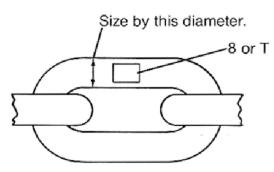


# Rigging Figure Booklet (for Online Practice Questions)

May 2018

#### **Chain Slings**

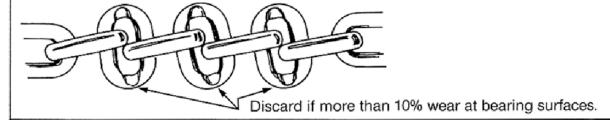
#### GRADE T (8) ALLOY STEEL **Working Load Limit** in pounds Single Single 2-Leg Bridle Hitch & Chain Single Basket Size Vertical Choker Single Basket Hitch Hitch Hitch Hitch With Legs Inclined (Inches) (Vertical Legs) Sling Angle' 60° 45° 30° 1/4 3/8 1/2 5/8 1/8 1/8 2,800 5,600 4,850 3,959 2,800 2,100 5,680 4.260 11,360 9,838 8,032 5,680 9,600 9,600 7,200 19,200 16,627 13,574 14,480 10.860 28.960 25,079 20,475 14,480 22,640 16,980 45,280 39,212 32,013 22,640 27,360 20,520 54,720 47,388 38,687 27,360 1 38,160 28,620 76,320 66,093 53,958 38,160 11/4 57,840 57,840 43,380 115,680 100,179 81,786



Use only alloy steel chain. Links will be stamped with 8 or T.

When using a 2-leg bridle in a choker hitch configuration, multiply the above values by .75.

When using a double basket hitch configuration, multiply the above values by 2.



Note: For training and assessment use only.

#### **Nylon Web Slings**

6800 lb/in Material						
	Working Load Limit in pounds					
Web Width (Inches)	Single Vertical Hitch	Single Choker Hitch	Single Basket Hitch (Vertical Legs)	& Sin	eg Bridle Hito gle Basket H n Legs Incline Sling Angle	itch
	40	9		60°	45°	30°
1 2 3 4 5 6	1,100 2,200 3,300 4,400 5,500 6,600	825 1,650 2,475 3,300 4,125 4,950	2,200 4,400 6,600 8,800 11,000 13,200	1,905 3,810 5,715 7,620 9,525 11,430	1,555 3,110 4,665 6,220 7,775 9,330	1,100 2,200 3,300 4,400 5,500 6,600
		Ā		When using a 2-leg bridle in a choker hitch configuration, multiply the above values by .75.  When using a double basket hitch configuration, multiply the above values by 2.		ion, s by <b>.75</b> . sket hitch

Note: Capacities are for flat eye, twisted eye and triangle fittings.

For training and assessment use only.

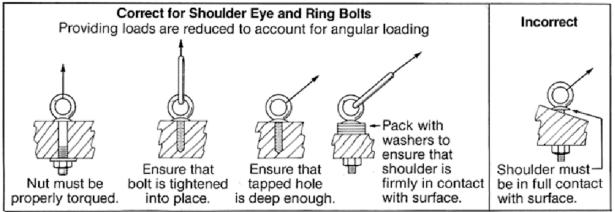
### Wire Rope Slings

	6 x 19 Cla	assification G		ved Plow Ste	el, IWRC	
	Working Load Limit in pounds					
Rope Diameter (Inches)	Single Vertical Hitch	Single Choker Hitch	Single Basket Hitch (Vertical Legs)	Sing	g Bridle Hitc gle Basket Hi h Legs Inclin Sling Angle	tch ed
	2		$\cup$	60°	45°	30°
3/16 1/4 5/16 3/8 7/16 5/8 3/4 7/8 1 1/4 13/8 1 1/2	650 1,150 1,750 2,550 3,450 4,700 5,700 7,100 10,200 13,750 17,950 22,750 28,200 34,800 41,300	480 860 1,300 1,900 2,600 3,500 4,200 5,300 7,650 10,300 13,450 17,000 21,200 26,100 31,000	1,300 2,300 3,500 5,100 6,900 9,400 11,400 14,200 20,400 27,500 35,900 45,500 56,400 69,600 82,600	a choker hit multiply the When using	900 1,600 2,500 3,600 4,900 6,650 8,050 10,000 14,400 19,400 25,400 32,200 39,900 49,200 58,400 g a 2-leg bridle tch configurate above value	ion, s by <b>.75</b> . sket hitch

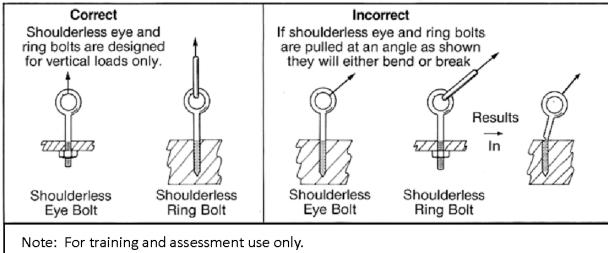
#### **Eye Bolts**

Stock Diameter	Working Load Limit in pounds				
(Inches)	Vertical	60°	45°	Less than 45°	
1/4 5/16 3/8 1/2 5/8 3/4 7/8 1 1 1/4 1 1/2	500 800 1,200 2,200 3,500 5,200 7,200 10,000 15,200 21,400	175 280 420 770 1,225 1,820 2,520 3,500 5,320 7,490	125 200 300 550 875 1,300 1,800 2,500 3,800 5,350	RECONNETIDED	

#### SHOULDER BOLTS



#### SHOULDERLESS BOLTS



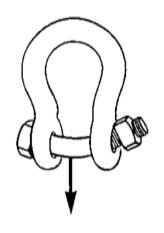
#### **Shackles**

## SHACKLES (ALL TYPES) — Weldless Construction

- Forged Alloy Steel

Stock Diameter (Inches)	Inside Width At Pin (Inches)	Max. Safe Working Load Single Vertica Pull (Pounds)
3/16 3/16 3/8 3/16 3/8 3/4 1 1 1/8 1 1/4 1 1/4 2 2 1/2 3 3 1/2 4	3/8 15/32 17/32 21/32 23/32 13/16 1 1/16 1 1/16 1 1/16 1 1/16 1 1/16 1 1/16 2 1/32 2 3/8 3 4/8 5 3/4 6 1/2	665 1,000 1,500 2,000 3,000 4,000 6,500 9,500 13,000 17,000 19,000 24,000 27,000 34,000 50,000 70,000 150,000 260,000

Never replace a shackle pin with a bolt.



The load will bend the bolt.

Size by stock diameter -- not pin diameter.

