

THE JAMES WALKER CO.

MACHINERY EYE BOLTS

Maximum blank lengths, either pattern indicated in column (1). Vertical loads are based on a safety factor of 5 to 1. Variation in quantity: on special items we reserve the right to a maximum 10% variation for allowances in manufacture.

STANDARD SHANK LENGTHS – PLAIN & SHOULDER PATTERN

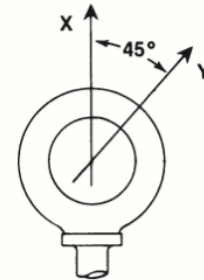
Stock Numbers		Dimensions – Inches						
Plain Pattern	Shoulder Pattern	Shank		Eye		Overall Length Plain	Overall Length Shoulder	Maximum Lengths (1)
		Dia. & Thread	Length	I.D.	O.D.			
1	21	1/4"-20	1"	3/4"	1-1/4"	2-1/4"	2-3/8"	3"
2	22	5/16"-18	1-1/8"	7/8"	1-1/2"	2-5/8"	2-3/4"	4"
3	23	3/8"-16	1-1/4"	1"	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.

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	750
5/8"-11	4000	1000
3/4"-10	6000	1500
7/8"-9	7000	1750
1"-8	9000	2250
1-1/8"-7	12000	2500
1-1/4"-7	15000	3750
1-1/2"-6	21000	4900



Plain Pattern



Shoulder Pattern

ANGULAR LIFTS SHOULD BE AVOIDED WHENEVER POSSIBLE.

WARNING: DO NOT EXCEED RATED CAPACITIES

THE JAMES WALKER CO.

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.

STANDARD SHANK LENGTHS

PLAIN PATTERN



Available in Zinc Plated and Hot Galvanized.

Some sizes available in Stainless Steel.

Available in Metric

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

WARNING: DO NOT EXCEED RATED CAPACITIES