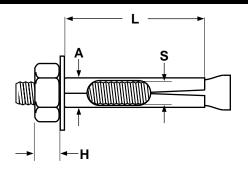
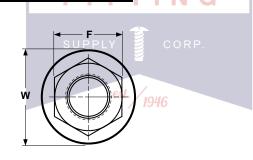
## Hex Nut & Washer style

## Sleeve Anchor







SLEEVE ANCHORS, HEX HEAD  FF-S-325, Group II, Type 3, Class 3											
A x L	Ξ	7	W		Fixture Clearance Hole	Minimum Embedment	S	Required Torque to Set (Ft. Lbs.)		Tensile Strength (psi.)	Shear
Anchor Diam x Length	Nut Height	Head Width	Washer O.D.	Drill Diameter			Thread Size of Stud				Strength (psi.)
	Ref	Ref	Ref					Carbon Steel	Stainless Steel	4000 psi. Strei	
5/16 x 1 1/2	7/32	7/16	5/8	5/16	3/8	1 3/8	1/4-20	8	-	ı	-
5/16 x 2 1/2						1 1/2				1750	2015
3/8 x 1 7/8 3/8 x 3 3/8 x 4	17/64 946	1/2	13/16	3/8	7/16	1 5/8	5/16-18	16	11	2700	3250
1/2 x 2 1/4						2 1/8				•	-
1/2 x 3 1/2 x 4 1/2 x 6	21/64	9/16	1	1/2	9/16	2 1/4	3/8-16	28	20	5015	6372
5/8 x 2 1/4		3/4	1 3/8	5/8	11/16	2 1/8	1/2-13	60	F <sup>42</sup>	Jet	-
5/8 x 3	7/16					2 3/4					
5/8 x 4 1/4	7/10									6345	10,255
5/8 x 6											
3/4 x 2 1/2	35/64	15/16	1 3/4	3/4	15/16	2 1/8	5/8-11	90	60	-	-
3/4 x 4 3/4 x 5 3/4						3 3/8				9135	12,800

Description	A device for giving stability to one part of a structure by making it fast to another consisting of (A) a threaded stud with a conical end flared outward; (B) a hollow, cylindrical dilating sleeve assembled over the stud and positioned against the minor diameter of the cone; (C) a washer and hex nut assembled at the end opposite the cone.						
Applications/ Advantages	The anchor works by expanding against the material in which it is embedded. When the hex nut is tightened the conical end is pulled into the dilating sleeve pushing it outward 360° around the anchor into the masonry. They are designed to be used in solid or hollow masonry, including cinder block, brick, marble and concrete. One advantage of the sleeve anchor is that it can be removed after it's been installed. Another is that the length of the sleeve induces less stress on the substrate than does a wedge anchor. It is well-suited for permanently anchoring heavy equipment to concrete.						
	Steel	Stainless					
Material	Threaded Bolt: AISI 1010 - 1018 cold rolled steel Sleeve: AISI 1008 cold rolled steel Nut: Shall be made from a low carbon steel which conforms to the following chemical composition requirements: Carbon- 0.58% maximum; Phosphorus- 0.13% maximum; Sulfur- 0.23% maximum Washer: AISI 1008 - 1010 cold rolled steel	Threaded Bolt: 18-8 stainless steel Sleeve: Type 304 stainless steel Nut: Type 304 stainless steel Washer: 18-8 stainless steel					
Anchor Spacing	Anchors should be installed with a minimum of 10 anchor diameters between each other and a minimum of 5 diameters from the edge.						
Tensile Strength	The suggested safe working load is one-fourth of the average proof test load shown in the above table.						
Shear Strength	The suggested safe working load is one-fourth of the average proof test load shown in the above table.						
Plating	Steel sleeve anchors are usually supplied plated zinc.	Stainless sleeve anchors usually have no additional finish applied.					