



Vol 7

Ideal for Aerospace Fastener Applications

HY-PRO[®] AERO-F

Inch & Metric Plug (4P-5P)





HSS-Co



List 11015

Plug (4P-5P)



Tap Size	Thread Limit	No. of Flutes	EDP Number	Overall Length	Thread Length	Neck Length	Shank Dia.	Square Width	Square Length
			Plug (4P-5P)						
			TIN	L	Lc	Ln	d	k	lk
4 - 40 UNC	H3	3	1101500105	1.87	0.381	0.692	0.140	0.109	0.188
	H4		1101505605						
	H5		1101500205						
	H6		1101500305						
	H7		1101505705						
	H8		1101515505						
4 - 48 UNF	H3		1101515605						
	H4		1101515705						
	H5		1101515805						
	H6		1101515905						
	H7		1101506505						
	H8		1101506605						
6 - 32 UNC	H3		1101500405	2.00	0.433	0.811	0.140	0.109	0.188
	H4		1101505805						
	H5		1101500505						
	H6		1101500605						
	H7		1101500705						
	H8		1101500805						
	H9		1101506705						
	H10		1101506805						
6 - 40 UNF	H3		1101507005						
	H4		1101507105						
	H5	1101507205							
	H6	1101507305							
	H7	1101507405							
	H8	1101507505							
	H9	1101507605							
	H10	1101507705							
8 - 32 UNC	H3	1101500905	2.12	0.437	0.877	0.167	0.131	0.251	
	H4	1101501005							
	H5	1101501105							
	H6	1101501205							
	H7	1101501305							
	H8	1101501405							
	H9	1101507905							
	H10	1101508005							
8 - 36 UNF	H3	1101508205							
	H4	1101508305							
	H5	1101508405							
	H6	1101508505							
	H7	1101508605							
	H8	1101508705							
	H9	1101508805							
	H10	1101508905							
10 - 24 UNC	H3	1101509005	2.37	0.629	1.000	0.194	0.151	0.251	
	H4	1101509105							
	H5	1101509205							
	H6	1101509305							
	H7	1101509405							
	H8	1101509505							
	H9	1101509605							
	H10	1101509705							
H11	1101509805								
			1101509905						

Packed: 1 pc.
Available TiN coating only.



List 11015



HSS-Co TiN

Plug (4P-5P)

Tap Size	Thread Limit	No. of Flutes	EDP Number		Overall Length	Thread Length	Neck Length	Shank Dia.	Square Width	Square Length							
			Plug (4P - 5P)														
			TiN														
			L	Lc	Ln	d	k	lk									
10 - 32 UNF	H3	3	1101501505	2.37	0.507	1.000	0.194	0.151	0.251								
	H4		1101501605														
	H5		1101501705														
	H6		1101501805														
	H7		1101501905														
	H8		1101502005														
	H9		1101502105														
	H10		1101506005														
	H11		1101506105														
	H12		1101506205														
	H13		1101516005														
	12 - 28 UNC		H3							3	1101516105	2.50	0.543	1.066	0.220	0.164	0.279
			H4								1101516205						
H5		1101516305															
H6		1101516405															
H7		1101516505															
H8		1101516605															
H9		1101516705															
H10		1101516805															
H11		1101516905															
1/4 - 20 UNC		H3	3	1101510005	2.50	0.751	1.122	0.255	0.190		0.311						
		H4		1101510105													
	H5	1101510205															
	H6	1101510305															
	H7	1101510405															
	H8	1101510505															
	H9	1101510605															
	H10	1101510705															
	H11	1101510805															
	1/4 - 28 UNF	H3		3						1101502205		2.72	0.562	1.114	0.255	0.190	0.311
		H4								1101505505							
H5		1101502305															
H6		1101502405															
H7		1101502505															
H8		1101502605															
H9		1101502705															
H10		1101502805															
H11		1101506305															
H12		1101506405															
5/16 - 18 UNC		H3	3		1101510905	2.72	0.874	1.283	0.317	0.238	0.374						
		H4			1101511005												
	H5	1101511105															
	H6	1101511205															
	H7	1101511305															
	H8	1101511405															
	H9	1101511505															
	H10	1101511605															
	H11	1101511705															

Packed: 1 pc.
Available TiN coating only.

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Work Material																	
List No.	P					M			K	N		S		H			
	Carbon Steels			Alloy Steels 4140 4340	Die Steels	Stainless Steels			Cast Iron	Aluminum		Nickel Alloy Inconel	Titanium 6Al4V (30 HRC)	Hardened Steels			
	Low 1010 1018	Med. 1035 1045	High 1065			300	400	17-4 PH		6061 7075	Casting			~35 HRC	35-45 HRC	45-50 HRC	50-70 HRC
11015	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
SFM	25-80	20-50	20-45	20-50	15-30	20-45	20-45	15-20	25-75	40-80	40-65	8-15	8-15	15-35			

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TiN

List 11015

Plug (4P-5P)



Tap Size	Thread Limit	No. of Flutes	EDP Number	Overall Length	Thread Length	Neck Length	Shank Dia.	Square Width	Square Length								
			Plug (4P - 5P)														
			TiN	L	Lc	Ln	d	k	lk								
5/16 - 24 UNF	H3	3	1101502905	2.72	0.688	1.244	0.317	0.238	0.374								
	H4		1101505905														
	H5		1101503005														
	H6		1101503105														
	H7		1101503205														
	H8		1101503305														
	H9		1101503405														
	H10		1101503505														
	H11		1101511805														
	3/8 - 16 UNC		H3							3	1101511905	2.93	0.976	1.417	0.380	0.285	0.437
			H4								1101512005						
H5		1101512105															
H6		1101512205															
H7		1101512305															
H8		1101512405															
H9		1101512505															
H10		1101512605															
H11		1101512705															
H12		1101512805															
3/8 - 24 UNF		H3	3	1101503605	2.93	0.830	1.405	0.380	0.285		0.437						
		H4		1101512905													
	H5	1101503705															
	H6	1101503805															
	H7	1101503905															
	H8	1101504005															
	H9	1101504105															
	H10	1101504205															
	H11	1101513005															
	7/16 - 14 UNC	H3		3						1101513105		3.15	1.098	1.496	0.322	0.242	0.405
		H4								1101513205							
H5		1101513305															
H6		1101513405															
H7		1101513505															
H8		1101513605															
H9		1101513705															
H10		1101513805															
H11		1101513905															
7/16 - 20 UNF		H3	3		1101504305	3.15	0.799	1.417	0.322	0.242	0.405						
		H4			1101514005												
	H5	1101504405															
	H6	1101504505															
	H7	1101504605															
	H8	1101504705															
	H9	1101504805															
	H10	1101514105															
	H11	1101514205															
	1/2 - 13 UNC	H3		3	1101514305							3.37	1.196	1.590	0.367	0.274	0.437
		H4			1101514405												
H5		1101514505															
H6		1101514605															
H7		1101514705															
H8		1101514805															
H9		1101514905															
H10		1101515005															
H11		1101515105															

Packed: 1 pc.
Available TiN coating only.



List 11015

Plug (4P-5P)



HSS-Co

TiN

Tap Size	Thread Limit	No. of Flutes	EDP Number	Overall Length	Thread Length	Neck Length	Shank Dia.	Square Width	Square Length
			Plug (4P-5P)						
			TiN						
			L	Lc	Ln	d	k	lk	
1/2 - 20 UNF	H3	3	1101504905	3.37	0.799	1.480	0.367	0.274	0.437
	H4		1101515205						
	H5		1101505005						
	H6		1101505105						
	H7		1101505205						
	H8		1101505305						
	H9		1101505405						
	H10		1101515305						
	H11		1101515405						
	H3		1101517005						
	H5		1101517105						
9/16 - 18 UNF	H6	3	1101517205	3.59	0.862	1.307	0.429	0.322	0.500
	H7		1101517305						
	H8		1101517405						
	H9		1101517505						
	H3		1101517605						
5/8 - 11 UNC	H5	3	1101517705	3.81	0.862	1.307	0.480	0.359	0.562
	H3		1101517805						
5/8 - 18 UNF	H5	4	1101517905	4.25	0.968	1.448	0.590	0.442	0.685
	H6		1101518005						
	H7		1101518105						
	H8		1101518205						
	H9		1101518305						
	H10		1101518405						
	H11		1101518505						
3/4 - 10 UNC	H3	4	1101518605	4.68	1.106	1.622	0.697	0.522	0.751
	H5		1101518705						
	H3		1101518805						
3/4 - 16 UNF	H5	5	1101518905	5.12	1.291	1.842	0.800	0.600	0.811
	H6		1101519005						
	H7		1101519105						
	H8		1101519205						
	H9		1101519305						
	H10		1101519405						
	H11		1101519505						
	H6		1101519605						
H7	1101519705								
7/8 - 14 UNF	H8	5	1101519805	5.12	1.291	1.842	0.800	0.600	0.811
	H9		1101519905						
	H10		1101520005						
	H11		1101520105						
	H12		1101520205						
	H6		1101520305						
	H7		1101520405						
1 - 12 UNF	H8	5	1101520505	5.12	1.291	1.842	0.800	0.600	0.811
	H9		1101520605						
	H10		1101520705						
	H11		1101520805						
	H12		1101520905						
	H6		1101521005						
	H7		1101521105						

Packed: 1 pc.
Available TiN coating only.



Work Material																			
List No.	P					M			K	N		S		H					
	Carbon Steels			Alloy Steels	Die Steels	Stainless Steels			Cast Iron	Aluminum		Nickel Alloy	Titanium	Hardened Steels					
	Low	Med.	High			300	400	17-4 PH		6061	Casting			Inconel	6Al4V (30 HRC)	~35 HRC	35-45 HRC	45-50 HRC	50-70 HRC
11015	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SFM	25-80	20-50	20-45	20-50	15-30	20-45	20-45	15-20	25-75	40-80	40-65	8-15	8-15	15-35					

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List 11115

Plug (4P-5P)



Tap Size	Thread Limit	No. of Flutes	EDP Number	Overall Length	Thread Length	Neck Length	Shank Dia.	Square Width	Square Length
			Plug (4P - 5P)						
			TiN						
				L	Lc	Ln	d	k	lk
M3 x 0.5	H3	3	1111500105	49	9	19.2	3.58	2.79	4.8
	H5		1111500205						
	H4		1111500905						
	H6		1111501005						
	H7		1111501105						
	H8		1111501205						
	H9		1111501305						
	H10		1111501405						
	H11		1111501505						
	H4		1111500305						
M4 x 0.7	H5		1111500405	54	11	20.6	4.26	3.33	6.4
	H6		1111501605						
	H7		1111501705						
	H8		1111501805						
	H9		1111501905						
	H10		1111502005						
	H11		1111502105						
M5 x 0.8	H4		1111500505	60	12	25.4	4.92	3.86	
	H5		1111500605						
	H6		1111502205						
	H7		1111502305						
	H8		1111502405						
	H9		1111502505						
	H10		1111502605						
	H11		1111502705						
M6 x 1.0	H5		1111500705	63	14	28.6	6.47	4.85	7.3
	H6		1111502805						
	H7		1111502905						
	H8		1111503005						
	H9		1111503105						
	H10	1111503205							
	H11	1111503305							
H12	1111503405								
M8 x 1.25	H5	1111500805	69	17	31.9	8.07	6.05	8.7	
	H6	1111503505							
	H7	1111503605							
	H8	1111503705							
	H9	1111503805							
	H10	1111503905							
	H11	1111504005							
H12	1111504105								
M8 x 1.0	H5	1111507005	69	15	29.5	8.07	6.05	8.7	
	H6	1111507105							
	H7	1111507205							
	H8	1111507305							
	H9	1111507405							
	H10	1111507505							
	H11	1111507605							

Packed: 1 pc.
 Available TiN coating only.
 Note: List 11115 metric taps are manufactured to H-limits rather than D-limits.



List 11115 (Continued)



Plug (4P-5P)

Tap Size	Thread Limit	No. of Flutes	EDP Number	Overall Length	Thread Length	Neck Length	Shank Dia.	Square Width	Square Length					
			Plug (4P - 5P)											
			TiN											
			L	Lc	Ln	d	k	lk						
M10 x 1.5	H5	3	1111504905	74	22	35.0	9.67	7.26	10.1					
	H6		1111505005											
	H7		1111505105											
	H8		1111505205											
	H9		1111505305											
	H10		1111505405											
	H11		1111505505											
H12	1111505605													
M10 x 1.25	H5				1111504205	19				34.8				
	H6		1111504305											
	H7		1111504405											
	H8	1111504505												
	H9	1111504605												
	H10	1111504705												
M12 x 1.75	H6		1111507705	26	37.3									
	H7	1111507805												
	H8	1111507905												
	H9	1111508005												
	H10	1111508105												
	H11	1111508205												
M12 x 1.5	H6		1111506405	85	22	35.0	9.32	6.98	11.1					
	H7	1111506505												
	H8	1111506605												
	H9	1111506705												
	H10	1111506805												
	H11	1111506905												
M12 x 1.25	H5		1111505705	19	35.0									
	H6	1111505805												
	H7	1111505905												
	H8	1111506005												
	H9	1111506105												
	H10	1111506205												
M14 x 1.5	H6	4	1111508305	91	22	34.5	10.89	8.18	12.7					
	H7		1111508405											
	H8		1111508505											
	H9		1111508605											
	H10		1111508705											
	H11		1111508805											

Packed: 1 pc.
 Available TiN coating only.
 Note: List 11115 metric taps are manufactured to H-limits rather than D-limits.



Work Material																		
List No.	P					M			K	N		S		H				
	Carbon Steels			Alloy Steels	Die Steels	Stainless Steels			Cast Iron	Aluminum		Nickel Alloy	Titanium	Hardened Steels				
	Low	Med.	High			300	400	17-4 PH		6061 7075	Casting			Inconel	6Al4V (30 HRC)	~35 HRC	35-45 HRC	45-50 HRC
11115	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SFM	25-80	20-50	20-45	20-50	15-30	20-45	20-45	15-20	25-75	40-80	40-65	8-15	8-15	15-35				

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shaping your dreams

 **Safe use of cutting tools**

- Use safety cover, safety glasses and safety shoes during operation.
- Do not touch cutting edges with bare hands.
- Do not touch cutting chips with bare hands. Chips will be hot after cutting.
- Stop cutting when the tool becomes dull.
- Stop cutting operation immediately if you hear any abnormal cutting sounds.
- Do not modify tools.
- Please use appropriate tools for the operation. Check dimensions to ensure proper selection.

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(National Headquarters)

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