

## Fig. 233

## Turnbuckle

**Size Range:** 1 1/4" through 5"

**Material:** Carbon steel

**Finish:**  Plain or  Zinc Plated (Hot-Dip Galvanized optional)

**Services:** Provides adjustments up to 12" with loads up thru 184,000 pounds.

**Approvals:** Complies with Federal Specification A-A-1192A (Type 13), WW-H-171-E (Type 13), ANSI/MSS SP-69 and MSS SP-58 (Type 13).

**Ordering:** Specify rod size, figure number, name, finish and opening dimension.

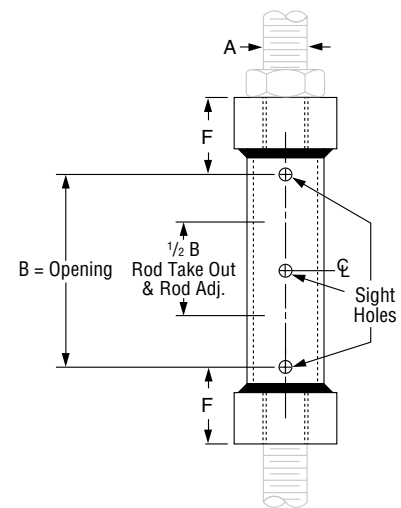


FIG. 233: LOADS (LBS) • WEIGHTS (LBS) • DIMENSIONS (IN)						
Rod Size* A	Max Load	Weight/Opening				F
		B= 6"	B=12"	B=18"	B=24"	
1 1/4	9,500	–	9.0	10.8	12.6	2 1/8
1 1/2	13,800	–	12.4	14.9	17.4	2 3/8
1 3/4	18,600	–	11.7	14.2	16.7	
2	24,600	–	20.9	24.7	28.5	3 3/16
2 1/4	32,300	–	29.5	34.6	39.7	3 1/4
2 1/2	39,800	–	28.3	33.4	38.5	
2 3/4	49,400	35.6	41.8	48.1	54.3	3 1/2
3	60,100	41.6	49.1	56.6	64.1	3 13/16
3 1/4•	71,900	39.6	47.0	54.5	62.0	
3 1/2•	84,700	72.5	82.9	93.3	103.7	4 7/16
3 3/4•	98,500	69.6	80.0	90.4	107.30	
4•	113,400	110.7	125.1	139.4	153.6	5
4 1/4•	129,400	107.1	121.5	135.7	150.0	
4 1/2•	146,600	233.5	255.2	276.9	298.6	6 13/16
4 3/4•	164,700	227.6	249.3	271.0	292.7	
5•	184,000	221.4	243.1	264.8	286.5	

• Furnished with 4 UN series threads. \*Tapped right hand and left hand thread.

PROJECT INFORMATION		APPROVAL STAMP	
Project:		<input type="checkbox"/> Approved	
Address:		<input type="checkbox"/> Approved as noted	
Contractor:		<input type="checkbox"/> Not approved	
Engineer:		Remarks:	
Submittal Date:			
Notes 1:			
Notes 2:			