 |
| 1-1/8"-7 | 12000 | 3000 |
| 1-1/4"-7 | 15000 | 3750 |
| 1-1/2"-6 | 21000 | 5250 |



Plain Pattern



Shoulder Pattern

ANGULAR LIFTS SHOULD BE AVOIDED WHENEVER POSSIBLE.

