



UNDERGROUND PIPE CLAMPS

Fig. 590
FOUR BOLT
UNDERGROUND PIPE
CLAMP

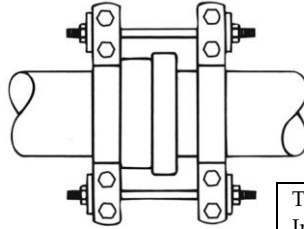
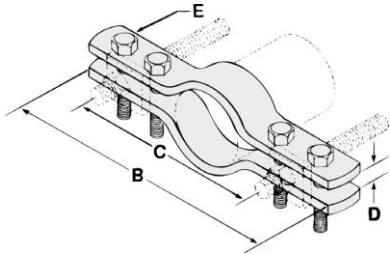
FUNCTION: Designed for clamping the caulked joints of underground A.W.W.A. ductile iron water pipe lines to prevent separation of joints.

APPROVALS: Complies with National Fire Protection Association Standard 24 for 4" (100) thru 12" (300) pipe.

MATERIAL: Low carbon steel

FINISH: Plain or Electro-galvanized

ORDERING: Specify pipe size and figure number. Order Fig. 595 washer separately.



Typical
Installation

Available in
stainless steel.
To order, specify
304 or 316 and add
suffix SS to figure
number.
Price on request.

Pipe Size		Max. Pipe O.D.		B		C		D		Bolt Size E	Recom. Tie Rod Size	Max. Test Pressure		Force On Clamp		Wt. Each	
												PSI	kPa	lbs.	kN	lbs.	kg
3	(80)	3.96	(100.58)	13 ³ / ₈	(339.73)	9 ³ / ₈	(238.13)	1 ¹ / ₄	(31.75)	5/8 x 3	3/4	250	(1722.5)	4550	(20.24)	8.60	(3.90)
4	(100)	4.80	(121.92)	14 ¹ / ₂	(368.30)	10 ¹ / ₈	(257.18)	1 ¹ / ₄	(31.75)	5/8 x 3	3/4	250	(1722.5)	4550	(20.24)	9.38	(4.25)
6	(150)	6.90	(175.26)	17	(431.80)	12 ⁵ / ₈	(320.68)	1 ¹ / ₄	(31.75)	5/8 x 3	3/4	250	(1722.5)	9340	(41.55)	11.50	(5.22)
8	(200)	9.05	(229.87)	19 ³ / ₄	(501.65)	15 ³ / ₈	(390.53)	1 ¹ / ₄	(31.75)	5/8 x 3 ¹ / ₂	3/4	250	(1722.5)	16080	(71.53)	20.54	(9.32)
10	(250)	11.10	(281.94)	22	(558.80)	17 ¹ / ₈	(434.98)	1 ¹ / ₄	(31.75)	3/4 x 3 ¹ / ₂	3/4	250	(1722.5)	24180	(107.56)	23.15	(10.50)
12	(300)	13.20	(335.28)	25 ⁵ / ₈	(650.88)	20 ¹ / ₂	(520.70)	1 ¹ / ₄	(31.75)	7/8 x 3 ¹ / ₂	1	250	(1722.5)	34230	(152.26)	35.85	(16.26)
14	(350)	15.30	(388.62)	27 ³ / ₄	(704.85)	23 ¹ / ₈	(587.38)	1 ³ / ₄	(44.45)	7/8 x 4	1	120	(826.8)	22200	(98.75)	46.78	(21.22)
16	(400)	17.40	(441.96)	31 ⁷ / ₈	(809.63)	25 ⁷ / ₈	(657.23)	1 ³ / ₄	(44.45)	1 x 4	1 ¹ / ₈	115	(792.3)	27760	(123.48)	70.53	(31.99)
18	(450)	19.50	(495.30)	35 ⁵ / ₈	(904.88)	29	(736.60)	1 ³ / ₄	(44.45)	1 ¹ / ₄ x 4 ¹ / ₂	1 ¹ / ₄	100	(689.0)	23900	(106.31)	74.65	(33.86)
20	(500)	21.60	(548.64)	38 ¹ / ₈	(968.38)	31 ¹ / ₈	(790.58)	1 ³ / ₄	(44.45)	1 ¹ / ₄ x 4 ¹ / ₂	1 ³ / ₈	75	(516.7)	27500	(122.33)	98.65	(44.75)
24	(600)	25.80	(655.32)	44 ¹ / ₂	(1130.30)	36 ¹ / ₂	(927.10)	1 ³ / ₄	(44.45)	1 ¹ / ₂ x 5	1 ¹ / ₂	50	(344.5)	26200	(116.54)	135.50	(61.46)

Note: Clamps must be connected by means of threaded tie rods and the nuts drawn tight on the washers to assure a tight joint.

Unless otherwise specified, all dimensions on drawings and in charts are in inches and dimensions shown in parentheses are in millimeters.