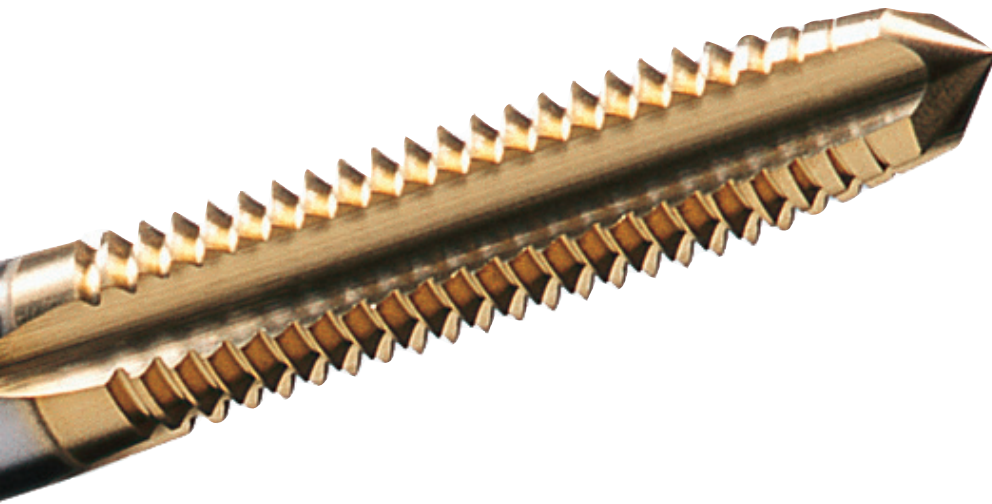




# FAST TAP



**Common Special Taps and  
Special Taps from Blanks**



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## Guidelines to Order Taps

1. Tap Style and required quantity.
2. Size and Pitch (nominal diameter and threads per inch or metric pitch).
3. Number of flutes.
4. If Spiral Flute, state right or left hand and helix angle.
5. Chamfer (Taper, Plug, or Bottoming).
6. Right or Left hand Thread (right is default).
7. Additional features or options (surface treatments).

## Delivery Matrix

Quantities listed are *maximum* pieces for working days listed. Common special taps and special taps from blanks.

Surface Treatments	(added to lead times below)
Steam Oxide . . . . .	2 days
Steam Oxide over Nitride . . . . .	2 days
TiN . . . . .	5 days
TiCN . . . . .	7 days

	24 Hrs	2 Days	3 Days	4 Days	5 Days	6 Days
<b>60 Degree Thread Forms</b>						
Smaller Than #4	12	24	48			
#4 thru 1/4"	24	48				
5/16" thru 1/2"	24	48				
9/16" thru 1"	12	24	48			
** 1-1/16 thru 1-1/2"	6	12	24			
1-9/16 thru 3"	3	6				
Over 3"	1	3				
<b>Pipe Taps</b>						
1/16" thru 3/8"	6	24	48			
1/2" thru 1"	3	12	24			
1-1/4" thru 2"	2	6	12			
Over 2"	Delivery is 12 to 15 Working Days					
<b>Form Taps</b>						
0 thru 3/8"	12	24	48			
7/16" thru 3/4"	12	24		48		
13/16" thru 1"		12	24			
<b>ACME/Buttress</b>						
1/4" thru 1-1/2"					12	24
<b>Tandem ACMES</b>						
3/8" thru 2"					12	

\*\* Spiral Point add 1 day.



# Fast Tap



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Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>#00-90 UNS</b>										
Spiral Point Tap										
	HSS	0	Plug	H1	RH	1191111100	1191111101	1191111102	1191111105	1191111106
<b>#00-96 UNS</b>										
Spiral Point Tap										
	HSS	0	Plug	H1	RH	1191111200	1191111201	1191111202	1191111205	1191111206
<b>#0-80 UNF</b>										
Spiral Point Tap										
	HSS	0	Plug	H3	RH	1191111300	1191111301	1191111302	1191111305	1191111306
	HSS	0	Plug	H1	LH	1191111400	1191111401	1191111402	1191111405	1191111406
	HSS	2	Plug	H1	LH	1191279700	1191279701	1191279702	1191279705	1191279706
Straight Flute Hand Tap										
	HSS	2	Plug	H1	LH	1191279500	1191279501	1191279502	1191279505	1191279506
	HSS	2	Bottoming	H1	LH	1191279600	1191279601	1191279602	1191279605	1191279606
	Carbide	2	Plug	H2	RH	1191371800	NA	NA	1191371805	1191371806
	Carbide	2	Bottoming	H2	RH	1191371900	NA	NA	1191371905	1191371906
Thread Forming Tap										
	HSS	2 LOBE	Bottoming	H2	RH	1191284700	1191284701	1191284702	1191284705	1191284706
	HSS	2 LOBE	Bottoming	H3	RH	1191284800	1191284801	1191284802	1191284805	1191284806
<b>#1-56 UNS</b>										
Spiral Point Tap										
	HSS	0	Plug	H1	RH	1191111500	1191111501	1191111502	1191111505	1191111506
<b>#1-64 UNC</b>										
Thread Forming Tap										
	HSS	2 LOBE	Bottoming	H2	RH	1191284900	1191284901	1191284902	1191284905	1191284906
	HSS	2 LOBE	Bottoming	H3	RH	1191285000	1191285001	1191285002	1191285005	1191285006
<b>#1-72 UNF</b>										
Thread Forming Tap										
	HSS	2 LOBE	Bottoming	H2	RH	1191285100	1191285101	1191285102	1191285105	1191285106
	HSS	2 LOBE	Bottoming	H3	RH	1191285200	1191285201	1191285202	1191285205	1191285206
<b>#2-56 UNC</b>										
Spiral Point Tap										
	HSS	2	Plug	H3	RH	1191264300	1191264301	1191264302	1191264305	1191264306
	HSS	2	Plug	H4	RH	1191264400	1191264401	1191264402	1191264405	1191264406
	HSS	2	Plug	H5	RH	1191260100	1191260101	1191260102	1191260105	1191260106
	HSS	2	Plug	H7	RH	1191261600	1191261601	1191261602	1191261605	1191261606
	HSS	2	Plug	H2	LH	1191111600	1191111601	1191111602	1191111605	1191111606
	Carbide	2	Plug	H2	RH	1191371700	NA	NA	1191371705	1191371706
Straight Flute Hand Tap										
	HSS	2	Taper	H4	RH	1191266200	1191266201	1191266202	1191266205	1191266206
	HSS	2	Plug	H4	RH	1191266300	1191266301	1191266302	1191266305	1191266306
	HSS	2	Bottoming	H4	RH	1191266400	1191266401	1191266402	1191266405	1191266406
	HSS	2	Taper	H2	LH	1191111700	1191111701	1191111702	1191111705	1191111706
	HSS	2	Plug	H2	LH	1191111800	1191111801	1191111802	1191111805	1191111806
	HSS	2	Bottoming	H2	LH	1191111900	1191111901	1191111902	1191111905	1191111906
	Carbide	2	Plug	H2	RH	1191371500	NA	NA	1191371505	1191371506
	Carbide	2	Bottoming	H2	RH	1191371600	NA	NA	1191371605	1191371606
Thread Forming Tap										
	HSS	2 LOBE	Bottoming	H2	RH	1191285300	1191285301	1191285302	1191285305	1191285306
	HSS	2 LOBE	Bottoming	H3	RH	1191285400	1191285401	1191285402	1191285405	1191285406

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>#2-64 UNF</b>										
Thread Forming Tap										
	HSS	2 LOBE	Bottoming	H2	RH	1191285500	1191285501	1191285502	1191285505	1191285506
	HSS	2 LOBE	Bottoming	H3	RH	1191285600	1191285601	1191285602	1191285605	1191285606
<b>#3-48 UNC</b>										
Spiral Point Tap										
	HSS	2	Plug	H2	LH	1191112000	1191112001	1191112002	1191112005	1191112006
Straight Flute Hand Tap										
	HSS	2	Taper	H2	LH	1191112100	1191112101	1191112102	1191112105	1191112106
	HSS	2	Plug	H2	LH	1191112200	1191112201	1191112202	1191112205	1191112206
	HSS	2	Bottoming	H2	LH	1191112300	1191112301	1191112302	1191112305	1191112306
Thread Forming Tap										
	HSS	2 LOBE	Bottoming	H2	RH	1191285700	1191285701	1191285702	1191285705	1191285706
	HSS	2 LOBE	Bottoming	H3	RH	1191285800	1191285801	1191285802	1191285805	1191285806
<b>#3-56 UNF</b>										
Thread Forming Tap										
	HSS	2 LOBE	Bottoming	H2	RH	1191285900	1191285901	1191285902	1191285905	1191285906
	HSS	2 LOBE	Bottoming	H3	RH	1191286000	1191286001	1191286002	1191286005	1191286006
<b>#4-32 UNS</b>										
Straight Flute Hand Tap										
	HSS	3	Taper	H2	RH	1191112400	1191112401	1191112402	1191112405	1191112406
	HSS	3	Plug	H2	RH	1191112500	1191112501	1191112502	1191112505	1191112506
	HSS	3	Bottoming	H2	RH	1191112600	1191112601	1191112602	1191112605	1191112606
<b>#4-36 UNS</b>										
Straight Flute Hand Tap										
	HSS	3	Plug	H2	RH	1191279300	1191279301	1191279302	1191279305	1191279306
	HSS	3	Bottoming	H2	RH	1191279400	1191279401	1191279402	1191279405	1191279406
<b>#4-40 UNC</b>										
Spiral Point Tap										
	HSS	2	Plug	H3	RH	1191113100	1191113101	1191113102	1191113105	1191113106
	HSS	2	Plug	H4	RH	1191276600	1191276601	1191276602	1191276605	1191276606
	HSS	2	Plug	H5	RH	1191255800	1191255801	1191255802	1191255805	1191255806
	HSS	2	Plug	H7	RH	1191260200	1191260201	1191260202	1191260205	1191260206
Plus 5	HSS	2	Plug	H11	RH	1191253200	1191253201	1191253202	1191253205	1191253206
STI	HSS	2	Plug	H1	RH	1191268100	1191268101	1191268102	1191268105	1191268106
STI	HSS	2	Plug	H2	RH	1191268400	1191268401	1191268402	1191268405	1191268406
	HSS	2	Plug	H2	LH	1191112700	1191112701	1191112702	1191112705	1191112706
	Carbide	2	Plug	H2	RH	1191365700	NA	NA	1191365705	1191365706
Straight Flute Hand Tap	Continued on the next page									

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>#4-40 UNC (Continued)</b>										
Straight Flute Hand Tap										
STI	HSS	3	Taper	H3	RH	1191113200	1191113201	1191113202	1191113205	1191113206
	HSS	3	Plug	H3	RH	1191113300	1191113301	1191113302	1191113305	1191113306
	HSS	3	Bottoming	H3	RH	1191113400	1191113401	1191113402	1191113405	1191113406
	HSS	3	Plug	H1	RH	1191267900	1191267901	1191267902	1191267905	1191267906
	HSS	3	Bottoming	H1	RH	1191268000	1191268001	1191268002	1191268005	1191268006
	HSS	3	Plug	H2	RH	1191268200	1191268201	1191268202	1191268205	1191268206
	HSS	3	Bottoming	H2	RH	1191268300	1191268301	1191268302	1191268305	1191268306
	HSS	3	Taper	H2	LH	1191112800	1191112801	1191112802	1191112805	1191112806
	HSS	3	Plug	H2	LH	1191112900	1191112901	1191112902	1191112905	1191112906
	HSS	3	Bottoming	H2	LH	1191113000	1191113001	1191113002	1191113005	1191113006
	Carbide	2	Plug	H2	RH	1191365500	NA	NA	1191365505	1191365506
	Carbide	2	Bottoming	H2	RH	1191365600	NA	NA	1191365605	1191365606
Spiral Flute Tap										
48°	HSS	2	Plug	H3	RH	1191260300	1191260301	1191260302	1191260305	1191260306
48°	HSS	2	Bottoming	H3	RH	1191260400	1191260401	1191260402	1191260405	1191260406
Thread Forming Tap										
	HSS	2 LOBE	Plug	H3	RH	1191286100	1191286101	1191286102	1191286105	1191286106
	HSS	2 LOBE	Bottoming	H3	RH	1191286200	1191286201	1191286202	1191286205	1191286206
	HSS	2 LOBE	Plug	H5	RH	1191286300	1191286301	1191286302	1191286305	1191286306
	HSS	2 LOBE	Bottoming	H5	RH	1191286400	1191286401	1191286402	1191286405	1191286406
<b>#4-48 UNF</b>										
Spiral Point Tap										
	HSS	2	Plug	H2	LH	1191113500	1191113501	1191113502	1191113505	1191113506
	Carbide	2	Plug	H2	RH	1191366000	NA	NA	1191366005	1191366006
Straight Flute Hand Tap										
	HSS	3	Taper	H2	LH	1191113600	1191113601	1191113602	1191113605	1191113606
	HSS	3	Plug	H2	LH	1191113700	1191113701	1191113702	1191113705	1191113706
	HSS	3	Bottoming	H2	LH	1191113800	1191113801	1191113802	1191113805	1191113806
	Carbide	2	Plug	H2	RH	1191365800	NA	NA	1191365805	1191365806
	Carbide	2	Bottoming	H2	RH	1191365900	NA	NA	1191365905	1191365906
Thread Forming Tap										
	HSS	2 LOBE	Plug	H3	RH	1191286500	1191286501	1191286502	1191286505	1191286506
	HSS	2 LOBE	Bottoming	H3	RH	1191286600	1191286601	1191286602	1191286605	1191286606
	HSS	2 LOBE	Plug	H5	RH	1191286700	1191286701	1191286702	1191286705	1191286706
	HSS	2 LOBE	Bottoming	H5	RH	1191286800	1191286801	1191286802	1191286805	1191286806
<b>#5-40 UNC</b>										
Spiral Point Tap										
Plus 5	HSS	2	Plug	H5	RH	1191262100	1191262101	1191262102	1191262105	1191262106
	HSS	2	Plug	H7	RH	1191279800	1191279801	1191279802	1191279805	1191279806
	HSS	2	Plug	H11	RH	1191260500	1191260501	1191260502	1191260505	1191260506
	HSS	2	Plug	H2	LH	1191113900	1191113901	1191113902	1191113905	1191113906
	Carbide	2	Plug	H2	RH	1191366100	NA	NA	1191366105	1191366106
Straight Flute Hand Tap										
	HSS	3	Taper	H2	LH	1191114000	1191114001	1191114002	1191114005	1191114006
	HSS	3	Plug	H2	LH	1191114100	1191114101	1191114102	1191114105	1191114106
	HSS	3	Bottoming	H2	LH	1191114200	1191114201	1191114202	1191114205	1191114206
	Carbide	3	Plug	H2	RH	1191366200	NA	NA	1191366205	1191366206
	Carbide	3	Bottoming	H2	RH	1191366300	NA	NA	1191366305	1191366306
Thread Forming Tap										
Continued on the next page										

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>#5-40 UNC (Continued)</b>										
Thread Forming Tap										
	HSS	2 LOBE	Plug	H3	RH	1191286900	1191286901	1191286902	1191286905	1191286906
	HSS	2 LOBE	Bottoming	H3	RH	1191287000	1191287001	1191287002	1191287005	1191287006
	HSS	2 LOBE	Plug	H5	RH	1191287100	1191287101	1191287102	1191287105	1191287106
	HSS	2 LOBE	Bottoming	H5	RH	1191287200	1191287201	1191287202	1191287205	1191287206
<b>#5-44 UNC</b>										
Thread Forming Tap										
	HSS	2 LOBE	Plug	H3	RH	1191287300	1191287301	1191287302	1191287305	1191287306
	HSS	2 LOBE	Bottoming	H3	RH	1191287400	1191287401	1191287402	1191287405	1191287406
	HSS	2 LOBE	Plug	H5	RH	1191287500	1191287501	1191287502	1191287505	1191287506
	HSS	2 LOBE	Bottoming	H5	RH	1191287600	1191287601	1191287602	1191287605	1191287606
<b>#6-32 UNC</b>										
Spiral Point Tap										
	HSS	2	Plug	H5	RH	1191114700	1191114701	1191114702	1191114705	1191114706
	HSS	2	Plug	H7	RH	1191115100	1191115101	1191115102	1191115105	1191115106
STI	HSS	2	Plug	H2	RH	1191268700	1191268701	1191268702	1191268705	1191268706
STI	HSS	2	Plug	H3	RH	1191269000	1191269001	1191269002	1191269005	1191269006
	HSS	2	Plug	H3	LH	1191114300	1191114301	1191114302	1191114305	1191114306
4" EXT	HSS	2	Plug	H3	RH	1191255900	1191255901	1191255902	1191255905	1191255906
6" EXT	HSS	2	Plug	H3	RH	1191115900	1191115901	1191115902	1191115905	1191115906
	Carbide	2	Plug	H3	RH	1191366400	NA	NA	1191366405	1191366406
Straight Flute Hand Tap										
	HSS	3	Taper	H5	RH	1191114800	1191114801	1191114802	1191114805	1191114806
	HSS	3	Plug	H5	RH	1191114900	1191114901	1191114902	1191114905	1191114906
	HSS	3	Bottoming	H5	RH	1191115000	1191115001	1191115002	1191115005	1191115006
	HSS	3	Taper	H7	RH	1191115200	1191115201	1191115202	1191115205	1191115206
	HSS	3	Plug	H7	RH	1191115300	1191115301	1191115302	1191115305	1191115306
	HSS	3	Bottoming	H7	RH	1191115400	1191115401	1191115402	1191115405	1191115406
Plus 5	HSS	2	Plug	H11	RH	1191115500	1191115501	1191115502	1191115505	1191115506
Plus 5	HSS	3	Taper	H11	RH	1191115600	1191115601	1191115602	1191115605	1191115606
Plus 5	HSS	3	Plug	H11	RH	1191115700	1191115701	1191115702	1191115705	1191115706
Plus 5	HSS	3	Bottoming	H11	RH	1191115800	1191115801	1191115802	1191115805	1191115806
STI	HSS	3	Plug	H2	RH	1191268500	1191268501	1191268502	1191268505	1191268506
STI	HSS	3	Bottoming	H2	RH	1191268600	1191268601	1191268602	1191268605	1191268606
STI	HSS	3	Plug	H3	RH	1191268800	1191268801	1191268802	1191268805	1191268806
STI	HSS	3	Bottoming	H3	RH	1191268900	1191268901	1191268902	1191268905	1191268906
	HSS	3	Taper	H3	LH	1191114400	1191114401	1191114402	1191114405	1191114406
	HSS	3	Plug	H3	LH	1191114500	1191114501	1191114502	1191114505	1191114506
	HSS	3	Bottoming	H3	LH	1191114600	1191114601	1191114602	1191114605	1191114606
6" EXT	HSS	3	Taper	H3	RH	1191116000	1191116001	1191116002	1191116005	1191116006
6" EXT	HSS	3	Plug	H3	RH	1191116100	1191116101	1191116102	1191116105	1191116106
6" EXT	HSS	3	Bottoming	H3	RH	1191116200	1191116201	1191116202	1191116205	1191116206
	Carbide	3	Plug	H3	RH	1191366500	NA	NA	1191366505	1191366506
	Carbide	3	Bottoming	H3	RH	1191366600	NA	NA	1191366605	1191366606
Thread Forming Tap										
	HSS	3 LOBE	Plug	H3	RH	1191287700	1191287701	1191287702	1191287705	1191287706
	HSS	3 LOBE	Bottoming	H3	RH	1191287800	1191287801	1191287802	1191287805	1191287806
	HSS	3 LOBE	Plug	H5	RH	1191287900	1191287901	1191287902	1191287905	1191287906
	HSS	3 LOBE	Bottoming	H5	RH	1191288000	1191288001	1191288002	1191288005	1191288006
	HSS	3 LOBE	Plug	H10	RH	1191288100	1191288101	1191288102	1191288105	1191288106
	HSS	3 LOBE	Bottoming	H10	RH	1191288200	1191288201	1191288202	1191288205	1191288206



# Fast Tap



CUSTOMER SERVICE: telephone 800.348.2885 • fax 800.892.4290

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>#6-40 UNF</b>										
Spiral Point Tap										
	HSS	2	Plug	H3	RH	1191116600	1191116601	1191116602	1191116605	1191116606
Straight Flute Hand Tap										
	HSS	3	Taper	H2	LH	1191116300	1191116301	1191116302	1191116305	1191116306
	HSS	3	Plug	H2	LH	1191116400	1191116401	1191116402	1191116405	1191116406
	HSS	3	Bottoming	H2	LH	1191116500	1191116501	1191116502	1191116505	1191116506
	Carbide	3	Plug	H2	RH	1191366700	NA	NA	1191366705	1191366706
	Carbide	3	Bottoming	H2	RH	1191366800	NA	NA	1191366805	1191366806
Thread Forming Tap										
	HSS	3 LOBE	Plug	H3	RH	1191288300	1191288301	1191288302	1191288305	1191288306
	HSS	3 LOBE	Bottoming	H3	RH	1191288400	1191288401	1191288402	1191288405	1191288406
	HSS	3 LOBE	Plug	H5	RH	1191288500	1191288501	1191288502	1191288505	1191288506
	HSS	3 LOBE	Bottoming	H5	RH	1191288600	1191288601	1191288602	1191288605	1191288606
<b>#6-48 UNS</b>										
Spiral Point Tap										
	HSS	2	Plug	H2	RH	1191116700	1191116701	1191116702	1191116705	1191116706
Straight Flute Hand Tap										
	HSS	3	Taper	H2	RH	1191116800	1191116801	1191116802	1191116805	1191116806
	HSS	3	Plug	H2	RH	1191116900	1191116901	1191116902	1191116905	1191116906
	HSS	3	Bottoming	H2	RH	1191117000	1191117001	1191117002	1191117005	1191117006
<b>5/32"-32 UNS</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H3	RH	1191253300	1191253301	1191253302	1191253305	1191253306
	HSS	4	Plug	H3	RH	1191253400	1191253401	1191253402	1191253405	1191253406
	HSS	4	Bottoming	H3	RH	1191253500	1191253501	1191253502	1191253505	1191253506
<b>#8-24 UNS</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H3	RH	1191117100	1191117101	1191117102	1191117105	1191117106
	HSS	4	Plug	H3	RH	1191117200	1191117201	1191117202	1191117205	1191117206
	HSS	4	Bottoming	H3	RH	1191117300	1191117301	1191117302	1191117305	1191117306
<b>#8-32 UNC</b>										
Spiral Point Tap										
	HSS	2	Plug	H5	RH	1191117800	1191117801	1191117802	1191117805	1191117806
	HSS	2	Plug	H7	RH	1191118200	1191118201	1191118202	1191118205	1191118206
Plus 5	HSS	2	Plug	H11	RH	1191118600	1191118601	1191118602	1191118605	1191118606
STI	HSS	2	Plug	H2	RH	1191269300	1191269301	1191269302	1191269305	1191269306
STI	HSS	2	Plug	H3	RH	1191269600	1191269601	1191269602	1191269605	1191269606
	HSS	2	Plug	H3	LH	1191117400	1191117401	1191117402	1191117405	1191117406
4"Ext	HSS	2	Plug	H3	RH	1191255000	1191255001	1191255002	1191255005	1191255006
6"Ext	HSS	2	Plug	H3	RH	1191119000	1191119001	1191119002	1191119005	1191119006
	Carbide	2	Plug	H3	RH	1191366900	NA	NA	1191366905	1191366906
Straight Flute Hand Tap										
	HSS	4	Taper	H5	RH	1191117900	1191117901	1191117902	1191117905	1191117906
	HSS	4	Plug	H5	RH	1191118000	1191118001	1191118002	1191118005	1191118006
	HSS	4	Bottoming	H5	RH	1191118100	1191118101	1191118102	1191118105	1191118106
	HSS	4	Taper	H7	RH	1191118300	1191118301	1191118302	1191118305	1191118306
	HSS	4	Plug	H7	RH	1191118400	1191118401	1191118402	1191118405	1191118406
	HSS	4	Bottoming	H7	RH	1191118500	1191118501	1191118502	1191118505	1191118506
Straight Flute Hand Tap										
Continued on the next page										

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>#8-32 UNC (Continued)</b>										
Straight Flute Hand Tap										
Plus 5	HSS	4	Taper	H11	RH	1191118700	1191118701	1191118702	1191118705	1191118706
Plus 5	HSS	4	Plug	H11	RH	1191118800	1191118801	1191118802	1191118805	1191118806
Plus 5	HSS	4	Bottoming	H11	RH	1191118900	1191118901	1191118902	1191118905	1191118906
STI	HSS	3	Plug	H2	RH	1191269100	1191269101	1191269102	1191269105	1191269106
STI	HSS	3	Bottoming	H2	RH	1191269200	1191269201	1191269202	1191269205	1191269206
STI	HSS	3	Plug	H3	RH	1191269400	1191269401	1191269402	1191269405	1191269406
STI	HSS	3	Bottoming	H3	RH	1191269500	1191269501	1191269502	1191269505	1191269506
	HSS	4	Taper	H3	LH	1191117500	1191117501	1191117502	1191117505	1191117506
	HSS	4	Plug	H3	LH	1191117600	1191117601	1191117602	1191117605	1191117606
	HSS	4	Bottoming	H3	LH	1191117700	1191117701	1191117702	1191117705	1191117706
6" Ext	HSS	4	Taper	H3	RH	1191119100	1191119101	1191119102	1191119105	1191119106
6" Ext	HSS	4	Plug	H3	RH	1191119200	1191119201	1191119202	1191119205	1191119206
6" Ext	HSS	4	Bottoming	H3	LH	1191119300	1191119301	1191119302	1191119305	1191119306
	Carbide	4	Plug	H3	RH	1191367000	NA	NA	1191367005	1191367006
	Carbide	4	Bottoming	H3	RH	1191367100	NA	NA	1191367105	1191367106
Thread Forming Tap										
	HSS	3 LOBE	Plug	H3	RH	1191288700	1191288701	1191288702	1191288705	1191288706
	HSS	3 LOBE	Bottoming	H3	RH	1191288800	1191288801	1191288802	1191288805	1191288806
	HSS	3 LOBE	Plug	H5	RH	1191288900	1191288901	1191288902	1191288905	1191288906
	HSS	3 LOBE	Bottoming	H5	RH	1191289000	1191289001	1191289002	1191289005	1191289006
	HSS	3 LOBE	Plug	H10	RH	1191289100	1191289101	1191289102	1191289105	1191289106
	HSS	3 LOBE	Bottoming	H10	RH	1191289200	1191289201	1191289202	1191289205	1191289206
<b>#8-36 UNF</b>										
Spiral Point Tap										
	HSS	2	Plug	H2	LH	1191119400	1191119401	1191119402	1191119405	1191119406
Straight Flute Hand Tap										
	HSS	4	Taper	H2	LH	1191119500	1191119501	1191119502	1191119505	1191119506
	HSS	4	Plug	H2	LH	1191119600	1191119601	1191119602	1191119605	1191119606
	HSS	4	Bottoming	H2	LH	1191119700	1191119701	1191119702	1191119705	1191119706
	Carbide	4	Plug	H2	RH	1191367200	NA	NA	1191367205	1191367206
	Carbide	4	Bottoming	H2	RH	1191367300	NA	NA	1191367305	1191367306
Thread Forming Tap										
	HSS	3 LOBE	Plug	H3	RH	1191289300	1191289301	1191289302	1191289305	1191289306
	HSS	3 LOBE	Bottoming	H3	RH	1191289400	1191289401	1191289402	1191289405	1191289406
	HSS	3 LOBE	Plug	H5	RH	1191289500	1191289501	1191289502	1191289505	1191289506
	HSS	3 LOBE	Bottoming	H5	RH	1191289600	1191289601	1191289602	1191289605	1191289606
<b>#8-40 UNS</b>										
Spiral Point Tap										
	HSS	2	Plug	H2	RH	1191119800	1191119801	1191119802	1191119805	1191119806
Straight Flute Hand Tap										
	HSS	4	Taper	H2	RH	1191119900	1191119901	1191119902	1191119905	1191119906
	HSS	4	Plug	H2	RH	1191120000	1191120001	1191120002	1191120005	1191120006
	HSS	4	Bottoming	H2	RH	1191120100	1191120101	1191120102	1191120105	1191120106
<b>3/16"-24 UNS</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H3	RH	1191129900	1191129901	1191129902	1191129905	1191129906
	HSS	4	Plug	H3	RH	1191130000	1191130001	1191130002	1191130005	1191130006
	HSS	4	Bottoming	H3	RH	1191130100	1191130101	1191130102	1191130105	1191130106





# Fast Tap



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Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>3/16"-32 UNS</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H3	RH	1191130200	1191130201	1191130202	1191130205	1191130206
	HSS	4	Plug	H3	RH	1191130300	1191130301	1191130302	1191130305	1191130306
	HSS	4	Bottoming	H3	RH	1191130400	1191130401	1191130402	1191130405	1191130406
<b>#10-24 UNC</b>										
Spiral Point Tap										
	HSS	2	Plug	H5	RH	1191120600	1191120601	1191120602	1191120605	1191120606
	HSS	2	Plug	H7	RH	1191121000	1191121001	1191121002	1191121005	1191121006
Plus 5	HSS	2	Plug	H11	RH	1191121400	1191121401	1191121402	1191121405	1191121406
STI	HSS	2	Plug	H2	RH	1191269900	1191269901	1191269902	1191269905	1191269906
STI	HSS	2	Plug	H3	RH	1191270200	1191270201	1191270202	1191270205	1191270206
	HSS	2	Plug	H3	LH	1191120200	1191120201	1191120202	1191120205	1191120206
4" Ext	HSS	2	Plug	H3	RH	1191256000	1191256001	1191256002	1191256005	1191256006
6" Ext	HSS	2	Plug	H3	RH	1191122100	1191122101	1191122102	1191122105	1191122106
	Carbide	2	Plug	H3	RH	1191367400	NA	NA	1191367405	1191367406
Straight Flute Hand Tap										
	HSS	4	Taper	H5	RH	1191120700	1191120701	1191120702	1191120705	1191120706
	HSS	4	Plug	H5	RH	1191120800	1191120801	1191120802	1191120805	1191120806
	HSS	4	Bottoming	H5	RH	1191120900	1191120901	1191120902	1191120905	1191120906
	HSS	4	Taper	H7	RH	1191121100	1191121101	1191121102	1191121105	1191121106
	HSS	4	Plug	H7	RH	1191121200	1191121201	1191121202	1191121205	1191121206
	HSS	4	Bottoming	H7	RH	1191121300	1191121301	1191121302	1191121305	1191121306
Plus 5	HSS	4	Taper	H11	RH	1191121500	1191121501	1191121502	1191121505	1191121506
Plus 5	HSS	4	Plug	H11	RH	1191121600	1191121601	1191121602	1191121605	1191121606
Plus 5	HSS	4	Bottoming	H11	RH	1191121700	1191121701	1191121702	1191121705	1191121706
STI	HSS	3	Plug	H2	RH	1191269700	1191269701	1191269702	1191269705	1191269706
STI	HSS	3	Bottoming	H2	RH	1191269800	1191269801	1191269802	1191269805	1191269806
STI	HSS	3	Plug	H3	RH	1191270000	1191270001	1191270002	1191270005	1191270006
STI	HSS	3	Bottoming	H3	RH	1191270100	1191270101	1191270102	1191270105	1191270106
	HSS	4	Taper	H3	LH	1191120300	1191120301	1191120302	1191120305	1191120306
	HSS	4	Plug	H3	LH	1191120400	1191120401	1191120402	1191120405	1191120406
	HSS	4	Bottoming	H3	LH	1191120500	1191120501	1191120502	1191120505	1191120506
DbI Lead	HSS	4	Taper	H3	RH	1191121800	1191121801	1191121802	1191121805	1191121806
DbI Lead	HSS	4	Plug	H3	RH	1191121900	1191121901	1191121902	1191121905	1191121906
DbI Lead	HSS	4	Bottoming	H3	RH	1191122000	1191122001	1191122002	1191122005	1191122006
6" Ext	HSS	4	Taper	H3	RH	1191122200	1191122201	1191122202	1191122205	1191122206
6" Ext	HSS	4	Plug	H3	RH	1191122300	1191122301	1191122302	1191122305	1191122306
6" Ext	HSS	4	Bottoming	H3	RH	1191122400	1191122401	1191122402	1191122405	1191122406
	Carbide	4	Plug	H3	RH	1191367500	NA	NA	1191367505	1191367506
	Carbide	4	Bottoming	H3	RH	1191367600	NA	NA	1191367605	1191367606
Thread Forming Tap										
	HSS	3 LOBE	Plug	H4	RH	1191289700	1191289701	1191289702	1191289705	1191289706
	HSS	3 LOBE	Bottoming	H4	RH	1191289800	1191289801	1191289802	1191289805	1191289806
	HSS	3 LOBE	Plug	H6	RH	1191289900	1191289901	1191289902	1191289905	1191289906
	HSS	3 LOBE	Bottoming	H6	RH	1191290000	1191290001	1191290002	1191290005	1191290006
	HSS	3 LOBE	Plug	H10	RH	1191290100	1191290101	1191290102	1191290105	1191290106
	HSS	3 LOBE	Bottoming	H10	RH	1191290200	1191290201	1191290202	1191290205	1191290206

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>#10-28 UNS</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H3	RH	1191122500	1191122501	1191122502	1191122505	1191122506
	HSS	4	Plug	H3	RH	1191122600	1191122601	1191122602	1191122605	1191122606
	HSS	4	Bottoming	H3	RH	1191122700	1191122701	1191122702	1191122705	1191122706
<b>#10-30 UNS</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H3	RH	1191122800	1191122801	1191122802	1191122805	1191122806
	HSS	4	Plug	H3	RH	1191122900	1191122901	1191122902	1191122905	1191122906
	HSS	4	Bottoming	H3	RH	1191123000	1191123001	1191123002	1191123005	1191123006
<b>#10-32 UNF</b>										
Spiral Point Tap										
	HSS	2	Plug	H4	RH	1191123500	1191123501	1191123502	1191123505	1191123506
	HSS	2	Plug	H5	RH	1191123600	1191123601	1191123602	1191123605	1191123606
	HSS	2	Plug	H7	RH	1191124000	1191124001	1191124002	1191124005	1191124006
Plus 5	HSS	2	Plug	H11	RH	1191124400	1191124401	1191124402	1191124405	1191124406
STI	HSS	2	Plug	H2	RH	1191270500	1191270501	1191270502	1191270505	1191270506
STI	HSS	2	Plug	H3	RH	1191270800	1191270801	1191270802	1191270805	1191270806
	HSS	2	Plug	H3	LH	1191123100	1191123101	1191123102	1191123105	1191123106
4" Ext	HSS	2	Plug	H3	RH	1191255100	1191255101	1191255102	1191255105	1191255106
6" Ext	HSS	2	Plug	H3	RH	1191124800	1191124801	1191124802	1191124805	1191124806
	Carbide	2	Plug	H3	RH	1191367700	NA	NA	1191367705	1191367706
Straight Flute Hand Tap										
	HSS	4	Plug	H4	RH	1191275700	1191275701	1191275702	1191275705	1191275706
	HSS	4	Bottoming	H4	RH	1191275800	1191275801	1191275802	1191275805	1191275806
	HSS	4	Taper	H5	RH	1191123700	1191123701	1191123702	1191123705	1191123706
	HSS	4	Plug	H5	RH	1191123800	1191123801	1191123802	1191123805	1191123806
	HSS	4	Bottoming	H5	RH	1191123900	1191123901	1191123902	1191123905	1191123906
	HSS	4	Taper	H7	RH	1191124100	1191124101	1191124102	1191124105	1191124106
	HSS	4	Plug	H7	RH	1191124200	1191124201	1191124202	1191124205	1191124206
	HSS	4	Bottoming	H7	RH	1191124300	1191124301	1191124302	1191124305	1191124306
Plus 5	HSS	4	Taper	H11	RH	1191124500	1191124501	1191124502	1191124505	1191124506
Plus 5	HSS	4	Plug	H11	RH	1191124600	1191124601	1191124602	1191124605	1191124606
Plus 5	HSS	4	Bottoming	H11	RH	1191124700	1191124701	1191124702	1191124705	1191124706
STI	HSS	3	Plug	H2	RH	1191270300	1191270301	1191270302	1191270305	1191270306
STI	HSS	3	Bottoming	H2	RH	1191270400	1191270401	1191270402	1191270405	1191270406
STI	HSS	3	Plug	H3	RH	1191270600	1191270601	1191270602	1191270605	1191270606
STI	HSS	3	Bottoming	H3	RH	1191270700	1191270701	1191270702	1191270705	1191270706
	HSS	4	Taper	H3	LH	1191123200	1191123201	1191123202	1191123205	1191123206
	HSS	4	Plug	H3	LH	1191123300	1191123301	1191123302	1191123305	1191123306
	HSS	4	Bottoming	H3	LH	1191123400	1191123401	1191123402	1191123405	1191123406
6" Ext	HSS	4	Taper	H3	RH	1191124900	1191124901	1191124902	1191124905	1191124906
6" Ext	HSS	4	Plug	H3	RH	1191125000	1191125001	1191125002	1191125005	1191125006
6" Ext	HSS	4	Bottoming	H3	RH	1191125100	1191125101	1191125102	1191125105	1191125106
	Carbide	4	Plug	H3	RH	1191367800	NA	NA	1191367805	1191367806
	Carbide	4	Bottoming	H3	RH	1191367900	NA	NA	1191367905	1191367906
Thread Forming Tap	Continued on the next page									



# Fast Tap



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Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>#10-32 UNF (Continued)</b>										
Thread Forming Tap										
	HSS	3 LOBE	Plug	H4	RH	1191290300	1191290301	1191290302	1191290305	1191290306
	HSS	3 LOBE	Bottoming	H4	RH	1191290400	1191290401	1191290402	1191290405	1191290406
	HSS	3 LOBE	Plug	H6	RH	1191290500	1191290501	1191290502	1191290505	1191290506
	HSS	3 LOBE	Bottoming	H6	RH	1191290600	1191290601	1191290602	1191290605	1191290606
	HSS	3 LOBE	Plug	H10	RH	1191290700	1191290701	1191290702	1191290705	1191290706
	HSS	3 LOBE	Bottoming	H10	RH	1191290800	1191290801	1191290802	1191290805	1191290806
<b>#10-36 UNS</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H2	RH	1191125200	1191125201	1191125202	1191125205	1191125206
	HSS	4	Plug	H2	RH	1191125300	1191125301	1191125302	1191125305	1191125306
	HSS	4	Bottoming	H2	RH	1191125400	1191125401	1191125402	1191125405	1191125406
<b>#10-40 UNS</b>										
Spiral Point Tap										
	HSS	2	Plug	H2	RH	1191125500	1191125501	1191125502	1191125505	1191125506
Straight Flute Hand Tap										
	HSS	4	Taper	H2	RH	1191125600	1191125601	1191125602	1191125605	1191125606
	HSS	4	Plug	H2	RH	1191125700	1191125701	1191125702	1191125705	1191125706
	HSS	4	Bottoming	H2	RH	1191125800	1191125801	1191125802	1191125805	1191125806
<b>#10-48 UNS</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H2	RH	1191125900	1191125901	1191125902	1191125905	1191125906
	HSS	4	Plug	H2	RH	1191126000	1191126001	1191126002	1191126005	1191126006
	HSS	4	Bottoming	H2	RH	1191126100	1191126101	1191126102	1191126105	1191126106
<b>#10-56 UNS</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H2	RH	1191126200	1191126201	1191126202	1191126205	1191126206
	HSS	4	Plug	H2	RH	1191126300	1191126301	1191126302	1191126305	1191126306
	HSS	4	Bottoming	H2	RH	1191126400	1191126401	1191126402	1191126405	1191126406
<b>#10-64 UNS</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H2	RH	1191126500	1191126501	1191126502	1191126505	1191126506
	HSS	4	Plug	H2	RH	1191126600	1191126601	1191126602	1191126605	1191126606
	HSS	4	Bottoming	H2	RH	1191126700	1191126701	1191126702	1191126705	1191126706
<b>.210"-36 UNS</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H3	RH	1191258300	1191258301	1191258302	1191258305	1191258306
	HSS	4	Plug	H3	RH	1191258400	1191258401	1191258402	1191258405	1191258406
	HSS	4	Bottoming	H3	RH	1191258500	1191258501	1191258502	1191258505	1191258506
	HSS	4	Plug	H4	RH	1191275900	1191275901	1191275902	1191275905	1191275906
	HSS	4	Bottoming	H4	RH	1191276000	1191276001	1191276002	1191276005	1191276006

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>#12-24 UNC</b>										
Spiral Point Tap										
	Carbide	2	Plug	H3	RH	1191368000	NA	NA	1191368005	1191368006
Straight Flute Hand Tap										
	HSS	4	Taper	H3	LH	1191126800	1191126801	1191126802	1191126805	1191126806
	HSS	4	Plug	H3	LH	1191126900	1191126901	1191126902	1191126905	1191126906
	HSS	4	Bottoming	H3	LH	1191127000	1191127001	1191127002	1191127005	1191127006
	Carbide	4	Plug	H3	RH	1191368100	NA	NA	1191368105	1191368106
	Carbide	4	Bottoming	H3	RH	1191368200	NA	NA	1191368205	1191368206
Thread Forming Tap										
	HSS	3 LOBE	Plug	H4	RH	1191290900	1191290901	1191290902	1191290905	1191290906
	HSS	3 LOBE	Bottoming	H4	RH	1191291000	1191291001	1191291002	1191291005	1191291006
	HSS	3 LOBE	Plug	H6	RH	1191291100	1191291101	1191291102	1191291105	1191291106
	HSS	3 LOBE	Bottoming	H6	RH	1191291200	1191291201	1191291202	1191291205	1191291206
<b>#12-28 UNF</b>										
Spiral Point Tap										
	Carbide	2	Plug	H3	RH	1191368300	NA	NA	1191368305	1191368306
Straight Flute Hand Tap										
	HSS	4	Taper	H3	LH	1191127100	1191127101	1191127102	1191127105	1191127106
	HSS	4	Plug	H3	LH	1191127200	1191127201	1191127202	1191127205	1191127206
	HSS	4	Bottoming	H3	LH	1191127300	1191127301	1191127302	1191127305	1191127306
	Carbide	4	Plug	H3	RH	1191368400	NA	NA	1191368405	1191368406
	Carbide	4	Bottoming	H3	RH	1191368500	NA	NA	1191368505	1191368506
Thread Forming Tap										
	HSS	3 LOBE	Plug	H4	RH	1191291300	1191291301	1191291302	1191291305	1191291306
	HSS	3 LOBE	Bottoming	H4	RH	1191291400	1191291401	1191291402	1191291405	1191291406
	HSS	3 LOBE	Plug	H6	RH	1191291500	1191291501	1191291502	1191291505	1191291506
	HSS	3 LOBE	Bottoming	H6	RH	1191291600	1191291601	1191291602	1191291605	1191291606
<b>#12-32 UNEF</b>										
Spiral Point Tap										
	HSS	2	Plug	H3	RH	1191127400	1191127401	1191127402	1191127405	1191127406
Straight Flute Hand Tap										
	HSS	4	Taper	H3	RH	1191127500	1191127501	1191127502	1191127505	1191127506
	HSS	4	Plug	H3	RH	1191127600	1191127601	1191127602	1191127605	1191127606
	HSS	4	Bottoming	H3	RH	1191127700	1191127701	1191127702	1191127705	1191127706
<b>#12-36 UNS</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H2	RH	1191127800	1191127801	1191127802	1191127805	1191127806
	HSS	4	Plug	H2	RH	1191127900	1191127901	1191127902	1191127905	1191127906
	HSS	4	Bottoming	H2	RH	1191128000	1191128001	1191128002	1191128005	1191128006
<b>7/32"-32 UNS</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H3	RH	1191253600	1191253601	1191253602	1191253605	1191253606
	HSS	4	Plug	H3	RH	1191253700	1191253701	1191253702	1191253705	1191253706
	HSS	4	Bottoming	H3	RH	1191253800	1191253801	1191253802	1191253805	1191253806



# Fast Tap



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Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>#14-20 UNS</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H3	RH	1191128100	1191128101	1191128102	1191128105	1191128106
	HSS	4	Plug	H3	RH	1191128200	1191128201	1191128202	1191128205	1191128206
	HSS	4	Bottoming	H3	RH	1191128300	1191128301	1191128302	1191128305	1191128306
<b>#14-24 UNS</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H3	RH	1191128400	1191128401	1191128402	1191128405	1191128406
	HSS	4	Plug	H3	RH	1191128500	1191128501	1191128502	1191128505	1191128506
	HSS	4	Bottoming	H3	RH	1191128600	1191128601	1191128602	1191128605	1191128606
<b>1/4"-20 UNC</b>										
Spiral Point Tap										
	HSS	2	Plug	H3	LH	1191131700	1191131701	1191131702	1191131705	1191131706
	HSS	2	Plug	H7	RH	1191132100	1191132101	1191132102	1191132105	1191132106
Plus 5	HSS	2	Plug	H11	RH	1191132500	1191132501	1191132502	1191132505	1191132506
STI	HSS	2	Plug	H2	RH	1191271100	1191271101	1191271102	1191271105	1191271106
STI	HSS	2	Plug	H3	RH	1191271400	1191271401	1191271402	1191271405	1191271406
4" Ext	HSS	2	Plug	H3	RH	1191255200	1191255201	1191255202	1191255205	1191255206
4" Ext - Sm. Shank	HSS	2	Plug	H3	RH	1191280200	1191280201	1191280202	1191280205	1191280206
6" Ext	HSS	2	Plug	H3	RH	1191133500	1191133501	1191133502	1191133505	1191133506
6" Ext - Sm. Shank	HSS	2	Plug	H3	RH	1191253900	1191253901	1191253902	1191253905	1191253906
	Carbide	2	Plug	H3	RH	1191368600	NA	NA	1191368605	1191368606
Straight Flute Hand Tap										
	HSS	4	Taper	H7	RH	1191132200	1191132201	1191132202	1191132205	1191132206
	HSS	4	Plug	H7	RH	1191132300	1191132301	1191132302	1191132305	1191132306
	HSS	4	Bottoming	H7	RH	1191132400	1191132401	1191132402	1191132405	1191132406
	HSS	4	Taper	H3	LH	1191131800	1191131801	1191131802	1191131805	1191131806
	HSS	4	Plug	H3	LH	1191131900	1191131901	1191131902	1191131905	1191131906
	HSS	4	Bottoming	H3	LH	1191132000	1191132001	1191132002	1191132005	1191132006
Plus 5	HSS	4	Taper	H11	RH	1191132600	1191132601	1191132602	1191132605	1191132606
Plus 5	HSS	4	Plug	H11	RH	1191132700	1191132701	1191132702	1191132705	1191132706
Plus 5	HSS	4	Bottoming	H11	RH	1191132800	1191132801	1191132802	1191132805	1191132806
Plus 10	HSS	4	Taper	H11	RH	1191132900	1191132901	1191132902	1191132905	1191132906
Plus 10	HSS	4	Plug	H21	RH	1191133000	1191133001	1191133002	1191133005	1191133006
Plus 10	HSS	4	Bottoming	H21	RH	1191133100	1191133101	1191133102	1191133105	1191133106
STI	HSS	3	Plug	H2	RH	1191270900	1191270901	1191270902	1191270905	1191270906
STI	HSS	3	Bottoming	H2	RH	1191271000	1191271001	1191271002	1191271005	1191271006
STI	HSS	3	Plug	H3	RH	1191271200	1191271201	1191271202	1191271205	1191271206
STI	HSS	3	Bottoming	H3	RH	1191271300	1191271301	1191271302	1191271305	1191271306
DbI Lead	HSS	4	Taper	H3	RH	1191133200	1191133201	1191133202	1191133205	1191133206
DbI Lead	HSS	4	Plug	H3	RH	1191133300	1191133301	1191133302	1191133305	1191133306
DbI Lead	HSS	4	Bottoming	H3	RH	1191133400	1191133401	1191133402	1191133405	1191133406
6" Ext	HSS	4	Taper	H3	RH	1191133600	1191133601	1191133602	1191133605	1191133606
6" Ext	HSS	4	Plug	H3	RH	1191133700	1191133701	1191133702	1191133705	1191133706
6" Ext	HSS	4	Bottoming	H3	RH	1191133800	1191133801	1191133802	1191133805	1191133806
6" Ext - Sm. Shank	HSS	4	Plug	H3	RH	1191254000	1191254001	1191254002	1191254005	1191254006
6" Ext - Sm. Shank	HSS	4	Bottoming	H3	RH	1191254100	1191254101	1191254102	1191254105	1191254106
Straight Flute Hand Tap	Continued on the next page									

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>1/4"-20 UNC (Continued)</b>										
Straight Flute Hand Tap										
8" Ext	HSS	4	Taper	H3	RH	1191133900	1191133901	1191133902	1191133905	1191133906
8" Ext	HSS	4	Plug	H3	RH	1191134000	1191134001	1191134002	1191134005	1191134006
8" Ext	HSS	4	Bottoming	H3	RH	1191134100	1191134101	1191134102	1191134105	1191134106
	Carbide	4	Plug	H3	RH	1191368700	NA	NA	1191368705	1191368706
	Carbide	4	Bottoming	H3	RH	1191368800	NA	NA	1191368805	1191368806
Spiral Flute Tap										
52°	HSS	3	Plug	H3	RH	1191266500	1191266501	1191266502	1191266505	1191266506
52°	HSS	3	Bottoming	H3	RH	1191266600	1191266601	1191266602	1191266605	1191266606
Thread Forming Tap										
	HSS	4 LOBE	Plug	H4	RH	1191291700	1191291701	1191291702	1191291705	1191291706
	HSS	4 LOBE	Bottoming	H4	RH	1191291800	1191291801	1191291802	1191291805	1191291806
	HSS	4 LOBE	Plug	H6	RH	1191291900	1191291901	1191291902	1191291905	1191291906
	HSS	4 LOBE	Bottoming	H6	RH	1191292000	1191292001	1191292002	1191292005	1191292006
	HSS	4 LOBE	Plug	H10	RH	1191292100	1191292101	1191292102	1191292105	1191292106
	HSS	4 LOBE	Bottoming	H10	RH	1191292200	1191292201	1191292202	1191292205	1191292206
<b>1/4"-20 BSW</b>										
British Standard Whitworth										
55 MOD	HSS	4	Taper	H3	RH	1191134200	1191134201	1191134202	1191134205	1191134206
55 MOD	HSS	4	Plug	H3	RH	1191134300	1191134301	1191134302	1191134305	1191134306
55 MOD	HSS	4	Bottoming	H3	RH	1191134400	1191134401	1191134402	1191134405	1191134406
<b>1/4"-24 UNS</b>										
Spiral Point Tap										
	HSS	2	Plug	H3	RH	1191134500	1191134501	1191134502	1191134505	1191134506
Straight Flute Hand Tap										
	HSS	4	Taper	H3	RH	1191134600	1191134601	1191134602	1191134605	1191134606
	HSS	4	Plug	H3	RH	1191134700	1191134701	1191134702	1191134705	1191134706
	HSS	4	Bottoming	H3	RH	1191134800	1191134801	1191134802	1191134805	1191134806
<b>1/4"-26 BSF - 55 MOD</b>										
British Standard Fine										
	HSS	4	Taper	H3	RH	1191256900	1191256901	1191256902	1191256905	1191256906
	HSS	4	Plug	H3	RH	1191257000	1191257001	1191257002	1191257005	1191257006
	HSS	4	Bottoming	H3	RH	1191257100	1191257101	1191257102	1191257105	1191257106
<b>1/4"-27 UNS</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H3	RH	1191134900	1191134901	1191134902	1191134905	1191134906
	HSS	4	Plug	H3	RH	1191135000	1191135001	1191135002	1191135005	1191135006
	HSS	4	Bottoming	H3	RH	1191135100	1191135101	1191135102	1191135105	1191135106
<b>1/4"-28 UNF</b>										
Spiral Point Tap										
Plus 5 STI STI 4" Ext - Sm Shank 6" Ext 6" Ext - Sm. Shank	HSS	2	Plug	H5	RH	1191135600	1191135601	1191135602	1191135605	1191135606
	HSS	2	Plug	H7	RH	1191136000	1191136001	1191136002	1191136005	1191136006
	HSS	2	Plug	H11	RH	1191136400	1191136401	1191136402	1191136405	1191136406
	HSS	2	Plug	H2	RH	1191271700	1191271701	1191271702	1191271705	1191271706
	HSS	2	Plug	H3	RH	1191272000	1191272001	1191272002	1191272005	1191272006
	HSS	2	Plug	H3	LH	1191135200	1191135201	1191135202	1191135205	1191135206
	HSS	2	Plug	H3	RH	1191280300	1191280301	1191280302	1191280305	1191280306
	HSS	2	Plug	H3	RH	1191137100	1191137101	1191137102	1191137105	1191137106
	HSS	2	Plug	H3	RH	1191256100	1191256101	1191256102	1191256105	1191256106
	Carbide	2	Plug	H3	RH	1191368900	NA	NA	1191368905	1191368906
Straight Flute Hand Tap Continued on the next page										

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>1/4"-28 UNF (Continued)</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H5	RH	1191135700	1191135701	1191135702	1191135705	1191135706
	HSS	4	Plug	H5	RH	1191135800	1191135801	1191135802	1191135805	1191135806
	HSS	4	Bottoming	H5	RH	1191135900	1191135901	1191135902	1191135905	1191135906
	HSS	4	Taper	H7	RH	1191136100	1191136101	1191136102	1191136105	1191136106
	HSS	4	Plug	H7	RH	1191136200	1191136201	1191136202	1191136205	1191136206
	HSS	4	Bottoming	H7	RH	1191136300	1191136301	1191136302	1191136305	1191136306
Plus 5	HSS	4	Taper	H11	RH	1191136500	1191136501	1191136502	1191136505	1191136506
Plus 5	HSS	4	Plug	H11	RH	1191136600	1191136601	1191136602	1191136605	1191136606
Plus 5	HSS	4	Bottoming	H11	RH	1191136700	1191136701	1191136702	1191136705	1191136706
STI	HSS	3	Plug	H2	RH	1191271500	1191271501	1191271502	1191271505	1191271506
STI	HSS	3	Bottoming	H2	RH	1191271600	1191271601	1191271602	1191271605	1191271606
STI	HSS	3	Plug	H3	RH	1191271800	1191271801	1191271802	1191271805	1191271806
STI	HSS	3	Bottoming	H3	RH	1191271900	1191271901	1191271902	1191271905	1191271906
DbL Lead	HSS	4	Taper	H3	RH	1191136800	1191136801	1191136802	1191136805	1191136806
DbL Lead	HSS	4	Plug	H3	RH	1191136900	1191136901	1191136902	1191136905	1191136906
DbL Lead	HSS	4	Bottoming	H3	RH	1191137000	1191137001	1191137002	1191137005	1191137006
	HSS	4	Taper	H3	LH	1191135300	1191135301	1191135302	1191135305	1191135306
	HSS	4	Plug	H3	LH	1191135400	1191135401	1191135402	1191135405	1191135406
	HSS	4	Bottoming	H3	LH	1191135500	1191135501	1191135502	1191135505	1191135506
6" Ext	HSS	4	Taper	H3	RH	1191137200	1191137201	1191137202	1191137205	1191137206
6" Ext	HSS	4	Plug	H3	RH	1191137300	1191137301	1191137302	1191137305	1191137306
6" Ext	HSS	4	Bottoming	H3	RH	1191137400	1191137401	1191137402	1191137405	1191137406
	Carbide	4	Plug	H3	RH	1191369000	NA	NA	1191369005	1191369006
	Carbide	4	Bottoming	H3	RH	1191369100	NA	NA	1191369105	1191369106
Thread Forming Tap										
	HSS	4 LOBE	Plug	H4	RH	1191292300	1191292301	1191292302	1191292305	1191292306
	HSS	4 LOBE	Bottoming	H4	RH	1191292400	1191292401	1191292402	1191292405	1191292406
	HSS	4 LOBE	Plug	H6	RH	1191292500	1191292501	1191292502	1191292505	1191292506
	HSS	4 LOBE	Bottoming	H6	RH	1191292600	1191292601	1191292602	1191292605	1191292606
	HSS	4 LOBE	Plug	H10	RH	1191292700	1191292701	1191292702	1191292705	1191292706
	HSS	4 LOBE	Bottoming	H10	RH	1191292800	1191292801	1191292802	1191292805	1191292806
<b>1/4"-32 UNEF</b>										
Spiral Point Tap										
	HSS	2	Plug	H3	RH	1191137800	1191137801	1191137802	1191137805	1191137806
Straight Flute Hand Tap										
	HSS	4	Taper	H3	RH	1191137500	1191137501	1191137502	1191137505	1191137506
	HSS	4	Plug	H3	RH	1191137600	1191137601	1191137602	1191137605	1191137606
	HSS	4	Bottoming	H3	RH	1191137700	1191137701	1191137702	1191137705	1191137706
	HSS	4	Taper	H5	RH	1191137900	1191137901	1191137902	1191137905	1191137906
	HSS	4	Plug	H5	RH	1191138000	1191138001	1191138002	1191138005	1191138006
	HSS	4	Bottoming	H5	RH	1191138100	1191138101	1191138102	1191138105	1191138106
	HSS	4	Taper	H3	LH	1191267100	1191267101	1191267102	1191267105	1191267106
	HSS	4	Plug	H3	LH	1191267200	1191267201	1191267202	1191267205	1191267206
	HSS	4	Bottoming	H3	LH	1191267300	1191267301	1191267302	1191267305	1191267306

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>1/4"-36 UNS</b>										
Spiral Point Tap										
	HSS	2	Plug	H2	RH	1191138200	1191138201	1191138202	1191138205	1191138206
	HSS	2	Plug	H3	RH	1191254200	1191254201	1191254202	1191254205	1191254206
Straight Flute Hand Tap										
	HSS	4	Taper	H2	RH	1191138300	1191138301	1191138302	1191138305	1191138306
	HSS	4	Plug	H2	RH	1191138400	1191138401	1191138402	1191138405	1191138406
	HSS	4	Bottoming	H2	RH	1191138500	1191138501	1191138502	1191138505	1191138506
	HSS	4	Taper	H3	RH	1191265900	1191265901	1191265902	1191265905	1191265906
	HSS	4	Plug	H3	RH	1191266000	1191266001	1191266002	1191266005	1191266006
	HSS	4	Bottoming	H3	RH	1191266100	1191266101	1191266102	1191266105	1191266106
<b>1/4"-40 UNS</b>										
Spiral Point Tap										
	HSS	2	Plug	H2	RH	1191254300	1191254301	1191254302	1191254305	1191254306
Straight Flute Hand Tap										
	HSS	4	Taper	H2	RH	1191138600	1191138601	1191138602	1191138605	1191138606
	HSS	4	Plug	H2	RH	1191138700	1191138701	1191138702	1191138705	1191138706
	HSS	4	Bottoming	H2	RH	1191138800	1191138801	1191138802	1191138805	1191138806
	HSS	4	Taper	H3	RH	1191138900	1191138901	1191138902	1191138905	1191138906
	HSS	4	Plug	H3	RH	1191139000	1191139001	1191139002	1191139005	1191139006
	HSS	4	Bottoming	H3	RH	1191139100	1191139101	1191139102	1191139105	1191139106
<b>1/4"-48 UNS</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H2	RH	1191139200	1191139201	1191139202	1191139205	1191139206
	HSS	4	Plug	H2	RH	1191139300	1191139301	1191139302	1191139305	1191139306
	HSS	4	Bottoming	H2	RH	1191139400	1191139401	1191139402	1191139405	1191139406
<b>1/4"-56 UNS</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H2	RH	1191139500	1191139501	1191139502	1191139505	1191139506
	HSS	4	Plug	H2	RH	1191139600	1191139601	1191139602	1191139605	1191139606
	HSS	4	Bottoming	H2	RH	1191139700	1191139701	1191139702	1191139705	1191139706
<b>1/4"-80 UNS</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H2	RH	1191139800	1191139801	1191139802	1191139805	1191139806
	HSS	4	Plug	H2	RH	1191139900	1191139901	1191139902	1191139905	1191139906
	HSS	4	Bottoming	H2	RH	1191140000	1191140001	1191140002	1191140005	1191140006
<b>9/32"-32 UNS</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H3	RH	1191255500	1191255501	1191255502	1191255505	1191255506
	HSS	4	Plug	H3	RH	1191255600	1191255601	1191255602	1191255605	1191255606
	HSS	4	Bottoming	H3	RH	1191255700	1191255701	1191255702	1191255705	1191255706





# Fast Tap



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Inch Sizes

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>5/16"-18 UNC</b>										
Spiral Point Tap										
	HSS	2	Plug	H7	RH	1191140500	1191140501	1191140502	1191140505	1191140506
Plus 5	HSS	2	Plug	H11	RH	1191140900	1191140901	1191140902	1191140905	1191140906
STI	HSS	3	Plug	H3	RH	1191272300	1191272301	1191272302	1191272305	1191272306
STI	HSS	3	Plug	H4	RH	1191272600	1191272601	1191272602	1191272605	1191272606
4" Ext	HSS	2	Plug	H3	RH	1191255300	1191255301	1191255302	1191255305	1191255306
4" Ext - Sm. Shank	HSS	2	Plug	H3	RH	1191280400	1191280401	1191280402	1191280405	1191280406
6" Ext	HSS	2	Plug	H3	RH	1191141900	1191141901	1191141902	1191141905	1191141906
6" Ext - Sm. Shank	HSS	2	Plug	H3	RH	1191256400	1191256401	1191256402	1191256405	1191256406
	HSS	2	Plug	H3	LH	1191140100	1191140101	1191140102	1191140105	1191140106
	Carbide	2	Plug	H3	RH	1191369200	NA	NA	1191369205	1191369206
Straight Flute Hand Tap										
	HSS	4	Taper	H7	RH	1191140600	1191140601	1191140602	1191140605	1191140606
	HSS	4	Plug	H7	RH	1191140700	1191140701	1191140702	1191140705	1191140706
	HSS	4	Bottoming	H7	RH	1191140800	1191140801	1191140802	1191140805	1191140806
Plus 5	HSS	4	Taper	H11	RH	1191141000	1191141001	1191141002	1191141005	1191141006
Plus 5	HSS	4	Plug	H11	RH	1191141100	1191141101	1191141102	1191141105	1191141106
Plus 5	HSS	4	Bottoming	H11	RH	1191141200	1191141201	1191141202	1191141205	1191141206
Plus 10	HSS	4	Taper	H21	RH	1191141300	1191141301	1191141302	1191141305	1191141306
Plus 10	HSS	4	Plug	H21	RH	1191141400	1191141401	1191141402	1191141405	1191141406
Plus 10	HSS	4	Bottoming	H21	RH	1191141500	1191141501	1191141502	1191141505	1191141506
DbI Lead	HSS	4	Taper	H3	RH	1191141600	1191141601	1191141602	1191141605	1191141606
DbI Lead	HSS	4	Plug	H3	RH	1191141700	1191141701	1191141702	1191141705	1191141706
DbI Lead	HSS	4	Bottoming	H3	RH	1191141800	1191141801	1191141802	1191141805	1191141806
STI	HSS	4	Plug	H3	RH	1191272100	1191272101	1191272102	1191272105	1191272106
STI	HSS	4	Bottoming	H3	RH	1191272200	1191272201	1191272202	1191272205	1191272206
STI	HSS	4	Plug	H4	RH	1191272400	1191272401	1191272402	1191272405	1191272406
STI	HSS	4	Bottoming	H4	RH	1191272500	1191272501	1191272502	1191272505	1191272506
	HSS	4	Taper	H3	LH	1191140200	1191140201	1191140202	1191140205	1191140206
	HSS	4	Plug	H3	LH	1191140300	1191140301	1191140302	1191140305	1191140306
	HSS	4	Bottoming	H3	LH	1191140400	1191140401	1191140402	1191140405	1191140406
6" Ext	HSS	4	Taper	H3	RH	1191142000	1191142001	1191142002	1191142005	1191142006
6" Ext	HSS	4	Plug	H3	RH	1191142100	1191142101	1191142102	1191142105	1191142106
6" Ext	HSS	4	Bottoming	H3	RH	1191142200	1191142201	1191142202	1191142205	1191142206
6" Ext - Sm. Shank	HSS	4	Plug	H3	RH	1191256200	1191256201	1191256202	1191256205	1191256206
6" Ext - Sm. Shank	HSS	4	Bottoming	H3	RH	1191256300	1191256301	1191256302	1191256305	1191256306
8" Ext	HSS	4	Taper	H3	RH	1191142300	1191142301	1191142302	1191142305	1191142306
8" Ext	HSS	4	Plug	H3	RH	1191142400	1191142401	1191142402	1191142405	1191142406
8" Ext	HSS	4	Bottoming	H3	RH	1191142500	1191142501	1191142502	1191142505	1191142506
	Carbide	4	Plug	H3	RH	1191369300	NA	NA	1191369305	1191369306
	Carbide	4	Bottoming	H3	RH	1191369400	NA	NA	1191369405	1191369406
Thread Forming Tap										
	HSS	4 LOBE	Plug	H5	RH	1191292900	1191292901	1191292902	1191292905	1191292906
	HSS	4 LOBE	Bottoming	H5	RH	1191293000	1191293001	1191293002	1191293005	1191293006
	HSS	4 LOBE	Plug	H7	RH	1191293100	1191293101	1191293102	1191293105	1191293106
	HSS	4 LOBE	Bottoming	H7	RH	1191293200	1191293201	1191293202	1191293205	1191293206
	HSS	4 LOBE	Plug	H10	RH	1191293300	1191293301	1191293302	1191293305	1191293306
	HSS	4 LOBE	Bottoming	H10	RH	1191293400	1191293401	1191293402	1191293405	1191293406

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>5/16"-18 BSW -</b>										
British Standard Whitworth										
55 MOD	HSS	4	Taper	H3	RH	1191257200	1191257201	1191257202	1191257205	1191257206
55 MOD	HSS	4	Plug	H3	RH	1191257300	1191257301	1191257302	1191257305	1191257306
55 MOD	HSS	4	Bottoming	H3	RH	1191257400	1191257401	1191257402	1191257405	1191257406
<b>5/16"-20 UNS</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H3	RH	1191142600	1191142601	1191142602	1191142605	1191142606
	HSS	4	Plug	H3	RH	1191142700	1191142701	1191142702	1191142705	1191142706
	HSS	4	Bottoming	H3	RH	1191142800	1191142801	1191142802	1191142805	1191142806
<b>5/16"-22 BSF</b>										
British Standard Fine										
	HSS	4	Taper	H3	RH	1191142900	1191142901	1191142902	1191142905	1191142906
	HSS	4	Plug	H3	RH	1191143000	1191143001	1191143002	1191143005	1191143006
	HSS	4	Bottoming	H3	RH	1191143100	1191143101	1191143102	1191143105	1191143106
<b>5/16"-24 UNF</b>										
Spiral Point Tap										
	HSS	2	Plug	H5	RH	1191264500	1191264501	1191264502	1191264505	1191264506
Plus 5	HSS	2	Plug	H11	RH	1191143600	1191143601	1191143602	1191143605	1191143606
STI	HSS	3	Plug	H2	RH	1191272900	1191272901	1191272902	1191272905	1191272906
STI	HSS	3	Plug	H3	RH	1191273200	1191273201	1191273202	1191273205	1191273206
	HSS	2	Plug	H3	LH	1191143200	1191143201	1191143202	1191143205	1191143206
4" Ext - Sm. Shank	HSS	2	Plug	H3	RH	1191280500	1191280501	1191280502	1191280505	1191280506
6" Ext	HSS	2	Plug	H3	RH	1191144000	1191144001	1191144002	1191144005	1191144006
6" Ext - Sm. Shank	HSS	2	Plug	H3	RH	1191256500	1191256501	1191256502	1191256505	1191256506
	Carbide	2	Plug	H3	RH	1191369500	NA	NA	1191369505	1191369506
Straight Flute Hand Tap										
	HSS	4	Taper	H5	RH	1191258600	1191258601	1191258602	1191258605	1191258606
	HSS	4	Plug	H5	RH	1191258700	1191258701	1191258702	1191258705	1191258706
	HSS	4	Bottoming	H5	RH	1191258800	1191258801	1191258802	1191258805	1191258806
	HSS	4	Taper	H6	RH	1191262600	1191262601	1191262602	1191262605	1191262606
	HSS	4	Plug	H6	RH	1191262700	1191262701	1191262702	1191262705	1191262706
	HSS	4	Bottoming	H6	RH	1191262800	1191262801	1191262802	1191262805	1191262806
Plus 5	HSS	4	Taper	H11	RH	1191143700	1191143701	1191143702	1191143705	1191143706
Plus 5	HSS	4	Plug	H11	RH	1191143800	1191143801	1191143802	1191143805	1191143806
Plus 5	HSS	4	Bottoming	H11	RH	1191143900	1191143901	1191143902	1191143905	1191143906
STI	HSS	4	Plug	H2	RH	1191272700	1191272701	1191272702	1191272705	1191272706
STI	HSS	4	Bottoming	H2	RH	1191272800	1191272801	1191272802	1191272805	1191272806
STI	HSS	4	Plug	H3	RH	1191273000	1191273001	1191273002	1191273005	1191273006
STI	HSS	4	Bottoming	H3	RH	1191273100	1191273101	1191273102	1191273105	1191273106
	HSS	4	Taper	H3	LH	1191143300	1191143301	1191143302	1191143305	1191143306
	HSS	4	Plug	H3	LH	1191143400	1191143401	1191143402	1191143405	1191143406
	HSS	4	Bottoming	H3	LH	1191143500	1191143501	1191143502	1191143505	1191143506
6" Ext	HSS	4	Taper	H3	RH	1191144100	1191144101	1191144102	1191144105	1191144106
6" Ext	HSS	4	Plug	H3	RH	1191144200	1191144201	1191144202	1191144205	1191144206
6" Ext	HSS	4	Bottoming	H3	RH	1191144300	1191144301	1191144302	1191144305	1191144306
	Carbide	4	Plug	H3	RH	1191369600	NA	NA	1191369605	1191369606
	Carbide	4	Bottoming	H3	RH	1191369700	NA	NA	1191369705	1191369706
Thread Forming Tap	Continued on the next page									

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>5/16"-24 UNF (Continued)</b>										
Thread Forming Tap										
	HSS	4 LOBE	Plug	H5	RH	1191293500	1191293501	1191293502	1191293505	1191293506
	HSS	4 LOBE	Bottoming	H5	RH	1191293600	1191293601	1191293602	1191293605	1191293606
	HSS	4 LOBE	Plug	H7	RH	1191293700	1191293701	1191293702	1191293705	1191293706
	HSS	4 LOBE	Bottoming	H7	RH	1191293800	1191293801	1191293802	1191293805	1191293806
	HSS	4 LOBE	Plug	H10	RH	1191293900	1191293901	1191293902	1191293905	1191293906
	HSS	4 LOBE	Bottoming	H10	RH	1191294000	1191294001	1191294002	1191294005	1191294006
<b>5/16"-27 UNS</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H3	RH	1191144400	1191144401	1191144402	1191144405	1191144406
	HSS	4	Plug	H3	RH	1191144500	1191144501	1191144502	1191144505	1191144506
	HSS	4	Bottoming	H3	RH	1191144600	1191144601	1191144602	1191144605	1191144606
<b>5/16"-28 UN</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H3	RH	1191144700	1191144701	1191144702	1191144705	1191144706
	HSS	4	Plug	H3	RH	1191144800	1191144801	1191144802	1191144805	1191144806
	HSS	4	Bottoming	H3	RH	1191144900	1191144901	1191144902	1191144905	1191144906
<b>5/16"-32 UNEF</b>										
Spiral Point Tap										
	HSS	2	Plug	H3	RH	1191145000	1191145001	1191145002	1191145005	1191145006
Straight Flute Hand Tap										
	HSS	4	Taper	H3	RH	1191145100	1191145101	1191145102	1191145105	1191145106
	HSS	4	Plug	H3	RH	1191145200	1191145201	1191145202	1191145205	1191145206
	HSS	4	Bottoming	H3	RH	1191145300	1191145301	1191145302	1191145305	1191145306
	HSS	4	Taper	H5	RH	1191145400	1191145401	1191145402	1191145405	1191145406
	HSS	4	Plug	H5	RH	1191145500	1191145501	1191145502	1191145505	1191145506
	HSS	4	Bottoming	H5	RH	1191145600	1191145601	1191145602	1191145605	1191145606
<b>5/16"-40 UNS</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H2	RH	1191145700	1191145701	1191145702	1191145705	1191145706
	HSS	4	Plug	H2	RH	1191145800	1191145801	1191145802	1191145805	1191145806
	HSS	4	Bottoming	H2	RH	1191145900	1191145901	1191145902	1191145905	1191145906
<b>11/32"-32 UNS</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H3	RH	1191146000	1191146001	1191146002	1191146005	1191146006
	HSS	4	Plug	H3	RH	1191146100	1191146101	1191146102	1191146105	1191146106
	HSS	4	Bottoming	H3	RH	1191146200	1191146201	1191146202	1191146205	1191146206
<b>3/8"-12 ACME</b>										
Tandem Acme										
	HSS	4	None		RH	1191146300	1191146301	1191146302	1191146305	1191146306

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>3/8"-16 UNC</b>										
Spiral Point Tap										
	HSS	2	Plug	H3	RH	1191264600	1191264601	1191264602	1191264605	1191264606
	HSS	3	Plug	H7	RH	1191147100	1191147101	1191147102	1191147105	1191147106
Plus 5	HSS	3	Plug	H11	RH	1191147500	1191147501	1191147502	1191147505	1191147506
STI	HSS	3	Plug	H3	RH	1191273500	1191273501	1191273502	1191273505	1191273506
STI	HSS	3	Plug	H4	RH	1191273800	1191273801	1191273802	1191273805	1191273806
	HSS	3	Plug	H3	LH	1191146400	1191146401	1191146402	1191146405	1191146406
4" Ext	HSS	3	Plug	H3	RH	1191255400	1191255401	1191255402	1191255405	1191255406
4" Ext - Sm. Shank	HSS	3	Plug	H3	RH	1191280600	1191280601	1191280602	1191280605	1191280606
6" Ext	HSS	3	Plug	H3	RH	1191148500	1191148501	1191148502	1191148505	1191148506
6" Ext	HSS	3	Plug	H5	RH	1191260000	1191260001	1191260002	1191260005	1191260006
6" Ext - Sm. Shank	HSS	3	Plug	H3	RH	1191149500	1191149501	1191149502	1191149505	1191149506
	Carbide	3	Plug	H3	RH	1191369800	NA	NA	1191369805	1191369806
Straight Flute Hand Tap										
	HSS	4	Taper	H3	RH	1191146800	1191146801	1191146802	1191146805	1191146806
	HSS	4	Plug	H3	RH	1191146900	1191146901	1191146902	1191146905	1191146906
	HSS	4	Bottoming	H3	RH	1191147000	1191147001	1191147002	1191147005	1191147006
	HSS	4	Taper	H7	RH	1191147200	1191147201	1191147202	1191147205	1191147206
	HSS	4	Plug	H7	RH	1191147300	1191147301	1191147302	1191147305	1191147306
	HSS	4	Bottoming	H7	RH	1191147400	1191147401	1191147402	1191147405	1191147406
Plus 5	HSS	4	Taper	H11	RH	1191147600	1191147601	1191147602	1191147605	1191147606
Plus 5	HSS	4	Plug	H11	RH	1191147700	1191147701	1191147702	1191147705	1191147706
Plus 5	HSS	4	Bottoming	H11	RH	1191147800	1191147801	1191147802	1191147805	1191147806
Plus 10	HSS	4	Taper	H21	RH	1191147900	1191147901	1191147902	1191147905	1191147906
Plus 10	HSS	4	Plug	H21	RH	1191148000	1191148001	1191148002	1191148005	1191148006
Plus 10	HSS	4	Bottoming	H21	RH	1191148100	1191148101	1191148102	1191148105	1191148106
STI	HSS	4	Plug	H3	RH	1191273300	1191273301	1191273302	1191273305	1191273306
STI	HSS	4	Bottoming	H3	RH	1191273400	1191273401	1191273402	1191273405	1191273406
STI	HSS	4	Plug	H4	RH	1191273600	1191273601	1191273602	1191273605	1191273606
STI	HSS	4	Bottoming	H4	RH	1191273700	1191273701	1191273702	1191273705	1191273706
DbL Lead	HSS	4	Taper	H3	RH	1191148200	1191148201	1191148202	1191148205	1191148206
DbL Lead	HSS	4	Plug	H3	RH	1191148300	1191148301	1191148302	1191148305	1191148306
DbL Lead	HSS	4	Bottoming	H3	RH	1191148400	1191148401	1191148402	1191148405	1191148406
	HSS	4	Taper	H3	LH	1191146500	1191146501	1191146502	1191146505	1191146506
	HSS	4	Plug	H3	LH	1191146600	1191146601	1191146602	1191146605	1191146606
	HSS	4	Bottoming	H3	LH	1191146700	1191146701	1191146702	1191146705	1191146706
6" Ext	HSS	4	Taper	H3	RH	1191148600	1191148601	1191148602	1191148605	1191148606
6" Ext	HSS	4	Plug	H3	RH	1191148700	1191148701	1191148702	1191148705	1191148706
6" Ext	HSS	4	Bottoming	H3	RH	1191148800	1191148801	1191148802	1191148805	1191148806
6" Ext	HSS	4	Taper	H5	RH	1191259300	1191259301	1191259302	1191259305	1191259306
6" Ext	HSS	4	Plug	H5	RH	1191259400	1191259401	1191259402	1191259405	1191259406
6" Ext	HSS	4	Bottoming	H5	RH	1191259500	1191259501	1191259502	1191259505	1191259506
6" Ext - Sm. Shank	HSS	4	Taper	H3	RH	1191149600	1191149601	1191149602	1191149605	1191149606
6" Ext - Sm. Shank	HSS	4	Plug	H3	RH	1191149700	1191149701	1191149702	1191149705	1191149706
6" Ext - Sm. Shank	HSS	4	Bottoming	H3	RH	1191149800	1191149801	1191149802	1191149805	1191149806
8" Ext	HSS	4	Taper	H3	RH	1191148900	1191148901	1191148902	1191148905	1191148906
8" Ext	HSS	4	Plug	H3	RH	1191149000	1191149001	1191149002	1191149005	1191149006
8" Ext	HSS	4	Bottoming	H3	RH	1191149100	1191149101	1191149102	1191149105	1191149106
Straight Flute Hand Tap	Continued on the next page									

Tap Style	Specifications					Surface Treatment					
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN	
<b>3/8"-16 UNC (Continued)</b>											
Straight Flute Hand Tap											
10" Ext	HSS	4	Taper	H3	RH	1191149200	1191149201	1191149202	1191149205	1191149206	
10" Ext	HSS	4	Plug	H3	RH	1191149300	1191149301	1191149302	1191149305	1191149306	
10" Ext	HSS	4	Bottoming	H3	RH	1191149400	1191149401	1191149402	1191149405	1191149406	
	Carbide	4	Plug	H3	RH	1191369900	NA	NA	1191369905	1191369906	
	Carbide	4	Bottoming	H3	RH	1191370000	NA	NA	1191370005	1191370006	
Spiral Flute Tap											
48°	HSS	3	Plug	H3	RH	1191276700	1191276701	1191276702	1191276705	1191276706	
48°	HSS	3	Bottoming	H3	RH	1191276800	1191276801	1191276802	1191276805	1191276806	
Thread Forming Tap											
	HSS	4 LOBE	Plug	H5	RH	1191294100	1191294101	1191294102	1191294105	1191294106	
	HSS	4 LOBE	Bottoming	H5	RH	1191294200	1191294201	1191294202	1191294205	1191294206	
	HSS	4 LOBE	Plug	H7	RH	1191294300	1191294301	1191294302	1191294305	1191294306	
	HSS	4 LOBE	Bottoming	H7	RH	1191294400	1191294401	1191294402	1191294405	1191294406	
	HSS	4 LOBE	Plug	H10	RH	1191294500	1191294501	1191294502	1191294505	1191294506	
	HSS	4 LOBE	Bottoming	H10	RH	1191294600	1191294601	1191294602	1191294605	1191294606	
<b>3/8"-18 UNS</b>											
Straight Flute Hand Tap											
	HSS	4	Taper	H3	RH	1191149900	1191149901	1191149902	1191149905	1191149906	
	HSS	4	Plug	H3	RH	1191150000	1191150001	1191150002	1191150005	1191150006	
	HSS	4	Bottoming	H3	RH	1191150100	1191150101	1191150102	1191150105	1191150106	
<b>3/8"-20 UN</b>											
Straight Flute Hand Tap											
	HSS	4	Taper	H3	RH	1191151200	1191151201	1191151202	1191151205	1191151206	
	HSS	4	Plug	H3	RH	1191151300	1191151301	1191151302	1191151305	1191151306	
	HSS	4	Bottoming	H3	RH	1191151400	1191151401	1191151402	1191151405	1191151406	
<b>3/8"-20 BSF - 55 MOD</b>											
British Standard Fine											
	HSS	4	Taper	H3	RH	1191257500	1191257501	1191257502	1191257505	1191257506	
	HSS	4	Plug	H3	RH	1191257600	1191257601	1191257602	1191257605	1191257606	
	HSS	4	Bottoming	H3	RH	1191257700	1191257701	1191257702	1191257705	1191257706	
<b>3/8"-24 UNF</b>											
Spiral Point Tap											
	HSS	3	Plug	H5	RH	1191151900	1191151901	1191151902	1191151905	1191151906	
	HSS	3	Plug	H7	RH	1191152300	1191152301	1191152302	1191152305	1191152306	
	Plus 5	HSS	3	Plug	H11	RH	1191152700	1191152701	1191152702	1191152705	1191152706
	STI	HSS	3	Plug	H2	RH	1191274100	1191274101	1191274102	1191274105	1191274106
	STI	HSS	3	Plug	H3	RH	1191274400	1191274401	1191274402	1191274405	1191274406
		HSS	3	Plug	H3	LH	1191151500	1191151501	1191151502	1191151505	1191151506
	4" Ext - Sm. Shank	HSS	3	Plug	H3	RH	1191280700	1191280701	1191280702	1191280705	1191280706
	6" Ext	HSS	3	Plug	H3	RH	1191153100	1191153101	1191153102	1191153105	1191153106
	Straight Flute Hand Tap										
	Continue next page										

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>3/8"-24 UNF (Continued)</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H5	RH	1191152000	1191152001	1191152002	1191152005	1191152006
	HSS	4	Plug	H5	RH	1191152100	1191152101	1191152102	1191152105	1191152106
	HSS	4	Bottoming	H5	RH	1191152200	1191152201	1191152202	1191152205	1191152206
	HSS	4	Taper	H7	RH	1191152400	1191152401	1191152402	1191152405	1191152406
	HSS	4	Plug	H7	RH	1191152500	1191152501	1191152502	1191152505	1191152506
	HSS	4	Bottoming	H7	RH	1191152600	1191152601	1191152602	1191152605	1191152606
	HSS	4	Plug	H8	RH	1191276900	1191276901	1191276902	1191276905	1191276906
	HSS	4	Bottoming	H8	RH	1191277000	1191277001	1191277002	1191277005	1191277006
Plus 5	HSS	4	Taper	H11	RH	1191152800	1191152801	1191152802	1191152805	1191152806
Plus 5	HSS	4	Plug	H11	RH	1191152900	1191152901	1191152902	1191152905	1191152906
Plus 5	HSS	4	Bottoming	H11	RH	1191153000	1191153001	1191153002	1191153005	1191153006
STI	HSS	4	Plug	H2	RH	1191273900	1191273901	1191273902	1191273905	1191273906
STI	HSS	4	Bottoming	H2	RH	1191274000	1191274001	1191274002	1191274005	1191274006
STI	HSS	4	Plug	H3	RH	1191274200	1191274201	1191274202	1191274205	1191274206
STI	HSS	4	Bottoming	H3	RH	1191274300	1191274301	1191274302	1191274305	1191274306
	HSS	4	Taper	H3	LH	1191151600	1191151601	1191151602	1191151605	1191151606
	HSS	4	Plug	H3	LH	1191151700	1191151701	1191151702	1191151705	1191151706
	HSS	4	Bottoming	H3	LH	1191151800	1191151801	1191151802	1191151805	1191151806
6" Ext	HSS	4	Taper	H3	RH	1191153200	1191153201	1191153202	1191153205	1191153206
6" Ext	HSS	4	Plug	H3	RH	1191153300	1191153301	1191153302	1191153305	1191153306
6" Ext	HSS	4	Bottoming	H3	RH	1191153400	1191153401	1191153402	1191153405	1191153406
	Carbide	4	Plug	H3	RH	1191370100	NA	NA	1191370105	1191370106
	Carbide	4	Bottoming	H3	RH	1191370200	NA	NA	1191370205	1191370206
Spiral Flute Tap										
30°	HSS	3	Plug	H5	RH	1191263600	1191263601	1191263602	1191263605	1191263606
30°	HSS	3	Bottoming	H5	RH	1191263700	1191263701	1191263702	1191263705	1191263706
Thread Forming Tap										
	HSS	4 LOBE	Plug	H5	RH	1191294700	1191294701	1191294702	1191294705	1191294706
	HSS	4 LOBE	Bottoming	H5	RH	1191294800	1191294801	1191294802	1191294805	1191294806
	HSS	4 LOBE	Plug	H7	RH	1191294900	1191294901	1191294902	1191294905	1191294906
	HSS	4 LOBE	Bottoming	H7	RH	1191295000	1191295001	1191295002	1191295005	1191295006
	HSS	4 LOBE	Plug	H10	RH	1191295100	1191295101	1191295102	1191295105	1191295106
	HSS	4 LOBE	Bottoming	H10	RH	1191295200	1191295201	1191295202	1191295205	1191295206
<b>3/8"-27 UNS</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H3	RH	1191153500	1191153501	1191153502	1191153505	1191153506
	HSS	4	Plug	H3	RH	1191153600	1191153601	1191153602	1191153605	1191153606
	HSS	4	Bottoming	H3	RH	1191153700	1191153701	1191153702	1191153705	1191153706
<b>3/8"-28 UN</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H3	RH	1191153800	1191153801	1191153802	1191153805	1191153806
	HSS	4	Plug	H3	RH	1191153900	1191153901	1191153902	1191153905	1191153906
	HSS	4	Bottoming	H3	RH	1191154000	1191154001	1191154002	1191154005	1191154006

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>3/8"-32 UNEF</b>										
Spiral Point Tap										
	HSS	3	Plug	H3	RH	1191154100	1191154101	1191154102	1191154105	1191154106
Straight Flute Hand Tap										
	HSS	4	Taper	H3	RH	1191154200	1191154201	1191154202	1191154205	1191154206
	HSS	4	Plug	H3	RH	1191154300	1191154301	1191154302	1191154305	1191154306
	HSS	4	Bottoming	H3	RH	1191154400	1191154401	1191154402	1191154405	1191154406
	HSS	4	Taper	H5	RH	1191154500	1191154501	1191154502	1191154505	1191154506
	HSS	4	Plug	H5	RH	1191154600	1191154601	1191154602	1191154605	1191154606
	HSS	4	Bottoming	H5	RH	1191154700	1191154701	1191154702	1191154705	1191154706
<b>3/8"-40 UNS</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H2	RH	1191154800	1191154801	1191154802	1191154805	1191154806
	HSS	4	Plug	H2	RH	1191154900	1191154901	1191154902	1191154905	1191154906
	HSS	4	Bottoming	H2	RH	1191155000	1191155001	1191155002	1191155005	1191155006
	HSS	4	Taper	H3	RH	1191256600	1191256601	1191256602	1191256605	1191256606
	HSS	4	Plug	H3	RH	1191256700	1191256701	1191256702	1191256705	1191256706
	HSS	4	Bottoming	H3	RH	1191256800	1191256801	1191256802	1191256805	1191256806
<b>3/8"-48 UNS</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H2	RH	1191155100	1191155101	1191155102	1191155105	1191155106
	HSS	4	Plug	H2	RH	1191155200	1191155201	1191155202	1191155205	1191155206
	HSS	4	Bottoming	H2	RH	1191155300	1191155301	1191155302	1191155305	1191155306
<b>13/32"-32 UNS</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H3	RH	1191155400	1191155401	1191155402	1191155405	1191155406
	HSS	4	Plug	H3	RH	1191155500	1191155501	1191155502	1191155505	1191155506
	HSS	4	Bottoming	H3	RH	1191155600	1191155601	1191155602	1191155605	1191155606
<b>7/16"-14 UNC</b>										
Spiral Point Tap										
	HSS	3	Plug	H3	LH	1191155700	1191155701	1191155702	1191155705	1191155706
Plus 5	HSS	3	Plug	H11	RH	1191156100	1191156101	1191156102	1191156105	1191156106
STI	HSS	3	Plug	H3	RH	1191274700	1191274701	1191274702	1191274705	1191274706
6" Ext	HSS	3	Plug	H3	RH	1191156800	1191156801	1191156802	1191156805	1191156806
	Carbide	3	Plug	H3	RH	1191370500	NA	NA	1191370505	1191370506
Straight Flute Hand Tap										
Plus 5	HSS	4	Taper	H11	RH	1191156200	1191156201	1191156202	1191156205	1191156206
Plus 5	HSS	4	Plug	H11	RH	1191156300	1191156301	1191156302	1191156305	1191156306
Plus 5	HSS	4	Bottoming	H11	RH	1191156400	1191156401	1191156402	1191156405	1191156406
Plus 10	HSS	4	Taper	H21	RH	1191156500	1191156501	1191156502	1191156505	1191156506
Plus 10	HSS	4	Plug	H21	RH	1191156600	1191156601	1191156602	1191156605	1191156606
Plus 10	HSS	4	Bottoming	H21	RH	1191156700	1191156701	1191156702	1191156705	1191156706
STI	HSS	4	Plug	H3	RH	1191274500	1191274501	1191274502	1191274505	1191274506
STI	HSS	4	Bottoming	H3	RH	1191274600	1191274601	1191274602	1191274605	1191274606
	HSS	4	Taper	H3	LH	1191155800	1191155801	1191155802	1191155805	1191155806
	HSS	4	Plug	H3	LH	1191155900	1191155901	1191155902	1191155905	1191155906
	HSS	4	Bottoming	H3	LH	1191156000	1191156001	1191156002	1191156005	1191156006
Straight Flute Hand Tap										
Continue next page										

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>7/16"-14 UNC (Continued)</b>										
Straight Flute Hand Tap										
6" Ext	HSS	4	Taper	H3	RH	1191156900	1191156901	1191156902	1191156905	1191156906
6" Ext	HSS	4	Plug	H3	RH	1191157000	1191157001	1191157002	1191157005	1191157006
6" Ext	HSS	4	Bottoming	H3	RH	1191157100	1191157101	1191157102	1191157105	1191157106
	Carbide	4	Plug	H3	RH	1191370300	NA	NA	1191370305	1191370306
	Carbide	4	Bottoming	H3	RH	1191370400	NA	NA	1191370405	1191370406
Thread Forming Tap										
	HSS	4 LOBE	Plug	H5	RH	1191295300	1191295301	1191295302	1191295305	1191295306
	HSS	4 LOBE	Bottoming	H5	RH	1191295400	1191295401	1191295402	1191295405	1191295406
	HSS	4 LOBE	Plug	H8	RH	1191295500	1191295501	1191295502	1191295505	1191295506
	HSS	4 LOBE	Bottoming	H8	RH	1191295600	1191295601	1191295602	1191295605	1191295606
<b>7/16"-16 UN</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H3	RH	1191157200	1191157201	1191157202	1191157205	1191157206
	HSS	4	Plug	H3	RH	1191157300	1191157301	1191157302	1191157305	1191157306
	HSS	4	Bottoming	H3	RH	1191157400	1191157401	1191157402	1191157405	1191157406
<b>7/16"-18 UNS</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H3	RH	1191157500	1191157501	1191157502	1191157505	1191157506
	HSS	4	Plug	H3	RH	1191157600	1191157601	1191157602	1191157605	1191157606
	HSS	4	Bottoming	H3	RH	1191157700	1191157701	1191157702	1191157705	1191157706
<b>7/16"-20 UNF</b>										
Spiral Point Tap										
Plus 5	HSS	3	Plug	H11	RH	1191158100	1191158101	1191158102	1191158105	1191158106
STI	HSS	3	Plug	H3	RH	1191275000	1191275001	1191275002	1191275005	1191275006
6" Ext	HSS	3	Plug	H3	RH	1191158800	1191158801	1191158802	1191158805	1191158806
	Carbide	3	Plug	H3	RH	1191370800	NA	NA	1191370805	1191370806
Straight Flute Hand Tap										
	HSS	4	Taper	H6	RH	1191264700	1191264701	1191264702	1191264705	1191264706
	HSS	4	Plug	H6	RH	1191264800	1191264801	1191264802	1191264805	1191264806
	HSS	4	Bottoming	H6	RH	1191264900	1191264901	1191264902	1191264905	1191264906
Plus 5	HSS	4	Taper	H11	RH	1191158200	1191158201	1191158202	1191158205	1191158206
Plus 5	HSS	4	Plug	H11	RH	1191158300	1191158301	1191158302	1191158305	1191158306
Plus 5	HSS	4	Bottoming	H11	RH	1191158400	1191158401	1191158402	1191158405	1191158406
STI	HSS	4	Plug	H3	RH	1191274800	1191274801	1191274802	1191274805	1191274806
STI	HSS	4	Bottoming	H3	RH	1191274900	1191274901	1191274902	1191274905	1191274906
	HSS	4	Taper	H3	LH	1191157800	1191157801	1191157802	1191157805	1191157806
	HSS	4	Plug	H3	LH	1191157900	1191157901	1191157902	1191157905	1191157906
	HSS	4	Bottoming	H3	LH	1191158000	1191158001	1191158002	1191158005	1191158006
6" Ext	HSS	4	Plug	H3	RH	1191159000	1191159001	1191159002	1191159005	1191159006
6" Ext	HSS	4	Taper	H3	RH	1191158900	1191158901	1191158902	1191158905	1191158906
6" Ext	HSS	4	Bottoming	H3	RH	1191159100	1191159101	1191159102	1191159105	1191159106
6" Ext - Pulley	HSS	4	Taper	H3	RH	1191158500	1191158501	1191158502	1191158505	1191158506
6" Ext - Pulley	HSS	4	Plug	H3	RH	1191158600	1191158601	1191158602	1191158605	1191158606
6" Ext - Pulley	HSS	4	Bottoming	H3	RH	1191158700	1191158701	1191158702	1191158705	1191158706
	Carbide	4	Plug	H3	RH	1191370600	NA	NA	1191370605	1191370606
	Carbide	4	Bottoming	H3	RH	1191370700	NA	NA	1191370705	1191370706
Thread Forming Tap	Continue next page									



Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>7/16"-20 UNF (Continued)</b>										
Thread Forming Tap										
	HSS	4 LOBE	Plug	H5	RH	1191299100	1191299101	1191299102	1191299105	1191299106
	HSS	4 LOBE	Bottoming	H5	RH	1191299200	1191299201	1191299202	1191299205	1191299206
	HSS	4 LOBE	Plug	H8	RH	1191299300	1191299301	1191299302	1191299305	1191299306
	HSS	4 LOBE	Bottoming	H8	RH	1191299400	1191299401	1191299402	1191299405	1191299406
	HSS	4 LOBE	Plug	H10	RH	1191299500	1191299501	1191299502	1191299505	1191299506
	HSS	4 LOBE	Bottoming	H10	RH	1191299600	1191299601	1191299602	1191299605	1191299606
<b>7/16"-24 UNF</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H3	RH	1191159200	1191159201	1191159202	1191159205	1191159206
	HSS	4	Plug	H3	RH	1191159300	1191159301	1191159302	1191159305	1191159306
	HSS	4	Bottoming	H3	RH	1191159400	1191159401	1191159402	1191159405	1191159406
	HSS	4	Taper	H5	RH	1191159500	1191159501	1191159502	1191159505	1191159506
	HSS	4	Plug	H5	RH	1191159600	1191159601	1191159602	1191159605	1191159606
	HSS	4	Bottoming	H5	RH	1191159700	1191159701	1191159702	1191159705	1191159706
<b>7/16"-27 UNS</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H3	RH	1191159800	1191159801	1191159802	1191159805	1191159806
	HSS	4	Plug	H3	RH	1191159900	1191159901	1191159902	1191159905	1191159906
	HSS	4	Bottoming	H3	RH	1191160000	1191160001	1191160002	1191160005	1191160006
<b>7/16"-28 NEF</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H3	RH	1191160100	1191160101	1191160102	1191160105	1191160106
	HSS	4	Plug	H3	RH	1191160200	1191160201	1191160202	1191160205	1191160206
	HSS	4	Bottoming	H3	RH	1191160300	1191160301	1191160302	1191160305	1191160306
Straight Flute Hand Tap										
	HSS	4	Taper	H5	RH	1191160400	1191160401	1191160402	1191160405	1191160406
	HSS	4	Plug	H5	RH	1191160500	1191160501	1191160502	1191160505	1191160506
	HSS	4	Bottoming	H5	RH	1191160600	1191160601	1191160602	1191160605	1191160606
<b>7/16"-32 UN</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H3	RH	1191160700	1191160701	1191160702	1191160705	1191160706
	HSS	4	Plug	H3	RH	1191160800	1191160801	1191160802	1191160805	1191160806
	HSS	4	Bottoming	H3	RH	1191160900	1191160901	1191160902	1191160905	1191160906
<b>7/16"-40 UNS</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H2	RH	1191161000	1191161001	1191161002	1191161005	1191161006
	HSS	4	Plug	H2	RH	1191161100	1191161101	1191161102	1191161105	1191161106
	HSS	4	Bottoming	H2	RH	1191161200	1191161201	1191161202	1191161205	1191161206
<b>15/32"-32 UNS</b>										
Spiral Point Tap										
	HSS	3	Plug	H3	RH	1191161300	1191161301	1191161302	1191161305	1191161306
Straight Flute Hand Tap										
	HSS	6	Taper	H3	RH	1191161400	1191161401	1191161402	1191161405	1191161406
	HSS	6	Plug	H3	RH	1191161500	1191161501	1191161502	1191161505	1191161506
	HSS	6	Bottoming	H3	RH	1191161600	1191161601	1191161602	1191161605	1191161606

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>1/2"-10 ACME</b>										
Acme										
	HSS	4	Taper		RH	1191161700	1191161701	1191161702	1191161705	1191161706
	HSS	4	Plug		RH	1191161800	1191161801	1191161802	1191161805	1191161806
	HSS	4	Taper		LH	1191161900	1191161901	1191161902	1191161905	1191161906
	HSS	4	Plug		LH	1191162000	1191162001	1191162002	1191162005	1191162006
Tandem Acme										
	HSS	4	None		RH	1191162100	1191162101	1191162102	1191162105	1191162106
	HSS	4	None		LH	1191162200	1191162201	1191162202	1191162205	1191162206
<b>1/2"-12 UNS</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H3	RH	1191162300	1191162301	1191162302	1191162305	1191162306
	HSS	4	Plug	H3	RH	1191162400	1191162401	1191162402	1191162405	1191162406
	HSS	4	Bottoming	H3	RH	1191162500	1191162501	1191162502	1191162505	1191162506
<b>1/2"-12 BSW</b>										
British Standard Whitworth										
55 MOD	HSS	4	Taper	H3	RH	1191162600	1191162601	1191162602	1191162605	1191162606
55 MOD	HSS	4	Plug	H3	RH	1191162700	1191162701	1191162702	1191162705	1191162706
55 MOD	HSS	4	Bottoming	H3	RH	1191162800	1191162801	1191162802	1191162805	1191162806
<b>1/2"-13 UNC</b>										
Spiral Point Tap										
Plus 5	HSS	3	Plug	H11	RH	1191163600	1191163601	1191163602	1191163605	1191163606
STI	HSS	3	Plug	H3	RH	1191275300	1191275301	1191275302	1191275305	1191275306
	HSS	3	Plug	H3	LH	1191162900	1191162901	1191162902	1191162905	1191162906
6" Ext	HSS	3	Plug	H3	RH	1191164600	1191164601	1191164602	1191164605	1191164606
	Carbide	3	Plug	H3	RH	1191371100	NA	NA	1191371105	1191371106
Straight Flute Hand Tap										
	HSS	4	Taper	H7	RH	1191163300	1191163301	1191163302	1191163305	1191163306
	HSS	4	Plug	H7	RH	1191163400	1191163401	1191163402	1191163405	1191163406
	HSS	4	Bottoming	H7	RH	1191163500	1191163501	1191163502	1191163505	1191163506
Plus 5	HSS	4	Taper	H11	RH	1191163700	1191163701	1191163702	1191163705	1191163706
Plus 5	HSS	4	Plug	H11	RH	1191163800	1191163801	1191163802	1191163805	1191163806
Plus 5	HSS	4	Bottoming	H11	RH	1191163900	1191163901	1191163902	1191163905	1191163906
Plus 10	HSS	4	Taper	H21	RH	1191164000	1191164001	1191164002	1191164005	1191164006
Plus 10	HSS	4	Plug	H21	RH	1191164100	1191164101	1191164102	1191164105	1191164106
Plus 10	HSS	4	Bottoming	H21	RH	1191164200	1191164201	1191164202	1191164205	1191164206
STI	HSS	4	Plug	H3	RH	1191275100	1191275101	1191275102	1191275105	1191275106
STI	HSS	4	Bottoming	H3	RH	1191275200	1191275201	1191275202	1191275205	1191275206
DbL Lead	HSS	4	Taper	H3	RH	1191164300	1191164301	1191164302	1191164305	1191164306
DbL Lead	HSS	4	Plug	H3	RH	1191164400	1191164401	1191164402	1191164405	1191164406
DbL Lead	HSS	4	Bottoming	H3	RH	1191164500	1191164501	1191164502	1191164505	1191164506
	HSS	4	Taper	H3	LH	1191163000	1191163001	1191163002	1191163005	1191163006
	HSS	4	Plug	H3	LH	1191163100	1191163101	1191163102	1191163105	1191163106
	HSS	4	Bottoming	H3	LH	1191163200	1191163201	1191163202	1191163205	1191163206
6" Ext	HSS	4	Taper	H3	RH	1191164700	1191164701	1191164702	1191164705	1191164706
6" Ext	HSS	4	Plug	H3	RH	1191164800	1191164801	1191164802	1191164805	1191164806
6" Ext	HSS	4	Bottoming	H3	RH	1191164900	1191164901	1191164902	1191164905	1191164906
Straight Flute Hand Tap	Continued on the next page									



# Fast Tap



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Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>1/2"-13 UNC (Continued)</b>										
Straight Flute Hand Tap										
8" Ext	HSS	4	Plug	H3	RH	1191280800	1191280801	1191280802	1191280805	1191280806
8" Ext	HSS	4	Bottoming	H3	RH	1191280900	1191280901	1191280902	1191280905	1191280906
10" Ext	HSS	4	Plug	H3	RH	1191281000	1191281001	1191281002	1191281005	1191281006
10" Ext	HSS	4	Bottoming	H3	RH	1191281100	1191281101	1191281102	1191281105	1191281106
12" Ext	HSS	4	Plug	H3	RH	1191281200	1191281201	1191281202	1191281205	1191281206
12" Ext	HSS	4	Bottoming	H3	RH	1191281300	1191281301	1191281302	1191281305	1191281306
	Carbide	4	Plug	H3	RH	1191370900	NA	NA	1191370905	1191370906
	Carbide	4	Bottoming	H3	RH	1191371000	NA	NA	1191371005	1191371006
Thread Forming Tap										
	HSS	4 LOBE	Plug	H5	RH	1191295700	1191295701	1191295702	1191295705	1191295706
	HSS	4 LOBE	Bottoming	H5	RH	1191295800	1191295801	1191295802	1191295805	1191295806
	HSS	4 LOBE	Plug	H8	RH	1191295900	1191295901	1191295902	1191295905	1191295906
	HSS	4 LOBE	Bottoming	H8	RH	1191296000	1191296001	1191296002	1191296005	1191296006
<b>1/2"-14 UNS</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H3	RH	1191166000	1191166001	1191166002	1191166005	1191166006
	HSS	4	Plug	H3	RH	1191166100	1191166101	1191166102	1191166105	1191166106
	HSS	4	Bottoming	H3	RH	1191166200	1191166201	1191166202	1191166205	1191166206
<b>1/2"-16 UN</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H3	RH	1191166300	1191166301	1191166302	1191166305	1191166306
	HSS	4	Plug	H3	RH	1191166400	1191166401	1191166402	1191166405	1191166406
	HSS	4	Bottoming	H3	RH	1191166500	1191166501	1191166502	1191166505	1191166506
<b>1/2"-18 UNS</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H3	RH	1191166600	1191166601	1191166602	1191166605	1191166606
	HSS	4	Plug	H3	RH	1191166700	1191166701	1191166702	1191166705	1191166706
	HSS	4	Bottoming	H3	RH	1191166800	1191166801	1191166802	1191166805	1191166806
<b>1/2"-20 UNF</b>										
Spiral Point Tap										
	HSS	3	Plug	H3	RH	1191168300	1191168301	1191168302	1191168305	1191168306
Plus 5	HSS	3	Plug	H11	RH	1191167600	1191167601	1191167602	1191167605	1191167606
STI	HSS	3	Plug	H3	RH	1191275600	1191275601	1191275602	1191275605	1191275606
	HSS	3	Plug	H3	LH	1191166900	1191166901	1191166902	1191166905	1191166906
	Carbide	3	Plug	H3	RH	1191371400	NA	NA	1191371405	1191371406
Straight Flute Hand Tap										
	HSS	4	Bottoming	H5	RH	1191257900	1191257901	1191257902	1191257905	1191257906
	HSS	4	Taper	H7	RH	1191167300	1191167301	1191167302	1191167305	1191167306
	HSS	4	Plug	H7	RH	1191167400	1191167401	1191167402	1191167405	1191167406
	HSS	4	Bottoming	H7	RH	1191167500	1191167501	1191167502	1191167505	1191167506
Plus 5	HSS	4	Taper	H11	RH	1191167700	1191167701	1191167702	1191167705	1191167706
Plus 5	HSS	4	Plug	H11	RH	1191167800	1191167801	1191167802	1191167805	1191167806
Plus 5	HSS	4	Bottoming	H11	RH	1191167900	1191167901	1191167902	1191167905	1191167906
STI	HSS	4	Plug	H3	RH	1191275400	1191275401	1191275402	1191275405	1191275406
STI	HSS	4	Bottoming	H3	RH	1191275500	1191275501	1191275502	1191275505	1191275506
	HSS	4	Taper	H3	LH	1191167000	1191167001	1191167002	1191167005	1191167006
	HSS	4	Plug	H3	LH	1191167100	1191167101	1191167102	1191167105	1191167106
Straight Flute Hand Tap										
Continue next page										

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>1/2"-20 UNF (Continued)</b>										
Straight Flute Hand Tap										
	HSS	4	Bottoming	H3	LH	1191167200	1191167201	1191167202	1191167205	1191167206
6" Ext	HSS	4	Taper	H3	RH	1191168400	1191168401	1191168402	1191168405	1191168406
6" Ext	HSS	4	Plug	H3	RH	1191168500	1191168501	1191168502	1191168505	1191168506
6" Ext	HSS	4	Bottoming	H3	RH	1191168600	1191168601	1191168602	1191168605	1191168606
6" Ext - Pulley	HSS	4	Taper	H3	RH	1191168000	1191168001	1191168002	1191168005	1191168006
6" Ext - Pulley	HSS	4	Plug	H3	RH	1191168100	1191168101	1191168102	1191168105	1191168106
6" Ext - Pulley	HSS	4	Bottoming	H3	RH	1191168200	1191168201	1191168202	1191168205	1191168206
	Carbide	4	Plug	H3	RH	1191371200	NA	NA	1191371205	1191371206
	Carbide	4	Bottoming	H3	RH	1191371300	NA	NA	1191371305	1191371306
Thread Forming Tap										
	HSS	4 LOBE	Plug	H5	RH	1191296100	1191296101	1191296102	1191296105	1191296106
	HSS	4 LOBE	Bottoming	H5	RH	1191296200	1191296201	1191296202	1191296205	1191296206
	HSS	4 LOBE	Plug	H8	RH	1191296300	1191296301	1191296302	1191296305	1191296306
	HSS	4 LOBE	Bottoming	H8	RH	1191296400	1191296401	1191296402	1191296405	1191296406
	HSS	4 LOBE	Plug	H10	RH	1191296500	1191296501	1191296502	1191296505	1191296506
	HSS	4 LOBE	Bottoming	H10	RH	1191296600	1191296601	1191296602	1191296605	1191296606
<b>1/2"-24 UNS</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H3	RH	1191168700	1191168701	1191168702	1191168705	1191168706
	HSS	4	Plug	H3	RH	1191168800	1191168801	1191168802	1191168805	1191168806
	HSS	4	Bottoming	H3	RH	1191168900	1191168901	1191168902	1191168905	1191168906
<b>1/2"-27 UNS</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H3	RH	1191169000	1191169001	1191169002	1191169005	1191169006
	HSS	4	Plug	H3	RH	1191169100	1191169101	1191169102	1191169105	1191169106
	HSS	4	Bottoming	H3	RH	1191169200	1191169201	1191169202	1191169205	1191169206
<b>1/2"-28 UNEF</b>										
Spiral Point Tap										
	HSS	3	Plug	H3	RH	1191169300	1191169301	1191169302	1191169305	1191169306
Straight Flute Hand Tap										
	HSS	4	Taper	H3	RH	1191169400	1191169401	1191169402	1191169405	1191169406
	HSS	4	Plug	H3	RH	1191169500	1191169501	1191169502	1191169505	1191169506
	HSS	4	Bottoming	H3	RH	1191169600	1191169601	1191169602	1191169605	1191169606
	HSS	4	Taper	H5	RH	1191169700	1191169701	1191169702	1191169705	1191169706
	HSS	4	Plug	H5	RH	1191169800	1191169801	1191169802	1191169805	1191169806
	HSS	4	Bottoming	H5	RH	1191169900	1191169901	1191169902	1191169905	1191169906
<b>1/2"-32 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H3	RH	1191170000	1191170001	1191170002	1191170005	1191170006
	HSS	6	Plug	H3	RH	1191170100	1191170101	1191170102	1191170105	1191170106
	HSS	6	Bottoming	H3	RH	1191170200	1191170201	1191170202	1191170205	1191170206
<b>1/2"-40 UNS</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H2	RH	1191170300	1191170301	1191170302	1191170305	1191170306
	HSS	6	Plug	H2	RH	1191170400	1191170401	1191170402	1191170405	1191170406
	HSS	6	Bottoming	H2	RH	1191170500	1191170501	1191170502	1191170505	1191170506



# Fast Tap



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Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>33/64"-13 UNS</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H3	RH	1191170600	1191170601	1191170602	1191170605	1191170606
	HSS	4	Plug	H3	RH	1191170700	1191170701	1191170702	1191170705	1191170706
	HSS	4	Bottoming	H3	RH	1191170800	1191170801	1191170802	1191170805	1191170806
<b>9/16"-12 UNC</b>										
Spiral Point Tap										
	HSS	3	Plug	H3	RH	1191284300	1191284301	1191284302	1191284305	1191284306
Straight Flute Hand Tap										
	HSS	4	Taper	H3	LH	1191170900	1191170901	1191170902	1191170905	1191170906
	HSS	4	Plug	H3	LH	1191171000	1191171001	1191171002	1191171005	1191171006
	HSS	4	Bottoming	H3	LH	1191171100	1191171101	1191171102	1191171105	1191171106
6" Ext	HSS	4	Plug	H3	RH	1191258900	1191258901	1191258902	1191258905	1191258906
6" Ext	HSS	4	Bottoming	H3	RH	1191259000	1191259001	1191259002	1191259005	1191259006
Thread Forming Tap										
	HSS	6 LOBE	Plug	H7	RH	1191296700	1191296701	1191296702	1191296705	1191296706
	HSS	6 LOBE	Bottoming	H7	RH	1191296800	1191296801	1191296802	1191296805	1191296806
	HSS	6 LOBE	Plug	H10	RH	1191296900	1191296901	1191296902	1191296905	1191296906
	HSS	6 LOBE	Bottoming	H10	RH	1191297000	1191297001	1191297002	1191297005	1191297006
<b>9/16"-16 UN</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H3	RH	1191171200	1191171201	1191171202	1191171205	1191171206
	HSS	4	Plug	H3	RH	1191171300	1191171301	1191171302	1191171305	1191171306
	HSS	4	Bottoming	H3	RH	1191171400	1191171401	1191171402	1191171405	1191171406
<b>9/16"-18 UNF</b>										
Spiral Point Tap										
	HSS	3	Plug	H3	RH	1191284400	1191284401	1191284402	1191284405	1191284406
	HSS	3	Plug	H5	RH	1191259100	1191259101	1191259102	1191259105	1191259106
Plus 5	HSS	3	Plug	H11	RH	1191171800	1191171801	1191171802	1191171805	1191171806
Straight Flute Hand Tap										
	HSS	4	Bottoming	H5	RH	1191266700	1191266701	1191266702	1191266705	1191266706
Plus 5	HSS	4	Taper	H11	RH	1191171900	1191171901	1191171902	1191171905	1191171906
Plus 5	HSS	4	Plug	H11	RH	1191172000	1191172001	1191172002	1191172005	1191172006
Plus 5	HSS	4	Bottoming	H11	RH	1191172100	1191172101	1191172102	1191172105	1191172106
	HSS	4	Taper	H3	LH	1191171500	1191171501	1191171502	1191171505	1191171506
	HSS	4	Plug	H3	LH	1191171600	1191171601	1191171602	1191171605	1191171606
	HSS	4	Bottoming	H3	LH	1191171700	1191171701	1191171702	1191171705	1191171706
6" Ext	HSS	4	Taper	H3	RH	1191172200	1191172201	1191172202	1191172205	1191172206
6" Ext	HSS	4	Plug	H3	RH	1191172300	1191172301	1191172302	1191172305	1191172306
6" Ext	HSS	4	Bottoming	H3	RH	1191172400	1191172401	1191172402	1191172405	1191172406
Thread Forming Tap										
	HSS	6 LOBE	Plug	H7	RH	1191297100	1191297101	1191297102	1191297105	1191297106
	HSS	6 LOBE	Bottoming	H7	RH	1191297200	1191297201	1191297202	1191297205	1191297206
	HSS	6 LOBE	Plug	H10	RH	1191297300	1191297301	1191297302	1191297305	1191297306
	HSS	6 LOBE	Bottoming	H10	RH	1191297400	1191297401	1191297402	1191297405	1191297406

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>9/16"-20 UN</b>										
Spiral Point Tap										
	HSS	3	Plug	H3	RH	1191172500	1191172501	1191172502	1191172505	1191172506
Straight Flute Hand Tap										
	HSS	4	Taper	H3	RH	1191172600	1191172601	1191172602	1191172605	1191172606
	HSS	4	Plug	H3	RH	1191172700	1191172701	1191172702	1191172705	1191172706
	HSS	4	Bottoming	H3	RH	1191172800	1191172801	1191172802	1191172805	1191172806
<b>9/16"-24 UNEF</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H3	RH	1191172900	1191172901	1191172902	1191172905	1191172906
	HSS	4	Plug	H3	RH	1191173000	1191173001	1191173002	1191173005	1191173006
	HSS	4	Bottoming	H3	RH	1191173100	1191173101	1191173102	1191173105	1191173106
	HSS	4	Taper	H5	RH	1191173200	1191173201	1191173202	1191173205	1191173206
	HSS	4	Plug	H5	RH	1191173300	1191173301	1191173302	1191173305	1191173306
	HSS	4	Bottoming	H5	RH	1191173400	1191173401	1191173402	1191173405	1191173406
<b>9/16"-27 UNS</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H3	RH	1191173500	1191173501	1191173502	1191173505	1191173506
	HSS	6	Plug	H3	RH	1191173600	1191173601	1191173602	1191173605	1191173606
	HSS	6	Bottoming	H3	RH	1191173700	1191173701	1191173702	1191173705	1191173706
<b>9/16"-32 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H3	RH	1191173800	1191173801	1191173802	1191173805	1191173806
	HSS	6	Plug	H3	RH	1191173900	1191173901	1191173902	1191173905	1191173906
	HSS	6	Bottoming	H3	RH	1191174000	1191174001	1191174002	1191174005	1191174006
<b>5/8"-8 ACME</b>										
Acme										
	HSS	4	Taper		RH	1191174100	1191174101	1191174102	1191174105	1191174106
	HSS	4	Plug		RH	1191174200	1191174201	1191174202	1191174205	1191174206
	HSS	4	Taper		LH	1191174300	1191174301	1191174302	1191174305	1191174306
	HSS	4	Plug		LH	1191174400	1191174401	1191174402	1191174405	1191174406
Tandem Acme										
	HSS	4	None		RH	1191174500	1191174501	1191174502	1191174505	1191174506
	HSS	4	None		LH	1191174600	1191174601	1191174602	1191174605	1191174606
<b>5/8"-11 UNC</b>										
Spiral Point Tap										
Plus 5	HSS	3	Plug	H11	RH	1191175400	1191175401	1191175402	1191175405	1191175406
	HSS	3	Plug	H3	LH	1191175000	1191175001	1191175002	1191175005	1191175006
6" Ext	HSS	3	Plug	H3	RH	1191176400	1191176401	1191176402	1191176405	1191176406
Straight Flute Hand Tap										
Plus 5	HSS	4	Taper	H11	RH	1191175500	1191175501	1191175502	1191175505	1191175506
Plus 5	HSS	4	Plug	H11	RH	1191175600	1191175601	1191175602	1191175605	1191175606
Plus 5	HSS	4	Bottoming	H11	RH	1191175700	1191175701	1191175702	1191175705	1191175706
Plus 10	HSS	4	Taper	H21	RH	1191175800	1191175801	1191175802	1191175805	1191175806
Plus 10	HSS	4	Plug	H21	RH	1191175900	1191175901	1191175902	1191175905	1191175906
Plus 10	HSS	4	Bottoming	H21	RH	1191176000	1191176001	1191176002	1191176005	1191176006
	HSS	4	Taper	H3	LH	1191175100	1191175101	1191175102	1191175105	1191175106
	HSS	4	Plug	H3	LH	1191175200	1191175201	1191175202	1191175205	1191175206
Straight Flute Hand Tap										
Continue next page										

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>5/8"-11 UNC (Continued)</b>										
Straight Flute Hand Tap										
	HSS	4	Bottoming	H3	LH	1191175300	1191175301	1191175302	1191175305	1191175306
6" Ext	HSS	4	Taper	H3	RH	1191176500	1191176501	1191176502	1191176505	1191176506
6" Ext	HSS	4	Plug	H3	RH	1191176600	1191176601	1191176602	1191176605	1191176606
6" Ext	HSS	4	Bottoming	H3	RH	1191176700	1191176701	1191176702	1191176705	1191176706
8" Ext	HSS	4	Taper	H3	RH	1191176800	1191176801	1191176802	1191176805	1191176806
8" Ext	HSS	4	Plug	H3	RH	1191176900	1191176901	1191176902	1191176905	1191176906
8" Ext	HSS	4	Bottoming	H3	RH	1191177000	1191177001	1191177002	1191177005	1191177006
10" Ext	HSS	4	Plug	H3	RH	1191281500	1191281501	1191281502	1191281505	1191281506
10" Ext	HSS	4	Bottoming	H3	RH	1191281600	1191281601	1191281602	1191281605	1191281606
12" Ext	HSS	4	Plug	H3	RH	1191281700	1191281701	1191281702	1191281705	1191281706
12" Ext	HSS	4	Bottoming	H3	RH	1191281800	1191281801	1191281802	1191281805	1191281806
Spiral Flute Tap										
30°	HSS	4	Taper	H3	RH	1191176100	1191176101	1191176102	1191176105	1191176106
30°	HSS	4	Plug	H3	RH	1191176200	1191176201	1191176202	1191176205	1191176206
30°	HSS	4	Bottoming	H3	RH	1191176300	1191176301	1191176302	1191176305	1191176306
52°	HSS	4	Plug	H3	RH	1191263300	1191263301	1191263302	1191263305	1191263306
52°	HSS	4	Bottoming	H3	RH	1191263400	1191263401	1191263402	1191263405	1191263406
Thread Forming Tap										
	HSS	6 LOBE	Plug	H7	RH	1191297500	1191297501	1191297502	1191297505	1191297506
	HSS	6 LOBE	Bottoming	H7	RH	1191297600	1191297601	1191297602	1191297605	1191297606
	HSS	6 LOBE	Plug	H10	RH	1191297700	1191297701	1191297702	1191297705	1191297706
	HSS	6 LOBE	Bottoming	H10	RH	1191297800	1191297801	1191297802	1191297805	1191297806
<b>5/8"-11 BSW</b>										
British Standard Whitworth										
55 MOD	HSS	4	Taper	H3	RH	1191174700	1191174701	1191174702	1191174705	1191174706
55 MOD	HSS	4	Plug	H3	RH	1191174800	1191174801	1191174802	1191174805	1191174806
55 MOD	HSS	4	Bottoming	H3	RH	1191174900	1191174901	1191174902	1191174905	1191174906
<b>5/8"-12 UN</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H3	RH	1191177100	1191177101	1191177102	1191177105	1191177106
	HSS	4	Plug	H3	RH	1191177200	1191177201	1191177202	1191177205	1191177206
	HSS	4	Bottoming	H3	RH	1191177300	1191177301	1191177302	1191177305	1191177306
<b>5/8"-16 UN</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H3	RH	1191177400	1191177401	1191177402	1191177405	1191177406
	HSS	4	Plug	H3	RH	1191177500	1191177501	1191177502	1191177505	1191177506
	HSS	4	Bottoming	H3	RH	1191177600	1191177601	1191177602	1191177605	1191177606
<b>5/8"-18 UNF</b>										
Spiral Point Tap										
	HSS	3	Plug	H3	RH	1191284500	1191284501	1191284502	1191284505	1191284506
	HSS	3	Plug	H5	RH	1191261000	1191261001	1191261002	1191261005	1191261006
Straight Flute Hand Tap										
	HSS	4	Taper	H7	RH	1191260700	1191260701	1191260702	1191260705	1191260706
	HSS	4	Plug	H7	RH	1191260800	1191260801	1191260802	1191260805	1191260806
	HSS	4	Bottoming	H7	RH	1191260900	1191260901	1191260902	1191260905	1191260906
	HSS	4	Plug	H8	RH	1191276100	1191276101	1191276102	1191276105	1191276106
	HSS	4	Bottoming	H8	RH	1191276200	1191276201	1191276202	1191276205	1191276206
Plus 5	HSS	4	Taper	H11	RH	1191178000	1191178001	1191178002	1191178005	1191178006
Straight Flute Hand Tap										
Continue next page										

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>5/8"-18 UNF (Continued)</b>										
Straight Flute Hand Tap										
Plus 5	HSS	4	Plug	H11	RH	1191178100	1191178101	1191178102	1191178105	1191178106
Plus 5	HSS	4	Bottoming	H11	RH	1191178200	1191178201	1191178202	1191178205	1191178206
	HSS	4	Taper	H3	LH	1191177700	1191177701	1191177702	1191177705	1191177706
	HSS	4	Plug	H3	LH	1191177800	1191177801	1191177802	1191177805	1191177806
	HSS	4	Bottoming	H3	LH	1191177900	1191177901	1191177902	1191177905	1191177906
6" Ext	HSS	4	Taper	H3	RH	1191178600	1191178601	1191178602	1191178605	1191178606
6" Ext	HSS	4	Plug	H3	RH	1191178700	1191178701	1191178702	1191178705	1191178706
6" Ext	HSS	4	Bottoming	H3	RH	1191178800	1191178801	1191178802	1191178805	1191178806
Spiral Flute Tap										
30°	HSS	4	Taper	H3	RH	1191178300	1191178301	1191178302	1191178305	1191178306
30°	HSS	4	Plug	H3	RH	1191178400	1191178401	1191178402	1191178405	1191178406
30°	HSS	4	Bottoming	H3	RH	1191178500	1191178501	1191178502	1191178505	1191178506
52°	HSS	4	Plug	H3	RH	1191263800	1191263801	1191263802	1191263805	1191263806
52°	HSS	4	Bottoming	H3	RH	1191263900	1191263901	1191263902	1191263905	1191263906
Thread Forming Tap										
	HSS	6 LOBE	Plug	H7	RH	1191297900	1191297901	1191297902	1191297905	1191297906
	HSS	6 LOBE	Bottoming	H7	RH	1191298000	1191298001	1191298002	1191298005	1191298006
	HSS	6 LOBE	Plug	H10	RH	1191298100	1191298101	1191298102	1191298105	1191298106
	HSS	6 LOBE	Bottoming	H10	RH	1191298200	1191298201	1191298202	1191298205	1191298206
<b>5/8"-20 UNS</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H3	RH	1191178900	1191178901	1191178902	1191178905	1191178906
	HSS	4	Plug	H3	RH	1191179000	1191179001	1191179002	1191179005	1191179006
	HSS	4	Bottoming	H3	RH	1191179100	1191179101	1191179102	1191179105	1191179106
<b>5/8"-24 UNEF</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H3	RH	1191179200	1191179201	1191179202	1191179205	1191179206
	HSS	6	Plug	H3	RH	1191179300	1191179301	1191179302	1191179305	1191179306
	HSS	6	Bottoming	H3	RH	1191179400	1191179401	1191179402	1191179405	1191179406
	HSS	6	Taper	H5	RH	1191179500	1191179501	1191179502	1191179505	1191179506
	HSS	6	Plug	H5	RH	1191179600	1191179601	1191179602	1191179605	1191179606
	HSS	6	Bottoming	H5	RH	1191179700	1191179701	1191179702	1191179705	1191179706
<b>5/8"-27 UNS</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H3	RH	1191179800	1191179801	1191179802	1191179805	1191179806
	HSS	6	Plug	H3	RH	1191179900	1191179901	1191179902	1191179905	1191179906
	HSS	6	Bottoming	H3	RH	1191180000	1191180001	1191180002	1191180005	1191180006
<b>5/8"-28 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H3	RH	1191180100	1191180101	1191180102	1191180105	1191180106
	HSS	6	Plug	H3	RH	1191180200	1191180201	1191180202	1191180205	1191180206
	HSS	6	Bottoming	H3	RH	1191180300	1191180301	1191180302	1191180305	1191180306
<b>5/8"-32 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H3	RH	1191180400	1191180401	1191180402	1191180405	1191180406
	HSS	6	Plug	H3	RH	1191180500	1191180501	1191180502	1191180505	1191180506
	HSS	6	Bottoming	H3	RH	1191180600	1191180601	1191180602	1191180605	1191180606



Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>41/64"-11 UNS</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H4	RH	1191180700	1191180701	1191180702	1191180705	1191180706
	HSS	4	Plug	H4	RH	1191180800	1191180801	1191180802	1191180805	1191180806
	HSS	4	Bottoming	H4	RH	1191180900	1191180901	1191180902	1191180905	1191180906
<b>11/16"-11 UNS</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H3	LH	1191181000	1191181001	1191181002	1191181005	1191181006
	HSS	4	Plug	H3	LH	1191181100	1191181101	1191181102	1191181105	1191181106
	HSS	4	Bottoming	H3	LH	1191181200	1191181201	1191181202	1191181205	1191181206
<b>11/16"-16 UN</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H3	LH	1191181300	1191181301	1191181302	1191181305	1191181306
	HSS	4	Plug	H3	LH	1191181400	1191181401	1191181402	1191181405	1191181406
	HSS	4	Bottoming	H3	LH	1191181500	1191181501	1191181502	1191181505	1191181506
SET	HSS	4	TPR/PLG/ BOT	H3	LH	1191281900	1191281901	1191281902	1191281905	1191281906
<b>11/16"-18 UNS</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H3	RH	1191181600	1191181601	1191181602	1191181605	1191181606
	HSS	4	Plug	H3	RH	1191181700	1191181701	1191181702	1191181705	1191181706
	HSS	4	Bottoming	H3	RH	1191181800	1191181801	1191181802	1191181805	1191181806
	HSS	4	Taper	H3	LH	1191254400	1191254401	1191254402	1191254405	1191254406
	HSS	4	Plug	H3	LH	1191254500	1191254501	1191254502	1191254505	1191254506
	HSS	4	Bottoming	H3	LH	1191254600	1191254601	1191254602	1191254605	1191254606
<b>11/16"-20 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H3	RH	1191181900	1191181901	1191181902	1191181905	1191181906
	HSS	6	Plug	H3	RH	1191182000	1191182001	1191182002	1191182005	1191182006
	HSS	6	Bottoming	H3	RH	1191182100	1191182101	1191182102	1191182105	1191182106
<b>11/16"-24 UNEF</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H3	RH	1191182200	1191182201	1191182202	1191182205	1191182206
	HSS	6	Plug	H3	RH	1191182300	1191182301	1191182302	1191182305	1191182306
	HSS	6	Bottoming	H3	RH	1191182400	1191182401	1191182402	1191182405	1191182406
	HSS	6	Taper	H5	RH	1191182500	1191182501	1191182502	1191182505	1191182506
	HSS	6	Plug	H5	RH	1191182600	1191182601	1191182602	1191182605	1191182606
	HSS	6	Bottoming	H5	RH	1191182700	1191182701	1191182702	1191182705	1191182706
<b>11/16"-28 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H3	RH	1191182800	1191182801	1191182802	1191182805	1191182806
	HSS	6	Plug	H3	RH	1191182900	1191182901	1191182902	1191182905	1191182906
	HSS	6	Bottoming	H3	RH	1191183000	1191183001	1191183002	1191183005	1191183006
<b>11/16"-32 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H3	RH	1191183100	1191183101	1191183102	1191183105	1191183106
	HSS	6	Plug	H3	RH	1191183200	1191183201	1191183202	1191183205	1191183206
	HSS	6	Bottoming	H3	RH	1191183300	1191183301	1191183302	1191183305	1191183306

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>3/4"-5 ACME</b>										
Acme										
	HSS	4	Plug		RH	1191282000	1191282001	1191282002	1191282005	1191282006
	HSS	4	Bottoming		RH	1191282100	1191282101	1191282102	1191282105	1191282106
<b>3/4"-6 ACME</b>										
Acme										
	HSS	4	Taper		RH	1191183400	1191183401	1191183402	1191183405	1191183406
	HSS	4	Plug		RH	1191183500	1191183501	1191183502	1191183505	1191183506
	HSS	4	Bottoming		RH	1191183600	1191183601	1191183602	1191183605	1191183606
	HSS	4	Taper		LH	1191183700	1191183701	1191183702	1191183705	1191183706
	HSS	4	Plug		LH	1191183800	1191183801	1191183802	1191183805	1191183806
Tandem Acme										
	HSS	4	None		RH	1191183900	1191183901	1191183902	1191183905	1191183906
	HSS	4	None		LH	1191184000	1191184001	1191184002	1191184005	1191184006
<b>3/4"-8 ACME</b>										
Acme										
	HSS	4	Taper		RH	1191184100	1191184101	1191184102	1191184105	1191184106
	HSS	4	Plug		RH	1191184200	1191184201	1191184202	1191184205	1191184206
Tandem Acme										
	HSS	4	None		RH	1191184300	1191184301	1191184302	1191184305	1191184306
	HSS	4	None		LH	1191184400	1191184401	1191184402	1191184405	1191184406
<b>3/4"-10 UNC</b>										
Spiral Point Tap										
Plus 5	HSS	3	Plug	H11	RH	1191184800	1191184801	1191184802	1191184805	1191184806
6" Ext	HSS	3	Plug	H3	RH	1191257800	1191257801	1191257802	1191257805	1191257806
Straight Flute Hand Tap										
Plus 5	HSS	4	Taper	H11	RH	1191184900	1191184901	1191184902	1191184905	1191184906
Plus 5	HSS	4	Plug	H11	RH	1191185000	1191185001	1191185002	1191185005	1191185006
Plus 5	HSS	4	Bottoming	H11	RH	1191185100	1191185101	1191185102	1191185105	1191185106
Plus 10	HSS	4	Taper	H21	RH	1191185200	1191185201	1191185202	1191185205	1191185206
Plus 10	HSS	4	Plug	H21	RH	1191185300	1191185301	1191185302	1191185305	1191185306
Plus 10	HSS	4	Bottoming	H21	RH	1191185400	1191185401	1191185402	1191185405	1191185406
	HSS	4	Taper	H3	LH	1191184500	1191184501	1191184502	1191184505	1191184506
	HSS	4	Plug	H3	LH	1191184600	1191184601	1191184602	1191184605	1191184606
	HSS	4	Bottoming	H3	LH	1191184700	1191184701	1191184702	1191184705	1191184706
6" Ext	HSS	4	Taper	H3	RH	1191185800	1191185801	1191185802	1191185805	1191185806
6" Ext	HSS	4	Plug	H3	RH	1191185900	1191185901	1191185902	1191185905	1191185906
6" Ext	HSS	4	Bottoming	H3	RH	1191186000	1191186001	1191186002	1191186005	1191186006
8" Ext	HSS	4	Taper	H3	RH	1191186100	1191186101	1191186102	1191186105	1191186106
8" Ext	HSS	4	Plug	H3	RH	1191186200	1191186201	1191186202	1191186205	1191186206
8" Ext	HSS	4	Bottoming	H3	RH	1191186300	1191186301	1191186302	1191186305	1191186306
10" Ext	HSS	4	Taper	H3	RH	1191186400	1191186401	1191186402	1191186405	1191186406
10" Ext	HSS	4	Plug	H3	RH	1191186500	1191186501	1191186502	1191186505	1191186506
10" Ext	HSS	4	Bottoming	H3	RH	1191186600	1191186601	1191186602	1191186605	1191186606
Spiral Flute Tap										
30°	HSS	4	Taper	H3	RH	1191185500	1191185501	1191185502	1191185505	1191185506
30°	HSS	4	Plug	H3	RH	1191185600	1191185601	1191185602	1191185605	1191185606
30°	HSS	4	Bottoming	H3	RH	1191185700	1191185701	1191185702	1191185705	1191185706
Thread Forming Tap	Continued on the next page									

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>3/4"-10 UNC (Continued)</b>										
Thread Forming Tap										
	HSS	6 LOBE	Plug	H7	RH	1191298300	1191298301	1191298302	1191298305	1191298306
	HSS	6 LOBE	Bottoming	H7	RH	1191298400	1191298401	1191298402	1191298405	1191298406
	HSS	6 LOBE	Plug	H10	RH	1191298500	1191298501	1191298502	1191298505	1191298506
	HSS	6 LOBE	Bottoming	H10	RH	1191298600	1191298601	1191298602	1191298605	1191298606
Acme										
	HSS	4	Taper		RH	1191186700	1191186701	1191186702	1191186705	1191186706
	HSS	4	Plug		RH	1191186800	1191186801	1191186802	1191186805	1191186806
<b>3/4"-11 UNH</b>										
Garden Hose Tap										
	HSS	6	Taper		RH	1191186900	1191186901	1191186902	1191186905	1191186906
	HSS	6	Plug		RH	1191187000	1191187001	1191187002	1191187005	1191187006
	HSS	6	Bottoming		RH	1191187100	1191187101	1191187102	1191187105	1191187106
<b>3/4"-12 UN</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H4	RH	1191187200	1191187201	1191187202	1191187205	1191187206
	HSS	4	Plug	H4	RH	1191187300	1191187301	1191187302	1191187305	1191187306
	HSS	4	Bottoming	H4	RH	1191187400	1191187401	1191187402	1191187405	1191187406
<b>3/4"-16 UNF</b>										
Spiral Point Tap										
	HSS	3	Plug	H3	RH	1191284600	1191284601	1191284602	1191284605	1191284606
	HSS	3	Plug	H5	RH	1191261700	1191261701	1191261702	1191261705	1191261706
Straight Flute Hand Tap										
	HSS	4	Taper	H7	RH	1191258000	1191258001	1191258002	1191258005	1191258006
	HSS	4	Plug	H7	RH	1191258100	1191258101	1191258102	1191258105	1191258106
	HSS	4	Bottoming	H7	RH	1191258200	1191258201	1191258202	1191258205	1191258206
	HSS	4	Taper	H8	RH	1191265000	1191265001	1191265002	1191265005	1191265006
	HSS	4	Plug	H8	RH	1191265100	1191265101	1191265102	1191265105	1191265106
	HSS	4	Bottoming	H8	RH	1191265200	1191265201	1191265202	1191265205	1191265206
Plus 5	HSS	4	Taper	H11	RH	1191188800	1191188801	1191188802	1191188805	1191188806
Plus 5	HSS	4	Plug	H11	RH	1191188900	1191188901	1191188902	1191188905	1191188906
Plus 5	HSS	4	Bottoming	H11	RH	1191189000	1191189001	1191189002	1191189005	1191189006
	HSS	4	Taper	H3	LH	1191188500	1191188501	1191188502	1191188505	1191188506
	HSS	4	Plug	H3	LH	1191188600	1191188601	1191188602	1191188605	1191188606
	HSS	4	Bottoming	H3	LH	1191188700	1191188701	1191188702	1191188705	1191188706
	HSS	4	Taper	H5	LH	1191267400	1191267401	1191267402	1191267405	1191267406
	HSS	4	Plug	H5	LH	1191267500	1191267501	1191267502	1191267505	1191267506
	HSS	4	Bottoming	H5	LH	1191267600	1191267601	1191267602	1191267605	1191267606
Spiral Flute Tap										
30°	HSS	4	Taper	H3	RH	1191189100	1191189101	1191189102	1191189105	1191189106
30°	HSS	4	Plug	H3	RH	1191189200	1191189201	1191189202	1191189205	1191189206
30°	HSS	4	Bottoming	H3	RH	1191189300	1191189301	1191189302	1191189305	1191189306
Thread Forming Tap										
	HSS	6 LOBE	Plug	H7	RH	1191298700	1191298701	1191298702	1191298705	1191298706
	HSS	6 LOBE	Bottoming	H7	RH	1191298800	1191298801	1191298802	1191298805	1191298806
	HSS	6 LOBE	Plug	H10	RH	1191298900	1191298901	1191298902	1191298905	1191298906
	HSS	6 LOBE	Bottoming	H10	RH	1191299000	1191299001	1191299002	1191299005	1191299006

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>3/4"-18 UNS</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H3	RH	1191189400	1191189401	1191189402	1191189405	1191189406
	HSS	4	Plug	H3	RH	1191189500	1191189501	1191189502	1191189505	1191189506
	HSS	4	Bottoming	H3	RH	1191189600	1191189601	1191189602	1191189605	1191189606
<b>3/4"-20 UNEF</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H3	RH	1191189700	1191189701	1191189702	1191189705	1191189706
	HSS	6	Plug	H3	RH	1191189800	1191189801	1191189802	1191189805	1191189806
	HSS	6	Bottoming	H3	RH	1191189900	1191189901	1191189902	1191189905	1191189906
	HSS	6	Taper	H5	RH	1191190000	1191190001	1191190002	1191190005	1191190006
	HSS	6	Plug	H5	RH	1191190100	1191190101	1191190102	1191190105	1191190106
	HSS	6	Bottoming	H5	RH	1191190200	1191190201	1191190202	1191190205	1191190206
Straight Flute Hand Tap										
	HSS	6	Taper	H3	LH	1191259600	1191259601	1191259602	1191259605	1191259606
	HSS	6	Plug	H3	LH	1191259700	1191259701	1191259702	1191259705	1191259706
	HSS	6	Bottoming	H3	LH	1191259800	1191259801	1191259802	1191259805	1191259806
<b>3/4"-24 UNS</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H3	RH	1191190300	1191190301	1191190302	1191190305	1191190306
	HSS	6	Plug	H3	RH	1191190400	1191190401	1191190402	1191190405	1191190406
	HSS	6	Bottoming	H3	RH	1191190500	1191190501	1191190502	1191190505	1191190506
<b>3/4"-27 UNS</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H3	RH	1191190600	1191190601	1191190602	1191190605	1191190606
	HSS	6	Plug	H3	RH	1191190700	1191190701	1191190702	1191190705	1191190706
	HSS	6	Bottoming	H3	RH	1191190800	1191190801	1191190802	1191190805	1191190806
<b>3/4"-32 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H3	RH	1191190900	1191190901	1191190902	1191190905	1191190906
	HSS	6	Plug	H3	RH	1191191000	1191191001	1191191002	1191191005	1191191006
	HSS	6	Bottoming	H3	RH	1191191100	1191191101	1191191102	1191191105	1191191106
<b>3/4"-40 UNS</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H3	RH	1191191200	1191191201	1191191202	1191191205	1191191206
	HSS	6	Plug	H3	RH	1191191300	1191191301	1191191302	1191191305	1191191306
	HSS	6	Bottoming	H3	RH	1191191400	1191191401	1191191402	1191191405	1191191406
<b>49/64-10 UNS</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H4	RH	1191191500	1191191501	1191191502	1191191505	1191191506
	HSS	4	Plug	H4	RH	1191191600	1191191601	1191191602	1191191605	1191191606
	HSS	4	Bottoming	H4	RH	1191191700	1191191701	1191191702	1191191705	1191191706
<b>0.800"-36 AMO</b>										
British Standard Whitworth										
	HSS	6	Taper	H2	RH	1191191800	1191191801	1191191802	1191191805	1191191806
	HSS	6	Plug	H2	RH	1191191900	1191191901	1191191902	1191191905	1191191906
	HSS	6	Bottoming	H2	RH	1191192000	1191192001	1191192002	1191192005	1191192006



# Fast Tap



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Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>13/16"-10 UNS</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H4	RH	1191192100	1191192101	1191192102	1191192105	1191192106
	HSS	4	Plug	H4	RH	1191192200	1191192201	1191192202	1191192205	1191192206
	HSS	4	Bottoming	H4	RH	1191192300	1191192301	1191192302	1191192305	1191192306
<b>13/16"-12 UN</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H4	RH	1191192400	1191192401	1191192402	1191192405	1191192406
	HSS	4	Plug	H4	RH	1191192500	1191192501	1191192502	1191192505	1191192506
	HSS	4	Bottoming	H4	RH	1191192600	1191192601	1191192602	1191192605	1191192606
<b>13/16"-16 UN</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H3	RH	1191192700	1191192701	1191192702	1191192705	1191192706
	HSS	4	Plug	H3	RH	1191192800	1191192801	1191192802	1191192805	1191192806
	HSS	4	Bottoming	H3	RH	1191192900	1191192901	1191192902	1191192905	1191192906
<b>13/16"-18 UNS</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H3	RH	1191193000	1191193001	1191193002	1191193005	1191193006
	HSS	4	Plug	H3	RH	1191193100	1191193101	1191193102	1191193105	1191193106
	HSS	4	Bottoming	H3	RH	1191193200	1191193201	1191193202	1191193205	1191193206
<b>13/16"-20 UNEF</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H3	RH	1191193300	1191193301	1191193302	1191193305	1191193306
	HSS	6	Plug	H3	RH	1191193400	1191193401	1191193402	1191193405	1191193406
	HSS	6	Bottoming	H3	RH	1191193500	1191193501	1191193502	1191193505	1191193506
	HSS	6	Taper	H5	RH	1191193600	1191193601	1191193602	1191193605	1191193606
	HSS	6	Plug	H5	RH	1191193700	1191193701	1191193702	1191193705	1191193706
	HSS	6	Bottoming	H5	RH	1191193800	1191193801	1191193802	1191193805	1191193806
<b>13/16"-24 UNS</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H3	RH	1191193900	1191193901	1191193902	1191193905	1191193906
	HSS	6	Plug	H3	RH	1191194000	1191194001	1191194002	1191194005	1191194006
	HSS	6	Bottoming	H3	RH	1191194100	1191194101	1191194102	1191194105	1191194106
<b>7/8"-6 ACME</b>										
Acme										
	HSS	4	Taper		RH	1191194200	1191194201	1191194202	1191194205	1191194206
	HSS	4	Plug		RH	1191194300	1191194301	1191194302	1191194305	1191194306
	HSS	4	Taper		LH	1191194400	1191194401	1191194402	1191194405	1191194406
	HSS	4	Plug		LH	1191194500	1191194501	1191194502	1191194505	1191194506
Tandem Acme										
	HSS	4	None		RH	1191194600	1191194601	1191194602	1191194605	1191194606
	HSS	4	None		LH	1191194700	1191194701	1191194702	1191194705	1191194706

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>7/8"-9 UNC</b>										
Spiral Point Tap										
	HSS	3	Plug	H4	RH	1191195100	1191195101	1191195102	1191195105	1191195106
Straight Flute Hand Tap										
Plus 5	HSS	4	Taper	H11	RH	1191195200	1191195201	1191195202	1191195205	1191195206
Plus 5	HSS	4	Plug	H11	RH	1191195300	1191195301	1191195302	1191195305	1191195306
Plus 5	HSS	4	Bottoming	H11	RH	1191195400	1191195401	1191195402	1191195405	1191195406
	HSS	4	Taper	H4	LH	1191194800	1191194801	1191194802	1191194805	1191194806
	HSS	4	Plug	H4	LH	1191194900	1191194901	1191194902	1191194905	1191194906
	HSS	4	Bottoming	H4	LH	1191195000	1191195001	1191195002	1191195005	1191195006
8" Ext	HSS	4	Taper	H4	RH	1191262200	1191262201	1191262202	1191262205	1191262206
8" Ext	HSS	4	Plug	H4	RH	1191262300	1191262301	1191262302	1191262305	1191262306
8" Ext	HSS	4	Bottoming	H4	RH	1191262400	1191262401	1191262402	1191262405	1191262406
Spiral Flute Tap										
30°	HSS	4	Taper	H4	RH	1191195500	1191195501	1191195502	1191195505	1191195506
30°	HSS	4	Plug	H4	RH	1191195600	1191195601	1191195602	1191195605	1191195606
30°	HSS	4	Bottoming	H4	RH	1191195700	1191195701	1191195702	1191195705	1191195706
<b>7/8"-10 UNS</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H4	RH	1191195800	1191195801	1191195802	1191195805	1191195806
	HSS	4	Plug	H4	RH	1191195900	1191195901	1191195902	1191195905	1191195906
	HSS	4	Bottoming	H4	RH	1191196000	1191196001	1191196002	1191196005	1191196006
<b>7/8"-12 UN</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H4	RH	1191196100	1191196101	1191196102	1191196105	1191196106
	HSS	4	Plug	H4	RH	1191196200	1191196201	1191196202	1191196205	1191196206
	HSS	4	Bottoming	H4	RH	1191196300	1191196301	1191196302	1191196305	1191196306
<b>7/8"-14 UNF</b>										
Spiral Point Tap										
	HSS	3	Plug	H4	RH	1191259200	1191259201	1191259202	1191259205	1191259206
Straight Flute Hand Tap										
	HSS	4	Taper	H5	RH	1191265300	1191265301	1191265302	1191265305	1191265306
	HSS	4	Plug	H5	RH	1191265400	1191265401	1191265402	1191265405	1191265406
	HSS	4	Bottoming	H5	RH	1191265500	1191265501	1191265502	1191265505	1191265506
	HSS	4	Taper	H6	RH	1191261100	1191261101	1191261102	1191261105	1191261106
	HSS	4	Plug	H6	RH	1191261200	1191261201	1191261202	1191261205	1191261206
	HSS	4	Bottoming	H6	RH	1191261300	1191261301	1191261302	1191261305	1191261306
Plus 5	HSS	4	Taper	H11	RH	1191196700	1191196701	1191196702	1191196705	1191196706
Plus 5	HSS	4	Plug	H11	RH	1191196800	1191196801	1191196802	1191196805	1191196806
Plus 5	HSS	4	Bottoming	H11	RH	1191196900	1191196901	1191196902	1191196905	1191196906
	HSS	4	Taper	H4	LH	1191196400	1191196401	1191196402	1191196405	1191196406
	HSS	4	Plug	H4	LH	1191196500	1191196501	1191196502	1191196505	1191196506
	HSS	4	Bottoming	H4	LH	1191196600	1191196601	1191196602	1191196605	1191196606
<b>7/8"-16 UN</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H3	RH	1191197000	1191197001	1191197002	1191197005	1191197006
	HSS	4	Plug	H3	RH	1191197100	1191197101	1191197102	1191197105	1191197106
	HSS	4	Bottoming	H3	RH	1191197200	1191197201	1191197202	1191197205	1191197206



# Fast Tap



CUSTOMER SERVICE: telephone 800.348.2885 • fax 800.892.4290

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>7/8"-18 UNS</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H3	RH	1191197300	1191197301	1191197302	1191197305	1191197306
	HSS	4	Plug	H3	RH	1191197400	1191197401	1191197402	1191197405	1191197406
	HSS	4	Bottoming	H3	RH	1191197500	1191197501	1191197502	1191197505	1191197506
<b>7/8"-20 UNEF</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H3	RH	1191197600	1191197601	1191197602	1191197605	1191197606
	HSS	6	Plug	H3	RH	1191197700	1191197701	1191197702	1191197705	1191197706
	HSS	6	Bottoming	H3	RH	1191197800	1191197801	1191197802	1191197805	1191197806
	HSS	6	Taper	H5	RH	1191197900	1191197901	1191197902	1191197905	1191197906
	HSS	6	Plug	H5	RH	1191198000	1191198001	1191198002	1191198005	1191198006
	HSS	6	Bottoming	H5	RH	1191198100	1191198101	1191198102	1191198105	1191198106
<b>7/8"-24 UNS</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H3	RH	1191198200	1191198201	1191198202	1191198205	1191198206
	HSS	6	Plug	H3	RH	1191198300	1191198301	1191198302	1191198305	1191198306
	HSS	6	Bottoming	H3	RH	1191198400	1191198401	1191198402	1191198405	1191198406
<b>7/8"-27 UNS</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H3	RH	1191198500	1191198501	1191198502	1191198505	1191198506
	HSS	6	Plug	H3	RH	1191198600	1191198601	1191198602	1191198605	1191198606
	HSS	6	Bottoming	H3	RH	1191198700	1191198701	1191198702	1191198705	1191198706
<b>7/8"-32 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H3	RH	1191198800	1191198801	1191198802	1191198805	1191198806
	HSS	6	Plug	H3	RH	1191198900	1191198901	1191198902	1191198905	1191198906
	HSS	6	Bottoming	H3	RH	1191199000	1191199001	1191199002	1191199005	1191199006
<b>15/16"-12 UN</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H4	RH	1191199100	1191199101	1191199102	1191199105	1191199106
	HSS	4	Plug	H4	RH	1191199200	1191199201	1191199202	1191199205	1191199206
	HSS	4	Bottoming	H4	RH	1191199300	1191199301	1191199302	1191199305	1191199306
<b>15/16"-14 UNS</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H4	RH	1191199400	1191199401	1191199402	1191199405	1191199406
	HSS	4	Plug	H4	RH	1191199500	1191199501	1191199502	1191199505	1191199506
	HSS	4	Bottoming	H4	RH	1191199600	1191199601	1191199602	1191199605	1191199606
<b>15/16"-16 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H3	RH	1191199700	1191199701	1191199702	1191199705	1191199706
	HSS	6	Plug	H3	RH	1191199800	1191199801	1191199802	1191199805	1191199806
	HSS	6	Bottoming	H3	RH	1191199900	1191199901	1191199902	1191199905	1191199906
<b>15/16"-18 UNS</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H3	RH	1191200000	1191200001	1191200002	1191200005	1191200006
	HSS	6	Plug	H3	RH	1191200100	1191200101	1191200102	1191200105	1191200106
	HSS	6	Bottoming	H3	RH	1191200200	1191200201	1191200202	1191200205	1191200206

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>15/16"-20 UNEF</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H3	RH	1191200300	1191200301	1191200302	1191200305	1191200306
	HSS	6	Plug	H3	RH	1191200400	1191200401	1191200402	1191200405	1191200406
	HSS	6	Bottoming	H3	RH	1191200500	1191200501	1191200502	1191200505	1191200506
	HSS	6	Taper	H5	RH	1191200600	1191200601	1191200602	1191200605	1191200606
	HSS	6	Plug	H5	RH	1191200700	1191200701	1191200702	1191200705	1191200706
	HSS	6	Bottoming	H5	RH	1191200800	1191200801	1191200802	1191200805	1191200806
<b>15/16"-32 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H3	RH	1191200900	1191200901	1191200902	1191200905	1191200906
	HSS	6	Plug	H3	RH	1191201000	1191201001	1191201002	1191201005	1191201006
	HSS	6	Bottoming	H3	RH	1191201100	1191201101	1191201102	1191201105	1191201106
<b>1"-5 ACME</b>										
Acme										
	HSS	4	Taper		RH	1191201200	1191201201	1191201202	1191201205	1191201206
	HSS	4	Plug		RH	1191201300	1191201301	1191201302	1191201305	1191201306
	HSS	4	Taper		LH	1191201400	1191201401	1191201402	1191201405	1191201406
	HSS	4	Plug		LH	1191201500	1191201501	1191201502	1191201505	1191201506
Tandem Acme										
	HSS	4	None		RH	1191201600	1191201601	1191201602	1191201605	1191201606
	HSS	4	None		LH	1191201700	1191201701	1191201702	1191201705	1191201706
<b>1"-8 UNC</b>										
Spiral Point Tap										
	HSS	3	Plug	H4	RH	1191202300	1191202301	1191202302	1191202305	1191202306
Plus 5	HSS	3	Plug	H11	RH	1191202400	1191202401	1191202402	1191202405	1191202406
Straight Flute Hand Tap										
	HSS	4	Plug	H6	RH	1191277100	1191277101	1191277102	1191277105	1191277106
	HSS	4	Bottoming	H6	RH	1191277200	1191277201	1191277202	1191277205	1191277206
Plus 5	HSS	4	Taper	H11	RH	1191202500	1191202501	1191202502	1191202505	1191202506
Plus 5	HSS	4	Plug	H11	RH	1191202600	1191202601	1191202602	1191202605	1191202606
Plus 5	HSS	4	Bottoming	H11	RH	1191202700	1191202701	1191202702	1191202705	1191202706
Plus 10	HSS	4	Taper	H21	RH	1191264000	1191264001	1191264002	1191264005	1191264006
Plus 10	HSS	4	Plug	H21	RH	1191264100	1191264101	1191264102	1191264105	1191264106
Plus 10	HSS	4	Bottoming	H21	RH	1191264200	1191264201	1191264202	1191264205	1191264206
	HSS	4	Bottoming	H4	LH	1191202200	1191202201	1191202202	1191202205	1191202206
	HSS	4	Taper	H4	LH	1191202000	1191202001	1191202002	1191202005	1191202006
	HSS	4	Plug	H4	LH	1191202100	1191202101	1191202102	1191202105	1191202106
8" Ext	HSS	4	Taper	H4	RH	1191203100	1191203101	1191203102	1191203105	1191203106
8" Ext	HSS	4	Plug	H4	RH	1191203200	1191203201	1191203202	1191203205	1191203206
8" Ext	HSS	4	Bottoming	H4	RH	1191203300	1191203301	1191203302	1191203305	1191203306
10" Ext	HSS	4	Taper	H4	RH	1191203400	1191203401	1191203402	1191203405	1191203406
10" Ext	HSS	4	Plug	H4	RH	1191203500	1191203501	1191203502	1191203505	1191203506
10" Ext	HSS	4	Bottoming	H4	RH	1191203600	1191203601	1191203602	1191203605	1191203606
12" Ext	HSS	4	Plug	H4	RH	1191282300	1191282301	1191282302	1191282305	1191282306
12" Ext	HSS	4	Bottoming	H4	RH	1191282400	1191282401	1191282402	1191282405	1191282406
Spiral Flute Tap	Continued on the next page									





# Fast Tap



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Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>1"-8 UNC (Continued)</b>										
Spiral Flute Tap										
30°	HSS	4	Taper	H4	RH	1191202800	1191202801	1191202802	1191202805	1191202806
30°	HSS	4	Plug	H4	RH	1191202900	1191202901	1191202902	1191202905	1191202906
30°	HSS	4	Bottoming	H4	RH	1191203000	1191203001	1191203002	1191203005	1191203006
52°	HSS	4	Plug	H4	RH	1191267700	1191267701	1191267702	1191267705	1191267706
52°	HSS	4	Bottoming	H4	RH	1191267800	1191267801	1191267802	1191267805	1191267806
Acme										
	HSS	4	Taper		RH	1191201800	1191201801	1191201802	1191201805	1191201806
	HSS	4	Plug		RH	1191201900	1191201901	1191201902	1191201905	1191201906
<b>1"-10 UNS</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H4	RH	1191203700	1191203701	1191203702	1191203705	1191203706
	HSS	4	Plug	H4	RH	1191203800	1191203801	1191203802	1191203805	1191203806
	HSS	4	Bottoming	H4	RH	1191203900	1191203901	1191203902	1191203905	1191203906
<b>1"-12 UNF</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H6	RH	1191205000	1191205001	1191205002	1191205005	1191205006
	HSS	4	Plug	H6	RH	1191205100	1191205101	1191205102	1191205105	1191205106
	HSS	4	Bottoming	H6	RH	1191205200	1191205201	1191205202	1191205205	1191205206
Plus 5	HSS	4	Taper	H11	RH	1191205300	1191205301	1191205302	1191205305	1191205306
Plus 5	HSS	4	Plug	H11	RH	1191205400	1191205401	1191205402	1191205405	1191205406
Plus 5	HSS	4	Bottoming	H11	RH	1191205500	1191205501	1191205502	1191205505	1191205506
	HSS	4	Taper	H4	LH	1191204700	1191204701	1191204702	1191204705	1191204706
	HSS	4	Plug	H4	LH	1191204800	1191204801	1191204802	1191204805	1191204806
	HSS	4	Bottoming	H4	LH	1191204900	1191204901	1191204902	1191204905	1191204906
<b>1"-14 UNS</b>										
Spiral Point Tap										
	HSS	3	Plug	H4	RH	1191276300	1191276301	1191276302	1191276305	1191276306
Straight Flute Hand Tap										
	HSS	4	Taper	H6	RH	1191205900	1191205901	1191205902	1191205905	1191205906
	HSS	4	Plug	H6	RH	1191206000	1191206001	1191206002	1191206005	1191206006
	HSS	4	Bottoming	H6	RH	1191206100	1191206101	1191206102	1191206105	1191206106
Plus 5	HSS	4	Taper	H11	RH	1191206200	1191206201	1191206202	1191206205	1191206206
Plus 5	HSS	4	Plug	H11	RH	1191206300	1191206301	1191206302	1191206305	1191206306
Plus 5	HSS	4	Bottoming	H11	RH	1191206400	1191206401	1191206402	1191206405	1191206406
	HSS	4	Taper	H4	LH	1191205600	1191205601	1191205602	1191205605	1191205606
	HSS	4	Plug	H4	LH	1191205700	1191205701	1191205702	1191205705	1191205706
	HSS	4	Bottoming	H4	LH	1191205800	1191205801	1191205802	1191205805	1191205806
<b>1"-16 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H3	RH	1191206500	1191206501	1191206502	1191206505	1191206506
	HSS	6	Plug	H3	RH	1191206600	1191206601	1191206602	1191206605	1191206606
	HSS	6	Bottoming	H3	RH	1191206700	1191206701	1191206702	1191206705	1191206706
	HSS	6	Taper	H3	LH	1191261800	1191261801	1191261802	1191261805	1191261806
	HSS	6	Plug	H3	LH	1191261900	1191261901	1191261902	1191261905	1191261906
	HSS	6	Bottoming	H3	LH	1191262000	1191262001	1191262002	1191262005	1191262006

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>1"-18 UNS</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H3	RH	1191206800	1191206801	1191206802	1191206805	1191206806
	HSS	6	Plug	H3	RH	1191206900	1191206901	1191206902	1191206905	1191206906
	HSS	6	Bottoming	H3	RH	1191207000	1191207001	1191207002	1191207005	1191207006
<b>1"-20 UNEF</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H3	RH	1191207100	1191207101	1191207102	1191207105	1191207106
	HSS	6	Plug	H3	RH	1191207200	1191207201	1191207202	1191207205	1191207206
	HSS	6	Bottoming	H3	RH	1191207300	1191207301	1191207302	1191207305	1191207306
	HSS	6	Taper	H5	RH	1191207400	1191207401	1191207402	1191207405	1191207406
	HSS	6	Plug	H5	RH	1191207500	1191207501	1191207502	1191207505	1191207506
	HSS	6	Bottoming	H5	RH	1191207600	1191207601	1191207602	1191207605	1191207606
	HSS	6	Taper	H3	LH	1191254700	1191254701	1191254702	1191254705	1191254706
	HSS	6	Plug	H3	LH	1191254800	1191254801	1191254802	1191254805	1191254806
	HSS	6	Bottoming	H3	LH	1191254900	1191254901	1191254902	1191254905	1191254906
<b>1"-24 UNS</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H3	RH	1191207700	1191207701	1191207702	1191207705	1191207706
	HSS	6	Plug	H3	RH	1191207800	1191207801	1191207802	1191207805	1191207806
	HSS	6	Bottoming	H3	RH	1191207900	1191207901	1191207902	1191207905	1191207906
<b>1"-27 UNS</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H3	RH	1191208000	1191208001	1191208002	1191208005	1191208006
	HSS	6	Plug	H3	RH	1191208100	1191208101	1191208102	1191208105	1191208106
	HSS	6	Bottoming	H3	RH	1191208200	1191208201	1191208202	1191208205	1191208206
<b>1"-32 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H3	RH	1191208300	1191208301	1191208302	1191208305	1191208306
	HSS	6	Plug	H3	RH	1191208400	1191208401	1191208402	1191208405	1191208406
	HSS	6	Bottoming	H3	RH	1191208500	1191208501	1191208502	1191208505	1191208506
<b>1-1/16"-12 UN</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H4	RH	1191263000	1191263001	1191263002	1191263005	1191263006
	HSS	4	Plug	H4	RH	1191263100	1191263101	1191263102	1191263105	1191263106
	HSS	4	Bottoming	H4	RH	1191263200	1191263201	1191263202	1191263205	1191263206
	HSS	4	Taper	H5	RH	1191208600	1191208601	1191208602	1191208605	1191208606
	HSS	4	Plug	H5	RH	1191208700	1191208701	1191208702	1191208705	1191208706
	HSS	4	Bottoming	H5	RH	1191208800	1191208801	1191208802	1191208805	1191208806
	HSS	4	Taper	H7	RH	1191208900	1191208901	1191208902	1191208905	1191208906
	HSS	4	Plug	H7	RH	1191209000	1191209001	1191209002	1191209005	1191209006
	HSS	4	Bottoming	H7	RH	1191209100	1191209101	1191209102	1191209105	1191209106
<b>1-1/16"-14 UNS</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H5	RH	1191209200	1191209201	1191209202	1191209205	1191209206
	HSS	6	Plug	H5	RH	1191209300	1191209301	1191209302	1191209305	1191209306
	HSS	6	Bottoming	H5	RH	1191209400	1191209401	1191209402	1191209405	1191209406

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>1-1/16"-16 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H4	RH	1191209500	1191209501	1191209502	1191209505	1191209506
	HSS	6	Plug	H4	RH	1191209600	1191209601	1191209602	1191209605	1191209606
	HSS	6	Bottoming	H4	RH	1191209700	1191209701	1191209702	1191209705	1191209706
	HSS	6	Taper	H6	RH	1191209800	1191209801	1191209802	1191209805	1191209806
	HSS	6	Plug	H6	RH	1191209900	1191209901	1191209902	1191209905	1191209906
	HSS	6	Bottoming	H6	RH	1191210000	1191210001	1191210002	1191210005	1191210006
<b>1-1/16"-18 UNS</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H4	RH	1191210100	1191210101	1191210102	1191210105	1191210106
	HSS	6	Plug	H4	RH	1191210200	1191210201	1191210202	1191210205	1191210206
	HSS	6	Bottoming	H4	RH	1191210300	1191210301	1191210302	1191210305	1191210306
	HSS	6	Taper	H6	RH	1191210400	1191210401	1191210402	1191210405	1191210406
	HSS	6	Plug	H6	RH	1191210500	1191210501	1191210502	1191210505	1191210506
	HSS	6	Bottoming	H6	RH	1191210600	1191210601	1191210602	1191210605	1191210606
<b>1-1/16"-20 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H4	RH	1191210700	1191210701	1191210702	1191210705	1191210706
	HSS	6	Plug	H4	RH	1191210800	1191210801	1191210802	1191210805	1191210806
	HSS	6	Bottoming	H4	RH	1191210900	1191210901	1191210902	1191210905	1191210906
<b>1-1/16"-24 UNS</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H4	RH	1191211000	1191211001	1191211002	1191211005	1191211006
	HSS	6	Plug	H4	RH	1191211100	1191211101	1191211102	1191211105	1191211106
	HSS	6	Bottoming	H4	RH	1191211200	1191211201	1191211202	1191211205	1191211206
<b>1-1/8"-5 ACME</b>										
Acme										
	HSS	4	Taper		RH	1191211300	1191211301	1191211302	1191211305	1191211306
	HSS	4	Plug		RH	1191211400	1191211401	1191211402	1191211405	1191211406
	HSS	4	Taper		LH	1191211500	1191211501	1191211502	1191211505	1191211506
	HSS	4	Plug		LH	1191211600	1191211601	1191211602	1191211605	1191211606
Tandem Acme										
	HSS	4	None		RH	1191211700	1191211701	1191211702	1191211705	1191211706
	HSS	4	None		LH	1191211800	1191211801	1191211802	1191211805	1191211806
<b>1-1/8"-7 UNC</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H4	LH	1191211900	1191211901	1191211902	1191211905	1191211906
	HSS	4	Plug	H4	LH	1191212000	1191212001	1191212002	1191212005	1191212006
	HSS	4	Bottoming	H4	LH	1191212100	1191212101	1191212102	1191212105	1191212106
<b>1-1/8"-8 UN</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H5	RH	1191212200	1191212201	1191212202	1191212205	1191212206
	HSS	4	Plug	H5	RH	1191212300	1191212301	1191212302	1191212305	1191212306
	HSS	4	Bottoming	H5	RH	1191212400	1191212401	1191212402	1191212405	1191212406
<b>1-1/8"-10 UNS</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H5	RH	1191212500	1191212501	1191212502	1191212505	1191212506
	HSS	4	Plug	H5	RH	1191212600	1191212601	1191212602	1191212605	1191212606
	HSS	4	Bottoming	H5	RH	1191212700	1191212701	1191212702	1191212705	1191212706

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>1-1/8"-12 UNF</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H6	RH	1191213100	1191213101	1191213102	1191213105	1191213106
	HSS	4	Plug	H6	RH	1191213200	1191213201	1191213202	1191213205	1191213206
	HSS	4	Bottoming	H6	RH	1191213300	1191213301	1191213302	1191213305	1191213306
Plus 5	HSS	4	Taper	H11	RH	1191266800	1191266801	1191266802	1191266805	1191266806
Plus 5	HSS	4	Plug	H11	RH	1191266900	1191266901	1191266902	1191266905	1191266906
Plus 5	HSS	4	Bottoming	H11	RH	1191267000	1191267001	1191267002	1191267005	1191267006
	HSS	4	Taper	H4	LH	1191212800	1191212801	1191212802	1191212805	1191212806
	HSS	4	Plug	H4	LH	1191212900	1191212901	1191212902	1191212905	1191212906
	HSS	4	Bottoming	H4	LH	1191213000	1191213001	1191213002	1191213005	1191213006
<b>1-1/8"-14 UNS</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H5	RH	1191213400	1191213401	1191213402	1191213405	1191213406
	HSS	6	Plug	H5	RH	1191213500	1191213501	1191213502	1191213505	1191213506
	HSS	6	Bottoming	H5	RH	1191213600	1191213601	1191213602	1191213605	1191213606
<b>1-1/8"-16 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H4	RH	1191213700	1191213701	1191213702	1191213705	1191213706
	HSS	6	Plug	H4	RH	1191213800	1191213801	1191213802	1191213805	1191213806
	HSS	6	Bottoming	H4	RH	1191213900	1191213901	1191213902	1191213905	1191213906
<b>1-1/8"-18 UNEF</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H4	RH	1191214000	1191214001	1191214002	1191214005	1191214006
	HSS	6	Plug	H4	RH	1191214100	1191214101	1191214102	1191214105	1191214106
	HSS	6	Bottoming	H4	RH	1191214200	1191214201	1191214202	1191214205	1191214206
	HSS	6	Taper	H6	RH	1191214300	1191214301	1191214302	1191214305	1191214306
	HSS	6	Plug	H6	RH	1191214400	1191214401	1191214402	1191214405	1191214406
	HSS	6	Bottoming	H6	RH	1191214500	1191214501	1191214502	1191214505	1191214506
<b>1-1/8"-20 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H4	RH	1191214600	1191214601	1191214602	1191214605	1191214606
	HSS	6	Plug	H4	RH	1191214700	1191214701	1191214702	1191214705	1191214706
	HSS	6	Bottoming	H4	RH	1191214800	1191214801	1191214802	1191214805	1191214806
<b>1 1/8"-24 UNS</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H4	RH	1191214900	1191214901	1191214902	1191214905	1191214906
	HSS	6	Plug	H4	RH	1191215000	1191215001	1191215002	1191215005	1191215006
	HSS	6	Bottoming	H4	RH	1191215100	1191215101	1191215102	1191215105	1191215106
<b>1-1/8"-28 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Bottoming	H4	RH	1191215400	1191215401	1191215402	1191215405	1191215406
	HSS	6	Plug	H4	RH	1191282500	1191282501	1191282502	1191282505	1191282506
	HSS	6	Bottoming	H4	RH	1191282600	1191282601	1191282602	1191282605	1191282606
<b>1-1/8"-32 UNS</b>										
Straight Flute Hand Tap										
	HSS	8	Taper	H4	RH	1191215200	1191215201	1191215202	1191215205	1191215206
	HSS	8	Plug	H4	RH	1191215300	1191215301	1191215302	1191215305	1191215306

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>1-3/16"-12 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H5	RH	1191215500	1191215501	1191215502	1191215505	1191215506
	HSS	6	Plug	H5	RH	1191215600	1191215601	1191215602	1191215605	1191215606
	HSS	6	Bottoming	H5	RH	1191215700	1191215701	1191215702	1191215705	1191215706
<b>1-3/16"-14 UNS</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H5	RH	1191215800	1191215801	1191215802	1191215805	1191215806
	HSS	6	Plug	H5	RH	1191215900	1191215901	1191215902	1191215905	1191215906
	HSS	6	Bottoming	H5	RH	1191216000	1191216001	1191216002	1191216005	1191216006
<b>1-3/16"-16 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H4	RH	1191216100	1191216101	1191216102	1191216105	1191216106
	HSS	6	Plug	H4	RH	1191216200	1191216201	1191216202	1191216205	1191216206
	HSS	6	Bottoming	H4	RH	1191216300	1191216301	1191216302	1191216305	1191216306
	HSS	6	Taper	H6	RH	1191216400	1191216401	1191216402	1191216405	1191216406
	HSS	6	Plug	H6	RH	1191216500	1191216501	1191216502	1191216505	1191216506
	HSS	6	Bottoming	H6	RH	1191216600	1191216601	1191216602	1191216605	1191216606
<b>1-3/16"-18 UNEF</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H4	RH	1191216700	1191216701	1191216702	1191216705	1191216706
	HSS	6	Plug	H4	RH	1191216800	1191216801	1191216802	1191216805	1191216806
	HSS	6	Bottoming	H4	RH	1191216900	1191216901	1191216902	1191216905	1191216906
	HSS	6	Taper	H6	RH	1191217000	1191217001	1191217002	1191217005	1191217006
	HSS	6	Plug	H6	RH	1191217100	1191217101	1191217102	1191217105	1191217106
	HSS	6	Bottoming	H6	RH	1191217200	1191217201	1191217202	1191217205	1191217206
<b>1-3/16"-20 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H4	RH	1191217300	1191217301	1191217302	1191217305	1191217306
	HSS	6	Plug	H4	RH	1191217400	1191217401	1191217402	1191217405	1191217406
	HSS	6	Bottoming	H4	RH	1191217500	1191217501	1191217502	1191217505	1191217506
<b>1-1/4"-5 ACME</b>										
Acme										
	HSS	4	Taper		RH	1191217600	1191217601	1191217602	1191217605	1191217606
	HSS	4	Plug		RH	1191217700	1191217701	1191217702	1191217705	1191217706
	HSS	4	Taper		LH	1191217800	1191217801	1191217802	1191217805	1191217806
	HSS	4	Plug		LH	1191217900	1191217901	1191217902	1191217905	1191217906
Tandem Acme										
	HSS	4	None		RH	1191218000	1191218001	1191218002	1191218005	1191218006
	HSS	4	None		LH	1191218100	1191218101	1191218102	1191218105	1191218106
<b>1-1/4"-7 UNC</b>										
Spiral Point Tap										
	HSS	3	Plug	H4	RH	1191277300	1191277301	1191277302	1191277305	1191277306
Straight Flute Hand Tap										
	HSS	4	Taper	H8	RH	1191218500	1191218501	1191218502	1191218505	1191218506
	HSS	4	Plug	H8	RH	1191218600	1191218601	1191218602	1191218605	1191218606
	HSS	4	Bottoming	H8	RH	1191218700	1191218701	1191218702	1191218705	1191218706
Plus 5	HSS	4	Taper	H11	RH	1191265600	1191265601	1191265602	1191265605	1191265606
Straight Flute Hand Tap Continued on the next page										

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>1-1/4"-7 UNC (Continued)</b>										
Straight Flute Hand Tap										
Plus 5	HSS	4	Plug	H11	RH	1191265700	1191265701	1191265702	1191265705	1191265706
Plus 5	HSS	4	Bottoming	H11	RH	1191265800	1191265801	1191265802	1191265805	1191265806
	HSS	4	Taper	H4	LH	1191218200	1191218201	1191218202	1191218205	1191218206
	HSS	4	Plug	H4	LH	1191218300	1191218301	1191218302	1191218305	1191218306
	HSS	4	Bottoming	H4	LH	1191218400	1191218401	1191218402	1191218405	1191218406
10" Ext	HSS	4	Taper	H4	RH	1191218800	1191218801	1191218802	1191218805	1191218806
10" Ext	HSS	4	Plug	H4	RH	1191218900	1191218901	1191218902	1191218905	1191218906
10" Ext	HSS	4	Bottoming	H4	RH	1191219000	1191219001	1191219002	1191219005	1191219006
12" Ext	HSS	4	Taper	H4	RH	1191219100	1191219101	1191219102	1191219105	1191219106
12" Ext	HSS	4	Plug	H4	RH	1191219200	1191219201	1191219202	1191219205	1191219206
12" Ext	HSS	4	Bottoming	H4	RH	1191219300	1191219301	1191219302	1191219305	1191219306
<b>1-1/4"-8 UN</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H5	RH	1191219400	1191219401	1191219402	1191219405	1191219406
	HSS	4	Plug	H5	RH	1191219500	1191219501	1191219502	1191219505	1191219506
	HSS	4	Bottoming	H5	RH	1191219600	1191219601	1191219602	1191219605	1191219606
10" Ext	HSS	4	Taper	H5	RH	1191219700	1191219701	1191219702	1191219705	1191219706
10" Ext	HSS	4	Plug	H5	RH	1191219800	1191219801	1191219802	1191219805	1191219806
10" Ext	HSS	4	Bottoming	H5	RH	1191219900	1191219901	1191219902	1191219905	1191219906
12" Ext	HSS	4	Taper	H5	RH	1191220000	1191220001	1191220002	1191220005	1191220006
12" Ext	HSS	4	Plug	H5	RH	1191220100	1191220101	1191220102	1191220105	1191220106
12" Ext	HSS	4	Bottoming	H5	RH	1191220200	1191220201	1191220202	1191220205	1191220206
<b>1-1/4"-10 UNC</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H5	RH	1191220300	1191220301	1191220302	1191220305	1191220306
	HSS	4	Plug	H5	RH	1191220400	1191220401	1191220402	1191220405	1191220406
	HSS	4	Bottoming	H5	RH	1191220500	1191220501	1191220502	1191220505	1191220506
<b>1-1/4"-12 UNF</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H6	RH	1191221600	1191221601	1191221602	1191221605	1191221606
	HSS	6	Plug	H6	RH	1191221700	1191221701	1191221702	1191221705	1191221706
	HSS	6	Bottoming	H6	RH	1191221800	1191221801	1191221802	1191221805	1191221806
	HSS	4	Taper	H4	LH	1191221300	1191221301	1191221302	1191221305	1191221306
	HSS	4	Plug	H4	LH	1191221400	1191221401	1191221402	1191221405	1191221406
	HSS	4	Bottoming	H4	LH	1191221500	1191221501	1191221502	1191221505	1191221506
<b>1-1/4"-14 UNS</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H5	RH	1191221900	1191221901	1191221902	1191221905	1191221906
	HSS	6	Plug	H5	RH	1191222000	1191222001	1191222002	1191222005	1191222006
	HSS	6	Bottoming	H5	RH	1191222100	1191222101	1191222102	1191222105	1191222106
<b>1-1/4"-16 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H4	RH	1191222200	1191222201	1191222202	1191222205	1191222206
	HSS	6	Plug	H4	RH	1191222300	1191222301	1191222302	1191222305	1191222306
	HSS	6	Bottoming	H4	RH	1191222400	1191222401	1191222402	1191222405	1191222406

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>1-1/4"-18 UNEF</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H4	RH	1191222500	1191222501	1191222502	1191222505	1191222506
	HSS	6	Plug	H4	RH	1191222600	1191222601	1191222602	1191222605	1191222606
	HSS	6	Bottoming	H4	RH	1191222700	1191222701	1191222702	1191222705	1191222706
	HSS	6	Taper	H6	RH	1191222800	1191222801	1191222802	1191222805	1191222806
	HSS	6	Plug	H6	RH	1191222900	1191222901	1191222902	1191222905	1191222906
	HSS	6	Bottoming	H6	RH	1191223000	1191223001	1191223002	1191223005	1191223006
<b>1-1/4"-20 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H4	RH	1191223100	1191223101	1191223102	1191223105	1191223106
	HSS	6	Plug	H4	RH	1191223200	1191223201	1191223202	1191223205	1191223206
	HSS	6	Bottoming	H4	RH	1191223300	1191223301	1191223302	1191223305	1191223306
<b>1-1/4"-24 UNS</b>										
Straight Flute Hand Tap										
	HSS	8	Taper	H4	RH	1191223400	1191223401	1191223402	1191223405	1191223406
	HSS	8	Plug	H4	RH	1191223500	1191223501	1191223502	1191223505	1191223506
	HSS	8	Bottoming	H4	RH	1191223600	1191223601	1191223602	1191223605	1191223606
<b>1-1/4"-32 UNS</b>										
Straight Flute Hand Tap										
	HSS	10	Taper	H4	RH	1191223700	1191223701	1191223702	1191223705	1191223706
	HSS	10	Plug	H4	RH	1191223800	1191223801	1191223802	1191223805	1191223806
	HSS	10	Bottoming	H4	RH	1191223900	1191223901	1191223902	1191223905	1191223906
<b>1-5/16"-12 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H5	RH	1191224000	1191224001	1191224002	1191224005	1191224006
	HSS	6	Plug	H5	RH	1191224100	1191224101	1191224102	1191224105	1191224106
	HSS	6	Bottoming	H5	RH	1191224200	1191224201	1191224202	1191224205	1191224206
	HSS	6	Taper	H8	RH	1191224300	1191224301	1191224302	1191224305	1191224306
	HSS	6	Plug	H8	RH	1191224400	1191224401	1191224402	1191224405	1191224406
	HSS	6	Bottoming	H8	RH	1191224500	1191224501	1191224502	1191224505	1191224506
<b>1-5/16"-16 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H4	RH	1191224600	1191224601	1191224602	1191224605	1191224606
	HSS	6	Plug	H4	RH	1191224700	1191224701	1191224702	1191224705	1191224706
	HSS	6	Bottoming	H4	RH	1191224800	1191224801	1191224802	1191224805	1191224806
	HSS	6	Taper	H6	RH	1191224900	1191224901	1191224902	1191224905	1191224906
	HSS	6	Plug	H6	RH	1191225000	1191225001	1191225002	1191225005	1191225006
	HSS	6	Bottoming	H6	RH	1191225100	1191225101	1191225102	1191225105	1191225106
<b>1-5/16"-18 UNEF</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H4	RH	1191225200	1191225201	1191225202	1191225205	1191225206
	HSS	6	Plug	H4	RH	1191225300	1191225301	1191225302	1191225305	1191225306
	HSS	6	Bottoming	H4	RH	1191225400	1191225401	1191225402	1191225405	1191225406
	HSS	6	Taper	H6	RH	1191225500	1191225501	1191225502	1191225505	1191225506
	HSS	6	Plug	H6	RH	1191225600	1191225601	1191225602	1191225605	1191225606
	HSS	6	Bottoming	H6	RH	1191225700	1191225701	1191225702	1191225705	1191225706

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>1-5/16"-20 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H4	RH	1191225800	1191225801	1191225802	1191225805	1191225806
	HSS	6	Plug	H4	RH	1191225900	1191225901	1191225902	1191225905	1191225906
	HSS	6	Bottoming	H4	RH	1191226000	1191226001	1191226002	1191226005	1191226006
<b>1-3/8"-4 ACME</b>										
Acme										
	HSS	4	Taper		RH	1191226100	1191226101	1191226102	1191226105	1191226106
	HSS	4	Plug		RH	1191226200	1191226201	1191226202	1191226205	1191226206
	HSS	4	Taper		LH	1191226300	1191226301	1191226302	1191226305	1191226306
	HSS	4	Plug		LH	1191226400	1191226401	1191226402	1191226405	1191226406
Tandem Acme										
	HSS	4	None		RH	1191226500	1191226501	1191226502	1191226505	1191226506
	HSS	4	None		LH	1191226600	1191226601	1191226602	1191226605	1191226606
<b>1-3/8"-6 UNC</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H4	LH	1191226700	1191226701	1191226702	1191226705	1191226706
	HSS	4	Plug	H4	LH	1191226800	1191226801	1191226802	1191226805	1191226806
	HSS	4	Bottoming	H4	LH	1191226900	1191226901	1191226902	1191226905	1191226906
<b>1-3/8"-8 UN</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H5	RH	1191227000	1191227001	1191227002	1191227005	1191227006
	HSS	4	Plug	H5	RH	1191227100	1191227101	1191227102	1191227105	1191227106
	HSS	4	Bottoming	H5	RH	1191227200	1191227201	1191227202	1191227205	1191227206
<b>1-3/8"-12 UNF</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H4	LH	1191227300	1191227301	1191227302	1191227305	1191227306
	HSS	6	Plug	H4	LH	1191227400	1191227401	1191227402	1191227405	1191227406
	HSS	6	Bottoming	H4	LH	1191227500	1191227501	1191227502	1191227505	1191227506
<b>1-3/8"-16 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H4	RH	1191227600	1191227601	1191227602	1191227605	1191227606
	HSS	6	Plug	H4	RH	1191227700	1191227701	1191227702	1191227705	1191227706
	HSS	6	Bottoming	H4	RH	1191227800	1191227801	1191227802	1191227805	1191227806
<b>1-3/8"-18 UNEF</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H4	RH	1191227900	1191227901	1191227902	1191227905	1191227906
	HSS	6	Plug	H4	RH	1191228000	1191228001	1191228002	1191228005	1191228006
	HSS	6	Bottoming	H4	RH	1191228100	1191228101	1191228102	1191228105	1191228106
	HSS	6	Taper	H6	RH	1191228200	1191228201	1191228202	1191228205	1191228206
	HSS	6	Plug	H6	RH	1191228300	1191228301	1191228302	1191228305	1191228306
	HSS	6	Bottoming	H6	RH	1191228400	1191228401	1191228402	1191228405	1191228406
<b>1-3/8"-20 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H4	RH	1191228500	1191228501	1191228502	1191228505	1191228506
	HSS	6	Plug	H4	RH	1191228600	1191228601	1191228602	1191228605	1191228606
	HSS	6	Bottoming	H4	RH	1191228700	1191228701	1191228702	1191228705	1191228706



Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>1-7/16"-18 UNEF</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H4	RH	1191228800	1191228801	1191228802	1191228805	1191228806
	HSS	6	Plug	H4	RH	1191228900	1191228901	1191228902	1191228905	1191228906
	HSS	6	Bottoming	H4	RH	1191229000	1191229001	1191229002	1191229005	1191229006
	HSS	6	Taper	H6	RH	1191229100	1191229101	1191229102	1191229105	1191229106
	HSS	6	Plug	H6	RH	1191229200	1191229201	1191229202	1191229205	1191229206
	HSS	6	Bottoming	H6	RH	1191229300	1191229301	1191229302	1191229305	1191229306
<b>1-1/2"-4 ACME</b>										
Acme										
	HSS	4	Taper		RH	1191229400	1191229401	1191229402	1191229405	1191229406
	HSS	4	Plug		RH	1191229500	1191229501	1191229502	1191229505	1191229506
	HSS	4	Taper		LH	1191229600	1191229601	1191229602	1191229605	1191229606
	HSS	4	Plug		LH	1191229700	1191229701	1191229702	1191229705	1191229706
Tandem Acme										
	HSS	4	None		RH	1191229800	1191229801	1191229802	1191229805	1191229806
	HSS	4	None		LH	1191229900	1191229901	1191229902	1191229905	1191229906
<b>1-1/2"-6 UNC</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	H4	LH	1191230000	1191230001	1191230002	1191230005	1191230006
	HSS	4	Plug	H4	LH	1191230100	1191230101	1191230102	1191230105	1191230106
	HSS	4	Bottoming	H4	LH	1191230200	1191230201	1191230202	1191230205	1191230206
10" Ext	HSS	4	Taper	H4	RH	1191230300	1191230301	1191230302	1191230305	1191230306
10" Ext	HSS	4	Plug	H4	RH	1191230400	1191230401	1191230402	1191230405	1191230406
10" Ext	HSS	4	Bottoming	H4	RH	1191230500	1191230501	1191230502	1191230505	1191230506
12" Ext	HSS	4	Taper	H4	RH	1191230600	1191230601	1191230602	1191230605	1191230606
12" Ext	HSS	4	Plug	H4	RH	1191230700	1191230701	1191230702	1191230705	1191230706
12" Ext	HSS	4	Bottoming	H4	RH	1191230800	1191230801	1191230802	1191230805	1191230806
<b>1-1/2"-8 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H5	RH	1191230900	1191230901	1191230902	1191230905	1191230906
	HSS	6	Plug	H5	RH	1191231000	1191231001	1191231002	1191231005	1191231006
	HSS	6	Bottoming	H5	RH	1191231100	1191231101	1191231102	1191231105	1191231106
10" Ext	HSS	4	Taper	H5	RH	1191231200	1191231201	1191231202	1191231205	1191231206
10" Ext	HSS	4	Plug	H5	RH	1191231300	1191231301	1191231302	1191231305	1191231306
10" Ext	HSS	4	Bottoming	H5	RH	1191231400	1191231401	1191231402	1191231405	1191231406
12" Ext	HSS	4	Taper	H5	RH	1191231500	1191231501	1191231502	1191231505	1191231506
12" Ext	HSS	4	Plug	H5	RH	1191231600	1191231601	1191231602	1191231605	1191231606
12" Ext	HSS	4	Bottoming	H5	RH	1191231700	1191231701	1191231702	1191231705	1191231706
<b>1-1/2"-10 UNS</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H5	RH	1191231800	1191231801	1191231802	1191231805	1191231806
	HSS	6	Plug	H5	RH	1191231900	1191231901	1191231902	1191231905	1191231906
	HSS	6	Bottoming	H5	RH	1191232000	1191232001	1191232002	1191232005	1191232006
<b>1-1/2"-12 UNF</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H6	RH	1191233000	1191233001	1191233002	1191233005	1191233006
	HSS	6	Plug	H6	RH	1191233100	1191233101	1191233102	1191233105	1191233106
	HSS	6	Bottoming	H6	RH	1191233200	1191233201	1191233202	1191233205	1191233206
	HSS	6	Taper	H4	LH	1191232700	1191232701	1191232702	1191232705	1191232706
	HSS	6	Plug	H4	LH	1191232800	1191232801	1191232802	1191232805	1191232806
	HSS	6	Bottoming	H4	LH	1191232900	1191232901	1191232902	1191232905	1191232906

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>1-1/2"-16 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H4	RH	1191233300	1191233301	1191233302	1191233305	1191233306
	HSS	6	Plug	H4	RH	1191233400	1191233401	1191233402	1191233405	1191233406
	HSS	6	Bottoming	H4	RH	1191233500	1191233501	1191233502	1191233505	1191233506
<b>1-1/2"-18 UNEF</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H4	RH	1191233600	1191233601	1191233602	1191233605	1191233606
	HSS	6	Plug	H4	RH	1191233700	1191233701	1191233702	1191233705	1191233706
	HSS	6	Bottoming	H4	RH	1191233800	1191233801	1191233802	1191233805	1191233806
	HSS	6	Taper	H6	RH	1191233900	1191233901	1191233902	1191233905	1191233906
	HSS	6	Plug	H6	RH	1191234000	1191234001	1191234002	1191234005	1191234006
	HSS	6	Bottoming	H6	RH	1191234100	1191234101	1191234102	1191234105	1191234106
<b>1-1/2"-20 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H4	RH	1191234200	1191234201	1191234202	1191234205	1191234206
	HSS	6	Plug	H4	RH	1191234300	1191234301	1191234302	1191234305	1191234306
	HSS	6	Bottoming	H4	RH	1191234400	1191234401	1191234402	1191234405	1191234406
<b>1-1/2"-24 UNS</b>										
Straight Flute Hand Tap										
	HSS	8	Taper	H4	RH	1191234500	1191234501	1191234502	1191234505	1191234506
	HSS	8	Plug	H4	RH	1191234600	1191234601	1191234602	1191234605	1191234606
	HSS	8	Bottoming	H4	RH	1191234700	1191234701	1191234702	1191234705	1191234706
<b>1-9/16"-16 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H5	RH	1191234800	1191234801	1191234802	1191234805	1191234806
	HSS	6	Plug	H5	RH	1191234900	1191234901	1191234902	1191234905	1191234906
	HSS	6	Bottoming	H5	RH	1191235000	1191235001	1191235002	1191235005	1191235006
<b>1-9/16"-18 UNEF</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H5	RH	1191235100	1191235101	1191235102	1191235105	1191235106
	HSS	6	Plug	H5	RH	1191235200	1191235201	1191235202	1191235205	1191235206
	HSS	6	Bottoming	H5	RH	1191235300	1191235301	1191235302	1191235305	1191235306
<b>1-5/8"-5.5 UNS</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H7	RH	1191235400	1191235401	1191235402	1191235405	1191235406
	HSS	6	Plug	H7	RH	1191235500	1191235501	1191235502	1191235505	1191235506
	HSS	6	Bottoming	H7	RH	1191235600	1191235601	1191235602	1191235605	1191235606
<b>1-5/8"-8 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H6	RH	1191235700	1191235701	1191235702	1191235705	1191235706
	HSS	6	Plug	H6	RH	1191235800	1191235801	1191235802	1191235805	1191235806
	HSS	6	Bottoming	H6	RH	1191235900	1191235901	1191235902	1191235905	1191235906
<b>1-5/8"-12 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Plug	H4	RH	1191276400	1191276401	1191276402	1191276405	1191276406
	HSS	6	Bottoming	H4	RH	1191276500	1191276501	1191276502	1191276505	1191276506
	HSS	6	Taper	H6	RH	1191236000	1191236001	1191236002	1191236005	1191236006
	HSS	6	Plug	H6	RH	1191236100	1191236101	1191236102	1191236105	1191236106
	HSS	6	Bottoming	H6	RH	1191236200	1191236201	1191236202	1191236205	1191236206



# Fast Tap



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Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>1-5/8"-16 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H5	RH	1191236300	1191236301	1191236302	1191236305	1191236306
	HSS	6	Plug	H5	RH	1191236400	1191236401	1191236402	1191236405	1191236406
	HSS	6	Bottoming	H5	RH	1191236500	1191236501	1191236502	1191236505	1191236506
<b>1-5/8"-18 UNEF</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H5	RH	1191236600	1191236601	1191236602	1191236605	1191236606
	HSS	6	Plug	H5	RH	1191236700	1191236701	1191236702	1191236705	1191236706
	HSS	6	Bottoming	H5	RH	1191236800	1191236801	1191236802	1191236805	1191236806
<b>1-3/4"-5 UNC</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H7	RH	1191236900	1191236901	1191236902	1191236905	1191236906
	HSS	6	Plug	H7	RH	1191237000	1191237001	1191237002	1191237005	1191237006
	HSS	6	Bottoming	H7	RH	1191237100	1191237101	1191237102	1191237105	1191237106
<b>1-3/4"-8 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H6	RH	1191237200	1191237201	1191237202	1191237205	1191237206
	HSS	6	Plug	H6	RH	1191237300	1191237301	1191237302	1191237305	1191237306
	HSS	6	Bottoming	H6		1191237400	1191237401	1191237402	1191237405	1191237406
<b>1-3/4"-10 UNS</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H6	RH	1191237500	1191237501	1191237502	1191237505	1191237506
	HSS	6	Plug	H6	RH	1191237600	1191237601	1191237602	1191237605	1191237606
	HSS	6	Bottoming	H6	RH	1191237700	1191237701	1191237702	1191237705	1191237706
<b>1-3/4"-12 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H6	RH	1191237800	1191237801	1191237802	1191237805	1191237806
	HSS	6	Plug	H6	RH	1191237900	1191237901	1191237902	1191237905	1191237906
	HSS	6	Bottoming	H6	RH	1191238000	1191238001	1191238002	1191238005	1191238006
	HSS	6	Taper	H8	RH	1191238100	1191238101	1191238102	1191238105	1191238106
	HSS	6	Plug	H8	RH	1191238200	1191238201	1191238202	1191238205	1191238206
	HSS	6	Bottoming	H8	RH	1191238300	1191238301	1191238302	1191238305	1191238306
<b>1-3/4"-16 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H5	RH	1191238400	1191238401	1191238402	1191238405	1191238406
	HSS	6	Plug	H5	RH	1191238500	1191238501	1191238502	1191238505	1191238506
	HSS	6	Bottoming	H5	RH	1191238600	1191238601	1191238602	1191238605	1191238606
	HSS	6	Taper	H7	RH	1191238700	1191238701	1191238702	1191238705	1191238706
	HSS	6	Plug	H7	RH	1191238800	1191238801	1191238802	1191238805	1191238806
	HSS	6	Bottoming	H7	RH	1191238900	1191238901	1191238902	1191238905	1191238906
<b>1-3/4"-18 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H5	RH	1191239000	1191239001	1191239002	1191239005	1191239006
	HSS	6	Plug	H5	RH	1191239100	1191239101	1191239102	1191239105	1191239106
	HSS	6	Bottoming	H5	RH	1191239200	1191239201	1191239202	1191239205	1191239206
<b>1-7/8"-5 UNS</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H7	RH	1191239300	1191239301	1191239302	1191239305	1191239306
	HSS	6	Plug	H7	RH	1191239400	1191239401	1191239402	1191239405	1191239406
	HSS	6	Bottoming	H7	RH	1191239500	1191239501	1191239502	1191239505	1191239506

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>1-7/8"-8 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H6	RH	1191239600	1191239601	1191239602	1191239605	1191239606
	HSS	6	Plug	H6	RH	1191239700	1191239701	1191239702	1191239705	1191239706
	HSS	6	Bottoming	H6	RH	1191239800	1191239801	1191239802	1191239805	1191239806
<b>1-7/8"-12 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H6	RH	1191239900	1191239901	1191239902	1191239905	1191239906
	HSS	6	Plug	H6	RH	1191240000	1191240001	1191240002	1191240005	1191240006
	HSS	6	Bottoming	H6	RH	1191240100	1191240101	1191240102	1191240105	1191240106
	HSS	6	Taper	H8	RH	1191240200	1191240201	1191240202	1191240205	1191240206
	HSS	6	Plug	H8	RH	1191240300	1191240301	1191240302	1191240305	1191240306
	HSS	6	Bottoming	H8	RH	1191240400	1191240401	1191240402	1191240405	1191240406
<b>1-7/8"-16 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H5	RH	1191240500	1191240501	1191240502	1191240505	1191240506
	HSS	6	Plug	H5	RH	1191240600	1191240601	1191240602	1191240605	1191240606
	HSS	6	Bottoming	H5	RH	1191240700	1191240701	1191240702	1191240705	1191240706
<b>2"-4.5 UNC</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H7	RH	1191240800	1191240801	1191240802	1191240805	1191240806
	HSS	6	Plug	H7	RH	1191240900	1191240901	1191240902	1191240905	1191240906
	HSS	6	Bottoming	H7	RH	1191241000	1191241001	1191241002	1191241005	1191241006
<b>2"-8 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H6	RH	1191241100	1191241101	1191241102	1191241105	1191241106
	HSS	6	Plug	H6	RH	1191241200	1191241201	1191241202	1191241205	1191241206
	HSS	6	Bottoming	H6	RH	1191241300	1191241301	1191241302	1191241305	1191241306
<b>2"-12 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H6	RH	1191241900	1191241901	1191241902	1191241905	1191241906
	HSS	6	Plug	H6	RH	1191242000	1191242001	1191242002	1191242005	1191242006
	HSS	6	Bottoming	H6	RH	1191242100	1191242101	1191242102	1191242105	1191242106
	HSS	6	Taper	H8	RH	1191242200	1191242201	1191242202	1191242205	1191242206
	HSS	6	Plug	H8	RH	1191242300	1191242301	1191242302	1191242305	1191242306
	HSS	6	Bottoming	H8	RH	1191242400	1191242401	1191242402	1191242405	1191242406
<b>2"-16 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H5	RH	1191242500	1191242501	1191242502	1191242505	1191242506
	HSS	6	Plug	H5	RH	1191242600	1191242601	1191242602	1191242605	1191242606
	HSS	6	Bottoming	H5	RH	1191242700	1191242701	1191242702	1191242705	1191242706
<b>2"-20 UN</b>										
Straight Flute Hand Tap										
	HSS	8	Taper	H5	RH	1191242800	1191242801	1191242802	1191242805	1191242806
	HSS	8	Plug	H5	RH	1191242900	1191242901	1191242902	1191242905	1191242906
	HSS	8	Bottoming	H5	RH	1191243000	1191243001	1191243002	1191243005	1191243006
<b>2-1/8"-8 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H6	RH	1191243100	1191243101	1191243102	1191243105	1191243106
	HSS	6	Plug	H6	RH	1191243200	1191243201	1191243202	1191243205	1191243206
	HSS	6	Bottoming	H6	RH	1191243300	1191243301	1191243302	1191243305	1191243306

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>2-1/8"-12 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H6	RH	1191243400	1191243401	1191243402	1191243405	1191243406
	HSS	6	Plug	H6	RH	1191243500	1191243501	1191243502	1191243505	1191243506
	HSS	6	Bottoming	H6	RH	1191243600	1191243601	1191243602	1191243605	1191243606
<b>2-1/8"-16 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H5	RH	1191243700	1191243701	1191243702	1191243705	1191243706
	HSS	6	Plug	H5	RH	1191243800	1191243801	1191243802	1191243805	1191243806
	HSS	6	Bottoming	H5	RH	1191243900	1191243901	1191243902	1191243905	1191243906
<b>2-1/4"-4.5 UNC</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H7	RH	1191244000	1191244001	1191244002	1191244005	1191244006
	HSS	6	Plug	H7	RH	1191244100	1191244101	1191244102	1191244105	1191244106
	HSS	6	Bottoming	H7	RH	1191244200	1191244201	1191244202	1191244205	1191244206
<b>2-1/4"-8 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H6	RH	1191244300	1191244301	1191244302	1191244305	1191244306
	HSS	6	Plug	H6	RH	1191244400	1191244401	1191244402	1191244405	1191244406
	HSS	6	Bottoming	H6	RH	1191244500	1191244501	1191244502	1191244505	1191244506
<b>2-1/4"-12 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H6	RH	1191244600	1191244601	1191244602	1191244605	1191244606
	HSS	6	Plug	H6	RH	1191244700	1191244701	1191244702	1191244705	1191244706
	HSS	6	Bottoming	H6	RH	1191244800	1191244801	1191244802	1191244805	1191244806
<b>2-1/4"-16 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H5	RH	1191244900	1191244901	1191244902	1191244905	1191244906
	HSS	6	Plug	H5	RH	1191245000	1191245001	1191245002	1191245005	1191245006
	HSS	6	Bottoming	H5	RH	1191245100	1191245101	1191245102	1191245105	1191245106
<b>2-3/8"-8 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H6	RH	1191245200	1191245201	1191245202	1191245205	1191245206
	HSS	6	Plug	H6	RH	1191245300	1191245301	1191245302	1191245305	1191245306
	HSS	6	Bottoming	H6	RH	1191245400	1191245401	1191245402	1191245405	1191245406
<b>2-3/8"-12 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H6	RH	1191245500	1191245501	1191245502	1191245505	1191245506
	HSS	6	Plug	H6	RH	1191245600	1191245601	1191245602	1191245605	1191245606
	HSS	6	Bottoming	H6	RH	1191245700	1191245701	1191245702	1191245705	1191245706
<b>2-3/8"-16 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H5	RH	1191245800	1191245801	1191245802	1191245805	1191245806
	HSS	6	Plug	H5	RH	1191245900	1191245901	1191245902	1191245905	1191245906
	HSS	6	Bottoming	H5	RH	1191246000	1191246001	1191246002	1191246005	1191246006
<b>2-1/2"-4 UNC</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H7	RH	1191246100	1191246101	1191246102	1191246105	1191246106
	HSS	6	Plug	H7	RH	1191246200	1191246201	1191246202	1191246205	1191246206
	HSS	6	Bottoming	H7	RH	1191246300	1191246301	1191246302	1191246305	1191246306

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>2-1/2"-8 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H6	RH	1191246400	1191246401	1191246402	1191246405	1191246406
	HSS	6	Plug	H6	RH	1191246500	1191246501	1191246502	1191246505	1191246506
	HSS	6	Bottoming	H6	RH	1191246600	1191246601	1191246602	1191246605	1191246606
<b>2-1/2"-12 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H6	RH	1191246800	1191246801	1191246802	1191246805	1191246806
	HSS	6	Plug	H6	RH	1191246900	1191246901	1191246902	1191246905	1191246906
	HSS	6	Bottoming	H6	RH	1191247000	1191247001	1191247002	1191247005	1191247006
<b>2-1/2"-16 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H5	RH	1191247100	1191247101	1191247102	1191247105	1191247106
	HSS	6	Plug	H5	RH	1191247200	1191247201	1191247202	1191247205	1191247206
	HSS	6	Bottoming	H5	RH	1191247300	1191247301	1191247302	1191247305	1191247306
<b>2-3/4"-12 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H7	RH	1191247400	1191247401	1191247402	1191247405	1191247406
	HSS	6	Plug	H7	RH	1191247500	1191247501	1191247502	1191247505	1191247506
	HSS	6	Bottoming	H7	RH	1191247600	1191247601	1191247602	1191247605	1191247606
<b>3"-4 UNC</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H9	RH	1191247700	1191247701	1191247702	1191247705	1191247706
	HSS	6	Plug	H9	RH	1191247800	1191247801	1191247802	1191247805	1191247806
	HSS	6	Bottoming	H9	RH	1191247900	1191247901	1191247902	1191247905	1191247906
<b>3"-8 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H8	RH	1191248000	1191248001	1191248002	1191248005	1191248006
	HSS	6	Plug	H8	RH	1191248100	1191248101	1191248102	1191248105	1191248106
	HSS	6	Bottoming	H8	RH	1191248200	1191248201	1191248202	1191248205	1191248206
<b>3"-12 UN</b>										
Straight Flute Hand Tap										
	HSS	8	Taper	H7	RH	1191248500	1191248501	1191248502	1191248505	1191248506
	HSS	8	Plug	H7	RH	1191248600	1191248601	1191248602	1191248605	1191248606
	HSS	8	Bottoming	H7	RH	1191248700	1191248701	1191248702	1191248705	1191248706
<b>3"-16 UN</b>										
Straight Flute Hand Tap										
	HSS	8	Taper	H7	RH	1191248800	1191248801	1191248802	1191248805	1191248806
	HSS	8	Plug	H7	RH	1191248900	1191248901	1191248902	1191248905	1191248906
	HSS	8	Bottoming	H7	RH	1191249000	1191249001	1191249002	1191249005	1191249006
<b>3-1/8"-12 UN</b>										
Straight Flute Hand Tap										
	HSS	8	Taper	H7	RH	1191249100	1191249101	1191249102	1191249105	1191249106
	HSS	8	Plug	H7	RH	1191249200	1191249201	1191249202	1191249205	1191249206
	HSS	8	Bottoming	H7	RH	1191249300	1191249301	1191249302	1191249305	1191249306
<b>3-1/4"-8 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H8	RH	1191249400	1191249401	1191249402	1191249405	1191249406
	HSS	6	Plug	H8	RH	1191249500	1191249501	1191249502	1191249505	1191249506
	HSS	6	Bottoming	H8	RH	1191249600	1191249601	1191249602	1191249605	1191249606



# Fast Tap



CUSTOMER SERVICE: telephone 800.348.2885 • fax 800.892.4290

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>3-1/4"-12 UN</b>										
Straight Flute Hand Tap										
	HSS	8	Taper	H7	RH	1191249700	1191249701	1191249702	1191249705	1191249706
	HSS	8	Plug	H7	RH	1191249800	1191249801	1191249802	1191249805	1191249806
	HSS	8	Bottoming	H7	RH	1191249900	1191249901	1191249902	1191249905	1191249906
<b>3-1/2"-4 UNC</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H9	RH	1191250000	1191250001	1191250002	1191250005	1191250006
	HSS	6	Plug	H9	RH	1191250100	1191250101	1191250102	1191250105	1191250106
	HSS	6	Bottoming	H9	RH	1191250200	1191250201	1191250202	1191250205	1191250206
<b>3-1/2"-8 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H8	RH	1191250300	1191250301	1191250302	1191250305	1191250306
	HSS	6	Plug	H8	RH	1191250400	1191250401	1191250402	1191250405	1191250406
	HSS	6	Bottoming	H8	RH	1191250500	1191250501	1191250502	1191250505	1191250506
<b>3-1/2"-12 UN</b>										
Straight Flute Hand Tap										
	HSS	8	Taper	H7	RH	1191250800	1191250801	1191250802	1191250805	1191250806
	HSS	8	Plug	H7	RH	1191250900	1191250901	1191250902	1191250905	1191250906
	HSS	8	Bottoming	H7	RH	1191251000	1191251001	1191251002	1191251005	1191251006
<b>3-3/4"-4 UNC</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H9	RH	1191251100	1191251101	1191251102	1191251105	1191251106
	HSS	10	Plug	H9	RH	1191251200	1191251201	1191251202	1191251205	1191251206
	HSS	10	Bottoming	H9	RH	1191251300	1191251301	1191251302	1191251305	1191251306
<b>3-3/4"-8 UN</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	H8	RH	1191251400	1191251401	1191251402	1191251405	1191251406
	HSS	10	Plug	H8	RH	1191251500	1191251501	1191251502	1191251505	1191251506
	HSS	10	Bottoming	H8	RH	1191251600	1191251601	1191251602	1191251605	1191251606
<b>3-3/4"-12 UN</b>										
Straight Flute Hand Tap										
	HSS	10	Taper	H7	RH	1191251700	1191251701	1191251702	1191251705	1191251706
	HSS	10	Plug	H7	RH	1191251800	1191251801	1191251802	1191251805	1191251806
	HSS	10	Bottoming	H7	RH	1191251900	1191251901	1191251902	1191251905	1191251906
<b>4"-4 UNC</b>										
Straight Flute Hand Tap										
	HSS	10	Taper	H9	RH	1191252000	1191252001	1191252002	1191252005	1191252006
	HSS	10	Plug	H9	RH	1191252100	1191252101	1191252102	1191252105	1191252106
	HSS	10	Bottoming	H9	RH	1191252200	1191252201	1191252202	1191252205	1191252206
<b>4"-8 UN</b>										
Straight Flute Hand Tap										
	HSS	8	Taper	H8	RH	1191252300	1191252301	1191252302	1191252305	1191252306
	HSS	10	Plug	H8	RH	1191252400	1191252401	1191252402	1191252405	1191252406
	HSS	10	Bottoming	H8	RH	1191252500	1191252501	1191252502	1191252505	1191252506
<b>4"-12 UN</b>										
Straight Flute Hand Tap										
	HSS	8	Taper	H7	RH	1191252800	1191252801	1191252802	1191252805	1191252806
	HSS	10	Plug	H7	RH	1191252900	1191252901	1191252902	1191252905	1191252906
	HSS	10	Bottoming	H7	RH	1191253000	1191253001	1191253002	1191253005	1191253006



Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>1/16"-27</b>										
NPTF										
	HSS	4	Plug		LH	1191128700	1191128701	1191128702	1191128705	1191128706
4" Ext	HSS	4	Plug		RH	1191259900	1191259901	1191259902	1191259905	1191259906
6" Ext	HSS	4	Plug		RH	1191128800	1191128801	1191128802	1191128805	1191128806
Interrupted	HSS	5	Plug		RH	1191260600	1191260601	1191260602	1191260605	1191260606
	Carbide	4	Plug		RH	1191372000	NA	NA	1191372005	1191372006
<b>1/8"-27</b>										
NPTF										
	HSS	4	Plug		LH	1191128900	1191128901	1191128902	1191128905	1191128906
4" Ext	HSS	4	Plug		RH	1191129000	1191129001	1191129002	1191129005	1191129006
6" Ext	HSS	4	Plug		RH	1191129100	1191129101	1191129102	1191129105	1191129106
6" Ext - Interrupted	HSS	5	Plug		RH	1191129200	1191129201	1191129202	1191129205	1191129206
10" Ext	HSS	4	Plug		RH	1191280000	1191280001	1191280002	1191280005	1191280006
12" Ext	HSS	4	Plug		RH	1191280100	1191280101	1191280102	1191280105	1191280106
30° Spiral	HSS	4	Plug		RH	1191253100	1191253101	1191253102	1191253105	1191253106
	Carbide	4	Plug		RH	1191372100	NA	NA	1191372105	1191372106
NPSF										
6" Ext	HSS	4	Plug		RH	1191262900	1191262901	1191262902	1191262905	1191262906
	Carbide	4	Plug		RH	1191372300	NA	NA	1191372305	1191372306
NPSI										
	HSS	4	Plug		RH	1191129300	1191129301	1191129302	1191129305	1191129306
	HSS	4	Bottoming		RH	1191129400	1191129401	1191129402	1191129405	1191129406
<b>1/4"-18</b>										
NPTF										
30° Spiral	HSS	4	Plug		RH	1191130500	1191130501	1191130502	1191130505	1191130506
	HSS	4	Plug		LH	1191130600	1191130601	1191130602	1191130605	1191130606
4" Ext	HSS	4	Plug		RH	1191130700	1191130701	1191130702	1191130705	1191130706
6" Ext	HSS	4	Plug		RH	1191130800	1191130801	1191130802	1191130805	1191130806
6" Ext - Interrupted	HSS	5	Plug		RH	1191130900	1191130901	1191130902	1191130905	1191130906
8" Ext	HSS	4	Plug		RH	1191131000	1191131001	1191131002	1191131005	1191131006
8" Ext	HSS	4	Bottoming		RH	1191131100	1191131101	1191131102	1191131105	1191131106
	Carbide	4	Plug		RH	1191372200	NA	NA	1191372205	1191372206
NPSF										
6" Ext	HSS	4	Plug		RH	1191262500	1191262501	1191262502	1191262505	1191262506
NPSI										
	HSS	4	Plug		RH	1191131200	1191131201	1191131202	1191131205	1191131206
PTF - SAE										
.361 Projection	HSS	4	Plug		RH	1191261400	1191261401	1191261402	1191261405	1191261406
.361 Projection	HSS	4	Bottoming		RH	1191261500	1191261501	1191261502	1191261505	1191261506
<b>3/8"-18</b>										
NPTF										
	HSS	4	Plug		LH	1191150300	1191150301	1191150302	1191150305	1191150306
30° Spiral	HSS	4	Plug		RH	1191150200	1191150201	1191150202	1191150205	1191150206
6" Ext	HSS	4	Plug		RH	1191150400	1191150401	1191150402	1191150405	1191150406
6" Ext - Interrupted	HSS	5	Plug		RH	1191150500	1191150501	1191150502	1191150505	1191150506
8" Ext	HSS	4	Plug		RH	1191150600	1191150601	1191150602	1191150605	1191150606
NPSF										
6" Ext	HSS	4	Plug		RH	1191277400	1191277401	1191277402	1191277405	1191277406
NPSI										
	HSS	4	Plug		RH	1191150700	1191150701	1191150702	1191150705	1191150706





# Fast Tap



CUSTOMER SERVICE: telephone 800.348.2885 • fax 800.892.4290

## National Pipe Tap Sizes

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>1/2"-14</b>										
NPTF										
30° Spiral	HSS	4	Plug		RH	1191165000	1191165001	1191165002	1191165005	1191165006
	HSS	4	Plug		LH	1191165100	1191165101	1191165102	1191165105	1191165106
6" Ext	HSS	4	Plug		RH	1191165200	1191165201	1191165202	1191165205	1191165206
6" Ext - Interrupted	HSS	5	Plug		RH	1191165300	1191165301	1191165302	1191165305	1191165306
8" Ext	HSS	4	Plug		RH	1191165400	1191165401	1191165402	1191165405	1191165406
10" Ext	HSS	4	Plug		RH	1191281400	1191281401	1191281402	1191281405	1191281406
NPSF										
6" Ext	HSS	4	Plug		RH	1191263500	1191263501	1191263502	1191263505	1191263506
NPSI										
	HSS	4	Plug		RH	1191165500	1191165501	1191165502	1191165505	1191165506
<b>3/4"-14</b>										
NPTF										
	HSS	5	Plug		RH	1191187500	1191187501	1191187502	1191187505	1191187506
	HSS	5	Plug		LH	1191187600	1191187601	1191187602	1191187605	1191187606
6" Ext	HSS	5	Plug		RH	1191187700	1191187701	1191187702	1191187705	1191187706
6" Ext - Interrupted	HSS	5	Plug		RH	1191187800	1191187801	1191187802	1191187805	1191187806
8" Ext	HSS	5	Plug		RH	1191187900	1191187901	1191187902	1191187905	1191187906
10" Ext	HSS	5	Plug		RH	1191282200	1191282201	1191282202	1191282205	1191282206
NPSI										
	HSS	5	Plug		RH	1191188000	1191188001	1191188002	1191188005	1191188006
<b>1"-11.5</b>										
NPTF										
6" Ext	HSS	5	Plug		LH	1191204400	1191204401	1191204402	1191204405	1191204406
	HSS	5	Plug		RH	1191204500	1191204501	1191204502	1191204505	1191204506
10" Ext	HSS	5	Plug		RH	1191204600	1191204601	1191204602	1191204605	1191204606
<b>1" 1/4-11.5</b>										
NPTF										
	HSS	5	Plug		LH	1191221000	1191221001	1191221002	1191221005	1191221006
NPS										
	HSS	5	Plug		RH	1191221100	1191221101	1191221102	1191221105	1191221106
NPSF										
	HSS	5	Plug		RH	1191221200	1191221201	1191221202	1191221205	1191221206
<b>1" 1/2-11.5</b>										
NPTF										
	HSS	7	Plug		LH	1191232500	1191232501	1191232502	1191232505	1191232506
NPS										
	HSS	7	Plug		RH	1191232600	1191232601	1191232602	1191232605	1191232606
<b>2"-11.5</b>										
NPS										
	HSS	7	Plug		RH	1191241800	1191241801	1191241802	1191241805	1191241806
<b>2 1/2"-8</b>										
NPTF										
	HSS	7	Plug		RH	1191246700	1191246701	1191246702	1191246705	1191246706



Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>3"-8</b>										
NPTF										
	HSS	9	Plug		RH	1191248300	1191248301	1191248302	1191248305	1191248306
Interrupted	HSS	9	Plug		RH	1191248400	1191248401	1191248402	1191248405	1191248406
<b>3 1/2"-8</b>										
NPTF										
	HSS	9	Plug		RH	1191250600	1191250601	1191250602	1191250605	1191250606
Interrupted	HSS	9	Plug		RH	1191250700	1191250701	1191250702	1191250705	1191250706
<b>4"-8</b>										
NPTF										
	HSS	9	Plug		RH	1191252600	1191252601	1191252602	1191252605	1191252606
Interrupted	HSS	9	Plug		RH	1191252700	1191252701	1191252702	1191252705	1191252706

British Standard Pipe Tap Sizes

British Standard Pipe										
<b>1/8"-27</b>										
BSPT										
	8" Ext	HSS	4	Plug		1191279900	1191279901	1191279902	1191279905	1191279906
<b>1/8"-28</b>										
BSPT										
	55 MOD	HSS	4	Plug	RH	1191129500	1191129501	1191129502	1191129505	1191129506
	55 Full Form	HSS	4	Plug	RH	1191278400	1191278401	1191278402	1191278405	1191278406
	55 MOD	HSS	4	Bottoming	RH	1191129600	1191129601	1191129602	1191129605	1191129606
BSPSP										
	55 MOD	HSS	4	Plug	RH	1191129700	1191129701	1191129702	1191129705	1191129706
	55 MOD	HSS	4	Bottoming	RH	1191129800	1191129801	1191129802	1191129805	1191129806
	55 Full Form	HSS	4	Plug	RH	1191277500	1191277501	1191277502	1191277505	1191277506
	55 Full Form	HSS	4	None	RH	1191282700	1191282701	1191282702	1191282705	1191282706
	55 Full Form	HSS	4	Bottoming	RH	1191282800	1191282801	1191282802	1191282805	1191282806
<b>1/4"-19</b>										
BSPT										
	55 MOD	HSS	4	Plug	RH	1191131300	1191131301	1191131302	1191131305	1191131306
	55 MOD	HSS	4	Bottoming	RH	1191131400	1191131401	1191131402	1191131405	1191131406
	55 Full Form	HSS	4	Plug	RH	1191278500	1191278501	1191278502	1191278505	1191278506
BSPSP										
	55 MOD	HSS	4	Plug	RH	1191131500	1191131501	1191131502	1191131505	1191131506
	55 MOD	HSS	4	Bottoming	RH	1191131600	1191131601	1191131602	1191131605	1191131606
	55 Full Form	HSS	4	Plug	RH	1191277600	1191277601	1191277602	1191277605	1191277606
	55 Full Form	HSS	4	Bottoming	RH	1191283000	1191283001	1191283002	1191283005	1191283006
	55 Full Form	HSS	4	None	RH	1191282900	1191282901	1191282902	1191282905	1191282906

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>3/8"-19</b>										
BSPT										
55 MOD	HSS	4	Plug		RH	1191150800	1191150801	1191150802	1191150805	1191150806
55 MOD	HSS	4	Bottoming		RH	1191150900	1191150901	1191150902	1191150905	1191150906
55 Full Form	HSS	4	Plug		RH	1191278600	1191278601	1191278602	1191278605	1191278606
BSPP										
55 MOD	HSS	4	Plug		RH	1191151000	1191151001	1191151002	1191151005	1191151006
55 MOD	HSS	4	Bottoming		RH	1191151100	1191151101	1191151102	1191151105	1191151106
55 Full Form	HSS	4	Plug		RH	1191277700	1191277701	1191277702	1191277705	1191277706
55 Full Form	HSS	4	Bottoming		RH	1191283200	1191283201	1191283202	1191283205	1191283206
55 Full Form	HSS	4	None		RH	1191283100	1191283101	1191283102	1191283105	1191283106
<b>1/2"-14</b>										
BSPT										
55 MOD	HSS	4	Plug		RH	1191165600	1191165601	1191165602	1191165605	1191165606
55 Full Form	HSS	4	Plug		RH	1191278700	1191278701	1191278702	1191278705	1191278706
55 MOD	HSS	4	Bottoming		RH	1191165700	1191165701	1191165702	1191165705	1191165706
BSPP										
55 MOD	HSS	4	Plug		RH	1191165800	1191165801	1191165802	1191165805	1191165806
55 MOD	HSS	4	Bottoming		RH	1191165900	1191165901	1191165902	1191165905	1191165906
55 Full Form	HSS	4	Plug		RH	1191277800	1191277801	1191277802	1191277805	1191277806
55 Full Form	HSS	4	Bottoming		RH	1191283400	1191283401	1191283402	1191283405	1191283406
55 Full Form	HSS	4	None		RH	1191283300	1191283301	1191283302	1191283305	1191283306
<b>3/4"-14</b>										
BSPT										
55 MOD	HSS	5	Plug		RH	1191188100	1191188101	1191188102	1191188105	1191188106
55 MOD	HSS	5	Bottoming		RH	1191188200	1191188201	1191188202	1191188205	1191188206
55 Full Form	HSS	5	Plug		RH	1191278800	1191278801	1191278802	1191278805	1191278806
BSPP										
55 MOD	HSS	5	Plug		RH	1191188300	1191188301	1191188302	1191188305	1191188306
55 MOD	HSS	5	Bottoming		RH	1191188400	1191188401	1191188402	1191188405	1191188406
55 Full Form	HSS	5	Plug		RH	1191277900	1191277901	1191277902	1191277905	1191277906
55 Full Form	HSS	5	Bottoming		RH	1191283600	1191283601	1191283602	1191283605	1191283606
55 Full Form	HSS	5	None		RH	1191283500	1191283501	1191283502	1191283505	1191283506
<b>1"-11</b>										
BSPT										
55 MOD	HSS	5	Plug		RH	1191204000	1191204001	1191204002	1191204005	1191204006
55 MOD	HSS	5	Bottoming		RH	1191204100	1191204101	1191204102	1191204105	1191204106
55 Full Form	HSS	5	Plug		RH	1191278900	1191278901	1191278902	1191278905	1191278906
BSPP										
55 MOD	HSS	5	Plug		RH	1191204200	1191204201	1191204202	1191204205	1191204206
55 MOD	HSS	5	Bottoming		RH	1191204300	1191204301	1191204302	1191204305	1191204306
55 Full Form	HSS	5	Plug		RH	1191278000	1191278001	1191278002	1191278005	1191278006
55 Full Form	HSS	5	Bottoming		RH	1191283800	1191283801	1191283802	1191283805	1191283806
55 Full Form	HSS	5	None		RH	1191283700	1191283701	1191283702	1191283705	1191283706

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	H Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>1" 1/4-11</b>										
BSPT										
55 MOD	HSS	5	Plug		RH	1191220600	1191220601	1191220602	1191220605	1191220606
55 MOD	HSS	5	Bottoming		RH	1191220700	1191220701	1191220702	1191220705	1191220706
55 Full Form	HSS	5	Plug		RH	1191279000	1191279001	1191279002	1191279005	1191279006
BSPP										
55 MOD	HSS	5	Plug		RH	1191220800	1191220801	1191220802	1191220805	1191220806
55 MOD	HSS	5	Bottoming		RH	1191220900	1191220901	1191220902	1191220905	1191220906
55 Full Form	HSS	5	Bottoming		RH	1191284000	1191284001	1191284002	1191284005	1191284006
55 Full Form	HSS	5	Plug		RH	1191278100	1191278101	1191278102	1191278105	1191278106
55 Full Form	HSS	5	None		RH	1191283900	1191283901	1191283902	1191283905	1191283906
<b>1" 1/2-11</b>										
BSPT										
55 MOD	HSS	7	Taper		RH	1191232100	1191232101	1191232102	1191232105	1191232106
55 MOD	HSS	7	Bottoming		RH	1191232200	1191232201	1191232202	1191232205	1191232206
55 Full Form	HSS	7	Plug		RH	1191279100	1191279101	1191279102	1191279105	1191279106
BSPP										
55 MOD	HSS	7	Plug		RH	1191232300	1191232301	1191232302	1191232305	1191232306
55 MOD	HSS	7	Bottoming		RH	1191232400	1191232401	1191232402	1191232405	1191232406
55 Full Form	HSS	7	Plug		RH	1191278200	1191278201	1191278202	1191278205	1191278206
55 Full Form	HSS	7	Bottoming		RH	1191284200	1191284201	1191284202	1191284205	1191284206
55 Full Form	HSS	7	None		RH	1191284100	1191284101	1191284102	1191284105	1191284106
<b>2"-11</b>										
BSPT										
55 MOD	HSS	7	Plug		RH	1191241400	1191241401	1191241402	1191241405	1191241406
55 MOD	HSS	7	Bottoming		RH	1191241500	1191241501	1191241502	1191241505	1191241506
55 Full Form	HSS	7	Plug		RH	1191279200	1191279201	1191279202	1191279205	1191279206
BSPP										
55 MOD	HSS	7	Plug		RH	1191241600	1191241601	1191241602	1191241605	1191241606
55 MOD	HSS	7	Bottoming		RH	1191241700	1191241701	1191241702	1191241705	1191241706
55 Full Form	HSS	7	Plug		RH	1191278300	1191278301	1191278302	1191278305	1191278306

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	D Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>M1.6x0.35</b>										
Spiral Point Tap										
	HSS	0	Plug	D3	RH	1191303100	1191303101	1191303102	1191303105	1191303106
Straight Flute Hand Tap										
	HSS	2	Taper	D3	RH	1191303200	1191303201	1191303202	1191303205	1191303206
	HSS	2	Plug	D3	RH	1191303300	1191303301	1191303302	1191303305	1191303306
	HSS	2	Bottoming	D3	RH	1191303400	1191303401	1191303402	1191303405	1191303406
<b>M1.8x0.35</b>										
Spiral Point Tap										
	HSS	0	Plug	D3	RH	1191303500	1191303501	1191303502	1191303505	1191303506
Straight Flute Hand Tap										
	HSS	2	Taper	D3	RH	1191303600	1191303601	1191303602	1191303605	1191303606
	HSS	2	Plug	D3	RH	1191303700	1191303701	1191303702	1191303705	1191303706
	HSS	2	Bottoming	D3	RH	1191303800	1191303801	1191303802	1191303805	1191303806
<b>M2x0.4</b>										
Spiral Point Tap										
	HSS	2	Plug	D3	RH	1191303900	1191303901	1191303902	1191303905	1191303906
Straight Flute Hand Tap										
	HSS	3	Taper	D3	RH	1191304000	1191304001	1191304002	1191304005	1191304006
	HSS	3	Plug	D3	RH	1191304100	1191304101	1191304102	1191304105	1191304106
	HSS	3	Bottoming	D3	RH	1191304200	1191304201	1191304202	1191304205	1191304206
<b>M2.2x0.45</b>										
Spiral Point Tap										
	HSS	2	Plug	D3	RH	1191304300	1191304301	1191304302	1191304305	1191304306
Straight Flute Hand Tap										
	HSS	3	Taper	D3	RH	1191304400	1191304401	1191304402	1191304405	1191304406
	HSS	3	Plug	D3	RH	1191304500	1191304501	1191304502	1191304505	1191304506
	HSS	3	Bottoming	D3	RH	1191304600	1191304601	1191304602	1191304605	1191304606
<b>M2.5x0.45</b>										
Spiral Point Tap										
	HSS	2	Plug	D1	RH	1191304700	1191304701	1191304702	1191304705	1191304706
	HSS	2	Plug	D3	RH	1191305100	1191305101	1191305102	1191305105	1191305106
Straight Flute Hand Tap										
	HSS	3	Taper	D1	RH	1191304800	1191304801	1191304802	1191304805	1191304806
	HSS	3	Plug	D1	RH	1191304900	1191304901	1191304902	1191304905	1191304906
	HSS	3	Bottoming	D1	RH	1191305000	1191305001	1191305002	1191305005	1191305006
	HSS	3	Taper	D3	RH	1191305200	1191305201	1191305202	1191305205	1191305206
	HSS	3	Plug	D3	RH	1191305300	1191305301	1191305302	1191305305	1191305306
	HSS	3	Bottoming	D3	RH	1191305400	1191305401	1191305402	1191305405	1191305406
<b>M2.6x0.45</b>										
Straight Flute Hand Tap										
	HSS	3	Plug	D3	RH	1191364200	1191364201	1191364202	1191364205	1191364206
	HSS	3	Bottoming	D3	RH	1191364300	1191364301	1191364302	1191364305	1191364306

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	D Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>M3x0.5</b>										
Spiral Point Tap										
	HSS	2	Plug	D1	RH	1191305500	1191305501	1191305502	1191305505	1191305506
	HSS	2	Plug	D3	RH	1191305900	1191305901	1191305902	1191305905	1191305906
	HSS	2	Plug	D5	RH	1191360700	1191360701	1191360702	1191360705	1191360706
	HSS	2	Plug	D7	RH	1191356900	1191356901	1191356902	1191356905	1191356906
	Carbide	2	Plug	D3	RH	1191372600	NA	NA	1191372605	1191372606
Straight Flute Hand Tap										
	HSS	3	Taper	D1	RH	1191305600	1191305601	1191305602	1191305605	1191305606
	HSS	3	Plug	D1	RH	1191305700	1191305701	1191305702	1191305705	1191305706
	HSS	3	Bottoming	D1	RH	1191305800	1191305801	1191305802	1191305805	1191305806
	HSS	3	Taper	D3	RH	1191306000	1191306001	1191306002	1191306005	1191306006
	HSS	3	Plug	D3	RH	1191306100	1191306101	1191306102	1191306105	1191306106
	HSS	3	Bottoming	D3	RH	1191306200	1191306201	1191306202	1191306205	1191306206
	Carbide	3	Plug	D3	RH	1191372400	NA	NA	1191372405	1191372406
	Carbide	3	Bottoming	D3	RH	1191372500	NA	NA	1191372505	1191372506
Spiral Flute Tap										
	HSS	2	Taper	D3	RH	1191306300	1191306301	1191306302	1191306305	1191306306
	HSS	2	Plug	D3	RH	1191306400	1191306401	1191306402	1191306405	1191306406
	HSS	2	Bottoming	D3	RH	1191306500	1191306501	1191306502	1191306505	1191306506
	HSS	2	Plug	D3	RH	1191306600	1191306601	1191306602	1191306605	1191306606
	HSS	2	Bottoming	D3	RH	1191306700	1191306701	1191306702	1191306705	1191306706
Thread Forming Tap										
	HSS	2 Lobe	Plug	D5	RH	1191299700	1191299701	1191299702	1191299705	1191299706
	HSS	2 Lobe	Bottoming	D5	RH	1191299800	1191299801	1191299802	1191299805	1191299806
<b>M3.5x0.6</b>										
Spiral Point Tap										
	HSS	2	Plug	D1	RH	1191306800	1191306801	1191306802	1191306805	1191306806
	HSS	2	Plug	D4	RH	1191307200	1191307201	1191307202	1191307205	1191307206
Plus 5	HSS	2	Plug	D11	RH	1191308200	1191308201	1191308202	1191308205	1191308206
6" Ext	HSS	2	Plug	D4	RH	1191308600	1191308601	1191308602	1191308605	1191308606
	Carbide	2	Plug	D4	RH	1191372900	NA	NA	1191372905	1191372906
Straight Flute Hand Tap										
	HSS	3	Taper	D1	RH	1191306900	1191306901	1191306902	1191306905	1191306906
	HSS	3	Plug	D1	RH	1191307000	1191307001	1191307002	1191307005	1191307006
	HSS	3	Bottoming	D1	RH	1191307100	1191307101	1191307102	1191307105	1191307106
	HSS	3	Taper	D4	RH	1191307300	1191307301	1191307302	1191307305	1191307306
	HSS	3	Plug	D4	RH	1191307400	1191307401	1191307402	1191307405	1191307406
	HSS	3	Bottoming	D4	RH	1191307500	1191307501	1191307502	1191307505	1191307506
Plus 5	HSS	3	Taper	D11	RH	1191308300	1191308301	1191308302	1191308305	1191308306
Plus 5	HSS	3	Plug	D11	RH	1191308400	1191308401	1191308402	1191308405	1191308406
Plus 5	HSS	3	Bottoming	D11	RH	1191308500	1191308501	1191308502	1191308505	1191308506
6" Ext	HSS	3	Taper	D4	RH	1191308700	1191308701	1191308702	1191308705	1191308706
6" Ext	HSS	3	Plug	D4	RH	1191308800	1191308801	1191308802	1191308805	1191308806
6" Ext	HSS	3	Bottoming	D4	RH	1191308900	1191308901	1191308902	1191308905	1191308906
	Carbide	3	Plug	D4	RH	1191372700	NA	NA	1191372705	1191372706
	Carbide	3	Bottoming	D4	RH	1191372800	NA	NA	1191372805	1191372806
Spiral Flute Tap	Continued on the next page									

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	D Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>M3.5x0.6 (Continued)</b>										
Spiral Flute Tap										
30°	HSS	2	Taper	D4	RH	1191307600	1191307601	1191307602	1191307605	1191307606
30°	HSS	2	Plug	D4	RH	1191307700	1191307701	1191307702	1191307705	1191307706
30°	HSS	2	Bottoming	D4	RH	1191307800	1191307801	1191307802	1191307805	1191307806
52°	HSS	2	Taper	D4	RH	1191307900	1191307901	1191307902	1191307905	1191307906
52°	HSS	2	Plug	D4	RH	1191308000	1191308001	1191308002	1191308005	1191308006
52°	HSS	2	Bottoming	D4	RH	1191308100	1191308101	1191308102	1191308105	1191308106
Thread Forming Tap										
	HSS	3 Lobe	Plug	D6	RH	1191299900	1191299901	1191299902	1191299905	1191299906
	HSS	3 Lobe	Bottoming	D6	RH	1191300000	1191300001	1191300002	1191300005	1191300006
<b>M4x0.7</b>										
Spiral Point Tap										
	HSS	2	Plug	D2	RH	1191309000	1191309001	1191309002	1191309005	1191309006
	HSS	2	Plug	D4	RH	1191309400	1191309401	1191309402	1191309405	1191309406
	HSS	2	Plug	D5	RH	1191361700	1191361701	1191361702	1191361705	1191361706
	HSS	2	Plug	D7	RH	1191356400	1191356401	1191356402	1191356405	1191356406
Plus 5	HSS	3	Plug	D11	RH	1191310600	1191310601	1191310602	1191310605	1191310606
6" Ext	HSS	2	Plug	D4	RH	1191311000	1191311001	1191311002	1191311005	1191311006
	Carbide	2	Plug	D4	RH	1191373200	NA	NA	1191373205	1191373206
Straight Flute Hand Tap										
	HSS	4	Taper	D2	RH	1191309100	1191309101	1191309102	1191309105	1191309106
	HSS	4	Plug	D2	RH	1191309200	1191309201	1191309202	1191309205	1191309206
	HSS	4	Bottoming	D2	RH	1191309300	1191309301	1191309302	1191309305	1191309306
	HSS	4	Taper	D4	RH	1191309500	1191309501	1191309502	1191309505	1191309506
	HSS	4	Plug	D4	RH	1191309600	1191309601	1191309602	1191309605	1191309606
	HSS	4	Bottoming	D4	RH	1191309700	1191309701	1191309702	1191309705	1191309706
Plus 5	HSS	4	Taper	D11	RH	1191310700	1191310701	1191310702	1191310705	1191310706
Plus 5	HSS	4	Plug	D11	RH	1191310800	1191310801	1191310802	1191310805	1191310806
Plus 5	HSS	4	Bottoming	D11	RH	1191310900	1191310901	1191310902	1191310905	1191310906
	HSS	4	Taper	D4	LH	1191309800	1191309801	1191309802	1191309805	1191309806
	HSS	4	Plug	D4	LH	1191309900	1191309901	1191309902	1191309905	1191309906
	HSS	4	Bottoming	D4	LH	1191310000	1191310001	1191310002	1191310005	1191310006
6" Ext	HSS	4	Plug	D4	RH	1191311100	1191311101	1191311102	1191311105	1191311106
6" Ext	HSS	4	Bottoming	D4	RH	1191311200	1191311201	1191311202	1191311205	1191311206
	Carbide	4	Plug	D4	RH	1191373000	NA	NA	1191373005	1191373006
	Carbide	4	Bottoming	D4	RH	1191373100	NA	NA	1191373105	1191373106
Spiral Flute Tap										
30°	HSS	2	Taper	D4	RH	1191310100	1191310101	1191310102	1191310105	1191310106
30°	HSS	2	Plug	D4	RH	1191310200	1191310201	1191310202	1191310205	1191310206
30°	HSS	2	Bottoming	D4	RH	1191310300	1191310301	1191310302	1191310305	1191310306
52°	HSS	3	Plug	D4	RH	1191310400	1191310401	1191310402	1191310405	1191310406
52°	HSS	3	Bottoming	D4	RH	1191310500	1191310501	1191310502	1191310505	1191310506
Thread Forming Tap										
	HSS	3 Lobe	Plug	D6	RH	1191300100	1191300101	1191300102	1191300105	1191300106
	HSS	3 Lobe	Bottoming	D6	RH	1191300200	1191300201	1191300202	1191300205	1191300206
<b>M4x0.75</b>										
Straight Flute Hand Tap										
	HSS	4	Plug	D4	RH	1191361800	1191361801	1191361802	1191361805	1191361806
	HSS	4	Bottoming	D4	RH	1191361900	1191361901	1191361902	1191361905	1191361906
	HSS	4	Taper	D4	RH	1191364100	1191364101	1191364102	1191364105	1191364106

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	D Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>M4.5x0.75</b>										
Spiral Point Tap										
Plus 5 6" Ext	HSS	2	Plug	D2	RH	1191311300	1191311301	1191311302	1191311305	1191311306
	HSS	2	Plug	D4	RH	1191311700	1191311701	1191311702	1191311705	1191311706
	HSS	2	Plug	D11	RH	1191312900	1191312901	1191312902	1191312905	1191312906
	HSS	2	Plug	D4	RH	1191313300	1191313301	1191313302	1191313305	1191313306
	Carbide	2	Plug	D4	RH	1191373500	NA	NA	1191373505	1191373506
Straight Flute Hand Tap										
Plus 5 Plus 5 Plus 5  6" Ext 6" Ext 6" Ext	HSS	4	Taper	D2	RH	1191311400	1191311401	1191311402	1191311405	1191311406
	HSS	4	Plug	D2	RH	1191311500	1191311501	1191311502	1191311505	1191311506
	HSS	4	Bottoming	D2	RH	1191311600	1191311601	1191311602	1191311605	1191311606
	HSS	4	Taper	D4	RH	1191311800	1191311801	1191311802	1191311805	1191311806
	HSS	4	Plug	D4	RH	1191311900	1191311901	1191311902	1191311905	1191311906
	HSS	4	Bottoming	D4	RH	1191312000	1191312001	1191312002	1191312005	1191312006
	HSS	4	Taper	D11	RH	1191312100	1191312101	1191312102	1191312105	1191312106
	HSS	4	Plug	D11	RH	1191312200	1191312201	1191312202	1191312205	1191312206
	HSS	4	Bottoming	D11	RH	1191312300	1191312301	1191312302	1191312305	1191312306
	HSS	4	Taper	D4	LH	1191313000	1191313001	1191313002	1191313005	1191313006
	HSS	4	Plug	D4	LH	1191313100	1191313101	1191313102	1191313105	1191313106
	HSS	4	Bottoming	D4	LH	1191313200	1191313201	1191313202	1191313205	1191313206
	HSS	4	Taper	D4	RH	1191313400	1191313401	1191313402	1191313405	1191313406
	HSS	4	Plug	D4	RH	1191313500	1191313501	1191313502	1191313505	1191313506
	HSS	4	Bottoming	D4	RH	1191313600	1191313601	1191313602	1191313605	1191313606
	Carbide	4	Plug	D4	RH	1191373300	NA	NA	1191373305	1191373306
	Carbide	4	Bottoming	D4	RH	1191373400	NA	NA	1191373405	1191373406
Spiral Flute Tap										
30°	HSS	2	Taper	D4	RH	1191312400	1191312401	1191312402	1191312405	1191312406
30°	HSS	2	Plug	D4	RH	1191312500	1191312501	1191312502	1191312505	1191312506
30°	HSS	2	Bottoming	D4	RH	1191312600	1191312601	1191312602	1191312605	1191312606
52°	HSS	3	Plug	D4	RH	1191312700	1191312701	1191312702	1191312705	1191312706
52°	HSS	3	Bottoming	D4	RH	1191312800	1191312801	1191312802	1191312805	1191312806
Thread Forming Tap										
	HSS	3 Lobe	Plug	D6	RH	1191300300	1191300301	1191300302	1191300305	1191300306
	HSS	3 Lobe	Bottoming	D6	RH	1191300400	1191300401	1191300402	1191300405	1191300406
<b>M5x0.5</b>										
Spiral Point Tap										
	HSS	2	Plug	D3	RH	1191355500	1191355501	1191355502	1191355505	1191355506
Straight Flute Hand Tap										
	HSS	4	Taper	D3	RH	1191355200	1191355201	1191355202	1191355205	1191355206
	HSS	4	Plug	D3	RH	1191355300	1191355301	1191355302	1191355305	1191355306
	HSS	4	Bottoming	D3	RH	1191355400	1191355401	1191355402	1191355405	1191355406
<b>M5x0.8</b>										
Spiral Point Tap										
Plus 5 6" Ext	HSS	2	Plug	D2	RH	1191313700	1191313701	1191313702	1191313705	1191313706
	HSS	2	Plug	D4	RH	1191314100	1191314101	1191314102	1191314105	1191314106
	HSS	2	Plug	D7	RH	1191356500	1191356501	1191356502	1191356505	1191356506
	HSS	3	Plug	D11	RH	1191315300	1191315301	1191315302	1191315305	1191315306
	HSS	2	Plug	D4	RH	1191315700	1191315701	1191315702	1191315705	1191315706
	Carbide	2	Plug	D4	RH	1191373800	NA	NA	1191373805	1191373806
Straight Flute Hand Tap										
	Continued on the next page									



Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	D Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>M5x0.8 (Continued)</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	D2	RH	1191313800	1191313801	1191313802	1191313805	1191313806
	HSS	4	Plug	D2	RH	1191313900	1191313901	1191313902	1191313905	1191313906
	HSS	4	Bottoming	D2	RH	1191314000	1191314001	1191314002	1191314005	1191314006
	HSS	4	Taper	D4	RH	1191314200	1191314201	1191314202	1191314205	1191314206
	HSS	4	Plug	D4	RH	1191314300	1191314301	1191314302	1191314305	1191314306
	HSS	4	Bottoming	D4	RH	1191314400	1191314401	1191314402	1191314405	1191314406
Plus 5	HSS	4	Taper	D11	RH	1191314500	1191314501	1191314502	1191314505	1191314506
Plus 5	HSS	4	Plug	D11	RH	1191314600	1191314601	1191314602	1191314605	1191314606
Plus 5	HSS	4	Bottoming	D11	RH	1191314700	1191314701	1191314702	1191314705	1191314706
	HSS	4	Taper	D4	LH	1191315400	1191315401	1191315402	1191315405	1191315406
	HSS	4	Plug	D4	LH	1191315500	1191315501	1191315502	1191315505	1191315506
	HSS	4	Bottoming	D4	LH	1191315600	1191315601	1191315602	1191315605	1191315606
6" Ext	HSS	4	Plug	D4	RH	1191315800	1191315801	1191315802	1191315805	1191315806
6" Ext	HSS	4	Bottoming	D4	RH	1191315900	1191315901	1191315902	1191315905	1191315906
	Carbide	4	Plug	D4	RH	1191373600	NA	NA	1191373605	1191373606
	Carbide	4	Bottoming	D4	RH	1191373700	NA	NA	1191373705	1191373706
Spiral Flute Tap										
30°	HSS	2	Taper	D4	RH	1191314800	1191314801	1191314802	1191314805	1191314806
30°	HSS	2	Plug	D4	RH	1191314900	1191314901	1191314902	1191314905	1191314906
30°	HSS	2	Bottoming	D4	RH	1191315000	1191315001	1191315002	1191315005	1191315006
52°	HSS	3	Plug	D4	RH	1191315100	1191315101	1191315102	1191315105	1191315106
52°	HSS	3	Bottoming	D4	RH	1191315200	1191315201	1191315202	1191315205	1191315206
Thread Forming Tap										
	HSS	3 Lobe	Plug	D7	RH	1191300500	1191300501	1191300502	1191300505	1191300506
	HSS	3 Lobe	Bottoming	D7	RH	1191300600	1191300601	1191300602	1191300605	1191300606
<b>M5x0.9</b>										
Spiral Point Tap										
	HSS	2	Plug	D3	RH	1191364600	1191364601	1191364602	1191364605	1191364606
Straight Flute Hand Tap										
	HSS	4	Plug	D3	RH	1191364400	1191364401	1191364402	1191364405	1191364406
	HSS	4	Bottoming	D3	RH	1191364500	1191364501	1191364502	1191364505	1191364506
<b>M5.5x0.9</b>										
Spiral Point Tap										
	HSS	2	Plug	D3	RH	1191364900	1191364901	1191364902	1191364905	1191364906
Straight Flute Hand Tap										
	HSS	4	Plug	D3	RH	1191364700	1191364701	1191364702	1191364705	1191364706
	HSS	4	Bottoming	D3	RH	1191364800	1191364801	1191364802	1191364805	1191364806
<b>M6 x 0.5</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	D3	RH	1191359400	1191359401	1191359402	1191359405	1191359406
	HSS	4	Plug	D3	RH	1191359500	1191359501	1191359502	1191359505	1191359506
	HSS	4	Bottoming	D3	RH	1191359600	1191359601	1191359602	1191359605	1191359606
<b>M6 x 0.75</b>										
Spiral Point Tap										
	HSS	2	Plug	D3	RH	1191318300	1191318301	1191318302	1191318305	1191318306
Straight Flute Hand Tap										
	HSS	4	Taper	D3	RH	1191318400	1191318401	1191318402	1191318405	1191318406
	HSS	4	Plug	D3	RH	1191318500	1191318501	1191318502	1191318505	1191318506
	HSS	4	Bottoming	D3	RH	1191318600	1191318601	1191318602	1191318605	1191318606

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	D Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>M6 x 1.0</b>										
Spiral Point Tap										
Plus 5 6" Ext	HSS	2	Plug	D3	RH	1191316000	1191316001	1191316002	1191316005	1191316006
	HSS	2	Plug	D5	RH	1191316400	1191316401	1191316402	1191316405	1191316406
	HSS	3	Plug	D11	RH	1191317600	1191317601	1191317602	1191317605	1191317606
	HSS	2	Plug	D5	RH	1191318000	1191318001	1191318002	1191318005	1191318006
	Carbide	2	Plug	D5	RH	1191374100	NA	NA	1191374105	1191374106
Straight Flute Hand Tap										
Plus 5 Plus 5 Plus 5 6" Ext 6" Ext	HSS	4	Taper	D3	RH	1191316100	1191316101	1191316102	1191316105	1191316106
	HSS	4	Plug	D3	RH	1191316200	1191316201	1191316202	1191316205	1191316206
	HSS	4	Bottoming	D3	RH	1191316300	1191316301	1191316302	1191316305	1191316306
	HSS	4	Taper	D5	RH	1191316500	1191316501	1191316502	1191316505	1191316506
	HSS	4	Plug	D5	RH	1191316600	1191316601	1191316602	1191316605	1191316606
	HSS	4	Bottoming	D5	RH	1191316700	1191316701	1191316702	1191316705	1191316706
	HSS	4	Taper	D11	RH	1191316800	1191316801	1191316802	1191316805	1191316806
	HSS	4	Plug	D11	RH	1191316900	1191316901	1191316902	1191316905	1191316906
	HSS	4	Bottoming	D11	RH	1191317000	1191317001	1191317002	1191317005	1191317006
	HSS	4	Taper	D5	LH	1191317700	1191317701	1191317702	1191317705	1191317706
	HSS	4	Plug	D5	LH	1191317800	1191317801	1191317802	1191317805	1191317806
	HSS	4	Bottoming	D5	LH	1191317900	1191317901	1191317902	1191317905	1191317906
	HSS	4	Plug	D5	RH	1191318100	1191318101	1191318102	1191318105	1191318106
	HSS	4	Bottoming	D5	RH	1191318200	1191318201	1191318202	1191318205	1191318206
	Carbide	4	Plug	D5	RH	1191373900	NA	NA	1191373905	1191373906
Carbide	4	Bottoming	D5	RH	1191374000	NA	NA	1191374005	1191374006	
Spiral Flute Tap										
30°	HSS	3	Taper	D5	RH	1191317100	1191317101	1191317102	1191317105	1191317106
30°	HSS	3	Plug	D5	RH	1191317200	1191317201	1191317202	1191317205	1191317206
30°	HSS	3	Bottoming	D5	RH	1191317300	1191317301	1191317302	1191317305	1191317306
52°	HSS	3	Plug	D5	RH	1191317400	1191317401	1191317402	1191317405	1191317406
52°	HSS	3	Bottoming	D5	RH	1191317500	1191317501	1191317502	1191317505	1191317506
Thread Forming Tap										
	HSS	4 Lobe	Plug	D8	RH	1191300700	1191300701	1191300702	1191300705	1191300706
	HSS	4 Lobe	Bottoming	D8	RH	1191300800	1191300801	1191300802	1191300805	1191300806
<b>M7 x 1.0</b>										
Spiral Point Tap										
Plus 5	HSS	2	Plug	D5	RH	1191318700	1191318701	1191318702	1191318705	1191318706
	HSS	3	Plug	D11	RH	1191319400	1191319401	1191319402	1191319405	1191319406
	Carbide	2	Plug	D5	RH	1191374400	NA	NA	1191374405	1191374406
Straight Flute Hand Tap										
Plus 5 Plus 5 Plus 5	HSS	4	Taper	D5	RH	1191318800	1191318801	1191318802	1191318805	1191318806
	HSS	4	Plug	D5	RH	1191318900	1191318901	1191318902	1191318905	1191318906
	HSS	4	Bottoming	D5	RH	1191319000	1191319001	1191319002	1191319005	1191319006
	HSS	4	Taper	D11	RH	1191319100	1191319101	1191319102	1191319105	1191319106
	HSS	4	Plug	D11	RH	1191319200	1191319201	1191319202	1191319205	1191319206
	HSS	4	Bottoming	D11	RH	1191319300	1191319301	1191319302	1191319305	1191319306
	HSS	4	Taper	D5	LH	1191319500	1191319501	1191319502	1191319505	1191319506
	HSS	4	Plug	D5	LH	1191319600	1191319601	1191319602	1191319605	1191319606
	HSS	4	Bottoming	D5	LH	1191319700	1191319701	1191319702	1191319705	1191319706
	Carbide	4	Plug	D5	RH	1191374200	NA	NA	1191374205	1191374206
	Carbide	4	Bottoming	D5	RH	1191374300	NA	NA	1191374305	1191374306
Thread Forming Tap										
	HSS	4 Lobe	Plug	D8	RH	1191300900	1191300901	1191300902	1191300905	1191300906
	HSS	4 Lobe	Bottoming	D8	RH	1191301000	1191301001	1191301002	1191301005	1191301006

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	D Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>M8 x 0.5</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	D4	RH	1191363700	1191363701	1191363702	1191363705	1191363706
	HSS	4	Plug	D4	RH	1191360900	1191360901	1191360902	1191360905	1191360906
	HSS	4	Bottoming	D4	RH	1191361000	1191361001	1191361002	1191361005	1191361006
<b>M8 x 0.75</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	D5	RH	1191357000	1191357001	1191357002	1191357005	1191357006
	HSS	4	Plug	D5	RH	1191357100	1191357101	1191357102	1191357105	1191357106
	HSS	4	Bottoming	D5	RH	1191357200	1191357201	1191357202	1191357205	1191357206
<b>M8 x 1.0</b>										
Spiral Point Tap										
	HSS	2	Plug	D3	RH	1191322100	1191322101	1191322102	1191322105	1191322106
	HSS	2	Plug	D5	RH	1191322500	1191322501	1191322502	1191322505	1191322506
Plus 5	HSS	3	Plug	D11	RH	1191323800	1191323801	1191323802	1191323805	1191323806
Straight Flute Hand Tap										
	HSS	4	Taper	D3	RH	1191322200	1191322201	1191322202	1191322205	1191322206
	HSS	4	Plug	D3	RH	1191322300	1191322301	1191322302	1191322305	1191322306
	HSS	4	Bottoming	D3	RH	1191322400	1191322401	1191322402	1191322405	1191322406
	HSS	4	Taper	D5	RH	1191322600	1191322601	1191322602	1191322605	1191322606
	HSS	4	Plug	D5	RH	1191322700	1191322701	1191322702	1191322705	1191322706
	HSS	4	Bottoming	D5	RH	1191322800	1191322801	1191322802	1191322805	1191322806
Plus 5	HSS	4	Taper	D11	RH	1191323900	1191323901	1191323902	1191323905	1191323906
Plus 5	HSS	4	Plug	D11	RH	1191324000	1191324001	1191324002	1191324005	1191324006
Plus 5	HSS	4	Bottoming	D11	RH	1191324100	1191324101	1191324102	1191324105	1191324106
	HSS	4	Taper	D5	LH	1191322900	1191322901	1191322902	1191322905	1191322906
	HSS	4	Plug	D5	LH	1191323000	1191323001	1191323002	1191323005	1191323006
	HSS	4	Bottoming	D5	LH	1191323100	1191323101	1191323102	1191323105	1191323106
	Carbide	4	Plug	D5	RH	1191374800	NA	NA	1191374805	1191374806
	Carbide	4	Bottoming	D5	RH	1191374900	NA	NA	1191374905	1191374906
Spiral Flute Tap										
30°	HSS	3	Taper	D5	RH	1191323200	1191323201	1191323202	1191323205	1191323206
30°	HSS	3	Plug	D5	RH	1191323300	1191323301	1191323302	1191323305	1191323306
30°	HSS	3	Bottoming	D5	RH	1191323400	1191323401	1191323402	1191323405	1191323406
52°	HSS	3	Taper	D5	RH	1191323500	1191323501	1191323502	1191323505	1191323506
52°	HSS	3	Plug	D5	RH	1191323600	1191323601	1191323602	1191323605	1191323606
52°	HSS	3	Bottoming	D5	RH	1191323700	1191323701	1191323702	1191323705	1191323706
Thread Forming Tap										
	HSS	4 Lobe	Plug	D8	RH	1191301300	1191301301	1191301302	1191301305	1191301306
	HSS	4 Lobe	Bottoming	D8	RH	1191301400	1191301401	1191301402	1191301405	1191301406
<b>M8 x 1.25</b>										
Spiral Point Tap										
	HSS	2	Plug	D3	RH	1191319800	1191319801	1191319802	1191319805	1191319806
	HSS	2	Plug	D5	RH	1191320200	1191320201	1191320202	1191320205	1191320206
Plus 5	HSS	3	Plug	D11	RH	1191321400	1191321401	1191321402	1191321405	1191321406
6" Ext	HSS	2	Plug	D5	RH	1191360800	1191360801	1191360802	1191360805	1191360806
	Carbide	2	Plug	D5	RH	1191374700	NA	NA	1191374705	1191374706
Straight Flute Hand Tap										
Continued on the next page										

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	D Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>M8 x 1.25 (Continued)</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	D3	RH	1191319900	1191319901	1191319902	1191319905	1191319906
	HSS	4	Plug	D3	RH	1191320000	1191320001	1191320002	1191320005	1191320006
	HSS	4	Bottoming	D3	RH	1191320100	1191320101	1191320102	1191320105	1191320106
	HSS	4	Taper	D5	RH	1191320300	1191320301	1191320302	1191320305	1191320306
	HSS	4	Plug	D5	RH	1191320400	1191320401	1191320402	1191320405	1191320406
	HSS	4	Bottoming	D5	RH	1191320500	1191320501	1191320502	1191320505	1191320506
Plus 5	HSS	4	Taper	D11	RH	1191321500	1191321501	1191321502	1191321505	1191321506
Plus 5	HSS	4	Plug	D11	RH	1191321600	1191321601	1191321602	1191321605	1191321606
Plus 5	HSS	4	Bottoming	D11	RH	1191321700	1191321701	1191321702	1191321705	1191321706
	HSS	4	Taper	D5	LH	1191320600	1191320601	1191320602	1191320605	1191320606
	HSS	4	Plug	D5	LH	1191320700	1191320701	1191320702	1191320705	1191320706
	HSS	4	Bottoming	D5	LH	1191320800	1191320801	1191320802	1191320805	1191320806
6" Ext	HSS	4	Taper	D5	RH	1191321800	1191321801	1191321802	1191321805	1191321806
6" Ext	HSS	4	Plug	D5	RH	1191321900	1191321901	1191321902	1191321905	1191321906
6" Ext	HSS	4	Bottoming	D5	RH	1191322000	1191322001	1191322002	1191322005	1191322006
	Carbide	4	Plug	D5	RH	1191374500	NA	NA	1191374505	1191374506
	Carbide	4	Bottoming	D5	RH	1191374600	NA	NA	1191374605	1191374606
Spiral Flute Tap										
30°	HSS	3	Taper	D5	RH	1191320900	1191320901	1191320902	1191320905	1191320906
30°	HSS	3	Plug	D5	RH	1191321000	1191321001	1191321002	1191321005	1191321006
30°	HSS	3	Bottoming	D5	RH	1191321100	1191321101	1191321102	1191321105	1191321106
52°	HSS	3	Plug	D5	RH	1191321200	1191321201	1191321202	1191321205	1191321206
52°	HSS	3	Bottoming	D5	RH	1191321300	1191321301	1191321302	1191321305	1191321306
Thread Forming Tap										
	HSS	4 Lobe	Plug	D9	RH	1191301100	1191301101	1191301102	1191301105	1191301106
	HSS	4 Lobe	Bottoming	D9	RH	1191301200	1191301201	1191301202	1191301205	1191301206
<b>M9 x 1.0</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	D5	RH	1191363800	1191363801	1191363802	1191363805	1191363806
	HSS	4	Plug	D5	RH	1191362200	1191362201	1191362202	1191362205	1191362206
	HSS	4	Bottoming	D5	RH	1191362300	1191362301	1191362302	1191362305	1191362306
<b>M9 x 1.25</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	D5	RH	1191363900	1191363901	1191363902	1191363905	1191363906
	HSS	4	Plug	D5	RH	1191362000	1191362001	1191362002	1191362005	1191362006
	HSS	4	Bottoming	D5	RH	1191362100	1191362101	1191362102	1191362105	1191362106
<b>M10 x 1.0</b>										
Spiral Point Tap										
	HSS	3	Plug	D5	RH	1191359700	1191359701	1191359702	1191359705	1191359706
Straight Flute Hand Tap										
	HSS	4	Taper	D3	RH	1191328500	1191328501	1191328502	1191328505	1191328506
	HSS	4	Plug	D3	RH	1191328600	1191328601	1191328602	1191328605	1191328606
	HSS	4	Bottoming	D3	RH	1191328700	1191328701	1191328702	1191328705	1191328706
	HSS	4	Taper	D5	RH	1191357300	1191357301	1191357302	1191357305	1191357306
	HSS	4	Plug	D5	RH	1191357400	1191357401	1191357402	1191357405	1191357406
	HSS	4	Bottoming	D5	RH	1191357500	1191357501	1191357502	1191357505	1191357506
	HSS	4	Taper	D5	LH	1191357600	1191357601	1191357602	1191357605	1191357606
	HSS	4	Plug	D5	LH	1191357700	1191357701	1191357702	1191357705	1191357706
	HSS	4	Bottoming	D5	LH	1191357800	1191357801	1191357802	1191357805	1191357806

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	D Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>M10 x 1.25</b>										
Spiral Point Tap										
Plus 5	HSS	3	Plug	D3	RH	1191326500	1191326501	1191326502	1191326505	1191326506
	HSS	3	Plug	D5	RH	1191326900	1191326901	1191326902	1191326905	1191326906
	HSS	3	Plug	D11	RH	1191328100	1191328101	1191328102	1191328105	1191328106
	Carbide	3	Plug	D5	RH	1191375500	NA	NA	1191375505	1191375506
Straight Flute Hand Tap										
Plus 5 Plus 5 Plus 5	HSS	4	Taper	D3	RH	1191326600	1191326601	1191326602	1191326605	1191326606
	HSS	4	Plug	D3	RH	1191326700	1191326701	1191326702	1191326705	1191326706
	HSS	4	Bottoming	D3	RH	1191326800	1191326801	1191326802	1191326805	1191326806
	HSS	4	Taper	D5	RH	1191327000	1191327001	1191327002	1191327005	1191327006
	HSS	4	Plug	D5	RH	1191327100	1191327101	1191327102	1191327105	1191327106
	HSS	4	Bottoming	D5	RH	1191327200	1191327201	1191327202	1191327205	1191327206
	HSS	4	Taper	D11	RH	1191328200	1191328201	1191328202	1191328205	1191328206
	HSS	4	Plug	D11	RH	1191328300	1191328301	1191328302	1191328305	1191328306
	HSS	4	Bottoming	D11	RH	1191328400	1191328401	1191328402	1191328405	1191328406
	HSS	4	Taper	D5	LH	1191327300	1191327301	1191327302	1191327305	1191327306
	HSS	4	Plug	D5	LH	1191327400	1191327401	1191327402	1191327405	1191327406
	HSS	4	Bottoming	D5	LH	1191327500	1191327501	1191327502	1191327505	1191327506
	Carbide	4	Plug	D5	RH	1191375300	NA	NA	1191375305	1191375306
	Carbide	4	Bottoming	D5	RH	1191375400	NA	NA	1191375405	1191375406
Spiral Flute Tap										
30°	HSS	3	Taper	D5	RH	1191327600	1191327601	1191327602	1191327605	1191327606
30°	HSS	3	Plug	D5	RH	1191327700	1191327701	1191327702	1191327705	1191327706
30°	HSS	3	Bottoming	D5	RH	1191327800	1191327801	1191327802	1191327805	1191327806
52°	HSS	3	Plug	D5	RH	1191327900	1191327901	1191327902	1191327905	1191327906
52°	HSS	3	Bottoming	D5	RH	1191328000	1191328001	1191328002	1191328005	1191328006
Thread Forming Tap										
	HSS	4 Lobe	Plug	D9	RH	1191301700	1191301701	1191301702	1191301705	1191301706
	HSS	4 Lobe	Bottoming	D9	RH	1191301800	1191301801	1191301802	1191301805	1191301806
<b>M10 x 1.5</b>										
Spiral Point Tap										
6" Ext 6" Ext (.323 Shank) Plus 5	HSS	3	Plug	D3	RH	1191324200	1191324201	1191324202	1191324205	1191324206
	HSS	3	Plug	D6	RH	1191324600	1191324601	1191324602	1191324605	1191324606
	HSS	3	Plug	D7	RH	1191362400	1191362401	1191362402	1191362405	1191362406
	HSS	3	Plug	D6	RH	1191361100	1191361101	1191361102	1191361105	1191361106
	HSS	3	Plug	D6	RH	1191365200	1191365201	1191365202	1191365205	1191365206
	HSS	3	Plug	D11	RH	1191325800	1191325801	1191325802	1191325805	1191325806
	Carbide	3	Plug	D6	RH	1191375200	NA	NA	1191375205	1191375206
Straight Flute Hand Tap										
Plus 5 Plus 5 Plus 5	HSS	4	Taper	D3	RH	1191324300	1191324301	1191324302	1191324305	1191324306
	HSS	4	Plug	D3	RH	1191324400	1191324401	1191324402	1191324405	1191324406
	HSS	4	Bottoming	D3	RH	1191324500	1191324501	1191324502	1191324505	1191324506
	HSS	4	Taper	D6	RH	1191324700	1191324701	1191324702	1191324705	1191324706
	HSS	4	Plug	D6	RH	1191324800	1191324801	1191324802	1191324805	1191324806
	HSS	4	Bottoming	D6	RH	1191324900	1191324901	1191324902	1191324905	1191324906
	HSS	4	Taper	D11	RH	1191325900	1191325901	1191325902	1191325905	1191325906
	HSS	4	Plug	D11	RH	1191326000	1191326001	1191326002	1191326005	1191326006
	HSS	4	Bottoming	D11	RH	1191326100	1191326101	1191326102	1191326105	1191326106
	Straight Flute Hand Tap									
Continued on the next page										

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	D Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>M10 x 1.5 (Continued)</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	D6	LH	1191325000	1191325001	1191325002	1191325005	1191325006
	HSS	4	Plug	D6	LH	1191325100	1191325101	1191325102	1191325105	1191325106
	HSS	4	Bottoming	D6	LH	1191325200	1191325201	1191325202	1191325205	1191325206
6" Ext	HSS	4	Taper	D6	RH	1191326200	1191326201	1191326202	1191326205	1191326206
6" Ext	HSS	4	Plug	D6	RH	1191326300	1191326301	1191326302	1191326305	1191326306
6" Ext	HSS	4	Bottoming	D6	RH	1191326400	1191326401	1191326402	1191326405	1191326406
6" Ext (.323 Shank)	HSS	4	Plug	D6	RH	1191365000	1191365001	1191365002	1191365005	1191365006
6" Ext (.323 Shank)	HSS	4	Bottoming	D6	RH	1191365100	1191365101	1191365102	1191365105	1191365106
	Carbide	4	Plug	D6	RH	1191375000	NA	NA	1191375005	1191375006
	Carbide	4	Bottoming	D6	RH	1191375100	NA	NA	1191375105	1191375106
Spiral Flute Tap										
30°	HSS	3	Taper	D6	RH	1191325300	1191325301	1191325302	1191325305	1191325306
30°	HSS	3	Plug	D6	RH	1191325400	1191325401	1191325402	1191325405	1191325406
30°	HSS	3	Bottoming	D6	RH	1191325500	1191325501	1191325502	1191325505	1191325506
52°	HSS	3	Plug	D6	RH	1191325600	1191325601	1191325602	1191325605	1191325606
52°	HSS	3	Bottoming	D6	RH	1191325700	1191325701	1191325702	1191325705	1191325706
Thread Forming Tap										
	HSS	4 Lobe	Plug	D10	RH	1191301500	1191301501	1191301502	1191301505	1191301506
	HSS	4 Lobe	Bottoming	D10	RH	1191301600	1191301601	1191301602	1191301605	1191301606
<b>M11 x 1.0</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	D5	RH	1191360100	1191360101	1191360102	1191360105	1191360106
	HSS	4	Plug	D5	RH	1191360200	1191360201	1191360202	1191360205	1191360206
	HSS	4	Bottoming	D5	RH	1191360300	1191360301	1191360302	1191360305	1191360306
<b>M11 x 1.5</b>										
Spiral Point Tap										
	HSS	3	Plug	D6	RH	1191328800	1191328801	1191328802	1191328805	1191328806
Straight Flute Hand Tap										
	HSS	4	Taper	D6	RH	1191328900	1191328901	1191328902	1191328905	1191328906
	HSS	4	Plug	D6	RH	1191329000	1191329001	1191329002	1191329005	1191329006
	HSS	4	Bottoming	D6	RH	1191329100	1191329101	1191329102	1191329105	1191329106
<b>M12 x 1.0</b>										
Spiral Point Tap										
	HSS	3	Plug	D5	RH	1191355700	1191355701	1191355702	1191355705	1191355706
Straight Flute Hand Tap										
	HSS	4	Taper	D5	RH	1191353700	1191353701	1191353702	1191353705	1191353706
	HSS	4	Plug	D5	RH	1191353800	1191353801	1191353802	1191353805	1191353806
	HSS	4	Bottoming	D5	RH	1191353900	1191353901	1191353902	1191353905	1191353906
<b>M12 x 1.25</b>										
Spiral Point Tap										
	HSS	3	Plug	D3	RH	1191331500	1191331501	1191331502	1191331505	1191331506
	HSS	3	Plug	D5	RH	1191331900	1191331901	1191331902	1191331905	1191331906
Straight Flute Hand Tap										
	HSS	4	Taper	D3	RH	1191331600	1191331601	1191331602	1191331605	1191331606
	HSS	4	Plug	D3	RH	1191331700	1191331701	1191331702	1191331705	1191331706
	HSS	4	Bottoming	D3	RH	1191331800	1191331801	1191331802	1191331805	1191331806
Straight Flute Hand Tap	Continued on the next page									

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	D Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>M12 x 1.25 (Continued)</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	D5	RH	1191332000	1191332001	1191332002	1191332005	1191332006
	HSS	4	Plug	D5	RH	1191332100	1191332101	1191332102	1191332105	1191332106
	HSS	4	Bottoming	D5	RH	1191332200	1191332201	1191332202	1191332205	1191332206
Plus 5	HSS	4	Taper	D11	RH	1191333100	1191333101	1191333102	1191333105	1191333106
Plus 5	HSS	4	Plug	D11	RH	1191333200	1191333201	1191333202	1191333205	1191333206
Plus 5	HSS	4	Bottoming	D11	RH	1191333300	1191333301	1191333302	1191333305	1191333306
	HSS	4	Taper	D5	LH	1191332300	1191332301	1191332302	1191332305	1191332306
	HSS	4	Plug	D5	LH	1191332400	1191332401	1191332402	1191332405	1191332406
	HSS	4	Bottoming	D5	LH	1191332500	1191332501	1191332502	1191332505	1191332506
Spiral Flute Tap										
30°	HSS	3	Taper	D5	RH	1191332600	1191332601	1191332602	1191332605	1191332606
30°	HSS	3	Plug	D5	RH	1191332700	1191332701	1191332702	1191332705	1191332706
30°	HSS	3	Bottoming	D5	RH	1191332800	1191332801	1191332802	1191332805	1191332806
52°	HSS	3	Plug	D5	RH	1191332900	1191332901	1191332902	1191332905	1191332906
52°	HSS	3	Bottoming	D5	RH	1191333000	1191333001	1191333002	1191333005	1191333006
Thread Forming Tap										
	HSS	4 Lobe	Plug	D10	RH	1191302100	1191302101	1191302102	1191302105	1191302106
	HSS	4 Lobe	Bottoming	D10	RH	1191302200	1191302201	1191302202	1191302205	1191302206
<b>M12 x 1.5</b>										
Spiral Point Tap										
	HSS	3	Plug	D6	RH	1191361200	1191361201	1191361202	1191361205	1191361206
Straight Flute Hand Tap										
	HSS	4	Taper	D6	RH	1191354900	1191354901	1191354902	1191354905	1191354906
	HSS	4	Plug	D6	RH	1191355000	1191355001	1191355002	1191355005	1191355006
	HSS	4	Bottoming	D6	RH	1191355100	1191355101	1191355102	1191355105	1191355106
<b>M12 x 1.75</b>										
Spiral Point Tap										
	HSS	3	Plug	D3	RH	1191329200	1191329201	1191329202	1191329205	1191329206
	HSS	3	Plug	D6	RH	1191329600	1191329601	1191329602	1191329605	1191329606
Plus 5	HSS	3	Plug	D11	RH	1191330800	1191330801	1191330802	1191330805	1191330806
6" Ext	HSS	3	Plug	D6	RH	1191355600	1191355601	1191355602	1191355605	1191355606
	Carbide	3	Plug	D6	RH	1191375800	NA	NA	1191375805	1191375806
Straight Flute Hand Tap										
	HSS	4	Taper	D3	RH	1191329300	1191329301	1191329302	1191329305	1191329306
	HSS	4	Plug	D3	RH	1191329400	1191329401	1191329402	1191329405	1191329406
	HSS	4	Bottoming	D3	RH	1191329500	1191329501	1191329502	1191329505	1191329506
	HSS	4	Taper	D6	RH	1191329700	1191329701	1191329702	1191329705	1191329706
	HSS	4	Plug	D6	RH	1191329800	1191329801	1191329802	1191329805	1191329806
	HSS	4	Bottoming	D6	RH	1191329900	1191329901	1191329902	1191329905	1191329906
Plus 5	HSS	4	Taper	D11	RH	1191330900	1191330901	1191330902	1191330905	1191330906
Plus 5	HSS	4	Plug	D11	RH	1191331000	1191331001	1191331002	1191331005	1191331006
Plus 5	HSS	4	Bottoming	D11	RH	1191331100	1191331101	1191331102	1191331105	1191331106
	HSS	4	Taper	D6	LH	1191330000	1191330001	1191330002	1191330005	1191330006
	HSS	4	Plug	D6	LH	1191330100	1191330101	1191330102	1191330105	1191330106
	HSS	4	Bottoming	D6	LH	1191330200	1191330201	1191330202	1191330205	1191330206
6" Ext	HSS	4	Taper	D6	RH	1191331200	1191331201	1191331202	1191331205	1191331206
6" Ext	HSS	4	Plug	D6	RH	1191331300	1191331301	1191331302	1191331305	1191331306
6" Ext	HSS	4	Bottoming	D6	RH	1191331400	1191331401	1191331402	1191331405	1191331406
	Carbide	4	Plug	D6	RH	1191375600	NA	NA	1191375605	1191375606
	Carbide	4	Bottoming	D6	RH	1191375700	NA	NA	1191375705	1191375706
Spiral Flute Tap										
Continued on the next page										

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	D Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>M12 x 1.75 (Continued)</b>										
Spiral Flute Tap										
30°	HSS	3	Taper	D6	RH	1191330300	1191330301	1191330302	1191330305	1191330306
30°	HSS	3	Plug	D6	RH	1191330400	1191330401	1191330402	1191330405	1191330406
30°	HSS	3	Bottoming	D6	RH	1191330500	1191330501	1191330502	1191330505	1191330506
52°	HSS	3	Plug	D6	RH	1191330600	1191330601	1191330602	1191330605	1191330606
52°	HSS	3	Bottoming	D6	RH	1191330700	1191330701	1191330702	1191330705	1191330706
Thread Forming Tap										
	HSS	4 Lobe	Plug	D11	RH	1191301900	1191301901	1191301902	1191301905	1191301906
	HSS	4 Lobe	Bottoming	D11	RH	1191302000	1191302001	1191302002	1191302005	1191302006
<b>M14 x 1.0</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	D5	RH	1191354600	1191354601	1191354602	1191354605	1191354606
	HSS	4	Plug	D5	RH	1191354700	1191354701	1191354702	1191354705	1191354706
	HSS	4	Bottoming	D5	RH	1191354800	1191354801	1191354802	1191354805	1191354806
<b>M14 x 1.25</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	D4	RH	1191335600	1191335601	1191335602	1191335605	1191335606
	HSS	4	Plug	D4	RH	1191335700	1191335701	1191335702	1191335705	1191335706
	HSS	4	Bottoming	D4	RH	1191335800	1191335801	1191335802	1191335805	1191335806
<b>M14 x 1.5</b>										
Spiral Point Tap										
	HSS	3	Plug	D3	RH	1191334500	1191334501	1191334502	1191334505	1191334506
	HSS	3	Plug	D6	RH	1191334900	1191334901	1191334902	1191334905	1191334906
Straight Flute Hand Tap										
	HSS	4	Taper	D3	RH	1191334600	1191334601	1191334602	1191334605	1191334606
	HSS	4	Plug	D3	RH	1191334700	1191334701	1191334702	1191334705	1191334706
	HSS	4	Bottoming	D3	RH	1191334800	1191334801	1191334802	1191334805	1191334806
	HSS	4	Taper	D6	RH	1191335000	1191335001	1191335002	1191335005	1191335006
	HSS	4	Plug	D6	RH	1191335100	1191335101	1191335102	1191335105	1191335106
	HSS	4	Bottoming	D6	RH	1191335200	1191335201	1191335202	1191335205	1191335206
	HSS	4	Taper	D6	LH	1191335300	1191335301	1191335302	1191335305	1191335306
	HSS	4	Plug	D6	LH	1191335400	1191335401	1191335402	1191335405	1191335406
	HSS	4	Bottoming	D6	LH	1191335500	1191335501	1191335502	1191335505	1191335506
Thread Forming Tap										
	HSS	6 Lobe	Plug	D11	RH	1191302500	1191302501	1191302502	1191302505	1191302506
	HSS	6 Lobe	Bottoming	D11	RH	1191302600	1191302601	1191302602	1191302605	1191302606
<b>M14 x 2.0</b>										
Spiral Point Tap										
	HSS	3	Plug	D3	RH	1191333400	1191333401	1191333402	1191333405	1191333406
	HSS	3	Plug	D7	RH	1191333800	1191333801	1191333802	1191333805	1191333806
Straight Flute Hand Tap										
	HSS	4	Taper	D3	RH	1191333500	1191333501	1191333502	1191333505	1191333506
	HSS	4	Plug	D3	RH	1191333600	1191333601	1191333602	1191333605	1191333606
	HSS	4	Bottoming	D3	RH	1191333700	1191333701	1191333702	1191333705	1191333706
	HSS	4	Taper	D7	RH	1191333900	1191333901	1191333902	1191333905	1191333906
	HSS	4	Plug	D7	RH	1191334000	1191334001	1191334002	1191334005	1191334006
	HSS	4	Bottoming	D7	RH	1191334100	1191334101	1191334102	1191334105	1191334106
	HSS	4	Taper	D7	LH	1191334200	1191334201	1191334202	1191334205	1191334206
	HSS	4	Plug	D7	LH	1191334300	1191334301	1191334302	1191334305	1191334306
	HSS	4	Bottoming	D7	LH	1191334400	1191334401	1191334402	1191334405	1191334406
Thread Forming Tap										
	HSS	6 Lobe	Plug	D12	RH	1191302300	1191302301	1191302302	1191302305	1191302306
	HSS	6 Lobe	Bottoming	D12	RH	1191302400	1191302401	1191302402	1191302405	1191302406



Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	D Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>M15 x 1.0</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	D5	RH	1191360400	1191360401	1191360402	1191360405	1191360406
	HSS	4	Plug	D5	RH	1191360500	1191360501	1191360502	1191360505	1191360506
	HSS	4	Bottoming	D5	RH	1191360600	1191360601	1191360602	1191360605	1191360606
<b>M16 x 1.0</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	D5	RH	1191364000	1191364001	1191364002	1191364005	1191364006
	HSS	4	Plug	D5	RH	1191362500	1191362501	1191362502	1191362505	1191362506
	HSS	4	Bottoming	D5	RH	1191362600	1191362601	1191362602	1191362605	1191362606
<b>M16 x 1.5</b>										
Spiral Point Tap										
	HSS	3	Plug	D3	RH	1191337400	1191337401	1191337402	1191337405	1191337406
	HSS	3	Plug	D6	RH	1191337800	1191337801	1191337802	1191337805	1191337806
Straight Flute Hand Tap										
	HSS	4	Taper	D3	RH	1191337500	1191337501	1191337502	1191337505	1191337506
	HSS	4	Plug	D3	RH	1191337600	1191337601	1191337602	1191337605	1191337606
	HSS	4	Bottoming	D3	RH	1191337700	1191337701	1191337702	1191337705	1191337706
	HSS	4	Taper	D6	RH	1191337900	1191337901	1191337902	1191337905	1191337906
	HSS	4	Plug	D6	RH	1191338000	1191338001	1191338002	1191338005	1191338006
	HSS	4	Bottoming	D6	RH	1191338100	1191338101	1191338102	1191338105	1191338106
	HSS	4	Taper	D6	LH	1191338200	1191338201	1191338202	1191338205	1191338206
	HSS	4	Plug	D6	LH	1191338300	1191338301	1191338302	1191338305	1191338306
	HSS	4	Bottoming	D6	LH	1191338400	1191338401	1191338402	1191338405	1191338406
<b>M16 x 2.0</b>										
Spiral Point Tap										
	HSS	3	Plug	D4	RH	1191335900	1191335901	1191335902	1191335905	1191335906
	HSS	3	Plug	D7	RH	1191336300	1191336301	1191336302	1191336305	1191336306
Plus 5	HSS	3	Plug	D11	RH	1191337000	1191337001	1191337002	1191337005	1191337006
6" Ext	HSS	3	Plug	D7	RH	1191361300	1191361301	1191361302	1191361305	1191361306
Straight Flute Hand Tap										
	HSS	4	Taper	D4	RH	1191336000	1191336001	1191336002	1191336005	1191336006
	HSS	4	Plug	D4	RH	1191336100	1191336101	1191336102	1191336105	1191336106
	HSS	4	Bottoming	D4	RH	1191336200	1191336201	1191336202	1191336205	1191336206
	HSS	4	Taper	D7	RH	1191336400	1191336401	1191336402	1191336405	1191336406
	HSS	4	Plug	D7	RH	1191336500	1191336501	1191336502	1191336505	1191336506
	HSS	4	Bottoming	D7	RH	1191336600	1191336601	1191336602	1191336605	1191336606
Plus 5	HSS	4	Taper	D11	RH	1191337100	1191337101	1191337102	1191337105	1191337106
Plus 5	HSS	4	Plug	D11	RH	1191337200	1191337201	1191337202	1191337205	1191337206
Plus 5	HSS	4	Bottoming	D11	RH	1191337300	1191337301	1191337302	1191337305	1191337306
	HSS	4	Taper	D7	LH	1191336700	1191336701	1191336702	1191336705	1191336706
	HSS	4	Plug	D7	LH	1191336800	1191336801	1191336802	1191336805	1191336806
	HSS	4	Bottoming	D7	LH	1191336900	1191336901	1191336902	1191336905	1191336906
6" Ext	HSS	4	Taper	D7	RH	1191357900	1191357901	1191357902	1191357905	1191357906
6" Ext	HSS	4	Plug	D7	RH	1191358000	1191358001	1191358002	1191358005	1191358006
6" Ext	HSS	4	Bottoming	D7	RH	1191358100	1191358101	1191358102	1191358105	1191358106
Thread Forming Tap										
	HSS	6 Lobe	Plug	D12	RH	1191302700	1191302701	1191302702	1191302705	1191302706
	HSS	6 Lobe	Bottoming	D12	RH	1191302800	1191302801	1191302802	1191302805	1191302806

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	D Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>M18 x 1.0</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	D5	RH	1191354000	1191354001	1191354002	1191354005	1191354006
	HSS	4	Plug	D5	RH	1191354100	1191354101	1191354102	1191354105	1191354106
	HSS	4	Bottoming	D5	RH	1191354200	1191354201	1191354202	1191354205	1191354206
<b>M18 x 1.5</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	D3	RH	1191339200	1191339201	1191339202	1191339205	1191339206
	HSS	4	Plug	D3	RH	1191339300	1191339301	1191339302	1191339305	1191339306
	HSS	4	Bottoming	D3	RH	1191339400	1191339401	1191339402	1191339405	1191339406
	HSS	4	Taper	D4	RH	1191339500	1191339501	1191339502	1191339505	1191339506
	HSS	4	Plug	D4	RH	1191339600	1191339601	1191339602	1191339605	1191339606
	HSS	4	Bottoming	D4	RH	1191339700	1191339701	1191339702	1191339705	1191339706
	HSS	4	Taper	D6	RH	1191339800	1191339801	1191339802	1191339805	1191339806
	HSS	4	Plug	D6	RH	1191339900	1191339901	1191339902	1191339905	1191339906
	HSS	4	Bottoming	D6	RH	1191340000	1191340001	1191340002	1191340005	1191340006
	HSS	4	Taper	D6	LH	1191340100	1191340101	1191340102	1191340105	1191340106
	HSS	4	Plug	D6	LH	1191340200	1191340201	1191340202	1191340205	1191340206
	HSS	4	Bottoming	D6	LH	1191340300	1191340301	1191340302	1191340305	1191340306
Thread Forming Tap										
	HSS	6 Lobe	Plug	D12	RH	1191302900	1191302901	1191302902	1191302905	1191302906
	HSS	6 Lobe	Bottoming	D12	RH	1191303000	1191303001	1191303002	1191303005	1191303006
<b>M18 x 2.5</b>										
Spiral Point Tap										
	HSS	3	Plug	D7	RH	1191338500	1191338501	1191338502	1191338505	1191338506
Straight Flute Hand Tap										
	HSS	4	Taper	D7	RH	1191338600	1191338601	1191338602	1191338605	1191338606
	HSS	4	Plug	D7	RH	1191338700	1191338701	1191338702	1191338705	1191338706
	HSS	4	Bottoming	D7	RH	1191338800	1191338801	1191338802	1191338805	1191338806
	HSS	4	Taper	D7	LH	1191338900	1191338901	1191338902	1191338905	1191338906
	HSS	4	Plug	D7	LH	1191339000	1191339001	1191339002	1191339005	1191339006
	HSS	4	Bottoming	D7	LH	1191339100	1191339101	1191339102	1191339105	1191339106
<b>M20 x 1.0</b>										
Straight Flute Hand Tap										
	HSS	4	Plug	D6	RH	1191362700	1191362701	1191362702	1191362705	1191362706
	HSS	4	Bottoming	D6	RH	1191362800	1191362801	1191362802	1191362805	1191362806
<b>M20 x 1.5</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	D3	RH	1191341700	1191341701	1191341702	1191341705	1191341706
	HSS	4	Plug	D3	RH	1191341800	1191341801	1191341802	1191341805	1191341806
	HSS	4	Bottoming	D3	RH	1191341900	1191341901	1191341902	1191341905	1191341906
	HSS	4	Taper	D6	RH	1191342000	1191342001	1191342002	1191342005	1191342006
	HSS	4	Plug	D6	RH	1191342100	1191342101	1191342102	1191342105	1191342106
	HSS	4	Bottoming	D6	RH	1191342200	1191342201	1191342202	1191342205	1191342206
Plus 5	HSS	4	Taper	D11	RH	1191342600	1191342601	1191342602	1191342605	1191342606
Plus 5	HSS	4	Plug	D11	RH	1191342700	1191342701	1191342702	1191342705	1191342706
Plus 5	HSS	4	Bottoming	D11	RH	1191342800	1191342801	1191342802	1191342805	1191342806
	HSS	4	Taper	D6	LH	1191342300	1191342301	1191342302	1191342305	1191342306
	HSS	4	Plug	D6	LH	1191342400	1191342401	1191342402	1191342405	1191342406
	HSS	4	Bottoming	D6	LH	1191342500	1191342501	1191342502	1191342505	1191342506

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	D Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>M20 x 2.5</b>										
Spiral Point Tap										
	HSS	3	Plug	D7	RH	1191340700	1191340701	1191340702	1191340705	1191340706
Straight Flute Hand Tap										
	HSS	4	Taper	D4	RH	1191340400	1191340401	1191340402	1191340405	1191340406
	HSS	4	Plug	D4	RH	1191340500	1191340501	1191340502	1191340505	1191340506
	HSS	4	Bottoming	D4	RH	1191340600	1191340601	1191340602	1191340605	1191340606
	HSS	4	Taper	D7	RH	1191340800	1191340801	1191340802	1191340805	1191340806
	HSS	4	Plug	D7	RH	1191340900	1191340901	1191340902	1191340905	1191340906
	HSS	4	Bottoming	D7	RH	1191341000	1191341001	1191341002	1191341005	1191341006
Plus 5	HSS	4	Taper	D11	RH	1191341400	1191341401	1191341402	1191341405	1191341406
Plus 5	HSS	4	Plug	D11	RH	1191341500	1191341501	1191341502	1191341505	1191341506
Plus 5	HSS	4	Bottoming	D11	RH	1191341600	1191341601	1191341602	1191341605	1191341606
	HSS	4	Taper	D7	LH	1191341100	1191341101	1191341102	1191341105	1191341106
	HSS	4	Plug	D7	LH	1191341200	1191341201	1191341202	1191341205	1191341206
	HSS	4	Bottoming	D7	LH	1191341300	1191341301	1191341302	1191341305	1191341306
6" Ext	HSS	4	Taper	D7	RH	1191356600	1191356601	1191356602	1191356605	1191356606
6" Ext	HSS	4	Plug	D7	RH	1191356700	1191356701	1191356702	1191356705	1191356706
6" Ext	HSS	4	Bottoming	D7	RH	1191356800	1191356801	1191356802	1191356805	1191356806
Spiral Flute Tap										
Hi-Helix	HSS	4	Plug	D7	RH	1191362900	1191362901	1191362902	1191362905	1191362906
Hi-Helix	HSS	4	Bottoming	D7	RH	1191363000	1191363001	1191363002	1191363005	1191363006
<b>M22 x 1.5</b>										
Straight Flute Hand Tap										
	HSS	3	Taper	D3	RH	1191343800	1191343801	1191343802	1191343805	1191343806
	HSS	3	Plug	D3	RH	1191343900	1191343901	1191343902	1191343905	1191343906
	HSS	3	Bottoming	D3	RH	1191344000	1191344001	1191344002	1191344005	1191344006
	HSS	4	Taper	D6	RH	1191344100	1191344101	1191344102	1191344105	1191344106
	HSS	4	Plug	D6	RH	1191344200	1191344201	1191344202	1191344205	1191344206
	HSS	4	Bottoming	D6	RH	1191344300	1191344301	1191344302	1191344305	1191344306
Plus 5	HSS	4	Taper	D11	RH	1191344700	1191344701	1191344702	1191344705	1191344706
Plus 5	HSS	4	Plug	D11	RH	1191344800	1191344801	1191344802	1191344805	1191344806
Plus 5	HSS	4	Bottoming	D11	RH	1191344900	1191344901	1191344902	1191344905	1191344906
	HSS	4	Taper	D6	LH	1191344400	1191344401	1191344402	1191344405	1191344406
	HSS	4	Plug	D6	LH	1191344500	1191344501	1191344502	1191344505	1191344506
	HSS	4	Bottoming	D6	LH	1191344600	1191344601	1191344602	1191344605	1191344606
<b>M22 x 2.5</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	D4	RH	1191342900	1191342901	1191342902	1191342905	1191342906
	HSS	4	Plug	D4	RH	1191343000	1191343001	1191343002	1191343005	1191343006
	HSS	4	Bottoming	D4	RH	1191343100	1191343101	1191343102	1191343105	1191343106
	HSS	4	Taper	D7	RH	1191343200	1191343201	1191343202	1191343205	1191343206
	HSS	4	Plug	D7	RH	1191343300	1191343301	1191343302	1191343305	1191343306
	HSS	4	Bottoming	D7	RH	1191343400	1191343401	1191343402	1191343405	1191343406
	HSS	4	Taper	D7	LH	1191343500	1191343501	1191343502	1191343505	1191343506
	HSS	4	Plug	D7	LH	1191343600	1191343601	1191343602	1191343605	1191343606
	HSS	4	Bottoming	D7	LH	1191343700	1191343701	1191343702	1191343705	1191343706
<b>M24 x 1.5</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	D6	RH	1191355800	1191355801	1191355802	1191355805	1191355806
	HSS	4	Plug	D6	RH	1191355900	1191355901	1191355902	1191355905	1191355906
	HSS	4	Bottoming	D6	RH	1191356000	1191356001	1191356002	1191356005	1191356006

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	D Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>M24 x 2.0</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	D4	RH	1191346200	1191346201	1191346202	1191346205	1191346206
	HSS	4	Plug	D4	RH	1191346300	1191346301	1191346302	1191346305	1191346306
	HSS	4	Bottoming	D4	RH	1191346400	1191346401	1191346402	1191346405	1191346406
	HSS	4	Taper	D7	RH	1191346500	1191346501	1191346502	1191346505	1191346506
	HSS	4	Plug	D7	RH	1191346600	1191346601	1191346602	1191346605	1191346606
	HSS	4	Bottoming	D7	RH	1191346700	1191346701	1191346702	1191346705	1191346706
	HSS	4	Taper	D7	LH	1191346800	1191346801	1191346802	1191346805	1191346806
	HSS	4	Plug	D7	LH	1191346900	1191346901	1191346902	1191346905	1191346906
	HSS	4	Bottoming	D7	LH	1191347000	1191347001	1191347002	1191347005	1191347006
<b>M24 x 3.0</b>										
Spiral Point Tap										
	HSS	3	Plug	D8	RH	1191361400	1191361401	1191361402	1191361405	1191361406
Straight Flute Hand Tap										
	HSS	4	Taper	D4	RH	1191345000	1191345001	1191345002	1191345005	1191345006
	HSS	4	Plug	D4	RH	1191345100	1191345101	1191345102	1191345105	1191345106
	HSS	4	Bottoming	D4	RH	1191345200	1191345201	1191345202	1191345205	1191345206
	HSS	4	Taper	D8	RH	1191345300	1191345301	1191345302	1191345305	1191345306
	HSS	4	Plug	D8	RH	1191345400	1191345401	1191345402	1191345405	1191345406
	HSS	4	Bottoming	D8	RH	1191345500	1191345501	1191345502	1191345505	1191345506
Plus 5	HSS	4	Taper	D11	RH	1191345900	1191345901	1191345902	1191345905	1191345906
Plus 5	HSS	4	Plug	D11	RH	1191346000	1191346001	1191346002	1191346005	1191346006
Plus 5	HSS	4	Bottoming	D11	RH	1191346100	1191346101	1191346102	1191346105	1191346106
	HSS	4	Taper	D8	LH	1191345600	1191345601	1191345602	1191345605	1191345606
	HSS	4	Plug	D8	LH	1191345700	1191345701	1191345702	1191345705	1191345706
	HSS	4	Bottoming	D8	LH	1191345800	1191345801	1191345802	1191345805	1191345806
<b>M25 x 1.5</b>										
Straight Flute Hand Tap										
	HSS	4	Plug	D6	RH	1191361500	1191361501	1191361502	1191361505	1191361506
	HSS	4	Bottoming	D6	RH	1191361600	1191361601	1191361602	1191361605	1191361606
<b>M26 x 1.5</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	D6	RH	1191359800	1191359801	1191359802	1191359805	1191359806
	HSS	6	Plug	D6	RH	1191359900	1191359901	1191359902	1191359905	1191359906
	HSS	6	Bottoming	D6	RH	1191360000	1191360001	1191360002	1191360005	1191360006
<b>M27 x 1.5</b>										
Straight Flute Hand Tap										
	HSS	6	Plug	D6	RH	1191363100	1191363101	1191363102	1191363105	1191363106
	HSS	6	Bottoming	D6	RH	1191363200	1191363201	1191363202	1191363205	1191363206
<b>M27 x 2.0</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	D5	RH	1191348000	1191348001	1191348002	1191348005	1191348006
	HSS	4	Plug	D5	RH	1191348100	1191348101	1191348102	1191348105	1191348106
	HSS	4	Bottoming	D5	RH	1191348200	1191348201	1191348202	1191348205	1191348206
	HSS	4	Taper	D7	RH	1191348300	1191348301	1191348302	1191348305	1191348306
	HSS	4	Plug	D7	RH	1191348400	1191348401	1191348402	1191348405	1191348406
	HSS	4	Bottoming	D7	RH	1191348500	1191348501	1191348502	1191348505	1191348506

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	D Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>M27 x 3.0</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	D5	RH	1191347100	1191347101	1191347102	1191347105	1191347106
	HSS	4	Plug	D5	RH	1191347200	1191347201	1191347202	1191347205	1191347206
	HSS	4	Bottoming	D5	RH	1191347300	1191347301	1191347302	1191347305	1191347306
	HSS	4	Taper	D8	RH	1191347400	1191347401	1191347402	1191347405	1191347406
	HSS	4	Plug	D8	RH	1191347500	1191347501	1191347502	1191347505	1191347506
	HSS	4	Bottoming	D8	RH	1191347600	1191347601	1191347602	1191347605	1191347606
	HSS	4	Taper	D8	LH	1191347700	1191347701	1191347702	1191347705	1191347706
	HSS	4	Plug	D8	LH	1191347800	1191347801	1191347802	1191347805	1191347806
	HSS	4	Bottoming	D8	LH	1191347900	1191347901	1191347902	1191347905	1191347906
<b>M30 x 1.5</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	D6	RH	1191354300	1191354301	1191354302	1191354305	1191354306
	HSS	6	Plug	D6	RH	1191354400	1191354401	1191354402	1191354405	1191354406
	HSS	6	Bottoming	D6	RH	1191354500	1191354501	1191354502	1191354505	1191354506
<b>M30 x 2.0</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	D5	RH	1191349500	1191349501	1191349502	1191349505	1191349506
	HSS	4	Plug	D5	RH	1191349600	1191349601	1191349602	1191349605	1191349606
	HSS	4	Bottoming	D5	RH	1191349700	1191349701	1191349702	1191349705	1191349706
	HSS	4	Taper	D7	RH	1191349800	1191349801	1191349802	1191349805	1191349806
	HSS	4	Plug	D7	RH	1191349900	1191349901	1191349902	1191349905	1191349906
	HSS	4	Bottoming	D7	RH	1191350000	1191350001	1191350002	1191350005	1191350006
<b>M30 x 3.5</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	D5	RH	1191348600	1191348601	1191348602	1191348605	1191348606
	HSS	4	Plug	D5	RH	1191348700	1191348701	1191348702	1191348705	1191348706
	HSS	4	Bottoming	D5	RH	1191348800	1191348801	1191348802	1191348805	1191348806
	HSS	4	Taper	D9	RH	1191348900	1191348901	1191348902	1191348905	1191348906
	HSS	4	Plug	D9	RH	1191349000	1191349001	1191349002	1191349005	1191349006
	HSS	4	Bottoming	D9	RH	1191349100	1191349101	1191349102	1191349105	1191349106
	HSS	4	Taper	D9	LH	1191349200	1191349201	1191349202	1191349205	1191349206
	HSS	4	Plug	D9	LH	1191349300	1191349301	1191349302	1191349305	1191349306
	HSS	4	Bottoming	D9	LH	1191349400	1191349401	1191349402	1191349405	1191349406
<b>M32 x 1.5</b>										
Straight Flute Hand Tap										
	HSS	6	Plug	D6	RH	1191363300	1191363301	1191363302	1191363305	1191363306
	HSS	6	Bottoming	D6	RH	1191363400	1191363401	1191363402	1191363405	1191363406
<b>M32 x 2.0</b>										
Straight Flute Hand Tap										
	HSS	6	Plug	D7	RH	1191365300	1191365301	1191365302	1191365305	1191365306
	HSS	6	Bottoming	D7	RH	1191365400	1191365401	1191365402	1191365405	1191365406
<b>M33 x 2.0</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	D5	RH	1191350700	1191350701	1191350702	1191350705	1191350706
	HSS	4	Plug	D5	RH	1191350800	1191350801	1191350802	1191350805	1191350806
	HSS	4	Bottoming	D5	RH	1191350900	1191350901	1191350902	1191350905	1191350906
	HSS	4	Taper	D7	RH	1191351000	1191351001	1191351002	1191351005	1191351006
	HSS	4	Plug	D7	RH	1191351100	1191351101	1191351102	1191351105	1191351106
	HSS	4	Bottoming	D7	RH	1191351200	1191351201	1191351202	1191351205	1191351206

Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	D Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>M33 x 3.5</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	D5	RH	1191350100	1191350101	1191350102	1191350105	1191350106
	HSS	4	Plug	D5	RH	1191350200	1191350201	1191350202	1191350205	1191350206
	HSS	4	Bottoming	D5	RH	1191350300	1191350301	1191350302	1191350305	1191350306
	HSS	4	Taper	D9	RH	1191350400	1191350401	1191350402	1191350405	1191350406
	HSS	4	Plug	D9	RH	1191350500	1191350501	1191350502	1191350505	1191350506
	HSS	4	Bottoming	D9	RH	1191350600	1191350601	1191350602	1191350605	1191350606
<b>M35 x 1.5</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	D6	RH	1191358200	1191358201	1191358202	1191358205	1191358206
	HSS	6	Plug	D6	RH	1191358300	1191358301	1191358302	1191358305	1191358306
	HSS	6	Bottoming	D6	RH	1191358400	1191358401	1191358402	1191358405	1191358406
<b>M36 x 1.5</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	D6	RH	1191358500	1191358501	1191358502	1191358505	1191358506
	HSS	6	Plug	D6	RH	1191358600	1191358601	1191358602	1191358605	1191358606
	HSS	6	Bottoming	D6	RH	1191358700	1191358701	1191358702	1191358705	1191358706
<b>M36 x 2.0</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	D7	RH	1191356100	1191356101	1191356102	1191356105	1191356106
	HSS	6	Plug	D7	RH	1191356200	1191356201	1191356202	1191356205	1191356206
	HSS	6	Bottoming	D7	RH	1191356300	1191356301	1191356302	1191356305	1191356306
<b>M36 x 3.0</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	D5	RH	1191351900	1191351901	1191351902	1191351905	1191351906
	HSS	4	Plug	D5	RH	1191352000	1191352001	1191352002	1191352005	1191352006
	HSS	4	Bottoming	D5	RH	1191352100	1191352101	1191352102	1191352105	1191352106
	HSS	4	Taper	D8	RH	1191352200	1191352201	1191352202	1191352205	1191352206
	HSS	4	Plug	D8	RH	1191352300	1191352301	1191352302	1191352305	1191352306
	HSS	4	Bottoming	D8	RH	1191352400	1191352401	1191352402	1191352405	1191352406
<b>M36 x 4.0</b>										
Straight Flute Hand Tap										
	HSS	4	Taper	D5	RH	1191351300	1191351301	1191351302	1191351305	1191351306
	HSS	4	Plug	D5	RH	1191351400	1191351401	1191351402	1191351405	1191351406
	HSS	4	Bottoming	D5	RH	1191351500	1191351501	1191351502	1191351505	1191351506
	HSS	4	Taper	D9	RH	1191351600	1191351601	1191351602	1191351605	1191351606
	HSS	4	Plug	D9	RH	1191351700	1191351701	1191351702	1191351705	1191351706
	HSS	4	Bottoming	D9	RH	1191351800	1191351801	1191351802	1191351805	1191351806
<b>M39 x 3.0</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	D6	RH	1191353100	1191353101	1191353102	1191353105	1191353106
	HSS	6	Plug	D6	RH	1191353200	1191353201	1191353202	1191353205	1191353206
	HSS	6	Bottoming	D6	RH	1191353300	1191353301	1191353302	1191353305	1191353306
	HSS	6	Taper	D8	RH	1191353400	1191353401	1191353402	1191353405	1191353406
	HSS	6	Plug	D8	RH	1191353500	1191353501	1191353502	1191353505	1191353506
	HSS	6	Bottoming	D8	RH	1191353600	1191353601	1191353602	1191353605	1191353606



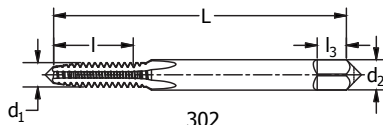
# Fast Tap



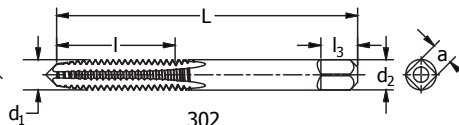
CUSTOMER SERVICE: telephone 800.348.2885 • fax 800.892.4290

Metric Sizes

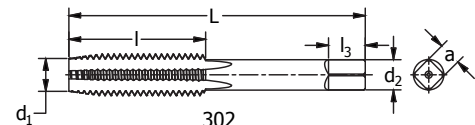
Tap Style	Specifications					Surface Treatment				
	Material	Flutes	Chamfer	D Limit	RH / LH	Bright	Steam Oxide	Steam Oxide Over Nitride	TiN	TiCN
<b>M39 x 4.0</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	D6	RH	1191352500	1191352501	1191352502	1191352505	1191352506
	HSS	6	Plug	D6	RH	1191352600	1191352601	1191352602	1191352605	1191352606
	HSS	6	Bottoming	D6	RH	1191352700	1191352701	1191352702	1191352705	1191352706
	HSS	6	Taper	D9	RH	1191352800	1191352801	1191352802	1191352805	1191352806
	HSS	6	Plug	D9	RH	1191352900	1191352901	1191352902	1191352905	1191352906
	HSS	6	Bottoming	D9	RH	1191353000	1191353001	1191353002	1191353005	1191353006
<b>M40 x 1.5</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	D6	RH	1191359100	1191359101	1191359102	1191359105	1191359106
	HSS	6	Plug	D6	RH	1191359200	1191359201	1191359202	1191359205	1191359206
	HSS	6	Bottoming	D6	RH	1191359300	1191359301	1191359302	1191359305	1191359306
<b>M42 x 1.5</b>										
Straight Flute Hand Tap										
	HSS	6	Plug	D6	RH	1191363500	1191363501	1191363502	1191363505	1191363506
	HSS	6	Bottoming	D6	RH	1191363600	1191363601	1191363602	1191363605	1191363606
<b>M42 x 4.5</b>										
Straight Flute Hand Tap										
	HSS	6	Taper	D10	RH	1191358800	1191358801	1191358802	1191358805	1191358806
	HSS	6	Plug	D10	RH	1191358900	1191358901	1191358902	1191358905	1191358906
	HSS	6	Bottoming	D10	RH	1191359000	1191359001	1191359002	1191359005	1191359006



Tap Blank Design 1



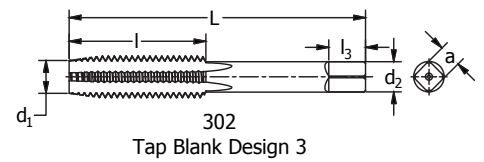
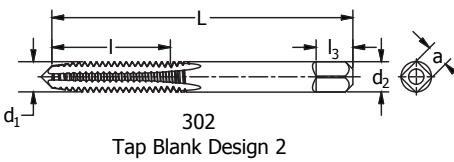
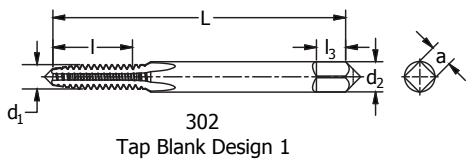
Tap Blank Design 2



Tap Blank Design 3

Nominal Diameter Inches		Machine Screw Size No.	Nominal Fractional Diameter (Inches)	Nominal Metric Diameter mm (Inches)	Blank Design No.	Tap Dimensions - Inches				
Over	To					Overall Length L	Thread Length l	Square Length l <sub>3</sub>	Shank Diameter d <sub>2</sub>	Size of Square a
.052	.065	0 (.0600)		M1.6 (.0630)	1	1.63	.31	.19	.1410	.110
.065	.078	1 (.0730)		M1.8 (.0709)	1	1.69	.38	.19	.1410	.110
.078	.091	2 (.0860)		M2 (.0787), M2.2 (.0866)	1	1.75	.44	.19	.1410	.110
.091	.104	3 (.0990)		M2.5 (.0984)	1	1.81	.50	.19	.1410	.110
.104	.117	4 (.1120)			1	1.88	.56	.19	.1410	.110
.117	.130	5 (.1250)		M3 (.1181)	1	1.94	.63	.19	.1410	.110
.130	.145	6 (.1380)		M3.5 (.1378)	1	2.00	.69	.19	.1410	.110
.145	.171	8 (.1640)		M4 (.1575)	1	2.13	.75	.25	.1680	.131
.171	.197	10 (.1900)		M4.5 (.1772), M5 (.1969)	1	2.38	.88	.25	.1940	.152
.197	.223	12 (.2160)			1	2.38	.94	.28	.2200	.165
.223	.260		1/4 (.2500)	M6 (.2362)	2	2.50	1.00	.31	.2550	.191
.260	.323		5/16 (.3125)	M7 (.2756), M8 (.3150)	2	2.72	1.13	.38	.3180	.238
.323	.395		3/8 (.3750)	M10 (.3937)	2	2.94	1.25	.44	.3810	.286
.395	.448		7/16 (.4375)		3	3.16	1.44	.41	.3230	.242
.448	.510		1/2 (.5000)	M12 (.4724)	3	3.38	1.66	.44	.3670	.275
.510	.573		9/16 (.5625)	M14 (.5512)	3	3.59	1.66	.50	.4290	.322
.573	.635		5/8 (.6250)	M16 (.6299)	3	3.81	1.81	.56	.4800	.360
.635	.709		11/16 (.6875)	M18 (.7087)	3	4.03	1.81	.63	.5420	.406
.709	.760		3/4 (.7500)		3	4.25	2.00	.69	.5900	.442
.760	.823		13/16 (.8125)	M20 (.7874)	3	4.47	2.00	.69	.6520	.489
.823	.885		7/8 (.8750)	M22 (.8661)	3	4.69	2.22	.75	.6970	.523
.885	.948		15/16 (.9375)	M24 (.9449)	3	4.91	2.22	.75	.7600	.570
.948	1.010		1 (1.0000)	M25 (.9843)	3	5.13	2.50	.81	.8000	.600
1.010	1.073		1-1/16 (1.0625)	M27 (1.0630)	3	5.13	2.50	.88	.8960	.672
1.073	1.135		1-1/8 (1.1250)		3	5.44	2.56	.88	.8960	.672
1.135	1.198		1-3/16 (1.1875)	M30 (1.1811)	3	5.44	2.56	1.00	1.0210	.766
1.198	1.260		1-1/4 (1.2500)		3	5.75	2.56	1.00	1.0210	.766
1.260	1.323		1-5/16 (1.3125)	M33 (1.2992)	3	5.75	2.56	1.06	1.1080	.831
1.323	1.385		1-3/8 (1.3750)		3	6.06	3.00	1.06	1.1080	.831
1.385	1.448		1-7/16 (1.4375)	M36 (1.4173)	3	6.06	3.00	1.13	1.2330	.925
1.448	1.510		1-1/2 (1.5000)		3	6.38	3.00	1.13	1.2330	.925
1.510	1.635		1-5/8 (1.6250)	M39 (1.5354)	3	6.69	3.19	1.13	1.3050	.979
1.635	1.760		1-3/4 (1.7500)	M42 (1.6535)	3	7.00	3.19	1.25	1.4300	1.072
1.760	1.885		1-7/8 (1.8750)		3	7.31	3.56	1.25	1.5190	1.139
1.885	2.010		2 (2.0000)	M48 (1.8898)	3	7.63	3.56	1.38	1.6440	1.233





Nominal Diameter Inches		Machine Screw Size No.	Nominal Fractional Diameter (Inches)	Nominal Metric Diameter mm (Inches)	Blank Design No.	Tap Dimensions - Inches				
Over	To					Overall Length L	Thread Length l	Square Length l <sub>3</sub>	Shank Diameter d <sub>2</sub>	Size of Square a
2.010	2.135		2-1/8 (2.1250)		3	8.00	3.56	1.38	1.7690	1.327
2.135	2.260		2-1/4 (2.2500)	M56 (2.2047)	3	8.25	3.56	1.44	1.8940	1.420
2.260	2.385		2-3/8 (2.3750)		3	8.50	4.00	1.44	2.0190	1.514
2.385	2.510		2-1/2 (2.5000)		3	8.75	4.00	1.50	2.1000	1.575
2.510	2.635		2-5/8 (2.6250)	M64 (2.5197)	3	8.75	4.00	1.50	2.2250	1.669
2.635	2.760		2-3/4 (2.7500)		3	9.25	4.00	1.56	2.3500	1.762
2.760	2.885		2-7/8 (2.8750)	M72 (2.8346)	3	9.25	4.00	1.56	2.4750	1.856
2.885	3.010		3 (3.0000)		3	9.75	4.56	1.63	2.5430	1.907
3.010	3.135		3-1/8 (3.1250)		3	9.75	4.56	1.63	2.6680	2.001
3.135	3.260		3-1/4 (3.2500)	M80 (3.1496)	3	10.00	4.56	1.75	2.7930	2.095
3.260	3.385		3-3/8 (3.3750)		3	10.00	4.56	1.75	2.8830	2.162
3.385	3.510		3-1/2 (3.5000)		3	10.25	4.94	2.00	3.0080	2.256
3.510	3.635		3-5/8 (3.6250)	M90 (3.5433)	3	10.25	4.94	2.00	3.1330	2.350
3.635	3.760		3-3/4 (3.7500)		3	10.50	5.31	2.13	3.2170	2.413
3.760	3.885		3-7/8 (3.8750)		3	10.50	5.31	2.13	3.3420	2.506
3.885	4.010		4 (4.0000)	M100 (3.9370)	3	10.75	5.31	2.25	3.4670	2.600

### Notes

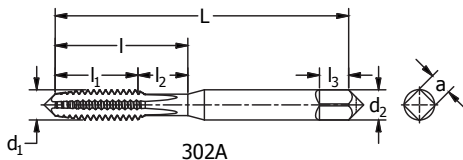
Tap sizes .395" and smaller have an external center on the threaded (may be removed on bottoming taps).

Sizes .223" and smaller have an external center on the shank end. Sizes .224" thru .395" have truncated partial cone centers on the shank end (length of cone approx. 1/4 of diameter of shank). Sizes over .395" have internal centers on both the thread and shank ends.

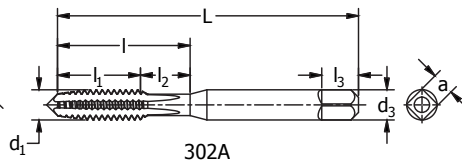
For standard thread limits and tolerances for Unified Inch Screw Threads see table 327 and for Metric Threads see Table 337.

For eccentricity tolerances of tap elements see Table 317.

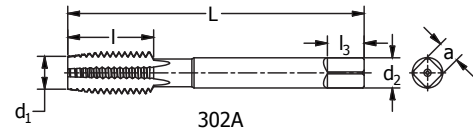
Element	Nominal Diameter Inches		Direction	Tolerance Inches
	Over	To		
Length Overall - L	.0520	1.0100	Plus or Minus	.031
	1.0100	4.0100	Plus or Minus	.063
Length of Thread - l	.0520	.2230	Plus or Minus	.047
	.2230	.5100	Plus or Minus	.063
	.5100	1.5100	Plus or Minus	.094
Length of square - l <sub>3</sub>	.0520	1.0100	Plus or Minus	.031
	1.0100	4.0100	Plus or Minus	.063
	.0520	.2230	Minus	.0015
Shank Diameter - d <sub>2</sub>	.2230	.6350	Minus	.0015
	.6350	1.0100	Minus	.0020
	1.0100	1.5100	Minus	.0020
Size of Square - a	1.5100	2.0100	Minus	.0030
	2.0100	4.0100	Minus	.0030
	.0520	.5100	Minus	.004
Size of Square - a	.5100	1.0100	Minus	.006
	1.0100	2.0100	Minus	.008
	2.0100	4.0100	Minus	.010



302A  
Tap Blank Design 1  
with optional neck



302A  
Tap Blank Design 2  
with optional neck

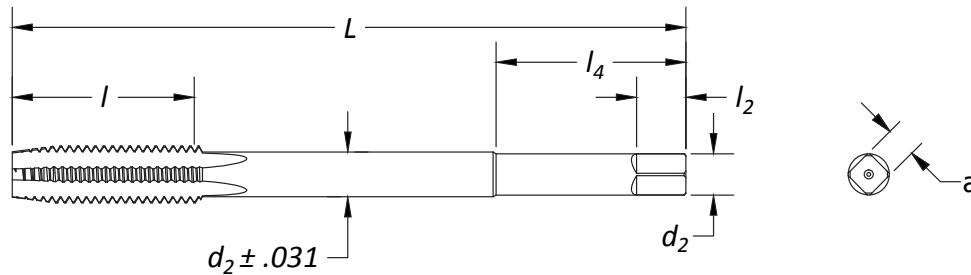


302A  
Tap Blank Design 3  
with optional neck

Nominal Diameter Inches		Machine Screw Size No.	Nominal Fractional Diameter (Inches)	Nominal Metric Diameter mm (Inches)	Blank Design No.	Tap Dimensions - Inches					
Over	To					Overall Length L	Thread Length l	Neck Length l <sub>1</sub>	Square Length l <sub>3</sub>	Shank Diameter d <sub>2</sub>	Size of Square a
.104	.117	4 (.1120)			1	1.88	.31	.25	.19	.1410	.110
.117	.130	5 (.1250)		M3 (.1181)	1	1.94	.31	.31	.19	.1410	.110
.130	.145	6 (.1380)		M3.5 (.1378)	1	2.00	.38	.31	.19	.1410	.110
.145	.171	8 (.1640)		M4 (.1575)	1	2.13	.38	.38	.25	.1680	.131
.171	.197	10 (.1900)		M4.5 (.1772), M5 (.1969)	1	2.38	.50	.38	.25	.1940	.152
.197	.223	12 (.2160)			1	2.38	.50	.44	.28	.2200	.165
.223	.260		1/4 (.2500)	M6 (.2362)	2	2.50	.63	.38	.31	.2550	.191
.260	.323		5/16 (.3125)	M7 (.2756), M8 (.3150)	2	2.72	.69	.44	.38	.3180	.238
.323	.395		3/8 (.3750)	M10 (.3937)	2	2.94	.75	.50	.44	.3810	.286
.395	.448		7/16 (.4375)		3	3.16	.88		.41	.3230	.242
.448	.510		1/2 (.5000)	M12 (.4724)	3	3.38	.94		.44	.3670	.275
.510	.573		9/16 (.5625)	M14 (.5512)	3	3.59	1.00		.50	.4290	.322
.573	.635		5/8 (.6250)	M16 (.6299)	3	3.81	1.09		.56	.4800	.360
.635	.709		11/16 (.6875)	M18 (.7087)	3	4.03	1.09		.63	.5420	.406
.709	.760		3/4 (.7500)		3	4.25	1.22		.69	.5900	.442
.760	.823		13/16 (.8125)	M20 (.7874)	3	4.47	1.22		.69	.6520	.489
.823	.885		7/8 (.8750)	M22 (.8661)	3	4.69	1.34		.75	.6970	.523
.885	.948		15/16 (.9375)	M24 (.9449)	3	4.91	1.34		.75	.7600	.570
.948	1.010		1 (1.0000)	M25 (.9843)	3	5.13	1.50		.81	.8000	.600

**Notes**

1. Thread Length "l" is based on a length of 12 pitches of the UNC thread series.
2. Thread Length "l" is a minimum value and has no tolerance.
3. When Thread Length "l" is added to Neck Length "l<sub>1</sub>" the total shall be no less than the minimum Table 302 Thread Length "l".
4. Unless otherwise specified, all tolerances are in accordance with Table 302.
5. For eccentricity tolerances, see Table 317.



Unless otherwise specified, special extension taps will be furnished with dimensions and tolerances as shown for Machine Screw and Fractional taps in Tables 302 and 303, and for Pipe taps in Table 311.

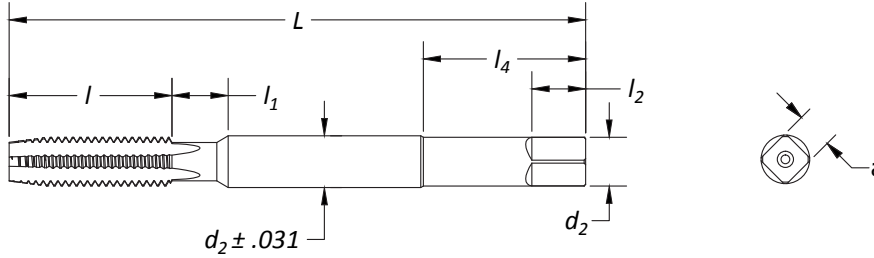
**Exceptions:**

1. Types of centers are optional with manufacturer.
2. Tolerances on shank diameter  $d_2$  for  $l_4$  length as shown in the following table.
3. Shank eccentricity tolerance in Table 317 applies only to the  $l_4$  length shown in the following table.
4. Length of Close Tolerance Shank, ( $l_4$ ) is minimum.

Nominal Tap Size		Tap Dimensions - Inches				
Fractional	Machine Screw	Thread Length $l$	Shank Diameter $d_2$	Square Length $l_2$	Square Size $a$	Ground Shank Length $l_4$
	6	0.69	0.1410	0.19	.110	1.13
	8	0.75	0.1680	0.25	.131	1.25
	10- 12	0.88	0.1940	0.25	.152	1.38
1/4	14	1.00	0.2550	0.31	.191	1.50
1/4*		1.00	0.1850	0.25	.138	Full Length
5/16		1.13	0.3180	0.38	.238	1.56
5/16*		1.13	0.2400	0.28	.180	Full Length
3/8		1.25	0.3810	0.44	.286	1.63
3/8*		1.25	0.2750	0.38	.206	Full Length
7/16		1.44	0.3230	0.41	.242	1.69
1/2		1.66	0.3670	0.44	.275	1.69
9/16		1.66	0.4290	0.50	.322	1.88
5/8		1.81	0.4800	0.56	.360	2.00
3/4		2.00	0.5900	0.69	.442	2.25
7/8		2.22	0.6970	0.75	.523	2.50
1"		2.50	0.8000	0.81	.600	2.63
1-1/8		2.56	0.8960	0.88	.672	2.75
1-1/4		2.56	1.0210	1.00	.766	2.88
1-3/8		3.00	1.1080	1.06	.831	3.00
1-1/2		3.00	1.2330	1.13	.925	3.00

**Tolerances for Shank Diameter,  $d_2$  and  $l_4$  length**

Size Range		Direction	Tolerances
Fractional	Machine Screw		
1/4 to 5/8 incl.	0 -14 incl.	Minus	.003
11/16 to 1-1/2 incl.		Minus	.004



Nominal Fraction Diameter Inches	Tap Dimensions - Inches					Shank Diameter d <sub>2</sub>	Size of Square a
	Overall Length L	Thread Length l	Neck Length l <sub>1</sub>	Square Length l <sub>2</sub>	Length of Shank close Tolerance section l <sub>4</sub>		
1/4 (.2500)	6,8	1.00	.38	.31	1.50	.2550	.191
5/16 (.3125)	6,8	1.13	.38	.38	1.56	.3180	.238
3/8 (.3750)	6,8,10	1.25	.38	.44	1.63	.3810	.286
7/16 (.4375)	6,8	1.44	.44	.50	1.69	.4440	.333
1/2 (.5000)	6,8,10,12	1.66	.50	.56	1.69	.5070	.380
5/8 (.6250)	6,8,10,12	1.81	.63	.69	2.00	.6330	.475
3/4 (.7500)	10,12	2.00	.75	.75	2.25	.7590	.569

**Tolerances**

Element	Size Range	Direction	Tolerance
Overall Length - L	1/4 to 3/4 included	Plus or Minus	.063
Thread Length - l	1/4 to 3/4 included	Plus or Minus	.063
Neck Length - l <sub>1</sub>	1/4 to 3/4 included	See Note - 1	See Note -1
Square Length - l <sub>2</sub>	1/4 to 3/4 included	Plus or Minus	.031
Length of Shank (close tol.) l <sub>4</sub>	1/4 to 3/4 included	See Note - 2	See Note - 2
Size of Diameter - d <sub>1</sub>	1/4 to 3/4 included	Minus	.0050
Size of Square - a	1/4 to 1/2 included	Minus	.004
	5/8 to 3/4 included	Minus	.006

**Notes**

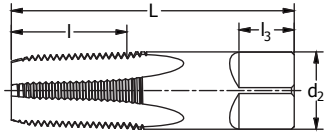
1. l<sub>1</sub> (Neck Length); neck and its length is optional with manufacturer.
2. l<sub>4</sub> (Length of Close Tolerance Shank) is minimum length which is held to eccentricity tolerances per Table 317.

**General Notes**

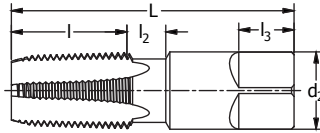
- a. These taps have an internal center in the thread end.
- b. These taps are made to the H3 limits shown in Table 327.
- c. For eccentricity tolerances of taps elements see Table 317.
- d. d<sub>2</sub> (Shank diameter) is approximately the same as the maximum major diameter for that size.
- e. a (Size of Square) is equal to .75 X d to the nearest .001 inch.

## Ground Thread, Straight and Taper - USCTI Table 311

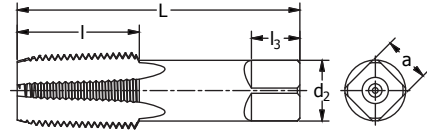
## Tap Dimensions



311  
Pipe Tap Blank Design 1



311  
Pipe Tap Blank Design 2  
with optional neck



311  
Pipe Tap Blank Design 3

Nominal Size Inches	Tap Dimensions - Inches					Optional Neck Length $l_2$
	Overall Length $L$	Thread Length $l$	Square Length $l_3$	Shank Diameter $d_2$	Size of Square $a$	
1/16	2.13	.69	.38	.3125	.234	.375
1/8*	2.13	.75	.38	.3125	.234	
1/8	2.13	.75	.38	.4375	.328	.375
1/4	2.44	1.06	.44	.5625	.421	.375
3/8	2.56	1.06	.50	.7000	.531	.375
1/2	3.13	1.38	.63	.6875	.515	
3/4	3.25	1.38	.69	.9063	.679	
1"	3.75	1.75	.81	1.1250	.843	
1-1/4	4.00	1.75	.94	1.3125	.984	
1-1/2	4.25	1.75	1.00	1.5000	1.125	
2"	4.50	1.75	1.13	1.8750	1.406	
2-1/2	5.50	2.56	1.25	2.2500	1.687	
3"	6.00	2.63	1.38	2.6250	1.968	
3- 1/2	6.50	2.69	1.50	2.8125	2.108	
4"	6.75	2.75	1.56	3.0000	2.250	

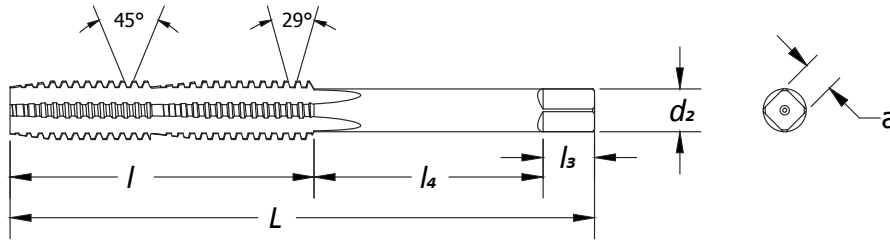
\*Small shank

### Tolerances

Element	Range	Direction	Tolerance Inches
Length Overall - $L$	1/16 to 3/4 inc.	Plus or Minus	.031
	1" to 4" inc.	Plus or Minus	.063
Length of Thread - $l$	1/16 to 3/4 inc.	Plus or Minus	.063
	1" to 1-1/4 inc.	Plus or Minus	.094
	1-1/2 to 4"	Plus or Minus	.125
Length of Square - $l_2$	1/16 to 3/4 inc.	Plus or Minus	.031
	1" to 4" inc.	Plus or Minus	.063
Diameter of Shank - $d_2$	1/16 to 1/8	Minus	.0015
	1/4 to 1" inc.	Minus	.0020
	1 -1/4 to 4" inc.	Minus	.0030
Size of Square - $a$	1/16 to 1/8	Minus	.004
	1/4 to 3/4 inc.	Minus	.006
	1" to 4" inc.	Minus	.008

### Note

For thread limits and tolerances see USCTI Tables 335 and 335A.



Size and Pitch	Overall Length L	Thread Length l	Round Shank		Square		Maximum Depth of Nut	
			Length l <sub>4</sub>	Diameter d <sub>2</sub>	Length l <sub>3</sub>	Across Flats a	Bronze & Steel	Brass & Cast Iron
1/4-16	3"	1-3/4	1"	.185	1/4	.138	1/2	3/4
5/16-14	3-13/32	1-7/8	1-1/4	.220	9/32	.165	5/8	7/8
3/8-12	4-1/16	2-1/8	1-5/8	.255	5/16	.191	5/8	1"
1/2-10	5"	2-9/16	2"	.367	7/16	.275	1"	1-1/2
5/8-8	6-1/4	3-3/16	2-1/2	.480	9/16	.360	1-1/4	1-7/8
3/4-6	7-15/16	4-5/16	3"	.542	5/8	.406	1-1/2	2-1/4
3/4-8	7-15/16	4-5/16	3"	.542	5/8	.406	1-1/2	2-1/4
7/8-6	8-5/8	4-3/8	3-1/2	.697	3/4	.523	1-3/4	2-5/8
1"-5	10-1/8	5-1/4	4"	.697	3/4	.523	2'	3"
1-1/8-5	10-3/4	5-1/4	4-1/2	.800	13/16	.600	2-1/4	3-3/8
1-1/4-5	11-1/8	5-1/4	4-3/4	.896	7/8	.672	2-1/2	3-3/4
1-3/8-4	12-1/4	5-7/8	5-1/8	1.108	1-1/4	.831	2-3/4	4-1/8
1-1/2-4	12-5/8	5-7/8	5-1/2	1.233	1-1/4	.925	3'	4-1/2
1-3/4-4	13-3/8	5-7/8	6-1/4	1.430	1-1/4	1.072	3-1/2	5"
2"-4	14-7/8	6-1/2	7	1.644	1-3/8	1.233	4"	6"





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