



National Aerospace Fasteners Corp.

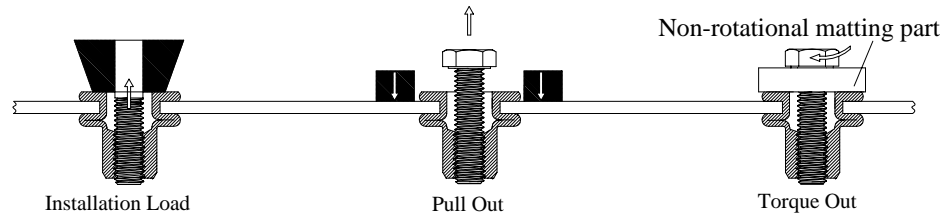


NS *SERIES*

SLOTTED BODY FLAT HEAD

STRAIGHT SHANK & PRE BULBED

TEST METHOD



Engineering Data

Unified Thread

Thread Size	Installation (LBS)		Pull Out * (LBS)	Torque Out ** (Lb-In)
	Min grip	Max grip		
#10-32 UNF	290	460	2,200	115
1/4-20 UNC	592	985	3,240	252
5/16-18 UNC	1,425	2,375	5,220	465

Metric Thread

Thread Size	Installation (KN)		Pull Out * (KN)	Torque Out ** (N-m)
	Min grip	Max grip		
M5X0.8	11.4	18.1	9.80	13.0
M6X1.0	22.9	38.8	14.40	28.5
M8X1.25	56.1	93.5	23.20	52.5

* **Pull Out** is the force required to pull the NAFCO product from the parent material.

** **Torque Out** is the maximum recommended torque to be applied to the bolt (class 8.8/9.8), which will not cause thread distortion in the insert.

*** These values are averages only- certain variations must be expected in actual application. NAFCO recommends that these values be used only as a guide.

Fastener Specifications

Material: Steel 1008,1010, or Equiv. Per SAE J403f

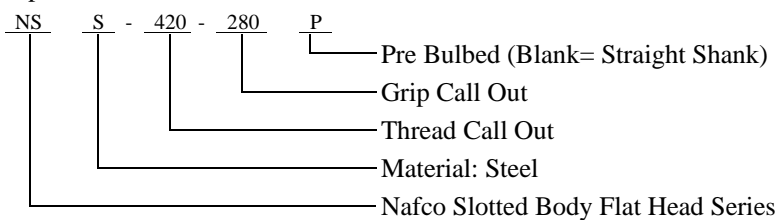
Finish: Zinc Plated, Yellow Chromate

Per ASTM B633 Fe/Zn 8, Type

(Special Material and Plating also Available on Request)

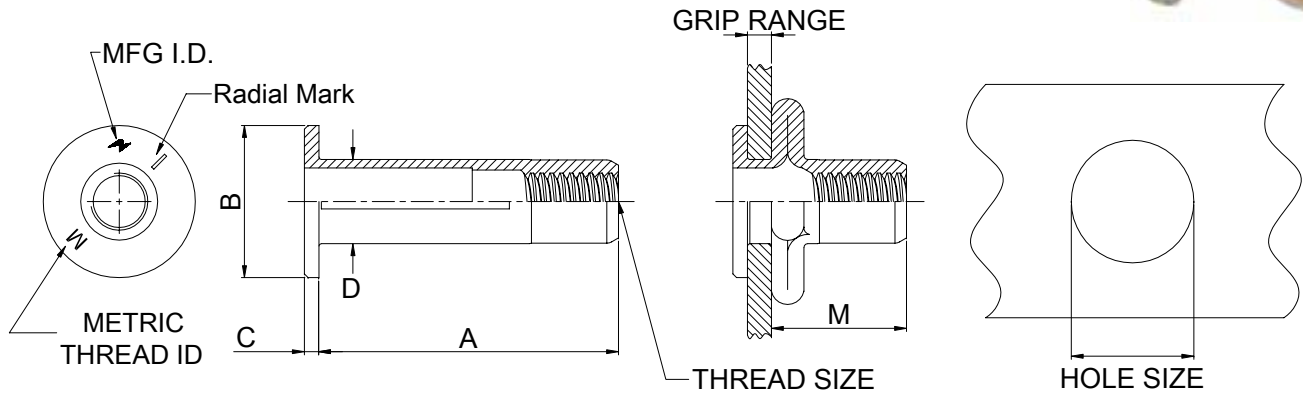
Part Number Explanation

Example: NSS-420-280P



QS9000

ISO9001 TEL: 886-3-4508868 FAX: 886-3-4604183 <http://www.nafco.com.tw> e-mail: sales@ms1.nafco.com.tw



UNIFIED THREAD

Unit: Inch

THREAD SIZE	PART NUMBER	Radial Mark	GRIP RANGE		A ± .015	B		C ± .005	D Max.	M Ref.	HOLE SIZE +.005/- .000
			Min.	Max.		Min.	Max.				
#10 -32 UNF	NSS-1032-175	Blank	.020	.175	.828	.490	.510	.038	.272	.425	.273
#10 -32 UNF	NSS-1032-320	1 Rad.	.175	.320	.921	.490	.510	.038	.272	.425	.273
1/4 -20 UNC	NSS-420-280	Blank	.020	.280	1.000	.610	.645	.059	.346	.505	.347
1/4 -20 UNC	NSS-420-500	1 Rad.	.280	.500	1.234	.610	.645	.059	.346	.505	.347
5/16-18 UNC	NSS-518-280	Blank	.020	.280	1.141	.740	.770	.062	.437	.570	.438
5/16-18 UNC	NSS-518-500	1 Rad.	.280	.500	1.375	.740	.770	.062	.437	.570	.438

METRIC THREAD

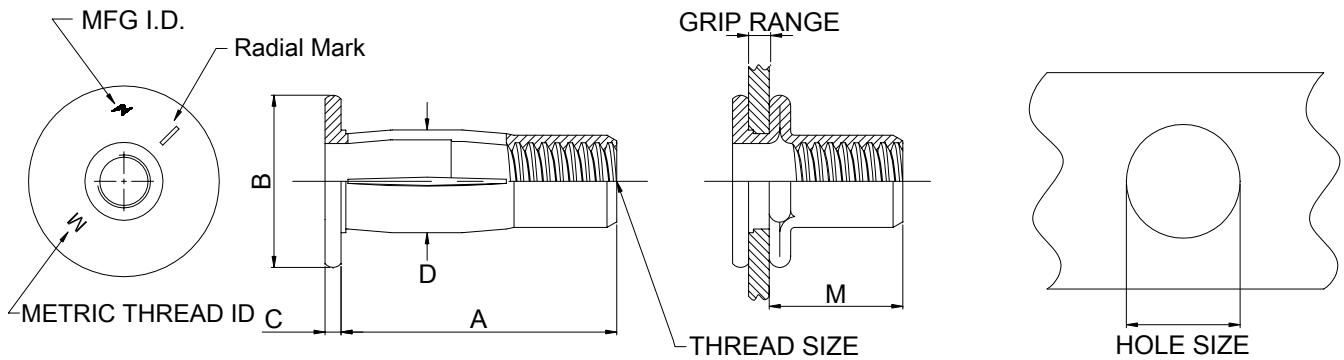
Unit: mm

THREAD SIZE	PART NUMBER	Radial Mark	GRIP RANGE		A ± 0.38	B		C ± 0.13	D Max.	M Ref.	HOLE SIZE +0.12/-0.00
			Min.	Max.		Min.	Max.				
M5X0.8	NSS-580-4.45	Blank	0.50	4.45	21.03	12.45	12.95	0.96	7.47	9.90	7.48
M5X0.8	NSS-580-8.1	1 Rad.	4.45	8.10	23.80	12.45	12.95	0.96	7.47	9.90	7.48
M6X1.0	NSS-610-7.1	Blank	0.50	7.10	25.40	15.50	16.38	1.50	8.79	12.80	8.80
M6X1.0	NSS-610-12.7	1 Rad.	7.10	12.70	31.32	15.50	16.38	1.50	8.79	12.80	8.80
M8X1.25	NSS-8125-7.1	Blank	0.50	7.10	28.95	18.80	19.56	1.57	11.10	14.47	11.11
M8X1.25	NSS-8125-12.7	1 Rad.	7.10	12.70	34.90	18.80	19.56	1.57	11.10	14.47	11.11

*Actual grip range can be affected by parent material and hole size, contact NAFCO for details.

**Other sizes, threads and grip ranges are available on request.





UNIFIED THREAD

Unit: Inch

THREAD SIZE	PART NUMBER	Radial Mark	GRIP RANGE		A ± .015	B		C ± 005	D MAX.	M Ref.	HOLE SIZE +.006/- .000
			Min.	Max.		Min.	Max.				
#10 -32 UNF	NSS-1032-175P	Blank	.020	.175	.828	.490	.510	.038	.329	.410	.336
#10 -32 UNF	NSS-1032-320P	1 Rad.	.175	.320	.921	.490	.510	.038	.329	.410	.336
1/4 -20 UNC	NSS-420-280P	Blank	.020	.280	1.000	.610	.645	.059	.384	.505	.393
1/4 -20 UNC	NSS-420-500P	1 Rad.	.280	.500	1.234	.610	.645	.059	.384	.505	.393
5/16-18 UNC	NSS-518-280P	Blank	.020	.280	1.141	.740	.770	.062	.492	.570	.500
5/16-18 UNC	NSS-518-500P	1 Rad.	.280	.500	1.375	.740	.770	.062	.492	.570	.500

METRIC THREAD

Unit: mm

THREAD SIZE	PART NUMBER	Radial Mark	GRIP RANGE		A ± 0.38	B		C ± 0.13	D Max.	M Ref.	HOLE SIZE +0.15/-0.00
			Min.	Max.		Min.	Max.				
M5X0.8	NSS-580-4.45P	Blank	0.50	4.45	21.03	12.45	12.95	0.96	8.35	10.00	8.55
M5X0.8	NSS-580-8.1P	1 Rad.	4.45	8.10	23.80	12.45	12.95	0.96	8.35	10.00	8.55
M6X1.0	NSS-610-7.1P	Blank	0.50	7.10	25.40	15.50	16.38	1.50	9.70	12.80	10.00
M6X1.0	NSS-610-12.7P	1 Rad.	7.10	12.70	31.32	15.50	16.38	1.50	9.70	12.80	10.00
M8X1.25	NSS-8125-7.1P	Blank	0.50	7.10	28.95	18.80	19.56	1.57	12.57	14.48	12.70
M8X1.25	NSS-8125-12.7P	1 Rad.	7.10	12.70	34.90	18.80	19.56	1.57	12.57	14.48	12.70

*Actual grip range can be affected by parent material and hole size, contact NAFCO for details.

**Other sizes, threads and grip ranges are available on request.