

Beam clamps



Our beam attachments and pipe supports offered in this section are designed to provide supports without drilling or welding. A complete selection of beam clamps, pipe clamps, rollers, supports and accessories are designed for use with our channels and offer many installation advantages.

Materials & Finishes (Unless otherwise noted)

Pipe clamps, pipe hangers, beam clamps, brackets, and rollers are made from low carbon steel strips, plates or rod unless noted.

Note: A minimum order may apply on special material and finishes.

Load Data

The load data published includes a safety factor of 5.0 unless noted (safety factor = ratio of ultimate load to the design load).

Recommended Torque For Setscrews (unless noted)

See chart on page 106 for recommended torquing of bolts (not setscrews).

Metric

Metric dimensions are shown in parentheses. Unless noted, all metric dimensions are in millimeters.

Finish Code	Finish	Specification
PLN	Plain	ASTM A1018 Gr. 33 ASTM A1011 SS Grade 33
ZN	Electro-Plated Zinc	ASTM B633 SC3 Type III or ASTM A653
GRN	DURA GREEN™	
-	Malleable Iron	ASTM A47 Gr. 32510
HDG	Hot-Dipped Galvanized	ASTM A123
CZ	Chromium Zinc	ASTM F1136 Gr. 3
SS4	Stainless Steel Type 304	ASTM A240
SS6	Stainless Steel Type 316	ASTM A240
AL	Aluminum	ASTM B209

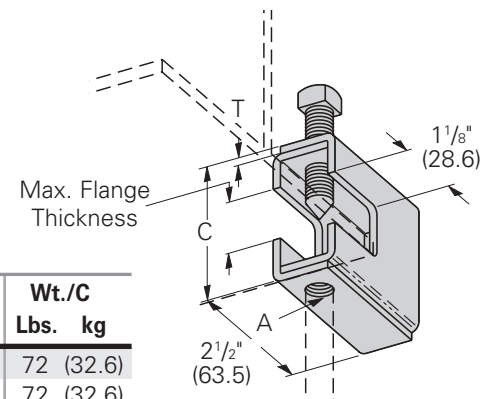
Setscrew Size	1/4"-20	3/8"-16	1/2"-13
Foot/Lbs.	4	5	11
Nm	5	7	15

Setscrew Size	5/8"-11	3/4"-10
Foot/Lbs.	21	34
Nm	28	46

B303 thru B309 Beam Clamps

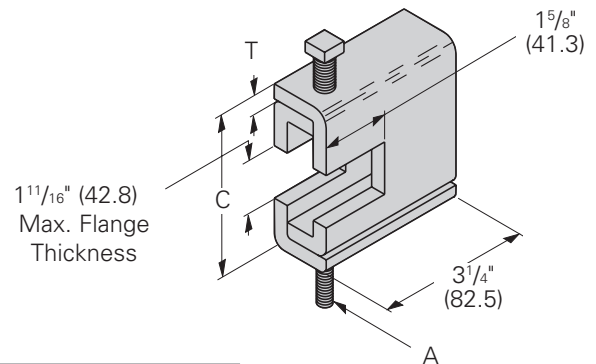
- Safety Factor of 5
- Max. flange thickness $\frac{1}{16}$ " (1.6) thru $\frac{7}{8}$ " (22.2)
- Setscrew included
- When retaining strap is required, order B312 separately
- Recommended setscrew torque: $\frac{3}{8}$ "-16 150 in-lbs. (16.9 N•m)
 $\frac{1}{2}$ "-13 350 in-lbs. (39.5 N•m)
- Standard finishes: ZN, HDG

Part No.	Thread Size A	Set Screw	C In. mm	D In. mm	Design Load Lbs. kN	Wt./C Lbs. kg
B303	$\frac{1}{4}$ "-20	$\frac{3}{8}$ "-16	$2\frac{5}{16}$ " (58.7)	11 Ga. (3.0)	400 (1.78)	72 (32.6)
B304	$\frac{5}{16}$ "-18	$\frac{3}{8}$ "-16	$2\frac{5}{16}$ " (58.7)	11 Ga. (3.0)	600 (2.67)	72 (32.6)
B305	$\frac{3}{8}$ "-16	$\frac{3}{8}$ "-16	$2\frac{5}{16}$ " (58.7)	11 Ga. (3.0)	600 (2.67)	72 (32.6)
B306	$\frac{3}{8}$ "-16	$\frac{1}{2}$ "-13	$2\frac{7}{16}$ " (61.9)	7 Ga. (4.5)	1100 (4.89)	97 (44.0)
B307	$\frac{1}{2}$ "-13	$\frac{1}{2}$ "-13	$2\frac{7}{16}$ " (61.9)	7 Ga. (4.5)	1100 (4.89)	97 (44.0)
B308	$\frac{1}{2}$ "-13	$\frac{1}{2}$ "-13	$2\frac{9}{16}$ " (65.1)	$\frac{1}{4}$ " (6.3)	1500 (6.67)	133 (60.3)
B309	$\frac{5}{8}$ "-11	$\frac{1}{2}$ "-13	$2\frac{9}{16}$ " (65.1)	$\frac{1}{4}$ " (6.3)	1500 (6.67)	133 (60.3)



B321 Series Beam Clamps

- Safety Factor of 5
- $1\frac{1}{16}$ " (42.8) Max. Flange Thickness
- Setscrew included
- When retaining strap is required, order B312 separately
- Recommended setscrew torque: $\frac{1}{2}$ "-13 350 in-lbs. (39.5 N•m)
 $\frac{5}{8}$ "-11 700 in-lbs. (79.0 N•m)
- Minimum flange thickness: B321-1 thru B321-3 $\frac{1}{4}$ " (6.3)
B321-4 and B321-5 $\frac{3}{8}$ " (9.5)
- Standard finishes: ZN, HDG

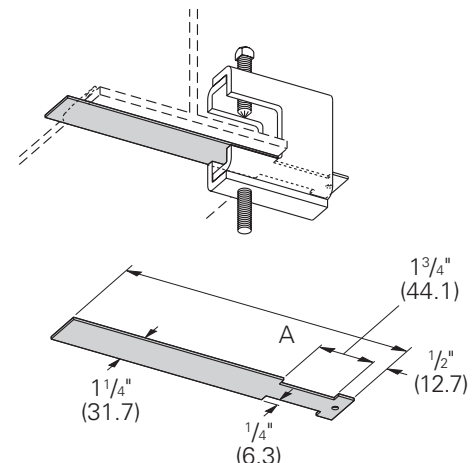


Part No.	Thread Size A	Setscrew Size	C In. mm	D In. mm	Design Load Lbs. kN	Wt./C Lbs. kg
B321-1	$\frac{3}{8}$ "-16	$\frac{1}{2}$ "-13	$3\frac{9}{16}$ " (92.1)	$\frac{1}{4}$ " (6.3)	1300 (5.78)	187 (84.8)
B321-2	$\frac{1}{2}$ "-13	$\frac{1}{2}$ "-13	$3\frac{9}{16}$ " (92.1)	$\frac{1}{4}$ " (6.3)	1400 (6.23)	186 (84.3)
B321-3	$\frac{5}{8}$ "-11	$\frac{1}{2}$ "-13	$3\frac{9}{16}$ " (92.1)	$\frac{1}{4}$ " (6.3)	1600 (7.12)	185 (83.9)
B321-4	$\frac{5}{8}$ "-11	$\frac{5}{8}$ "-11	$3\frac{23}{32}$ " (94.4)	$\frac{5}{16}$ " (7.9)	1800 (8.00)	239 (108.4)
B321-5	$\frac{3}{4}$ "-10	$\frac{5}{8}$ "-11	$3\frac{23}{32}$ " (94.4)	$\frac{5}{16}$ " (7.9)	2000 (8.89)	238 (107.9)

B312 Series Retaining Strap for use with B303 thru B309 and B321 Series

- $\frac{3}{4}$ " (19.0) Max. flange thickness
- For thicker beams, step up one flange width size
- Material: 14 gauge (1.9)
- Standard finishes: GALV, HDG

Part No.	For Flange Width In. mm	A In. mm	Wt./C Lbs. kg
B312-6	6" (152.4)	9" (228.6)	22 (10.0)
B312-9	9" (228.6)	12" (304.8)	30 (13.6)
B312-12	12" (304.8)	15" (381.0)	40 (18.1)
B312-15	15" (381.0)	18" (457.2)	49 (22.2)



Reference page 154 for general fitting and standard finish specifications.