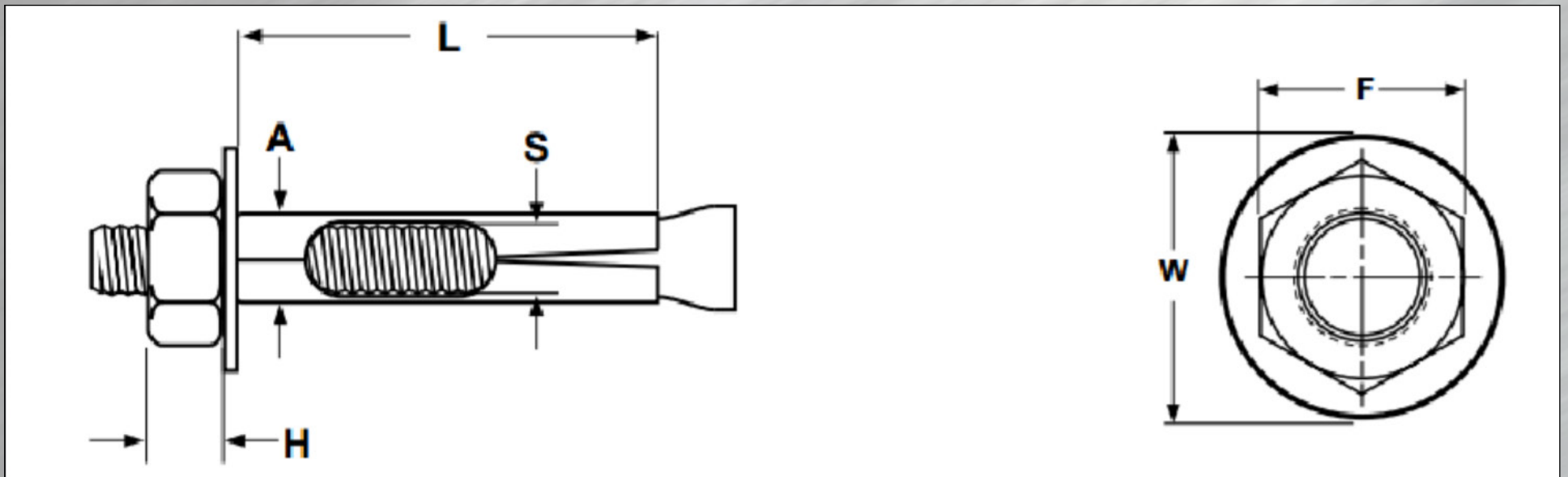




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HEX NUT & WASHER STYLE SLEEVE ANCHORS





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A x L Anchor Diameter x Length	H Nut Height Ref.	F Head Width Ref.	W Washer O.D. Ref.	Drill Diameter	Fixture Clearance Hole	Minimal Embedment	S Thread Size of Stud	Required Torque to Set (Ft. Lbs.)		Tensile Strength (PSI)	Shear Strength (PSI)
								Carbon Steel	Stainless Steel	4000 PSI Concrete Strength	
5/16 x 1-1/2	7/32	7/16	5/8	5/16	3/8	1-3/8	1/4-20	8	-	-	-
5/16 x 2-1/2						1-1/2				1750	2015
3/8 x 1-7/8	17/64	1/2	13/16	3/8	7/16	1-5/8	5/16-18	16	11	24700	3250
3/8 x 3											
3/8 x 4											
1/2 x 2-1/4	21/64	9/16	1	1/2	9/16	2-1/8	3/8-16	28	20	-	-
1/2 x 3						2-1/4				5015	6372
1/2 x 4											
1/2 x 6											
5/8 x 2-1/4	7/16	3/4	1-3/8	5/8	11/16	2-1/8	1/2-13	60	42	-	-
5/8 x 3						2-3/4				6345	10255
5/8 x 4-1/4											
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						3-3/8				9135	12800
3/4 x 5-3/4											



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DESCRIPTION: A device for giving stability to one part of a structure by making it fast to another consisting of (A) a thread stud with a conical end flared outward; (B) a hollow, cylindrical dilating sleeve assembled over the stud.

APPLICATION / 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 includes less stress on the substrate than does a wedge anchor. It is well-suited for permanently anchoring heavy equipment to concrete.

MATERIAL:

STEEL		STAINLESS STEEL	
Threaded Bolt:	AISI 1010 - 1018 cold rolled steel	Threaded Bolt:	18-8 stainless steel
Sleeve:	AISI 1008 cold rolled steel	Sleeve:	Type 304 stainless steel
Nut:	Shall be made from a low carbon steel which conforms to the following chemical composition requirements: <i>Carbon -0.58% maximum, Phosphorus -0.13% maximum, Sulfur -0.23% maximum</i>	Nut:	Type 304 stainless steel
Washer:	AISI 1008 - 1010 cold rolled 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 suggest safe working load is one-fourth of the average proof test load shown in the table above.

SHEAR STRENGTH: The suggested safe working load is one-fourth of the average proof test load shown in the table above.

PLATING: Steel sleeve anchors are usually supplied plated zinc. Stainless sleeve anchors usually have no additional finish applied.