

EYEBOLT TYPES

Non - Shouldered Eyebolt:
Applications include inline loading only, for pulling and lifting.
Used in drilled and tapped blind Holes or with two nuts in drilled through holes.



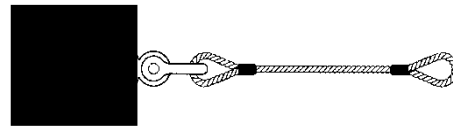
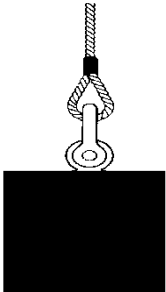
Shouldered Eyebolt:
Applications include inline loading, limited side loading for pulling and lifting. May be used in through holes or drilled and tapped blind holes.



Machinery Eyebolt:
Applications include inline loading, limited side loading for lifting points on equipment.
Used only in drilled and tapped blind holes.

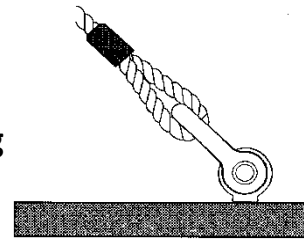


EYEBOLT LOADING



In-line loading

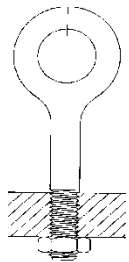
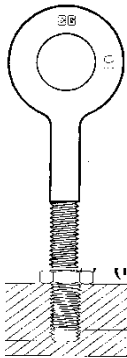
Side loading



PROPER EYEBOLT INSTALLATION

Non - shouldered Eyebolt

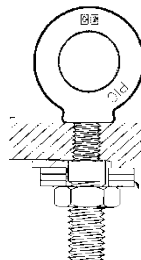
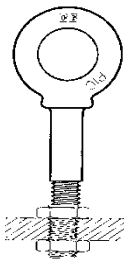
In tapped hole with nut on top to secure



In tapped hole with nut on bottom, washers allowed

Shouldered Eyebolt

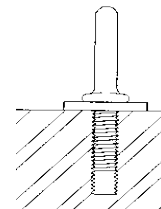
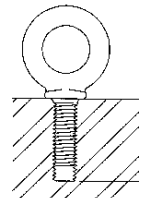
In through hole with nut on top and bottom



In through hole with nut and washers on bottom

Machinery Eyebolt

In blind hole with minimum of 1 ½ - 2 diameters thread engagement



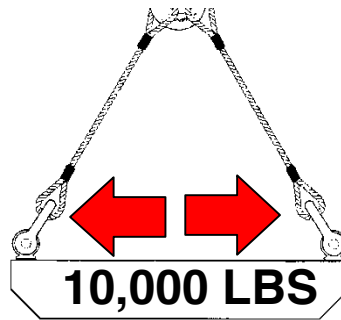
With maximum of one shim for orientation

Note: Always maintain a minimum of 1.5 – 2x (best) total thread engagement

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EYEBOLT ADJUSTED WORKING LOAD LIMIT

HORIZONTAL SLING ANGLE	LOSS OF STRENGTH	ADJUSTED WORKING LOAD LIMIT
90	0%	100% OF IN LINE
60	35%	65% OF IN LINE
45	70%	30% OF IN LINE
30	75%	25% OF IN LINE



Never exceed the rated load or the adjusted working load limit

SAMPLE CALCULATION

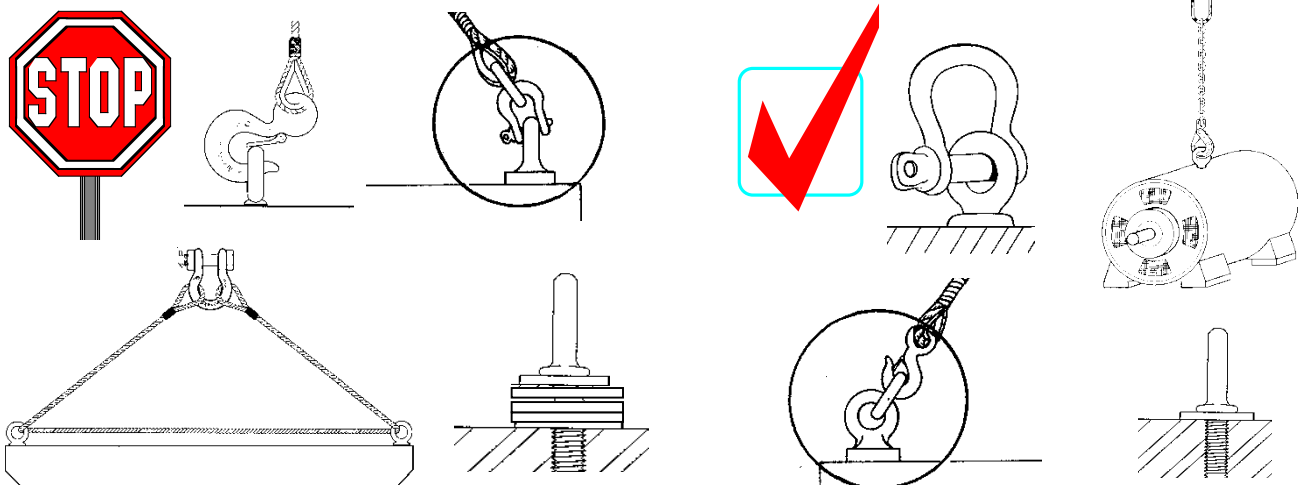
10,000 LBS LOAD

CROSBY SHOULDERED G-277 AND S-279 EYE BOLTS

SHANK DIAMETER (IN.)	WORKING LOAD LIMIT IN-LINE PULL (LBS.)	WORKING LOAD LIMIT 60 DEGREES SLING ANGLE (LBS.)	WORKING LOAD LIMIT 45 DEGREES SLING ANGLE (LBS.)	WORKING LOAD LIMIT/ANGLE LESS THAN 45 DEGREES (LBS.)
1/4	650	420	195	160
5/16	1200	780	360	300
3/8	1550	1000	465	380
1/2	2600	1690	780	650
5/8	5200	3380	1560	1300
3/4	7200	4680	2160	1800
7/8	10600	6890	3180	2650
1	13300	8645	3990	3325
1-1/4	21000	13600	6300	5250
1-1/2	24000	15600	7200	6000

HORIZ. SLING ANGLE	LOAD IN EACH LEG	SIZE EYEBOLT REQUIRED
60	6000 LBS.	7/8"
45	7000 LBS.	1-1/2"
30	10000 LBS.	N/A

EYEBOLT APPLICATION



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