



# 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.

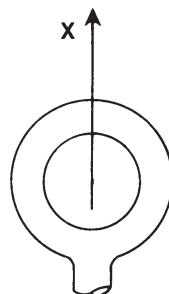
- Meets or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements.
- Material traceability available through Product Identification Code (PIC) System

## STANDARD SHANK LENGTHS – PLAIN & SHOULDER PATTERN – CARBON STEEL AND STAINLESS STEEL

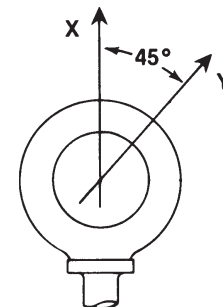
Stock Numbers		Dimensions – Inches						
Plain Pattern	Shoulder Pattern	Shank		Eye		Overall Length Plain	Overall Length Shoulder	Maximum Lengths (1)
		Dia. & Thread	Length	I.D.	O.D.			
1	21	1/4"-20	1"	3/4"	1-1/4"	2-1/4"	2-3/8"	3"
2	22	5/16"-18	1-1/8"	7/8"	1-1/2"	2-5/8"	2-3/4"	4"
3	23	3/8"-16	1-1/4"	1"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

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.**



# MACHINERY EYE BOLTS



Drop forged steel. Heat treated after forging. Self-colored, zinc plated, or hot galvanized. Plain or shoulder type, blank or threaded. Threaded will be supplied unless otherwise specified. See additional specifications and dimensions on page 18.

- 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



## STANDARD SHANK LENGTHS

### PLAIN PATTERN



Available in Zinc Plated, Hot Galvanized and Black Oxide. See page 20.

Some sizes available in Stainless Steel. See page 42.

Available in Metric See page 22.

Plain Pattern No.	Bolt Diameter N.C.	Standard Shank Length	Threaded		Blank	
			Part No.	Weight Per 100	Part No.	Weight Per 100
1	1/4"	1"	11605 3	5	11005 1	5.5
2	5/16"	1-1/8"	11625 1	10.5	11025 9	11.5
3	3/8"	1-1/4"	11645 9	15.5	11045 7	16.5
4	7/16"	1-3/8"	11665 7	20.5	11065 5	22
5	1/2"	1-1/2"	11685 5	33	11085 3	35
6	9/16"	1-5/8"	11705 0	44.5	11105 8	45
7	5/8"	1-3/4"	11725 8	64	11125 6	66
8	3/4"	2"	11748 7	90.5	11148 5	97
9	7/8"	2-1/4"	11768 5	135	11168 3	142
10	1"	2-1/2"	11788 3	190.5	11188 1	199
11	1-1/8"	2-3/4"	11808 8	299.5	11208 6	312
12	1-1/4"	3"	11831 6	399	11231 4	412
14	1-1/2"	3-1/2"	11851 4	662.5	11251 2	691

## STANDARD SHANK LENGTHS

### SHOULDER PATTERN



Shoulder Pattern No.	Bolt Diameter N.C.	Standard Shank Length	Threaded		Blank	
			Part No.	Weight Per 100	Part No.	Weight Per 100
21	1/4"	1"	12805 6	6	12205 4	6
22	5/16"	1-1/8"	12825 4	10	12225 2	10.5
23	3/8"	1-1/4"	12845 2	16	12245 0	17
24	7/16"	1-3/8"	12865 0	26.5	12265 8	28
25	1/2"	1-1/2"	12885 8	38	12285 6	39
26	9/16"	1-5/8"	12905 3	49	12305 1	52.5
27	5/8"	1-3/4"	12925 1	73.5	12325 9	76.5
28	3/4"	2"	12948 0	99.5	12348 8	104
29	7/8"	2-1/4"	12968 8	172.5	12368 6	178
30	1"	2-1/2"	12988 6	235	12388 4	242
31	1-1/8"	2-3/4"	13008 0	342.5	12408 9	347
32	1-1/4"	3"	13031 8	462.5	12431 7	485
34	1-1/2"	3-1/2"	13051 6	752.5	12451 5	780



# PLATED MACHINERY EYE BOLTS

- 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

## ZINC PLATED

### PLAIN PATTERN – ZINC

Plain Pattern No.	Bolt Diameter N.C.	Standard Shank Length	Part No.	Weight Per 100
1	1/4"	1"	26005 3	5
2	5/16"	1-1/8"	26008 4	10
3	3/8"	1-1/4"	26011 4	15.5
4	7/16"	1-3/8"	26014 5	20.5
5	1/2"	1-1/2"	26017 6	33
6	9/16"	1-5/8"	26020 6	44.5
7	5/8"	1-3/4"	26023 7	64
8	3/4"	2"	26026 8	90.5
9	7/8"	2-1/4"	26029 9	135
10	1"	2-1/2"	26032 9	190.5
11	1-1/8"	2-3/4"	26035 0	299.5
12	1-1/4"	3"	26038 1	399
14	1-1/2"	3-1/2"	26041 1	662.5

### SHOULDER PATTERN – ZINC

Shoulder Pattern No.	Bolt Diameter N.C.	Standard Shank Length	Part No.	Weight Per 100
21	1/4"	1"	26050 3	6
22	5/16"	1-1/8"	26053 4	10.5
23	3/8"	1-1/4"	26056 5	16
24	7/16"	1-3/8"	26059 6	26.5
25	1/2"	1-1/2"	26062 6	38
26	9/16"	1-5/8"	26065 7	49
27	5/8"	1-3/4"	26068 8	73.5
28	3/4"	2"	26071 8	99.5
29	7/8"	2-1/4"	26074 9	172.5
30	1"	2-1/2"	26077 0	235
31	1-1/8"	2-3/4"	26080 0	342.5
32	1-1/4"	3"	26083 1	462.5
34	1-1/2"	3-1/2"	26086 2	752.5



## HOT GALVANIZED

### PLAIN PATTERN – GALVANIZED

Plain Pattern No.	Bolt Diameter N.C.	Standard Shank Length	Part No.	Weight Per 100
1	1/4"	1"	26105 0	5
2	5/16"	1-1/8"	26108 1	10
3	3/8"	1-1/4"	26111 1	15.5
4	7/16"	1-3/8"	26114 2	20.5
5	1/2"	1-1/2"	26117 3	33
6	9/16"	1-5/8"	26120 3	44.5
7	5/8"	1-3/4"	26123 4	64
8	3/4"	2"	26126 5	90.5
9	7/8"	2-1/4"	26129 6	135
10	1"	2-1/2"	26132 6	190.5
11	1-1/8"	2-3/4"	26135 7	299.5
12	1-1/4"	3"	26138 8	399
14	1-1/2"	3-1/2"	26141 8	662.5

### SHOULDER PATTERN – GALVANIZED

Shoulder Pattern No.	Bolt Diameter N.C.	Standard Shank Length	Part No.	Weight Per 100
21	1/4"	1"	26155 5	6
22	5/16"	1-1/8"	26158 6	10.5
23	3/8"	1-1/4"	26161 6	16
24	7/16"	1-3/8"	26164 7	26.5
25	1/2"	1-1/2"	26167 8	38
26	9/16"	1-5/8"	26170 8	49
27	5/8"	1-3/4"	26173 9	73.5
28	3/4"	2"	26176 0	99.5
29	7/8"	2-1/4"	26179 1	172.5
30	1"	2-1/2"	26182 1	235
31	1-1/8"	2-3/4"	26185 2	342.5
32	1-1/4"	3"	26188 3	462.5
34	1-1/2"	3-1/2"	26191 3	752.5

# MACHINERY EYE BOLTS



Variation in quantity: on special items we reserve the right to a maximum 10% variation for allowances in manufacture.

- 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



**SPECIAL SHANK LENGTHS  
PLAIN PATTERN**

Bolt Diameter N.C.	Special Shank Length	Threaded		Blank	
		Part No.	Weight Per 100	Part No.	Weight Per 100
1/4"	2"	11608 4	6	11008 2	8
1/4"	3"	11615 2	10	11011 2	14
5/16"	2"	11628 2	12	11028 0	14
5/16"	3"	11631 2	14	11031 0	16
5/16"	4"	11634 3	14	11034 1	18
3/8"	2"	11648 0	16	11048 8	18
3/8"	3"	11651 0	18	11051 8	23
3/8"	4"	11654 1	22	11054 9	24
3/8"	4-1/2"	11657 2	22	11057 0	26
7/16"	2"	11668 8	22	11068 6	24
7/16"	3"	11671 8	26	11071 6	30
7/16"	4"	11674 9	30	11074 7	34
7/16"	4-1/2"	11675 6	30	11077 8	36
1/2"	2"	11688 6	32	11088 4	34
1/2"	3"	11691 6	38	11091 4	42
1/2"	4"	11694 7	42	11094 5	48
1/2"	4-1/2"	11697 8	42	11097 6	50
9/16"	2"	11708 1	48	11108 9	52
9/16"	3"	11711 1	54	11111 9	60
9/16"	4"	11714 2	60	11114 0	68
9/16"	4-1/2"	11717 3	60	11117 1	68
5/8"	2"	11728 9	62	11128 7	68
5/8"	3"	11731 9	70	11131 7	74
5/8"	4"	11734 0	74	11134 8	86
5/8"	4-1/2"	11737 1	76	11137 9	90
3/4"	3"	11751 7	96	11151 5	120
3/4"	4"	11754 8	104	11154 6	126
3/4"	4-1/2"	11757 9	108	11157 7	144
3/4"	5"	11760 9	132	11160 7	154
7/8"	3"	11771 5	188	11171 3	196
7/8"	4"	11774 6	202	11174 4	218
7/8"	4-1/2"	11777 7	210	11177 5	224
7/8"	5"	11780 7	218	11180 5	230
1"	3"	11791 3	210	11191 1	232
1"	4"	11794 4	230	11194 2	254
1"	4-1/2"	11797 5	236	11197 3	264
1"	5"	11800 2	254	11200 0	276



**SPECIAL SHANK LENGTHS  
SHOULDER PATTERN**

Bolt Diameter N.C.	Special Shank Length	Threaded		Blank	
		Part No.	Weight Per 100	Part No.	Weight Per 100
1/4"	2"	12808 7	8	12208 5	10
1/4"	3"	12811 7	10	12211 5	12
5/16"	2"	12828 5	12	12228 3	14
5/16"	3"	12831 5	14	12231 3	16
5/16"	4"	12834 6	16	12234 4	18
3/8"	2"	12848 3	20	12248 1	22
3/8"	3"	12851 3	22	12251 1	24
3/8"	4"	12854 4	24	12254 2	28
3/8"	4-1/2"	12857 5	26	12257 3	28
7/16"	2"	12868 1	26	12268 9	30
7/16"	3"	12871 1	30	12271 9	32
7/16"	4"	12874 2	34	12274 0	36
7/16"	4-1/2"	12877 3	36	12277 1	38
1/2"	2"	12888 9	40	12288 7	42
1/2"	3"	12891 9	44	12291 7	46
1/2"	4"	12894 0	46	12294 8	50
1/2"	4-1/2"	12897 1	48	12297 9	52
9/16"	2"	12908 4	48	12308 2	52
9/16"	3"	12911 4	52	12311 2	58
9/16"	4"	12914 5	58	12314 3	60
9/16"	4-1/2"	12917 6	60	12317 4	68
5/8"	2"	12928 2	74	12328 0	80
5/8"	3"	12931 2	82	12331 0	86
5/8"	4"	12934 3	90	12334 1	102
5/8"	4-1/2"	12937 4	92	12337 2	104
3/4"	3"	12951 0	116	12351 8	126
3/4"	4"	12954 1	130	12354 9	140
3/4"	4-1/2"	12957 2	132	12357 0	146
3/4"	5"	12960 2	138	12360 0	154
7/8"	3"	12971 8	186	12371 6	198
7/8"	4"	12974 9	202	12374 7	218
7/8"	4-1/2"	12977 0	208	12377 8	226
7/8"	5"	12980 0	216	12380 8	232
1"	3"	12991 6	254	12391 4	270
1"	4"	12994 7	266	12394 5	290
1"	4-1/2"	12997 8	280	12397 6	304
1"	5"	13000 4	290	12400 3	318

See page 18 for specifications and dimensions.  
Additional special shank lengths available upon request.



# METRIC MACHINERY EYE BOLTS

Dimensions in Millimeters – Some Sizes Available in Stainless Steel on a Special Basis.

**FORGED • CARBON STEEL**  
**SELF-COLORED • SHOULDER PATTERN**



## METRIC SELF-COLORED

Part No.	Metric Size	A Thread Size	B Shank Length, mm	C I.D. Eye, mm	Approx. Wt. Per 100 Pcs. in Lbs.	Working Load Limit in Kgs.	Working Load Limit in Lbs.
13805 5	M6	M6 x 1.0	25.4	19	5	210	462
13825 3	M7	M7 x 1.0	28.5	22	10	370	814
13845 1	M8	M8 x 1.25	31.7	25	17	450	992
13865 9	M10	M10 x 1.5	35.0	28	27	740	1,628
13885 7	M12	M12 x 1.75	38.0	30	36	1,030	2,266
13905 2	M14	M14 x 2.0	44.5	35	71	1,600	3,520
13925 0	M16	M16 x 2.0	44.5	35	74	1,600	3,520
13948 9	M18	M18 x 2.5	51.0	38	99	2,140	4,708
13968 7	M20	M20 x 2.5	57.0	43	158	2,860	6,292
13988 5	M24	M24 x 3.0	63.5	46	227	3,850	8,470
14008 9	M27	M27 x 3.0	70.0	51	341	5,200	11,440
14031 7	M30	M30 x 3.5	76.0	55	460	6,400	14,080
14051 5	M36	M36 x 4.0	89.0	63	734	8,970	19,734

## METRIC HOT GALVANIZED

Part No.	Metric Size	A Thread Size	B Shank Length, mm	C I.D. Eye, mm	Approx. Wt. Per 100 Pcs. in Lbs.	Working Load Limit in Kgs.	Working Load Limit in Lbs.
12500 0	M6	M6 x 1.0	25.4	19	5	210	462
12501 7	M7	M7 x 1.0	28.5	22	10	370	814
12502 4	M8	M8 x 1.25	31.7	25	17	450	992
12503 1	M10	M10 x 1.5	35.0	28	27	740	1,628
12504 8	M12	M12 x 1.75	38.0	30	36	1,030	2,266
12505 5	M14	M14 x 2.0	44.5	35	71	1,600	3,520
12506 2	M16	M16 x 2.0	44.5	35	74	1,600	3,520
12507 9	M18	M18 x 2.5	51.0	38	99	2,140	4,708
12508 6	M20	M20 x 2.5	57.0	43	158	2,860	6,292
12509 3	M24	M24 x 3.0	63.5	46	227	3,850	8,470
12510 9	M27	M27 x 3.0	70.0	51	341	5,200	11,440
12511 6	M30	M30 x 3.5	76.0	55	460	6,400	14,080
12512 3	M36	M36 x 4.0	89.0	63	734	8,970	19,734

## METRIC SPECIAL SHANK LENGTHS — SELF-COLORED

Part No.	Metric Size	A Thread Size	B Shank Length, mm	C I.D. Eye, mm	Approx. Wt. Per 100 Pcs. in Lbs.	Working Load Limit in Kgs.	Working Load Limit in Lbs.
13850 5	M8	M8 x 1.25	76.0	25	19	450	992
13895 6	M12	M12 x 1.75	76.0	30	45	1,030	2,266
13936 6	M16	M16 x 2.0	76.0	35	85	1,600	3,520
13958 8	M18	M18 x 2.5	76.0	38	113	2,140	4,708