

# Grade 8 Eyebolts & Eyenuts

## WORKING LOAD LIMIT CHART

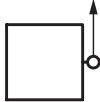
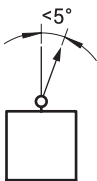
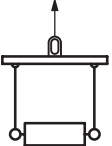

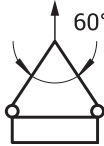
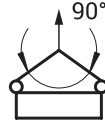
Nominal thread size	Single eyebolt or eyenut		Pair of eyebolts or eyenuts				
	Transverse (t)	Axial (t)	Transverse (t)	Maximum included angle 30° (t)	Maximum included angle 60° (t)	Maximum included angle 90° (t)	
							
Load Factor	0.25	1.0	0.5	1.25	0.8	0.5	
M08	5/16"	0.20	0.80	0.40	1.00	0.64	0.40
M10	3/8"	0.25	1.00	0.50	1.25	0.80	0.50
M12	1/2"	0.40	1.60	0.80	2.00	1.28	0.80
M16	5/8"	1.00	4.00	2.00	5.00	3.20	2.00
M20	3/4"	1.50	6.00	3.00	7.50	4.80	3.00
M22	7/8"	1.75	7.00	3.50	8.75	5.60	3.50
M24	1"	2.00	8.00	4.00	10.00	6.40	4.00
M27	1 1/8"	2.00	8.00	4.00	10.00	6.40	4.00
M30	1 1/4"	3.00	12.00	6.00	15.00	9.60	6.00
M33	-	3.25	13.00	6.50	16.25	10.40	6.50
M36	1 1/2"	4.00	16.00	8.00	20.00	12.80	8.00
M42	1 3/4"	6.00	24.00	12.00	30.00	19.20	12.00
M48	2"	8.00	32.00	16.00	40.00	25.60	16.00



Figure 1 Alignment of loading with axis of threaded end for axial loading.

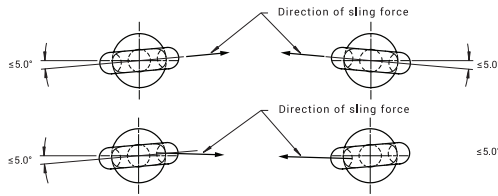


Figure 2 Alignment of eyes when using 2 leg slings.

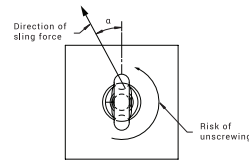


Figure 3 Misalignment of eye in transverse configuration.

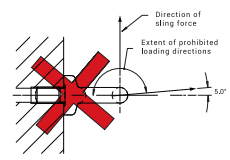


Figure 4 Angular limits of lateral loading perpendicular to the plane of the eye.

### General Loading

Where the centre line of loading is not in line with the axis of the threaded end of the eyebolt or eyenut, including where a two leg sling is connected to a pair of eyebolts or eyenuts to support a load, the angle between the centre line of the loading on the eyes of the eyebolt or eyenut and the plane containing the eye of the eyebolt or eyenut shall not exceed  $5^\circ$ . See Figure 1 & 2

### Transverse Loading

Where transverse loading is applied the plane of the eye of the eyebolt or eyenut shall be aligned with sling forces and shall not be laterally loaded. See Figure 3

### Lateral Loading Not Permitted

Loads shall not be applied outside tolerances shown. See Figure 4

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