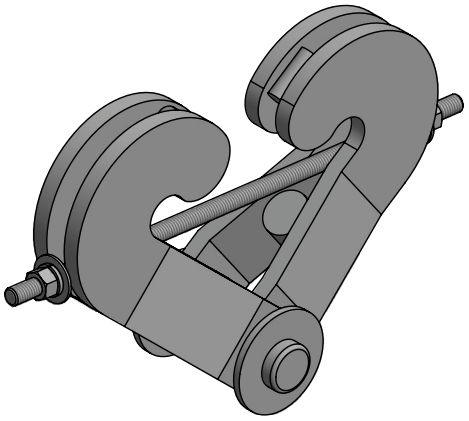
EMPIRE INDUSTRIES, INC

FIG. 450

HEAVY BEAM CLAMP ASSEMBLY

v | 06.2024

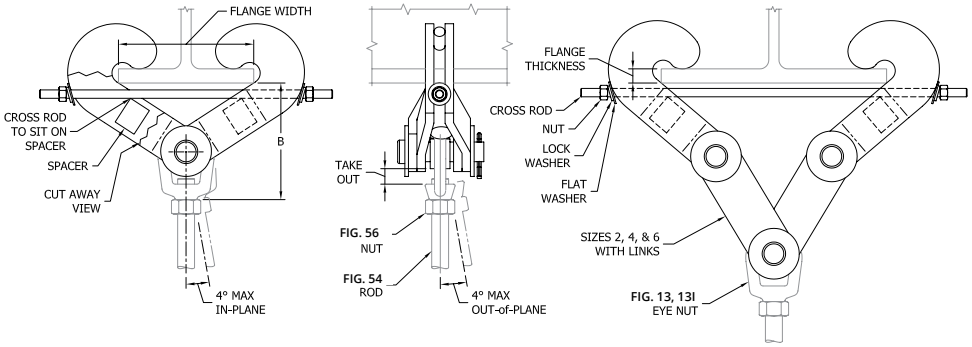
LOCAL: 860 647 1431 • TOLL FREE: 800 243 4844 • ORDERS@EMPIREINDUSTRIES.COM • QUOTES@EMPIREINDUSTRIES.COM



Materials/Finishes:	Plain Carbon Steel (450B) ☐	Hot-Dip Galvanized (450HDG) ☐
	T-304 Stainless Steel (450SS) ☐	T-316 Stainless Steel (450SX) ☐
Material/Finish Specificatioins	Carbon Steel meeting ASTM: A36, A307 Gr A, A563 Gr A	
	Stainless Steel Type 304 and 316 meeting ASTM: A240, F593, and F594	
	Black or Hot-Dip Galvanized meeting ASTM A123	
Variants:	With Weldless Eye Nut (450W) ☐	
Service:	To hang piping with a single threaded rod from the bottom center of wide flange beams (W-shape) or American standard beams (S-shape). Provides vertical hanger rod adjustment. Permits horizontal pipe movement through hanger rod rotation. For hanger assemblies loaded by static tensile forces from piping or similar services. Normally used with figure 26, 26W eyerods or figure 13, 13I weldless eye nuts.	
Max. Temp	650ºF for Black Carbon Steel and Stainless Steel	
	350ºF for Hot-Dip Galvanized Carbon Steel	
Approvals:	Complies with Federal Specification WW-H-171-E (Type# 28 without links, Type #29 with links), and Manufacturers' Standardization Society MSS SP-58 (Type# 28 without links, Type #29 with links).	
Ordering:	Specify figure number, material/finish, clamp size, rod size, flange width, flange thickness.	
Notes:	**1.)** When ordering, flange width and flange thickness may be specified by the AISC W-shape or S-shape designation, e.g., W8x35. **2.)** Hanger rod in-plane and out-of-plane rotation resultant shall be ≤ 4º per MSS SP-58. **3.)** Maximum load based on FIG. #54 Continuous Threaded Rod. Smaller rod sizes may be used. See FIG. #54 for load rating. **4.)** Installation: Prior to tightening, cross rod shall sit on both spacers. Tighten nuts until cross rod bends slightly. Lock washers may not flatten.	

SIZE	MAX FLG THK	FLG WIDTH	MIN ROD	MAX ROD	TAKE OUT	WEIGHT EACH, LBS.	MAX. REC. LOAD, LBS.
1	5/8	4 to 8	3/8	3/4	1 1/16	7.2	3230
2	5/8	7 to 15	3/8	3/4	1 1/16	13.6	3230
3	3/4	4 to 8	3/8	1	1 1/16	9.8	5900
4	3/4	7 to 15	3/8	1	1 1/16	17.4	5900
5	1	5 to 9	7/8	1 1/2	1 11/16	25.5	13800
6	1	8 to 16	7/8	1 1/2	1 11/16	42.8	13800

SIZE	DIMENSION B (±¼") FLANGE WIDTH												
	4	5	6	7	8	9	10	11	12	13	14	15	16
1	5 9/16	5 3/8	5 3/16	4 15/16	4 3/8	-	-	-	-	-	-	-	-
2	-	-	-	9 15/16	9 13/16	9 5/8	9 3/8	9 1/8	8 13/16	8 7/16	8 1/16	7 7/8	-
3	6 1/2	6 5/16	6 1/8	5 7/8	5 5/16	-	-	-	-	-	-	-	-
4	-	-	-	10 7/8	10 3/4	10 9/16	10 5/16	10 1/16	9 3/4	9 3/8	9	8 9/16	-
5	-	8 5/8	8 3/8	8 1/16	7 7/8	7 3/16	-	-	-	-	-	-	-
6	-	-	-	-	12 7/8	12 3/4	12 9/16	12 3/8	12 1/8	11 7/8	11 7/16	11 1/8	10 9/16



PROJECT INFORMATION	APPROVAL STAMP
Project:	☐ APPROVED AS NOTED
Address:	NOTES:
Contractor:	
Engineer:	
Date:	
☐ APPROVED	
☐ NOT APPROVED	