



FIG. 645
FIG. 650

Welding Beam Attachment

Welding Beam Attachment w/ Bolt and Nut

SERVICE: To provide hanger rod attachment to structural member bottom flange. Used to provide vertical hanger rod adjustment or to permit horizontal pipe movement through hanger rod rotation for pipe support assemblies loaded by static and dynamic tensile forces from piping or similar services.

MATERIAL: Carbon Steel meeting ASTM: A36, A307 Gr A and A563 Gr A
Stainless Steel Type 304 and 316 meeting ASTM: A240, F593 and F594

FINISH: Black or Hot-Dip Galvanized meeting ASTM A123

MAX TEMP: 650°F for Black Carbon Steel and Stainless Steel
350°F for Hot-Dip Galvanized Carbon Steel

STANDARDS: MSS SP-58 Type 22, FS WW-H-171E Type 22

ORDERING: Specify figure number, rod size, material and finish. (Order hardware separately.)

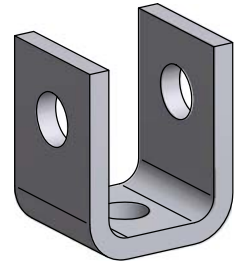


FIG. #645

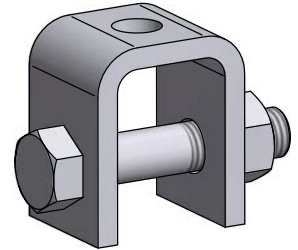


FIG. #650

SIZE	T x W	BOLT B	E	G	F	R	S	H	X	WEIGHT EACH, LBS.		MAX. REC. LOAD, LBS.
										FIG. #645	FIG. #650	
3/8	3ga x 2	1/2 x 2 3/4	2	4 1/2	2	7/8	1 1/2	9/16	1/4	0.83	1.04	730
1/2	3ga x 2	5/8 x 2 3/4	2	4 1/2	2	7/8	1 1/2	11/16	1/4	0.81	1.16	1350
5/8	3ga x 2	3/4 x 3	2	4 3/8	2	7/8	1 1/2	13/16	1/4	0.78	1.34	2160
3/4	3/8 x 2 1/2	7/8 x 3 1/2	2	4 1/4	2	1 1/8	1 9/16	15/16	5/16	1.61	2.52	3230
7/8	3/8 x 2 1/2	1 x 4	3	6 1/8	3	1 1/4	2 1/16	1 1/16	5/16	2.30	3.68	4480
1	1/2 x 3	1 1/8 x 5 1/2	3	6 1/8	3	1 1/2	2 3/4	1 1/4	5/16	4.07	6.45	5900
1 1/8	1/2 x 3	1 1/4 x 5 1/2	3	7 1/16	3	1 3/4	2 3/4	1 3/8	3/8	4.10	7.22	7420
1 1/4	5/8 x 4	1 3/8 x 6 †	3	7	3	2	3	1 1/2	3/8	7.28	9.82	9500
1 1/2	3/4 x 5	1 5/8 x 6 1/2 †	4	7 7/8	4	2 1/2	3 1/2	1 3/4	3/8	14.49	18.31	13800
1 3/4	3/4 x 5	1 7/8 x 6 7/8 †	5	12 5/8	5	2 3/4	3 3/4	2	3/8	16.53	21.86	18600
2 ‡	3/4 x 6	2 1/4 x 6 7/8 †	5	12 7/16	5 1/4	3 1/4	3 3/4	2 3/8	3/8	24.94	32.84	24600

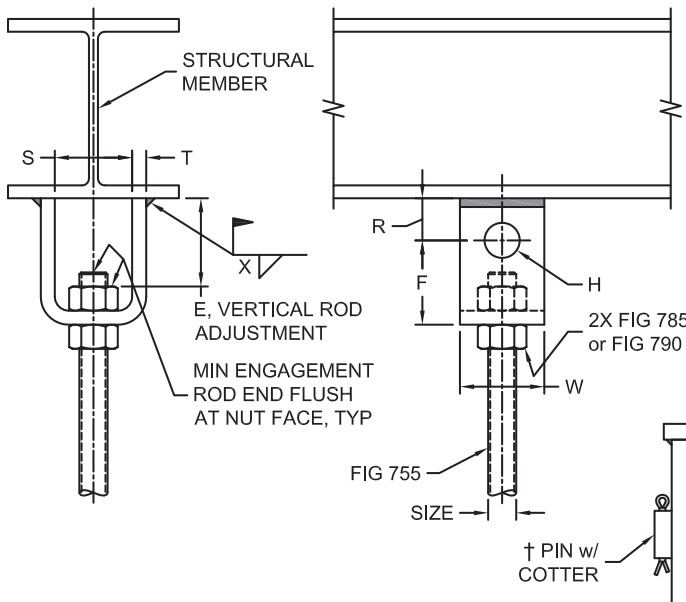


FIG 645

w/o BOLT AND NUT

‡ WELDED CONSTRUCTION

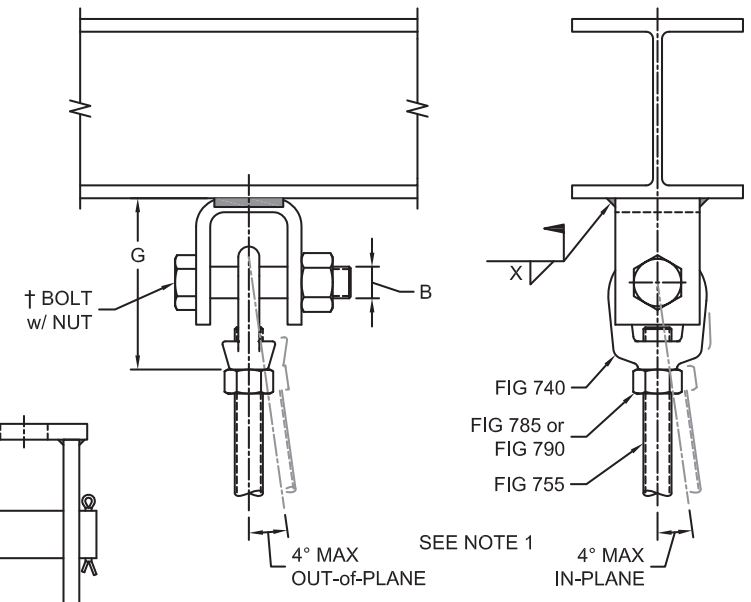


FIG 650

w/ BOLT AND NUT

Notes:

- † FIG. #650 bolt and nut replaced by pin with cotters.
- ‡ FIG. #645 and FIG. #650 welded construction. Weld all-around to structural member.
- 1. Maximum hanger rod in-plane and out-of-plane rotation resultant $\leq 4^\circ$ per MSS SP-58. Pipe attachment shall provide rotation.
- 2. Welding in accordance with AWS D1.1 for carbon steel with 70000 psi filler metal and AWS D1.6 for stainless steel with 80000 psi filler metal.
- 3. Welding may be all-around to structure as necessary.