

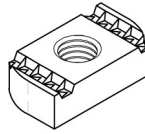
STRUT NUTS & HARDWARE



FIG. 3001-3011

STRUT NUT WITHOUT SPRING

Fig. No.	Thread Size	Nut Thickness		Wt. Each	
				Lbs.	kg
3001	#8 - 32	1/4	(6.35)	.06	(.03)
3002	#10 - 24	1/4	(6.35)	.06	(.03)
3003	#10 - 32	1/4	(6.35)	.06	(.03)
3004*	1/4 - 20	1/4	(6.35)	.06	(.03)
3005	5/16 - 18	1/4	(6.35)	.07	(.03)
3006*	3/8 - 16	3/8	(9.53)	.09	(.04)
3007	7/16 - 14	3/8	(9.53)	.09	(.04)
3008*	1/2 - 13	1/2	(12.70)	.12	(.05)
3009	5/8 - 11	1/2	(12.70)	.13	(.06)
3010	3/4 - 10	1/2	(12.70)	.13	(.06)
3011	7/8 - 9	1/2	(12.70)	.13	(.06)



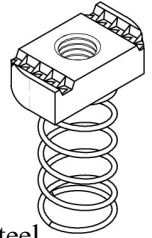
Material:
Carbon steel
(Type 304 or 316
Stainless Steel upon
request)
Finish:
Electro-galvanized
Ordering:
Specify figure number
and material.

*Available in aluminum upon request

FIG. 3101-3111

STRUT NUT WITH SPRING

Fig. No.	Thread Size	Nut Thickness		Wt. Each	
				Lbs.	kg
3101	#8 - 32	1/4	(6.35)	.07	(.03)
3102	#10 - 24	1/4	(6.35)	.07	(.03)
3103	#10 - 32	1/4	(6.35)	.07	(.03)
3104*	1/4 - 20	1/4	(6.35)	.07	(.03)
3105	5/16 - 18	1/4	(6.35)	.07	(.03)
3106*	3/8 - 16	3/8	(9.53)	.10	(.05)
3107	7/16 - 14	3/8	(9.53)	.10	(.05)
3108*	1/2 - 13	1/2	(12.70)	.13	(.06)
3109	5/8 - 11	1/2	(12.70)	.15	(.07)
3110	3/4 - 10	1/2	(12.70)	.15	(.07)
3111	7/8 - 9	1/2	(12.70)	.15	(.07)



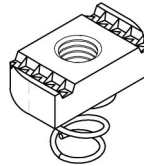
Material:
Carbon steel
(Type 304 or 316
Stainless Steel upon
request)
Finish:
Electro-galvanized
Ordering:
Specify figure number
and material.

*Available in aluminum upon request

FIG. 3201-3210

STRUT NUT WITH SHORT SPRING

Fig. No.	Thread Size	Nut Thickness		Wt. Each	
				Lbs.	kg
3201	#8 - 32	1/4	(6.35)	.07	(.03)
3202	#10 - 24	1/4	(6.35)	.07	(.03)
3203	#10 - 32	1/4	(6.35)	.07	(.03)
3204	1/4 - 20	1/4	(6.35)	.07	(.03)
3205	5/16 - 18	1/4	(6.35)	.07	(.03)
3206	3/8 - 16	3/8	(9.53)	.09	(.04)
3207	7/16 - 14	3/8	(9.53)	.09	(.04)
3208	1/2 - 13	3/8	(9.53)	.09	(.04)
3209	5/8 - 11	3/8	(9.53)	.10	(.05)
3210	3/4 - 10	3/8	(9.53)	.10	(.05)

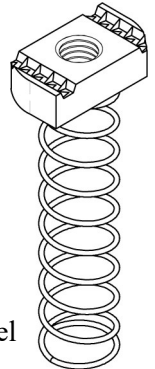


Material:
Carbon steel
Finish:
Electro-galvanized
Ordering:
Specify figure number.

FIG. 3301-3311

STRUT NUT WITH LONG SPRING

Fig. No.	Thread Size	Nut Thickness		Wt. Each	
				Lbs.	kg
3301	#8 - 32	1/4	(6.35)	.07	(.03)
3302	#10 - 24	1/4	(6.35)	.07	(.03)
3303	#10 - 32	1/4	(6.35)	.07	(.03)
3304	1/4 - 20	1/4	(6.35)	.07	(.03)
3305	5/16 - 18	1/4	(6.35)	.07	(.03)
3306	3/8 - 16	3/8	(9.53)	.10	(.05)
3307	7/16 - 14	3/8	(9.53)	.09	(.04)
3308	1/2 - 13	1/2	(12.70)	.13	(.06)
3309	5/8 - 11	1/2	(12.70)	.15	(.07)
3310	3/4 - 10	1/2	(12.70)	.15	(.07)
3311	7/8 - 9	1/2	(12.70)	.14	(.06)



Material:
Carbon steel
Finish:
Electro-galvanized
Ordering:
Specify figure number.

FIG. 3351-3353

SHALLOW STRUT NUT WITHOUT SPRING

Material:
Carbon steel
Finish:
Electro-galvanized
Ordering:
Specify figure number.

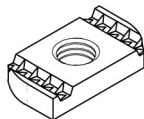


Fig. No.	Thread Size	Nut Thickness		Wt. Each	
				Lbs.	kg
3351	1/2 - 13	3/8	(9.53)	.09	(.04)
3352	5/8 - 11	3/8	(9.53)	.11	(.05)
3353	3/4 - 10	3/8	(9.53)	.09	(.04)

FIG. 3404-3408

SQUEEZE NUT

Material:
Carbon steel
Finish:
Electro-galvanized
Ordering:
Specify figure number.

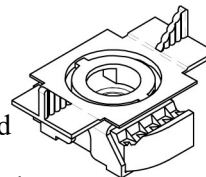


Fig. No.	Thread Size	Nut Thickness		Wt. Each	
				Lbs.	kg
3404	1/4 - 20	3/8	(9.53)	.09	(.04)
3406	3/8 - 16	3/8	(9.53)	.11	(.05)
3408	1/2 - 13	3/8	(9.53)	.09	(.04)

FIG. 3504-3508

COMBO NUT WASHER

Material:
Carbon steel
Finish:
Electro-galvanized
Ordering:
Specify figure number.

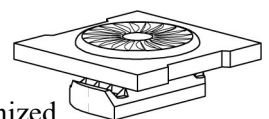


Fig. No.	Thread Size	Nut Thickness		Wt. Each	
				Lbs.	kg
3504	1/4 - 20	1/4	(6.35)	.12	(5.40)
3506	3/8 - 16	3/8	(9.53)	.14	(6.26)
3508	1/2 - 13	3/8	(9.53)	.13	(5.94)

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

STRUT NUTS & HARDWARE

STRUT NUT LOAD DATA

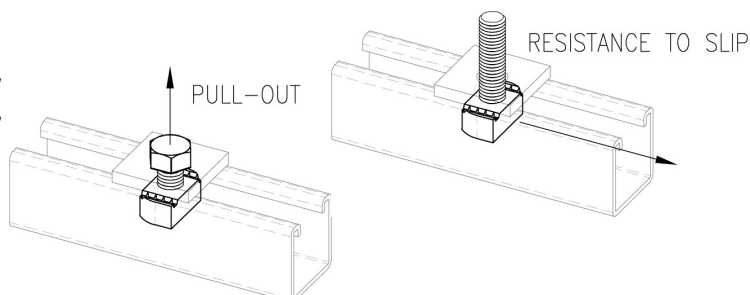
MAXIMUM ALLOWABLE PULL-OUT, SLIP LOAD AND DESIGNED TORQUE VALUES

Strut Nut		Channel Gauge	Channel Series	Allowable Pull-out		Resistance To Slip		Bolt Torque	
Thread Size	Figure Number			lbs.	kN	lbs.	kN	ft-lbs	N-m
1/4-20	3004, 3104, 3204, 3304, 3404	12	1000, 1200, 1500, 1600, 1700, 1960	450	(2.00)	300	(1.33)	6	(8)
		14	1100, 1300	450	(2.00)	300	(1.33)		
		16	1800	450	(2.00)	300	(1.33)		
5/16-18	3005, 3105, 3205, 3305	12	1000, 1200, 1500, 1600, 1700, 1960	800	(3.56)	500	(2.22)	11	(15)
		14	1100, 1300	750	(3.34)	400	(1.78)		
		16	1800	750	(3.34)	400	(1.78)		
3/8-16	3006, 3106, 3206, 3306, 3406	12	1000, 1200, 1500, 1600, 1700, 1960	1000	(4.45)	800	(3.56)	19	(26)
		14	1100, 1300	1000	(4.45)	600	(2.67)		
		16	1800	1000	(4.45)	600	(2.67)		
7/16-14	3007, 3107, 3207, 3307	12	1000, 1200, 1500, 1600, 1700, 1960	1400	(6.23)	1000	(4.45)	35	(47)
		14	1100, 1300	1200	(5.34)	800	(3.56)		
		16	1800	1000	(4.45)	800	(3.56)		
1/2-13	3408	12	1000, 1200, 1500, 1600, 1700, 1960	1000	(4.45)	800	(3.56)	50	(68)
	3208, 3351	12	1000, 1200, 1500, 1600, 1700, 1960	1500	(6.67)	1500	(6.67)		
	3008, 3108, 3308	12	1000, 1500, 1600, 1700, 1960	2000	(8.90)	1500	(6.67)		
	3008, 3108, 3208, 3308, 3351	14	1100	1400	(6.23)	1000	(4.45)		
	3208, 3351	14	1300	1400	(6.23)	1000	(4.45)		
		16	1800	1000	(4.45)	1000	(4.45)		
5/8-11	3209, 3352	12	1000, 1200, 1500, 1600, 1700, 1960	1500	(6.67)	1500	(6.67)	100	(136)
	3009, 3109, 3309	12	1000, 1500, 1600, 1700, 1960	2500	(11.12)	1500	(6.67)		
	3009, 3109, 3209, 3309, 3352	14	1100	1400	(6.23)	1000	(4.45)		
	3209, 3352	14	1300	1400	(6.23)	1000	(4.45)		
		16	1800	1000	(4.45)	1000	(4.45)		
3/4-10	3210, 3353	12	1000, 1200, 1500, 1600, 1700, 1960	1500	(6.67)	1500	(6.67)	125	(170)
	3010, 3110, 3310	12	1000, 1500, 1600, 1700, 1960	2500	(11.12)	1700	(6.67)		
	3010, 3110, 3210, 3310, 3353	14	1100	1400	(6.23)	1000	(4.45)		
	3210, 3353	14	1300	1400	(6.23)	1000	(4.45)		
		16	1800	1000	(4.45)	1000	(4.45)		
7/8-9	3011, 3111, 3311	12	1000, 1500, 1600, 1700, 1960	2500	(11.12)	1700	(6.67)	125	(170)
		14	1100	1400	(6.23)	1000	(4.45)		

Note: When used in conjunction with a Fig. 5000 series square washer.

Using stainless steel channel nuts in stainless steel channel, reduce slip loads by 50% due to hardness of material.

Using stainless steel channel nuts in aluminum channel, reduce slip loads and pull out loads by 70% due to hardness of material.



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STRUT NUTS & HARDWARE



FIG. 7600
CRADLE CLIP

Function:

Designed to stiffen 3/8" to 5/8" rod.

Material:

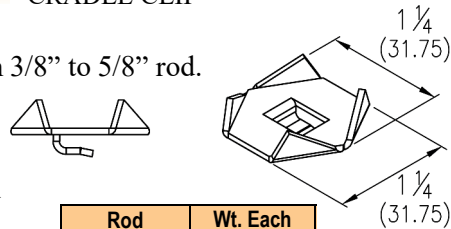
Carbon steel

Finish:

Electro-galvanized

Ordering:

Specify figure number.



Rod Size		Wt. Each	
		Lbs.	kg
3/8	(10)	.03	(.01)
1/2	(12)	.03	(.01)
5/8	(16)	.03	(.01)

FIG. 7605
ROD STIFFENER

Function:

Designed to stiffen 3/8" to 5/8" rod.

Material:

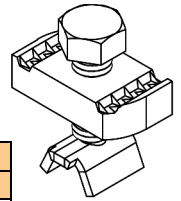
Carbon steel

Finish:

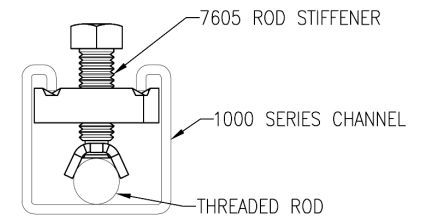
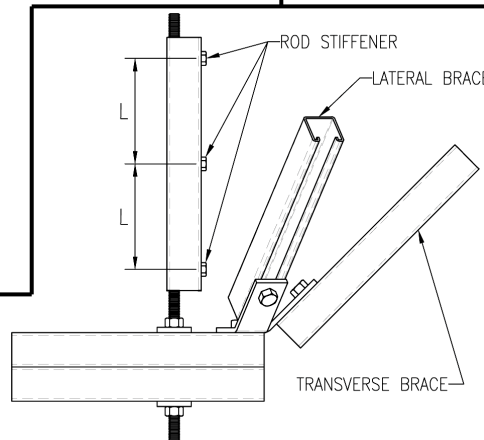
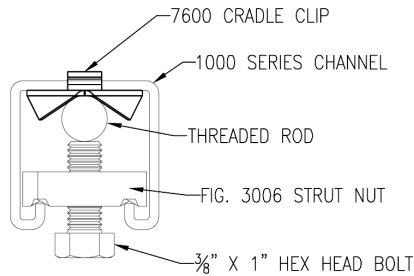
Electro-galvanized

Ordering:

Specify figure number.



Rod Size		Wt. Each	
		Lbs.	kg
3/8	(10)	.14	(.06)
1/2	(12)	.14	(.06)
5/8	(16)	.14	(.06)



Rod Size		Root Area		Radius of Gyration		Design Load		Rod Stiffener Clip Spacing (L)							
		in²	mm²			Lbs.	Kn	Rod Stress @ 100% 10,700 psi		Rod Stress @ 75% 8,025 psi		Rod Stress @ 50% 5,350 psi		Rod Stress @ 35% 3,745 psi	
3/8	(10)	0.068	(49.5)	0.074	(1.99)	730	(3.6)	9	(229)	11	(279)	13	(330)	15	(381)
1/2	(12)	0.126	(72.4)	0.10	(2.40)	1350	(5.3)	12	(305)	14	(356)	17	(432)	21	(533)
5/8	(16)	0.202	(138.3)	0.127	(3.32)	2160	(10.2)	15	(381)	18	(457)	22	(559)	26	(660)

FIG. 7610 & 7611
FEMALE SWIVEL

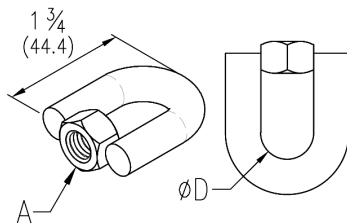


FIG. 7615 & 7616
MALE SWIVEL

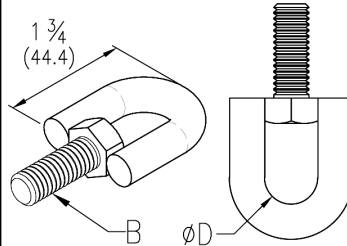


FIG. 7620 & 7621
FEMALE/FEMALE SWIVEL

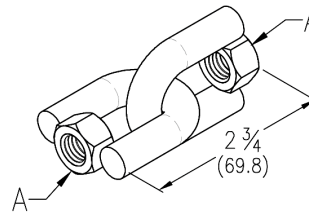
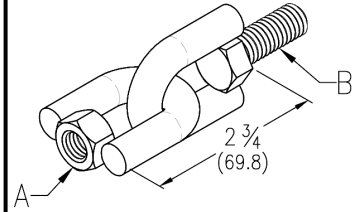


FIG. 7625 & 7626
FEMALE/MALE SWIVEL



Material:

Carbon steel

Finish:

Electro-galvanized

Ordering:

Specify figure number.

Fig. No.	A	B	D	Max. Rec. Load		Wt. Each	
				lbs.	kN	lbs.	kg
7610	3/8-16	-	9/32 (7.14)	610	(2.71)	.13	(.06)
7611	1/2-13	-	3/8 (9.53)	1130	(5.03)	.15	(.07)
7615	-	3/8-16 X 1	9/32 (7.14)	610	(2.71)	.16	(.07)
7616	-	1/2-13 X 1	3/8 (9.53)	1130	(5.03)	.20	(.09)
7620	3/8-16	-	-	610	(2.71)	.26	(.12)
7621	1/2-13	-	-	1130	(5.03)	.28	(.13)
7625	3/8-16	3/8-16 X 1	-	610	(2.71)	.26	(.12)
7626	1/2-13	1/2-13 X 1	-	1130	(5.03)	.28	(.13)

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

CHANNEL

PIPE & CONDUIT
SUPPORTS

STRUT NUTS
& HARDWARE

CONCRETE
INSERTS

END CAPS &
CLOSURES

FLAT PLATE
FITTINGS

90° ANGLE
FITTINGS

ANGLE
FITTINGS

"U"
FITTINGS

"Z"
FITTINGS

WING
FITTINGS

SPECIALTY
FITTINGS

TROLLEY
ASSEMBLIES

POST
BASES

BRACKETS &
BRACE FITTINGS

BEAM
CLAMPS

ROOFTOP
SUPPORTS