

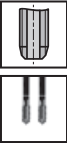

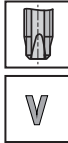
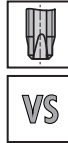
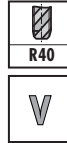
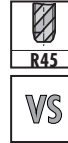





















UNF, UNEF UNS, UN

Inhaltsverzeichnis — Maschinengewindebohrer ASME B1.1 Directory — Machine taps ASME B1.1

		N						
Merkmale Characteristics								
				V	TiN		V	TiN
					NEW			NEW
Lochart Hole type								
		N310-3	N320-3 N320-4	N320V-4	N320TN-4	N360-3	N360V-3	N360TN-3
DIN lang DIN long	DIN 371	176	176	176	176	178	178	178
ISO kurz ISO short	ISO 529							
Toleranz Tolerance	UNF 2B	176	176	176	176	178	178	178
Toleranz Tolerance	UNF(J) 3B		176			178		
Toleranz Tolerance	UNEF 2B							
Toleranz Tolerance	UNS 2B							
Toleranz Tolerance	UN 2B							
		N410-3	N420-4	N420V-4	N420TN-4	N460-3	N460V-3	N460TN-3
DIN lang DIN long	DIN 374/~DIN 376	177 / 199	177	177	177	179 / 199	179 / 199	179
ISO kurz ISO short	ISO 529							
Toleranz Tolerance	UNF 2B	177	177	177	177	179	179	179
Toleranz Tolerance	UNF(J) 3B		177			179		
Toleranz Tolerance	UNEF 2B							
Toleranz Tolerance	UNS 2B	199				199	199	
Toleranz Tolerance	UN 2B					199	199	



















UNF, UNEF

Inhaltsverzeichnis — Maschinen- und Handgewindebohrer ASME B1.1 Directory — Machine and hand taps ASME B1.1

N		Z				H		
		 V	 VS	 R40 V	 R45 VS		 TiCN	 R25
			 NEW				 NEW	
								
N1110 -1 -3 -S	N1120-4	Z320V-4	Z320VS-4	Z360V-3	Z370VS-3	H320-4	H320TC-4	H350-3
196 / 198	198	180	180	181	182	184	184	185
196		180	180	181	182	184	184	185
198	198				182			
N1210 -1 -3 -S	N1220-4	Z420V-4	Z420VS-4	Z460V-3	Z470VS-3	H420-4	H420TC-4	H450-3
197 / 198	198	180	180	181	182	184	184	185
197		180	180	181	182	184	184	185
198	198							

UNF, UNF(), UNEF,
UN, UNS

		H	S		SA		TL	
Merkmale Characteristics		 R25 TTCN	 VS	 R35 VS		 R15	 R10 VS	
		 NEW						
Lochart Hole type								
		H350TC-3	S320VS-4	S360VS-3	SA320-4	SA350-3	SA390-3	TL351VS-3
<i>DIN lang</i> DIN long	DIN 371	185	186	186	188	188	190	188
<i>ISO kurz</i> ISO short	ISO 529							
<i>Toleranz</i> Tolerance	UNF 2B	185			188	188		188
<i>Toleranz</i> Tolerance	UNF(J) 3B		186	186	188	188	190	188
<i>Toleranz</i> Tolerance	UNEF 2B							
<i>Toleranz</i> Tolerance	UNS 2B							
<i>Toleranz</i> Tolerance	UN 2B							
		H450TC-3	S420VS-4	S460VS-3	SA420-4	SA450-3		TL451VS-3
<i>DIN lang</i> DIN long	DIN 374/~DIN 376	185	186	186	189	189		189
<i>ISO kurz</i> ISO short	ISO 529							
<i>Toleranz</i> Tolerance	UNF 2B	185			189	189		
<i>Toleranz</i> Tolerance	UNF(J) 3B		186	186	189	189		189
<i>Toleranz</i> Tolerance	UNEF 2B							
<i>Toleranz</i> Tolerance	UNS 2B							
<i>Toleranz</i> Tolerance	UN 2B							

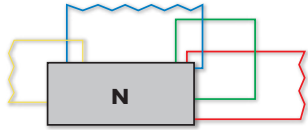
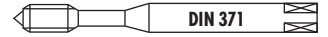
QTAP				RTS	
					
VS	VS	VS	VS	VS	VS
					
NEW	NEW	NEW	NEW		
					
Q320VS-4	Q323VS-4	Q360VS-3	Q363VS-3	RTS320VS-4	RTS362VS-3
192	192	193	193	194	194
192	192	193	193	194	194
Q420VS-4	Q423VS-4	Q460VS-3	Q463VS-3	RTS420VS-4	RTS462VS-3
192	192	193	193	194	194
192	192	193	193	194	194

UNF, UNF(), UNEF,
UN, UNS

UNF ASME B1.1

≤ Ø 2.8 > Ø 2.8

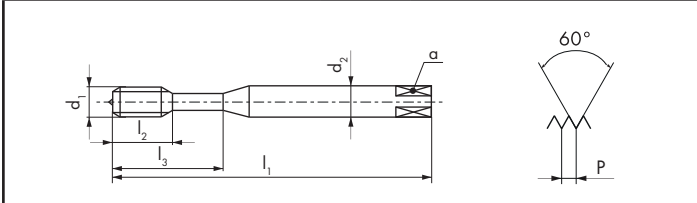
PM HSSE



N310-3		31 62 73 74 91
N320-4		62 63 64 72 73 74 81 91
N320V-4		11 12 31 32
N320TN-4		11 12 13 14 32

N310-3	N320-4	N320V-4	N320TN-4
< 1.5 x D			

NEW



2B	2B	2B	2B

Ø" d ₁ UNF	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ mm	a mm			ID	ID	ID	ID
* 0	80	1.52	40	7		2.5	2.1	2	1.2		● 101475		
* 2	64	2.18	45	9		2.8	2.1	2	1.8		● 101477		
4	48	2.84	56	12	18	3.5	2.7	3	2.35		● 128847		
5	44	3.17	56	12	18	3.5	2.7	3	2.6		● 142764		
6	40	3.5	56	13	20	4	3	3	2.9		● 101519	● 142765	
8	36	4.16	63	14	21	4.5	3.4	3	3.5		● 101520		
10	32	4.82	70	15	25	6	4.9	3	4.05		● 101517	● 142766	● 196014
12	28	5.48	80	17	30	6	4.9	3	4.6		● 101518		
1/4	28	6.35	80	17	30	7	5.5	3	5.5	● 101453	● 101516	● 142767	● 158791

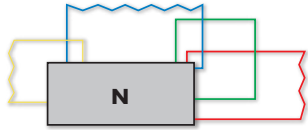
											3B UNF(J)		
--	--	--	--	--	--	--	--	--	--	--	---------------------	--	--

Ø" d ₁ UNF	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ mm	a mm			ID
10	32	4.82	70	15	25	6	4.9	3	4.15	● 135506
1/4	28	6.35	80	17	30	7	5.5	3	5.55	● 155323

* N320-3

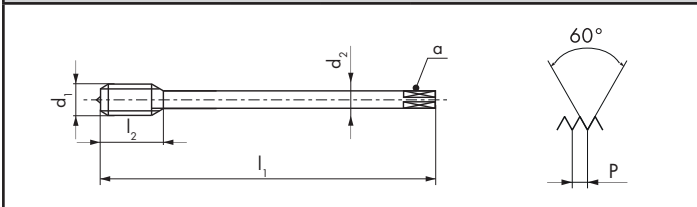
UNF ASME B1.1

HSSE



N410-3		31 62 73 74 91
N420-4		62 63 64 72 73 74 81 91
N420V-4	V	11 12 31 32
N420TN-4	TiN	11 12 13 14 32

N410-3	N420-4	N420V-4	N420TN-4
			NEW
< 1.5 x D			



2B	2B	2B	2B

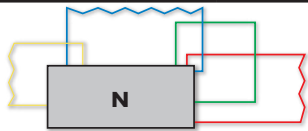
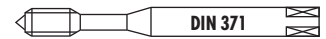
Ø" d ₁ UNF	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	d ₂ mm	a mm			ID	ID	ID	ID
5/16	24	7.93	90	20	6	4.9	3	6.9	● 102004	● 102223	● 142774	● 196015
3/8	24	9.52	100	22	7	5.5	3	8.5	● 102003	● 102222	● 142775	● 196016
7/16	20	11.11	100	19	8	6.2	3	9.8	● 102006	● 102225	● 142776	● 196017
1/2	20	12.7	100	24	9	7	3	11.4	● 102000	● 102219	● 142777	● 196018
9/16	18	14.28	100	24	11	9	3	12.9		● 102227		
5/8	18	15.87	100	26	12	9	3	14.5	● 102005	● 102224	● 142778	● 196019
3/4	16	19.05	125	33	14	11	4	17.5	● 102002	● 102221	● 142779	● 185919
7/8	14	22.22	140	36	18	14.5	4	20.4		● 102226		
1	12	25.4	160	39	18	14.5	4	23.3		● 102220	● 142780	
1 1/8	12	28.57	180	39	22	18	4	26.5		● 142773		
1 1/4	12	31.75	180	39	22	18	4	29.7		● 102218		
1 3/8	12	34.92	200	36	28	22	4	32.8		● 105137		
1 1/2	12	38.1	200	41	32	24	4	36		● 105138		

										3B UNF(J)		
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Ø" d ₁ UNF	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	d ₂ mm	a mm			ID
5/16	24	7.93	90	20	6	4.9	3	7	● 155328
3/8	24	9.52	100	22	7	5.5	3	8.6	● 155326
7/16	20	11.11	100	19	8	6.2	3	10	● 155330
1/2	20	12.7	100	24	9	7	3	11.55	● 155321

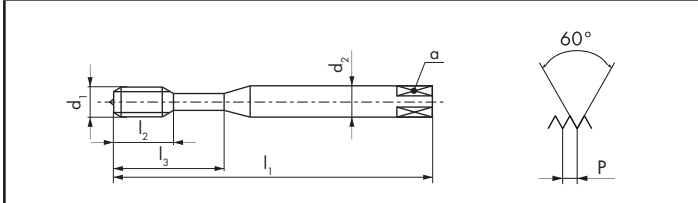
UNF ASME B1.1

HSSE



N360-3		63 72 73 74 81 91
N360V-3		11 12 32
N360TN-3		11 12 13 14 32

N360-3	N360V-3	N360TN-3	
		NEW	



2B	2B	2B

Ø" d ₁ UNF	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ mm	a mm		
6	40	3.5	56	6.5	20	4	3	3	2.9
10	32	4.82	70	9	25	6	4.9	3	4.05
12	28	5.48	80	11	30	6	4.9	3	4.6
1/4	28	6.35	80	11	30	7	5.5	3	5.5
5/16	24	7.93	90	12.5	35	8	6.2	3	6.9
3/8	24	9.52	100	14	39	10	8	3	8.5

ID	ID	ID
● 101686		
● 101682	● 101730	● 196009
● 101683		
● 101681	● 101729	● 146137
● 101685	● 101732	● 196010
● 101684	● 101731	● 196011

3B UNF(J)

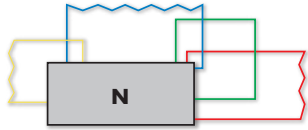
3B UNF(J)

Ø" d ₁ UNF	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ mm	a mm		
10	32	4.82	70	9	25	6	4.9	3	4.15
1/4	28	6.35	80	11	30	7	5.5	3	5.55
5/16	24	7.93	90	12.5	35	8	6.2	3	7
3/8	24	9.52	100	14	39	10	8	3	8.6

ID
● 155325
● 155324
● 155329
● 155327

UNF ASME B1.1

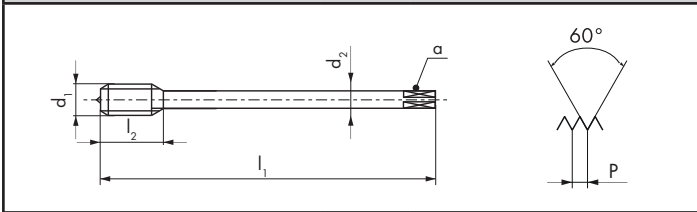
HSSE



N460-3		63 72 73 74 81 91
N460V-3		11 12 32
N460TN-3		11 12 13 14 32



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2B	2B	2B

Ø" d ₁ UNF	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	d ₂ mm	a mm		
7/16	20	11.11	100	14	8	6.2	3	9.8
1/2	20	12.7	100	14	9	7	3	11.4
9/16	18	14.28	100	14	11	9	3	12.9
5/8	18	15.87	100	14	12	9	3	14.5
3/4	16	19.05	125	18	14	11	4	17.5
7/8	14	22.22	140	20	18	14.5	4	20.4
1	12	25.4	160	27	18	14.5	4	23.3
1 1/8	12	28.57	180	24	22	18	4	26.5
1 1/4	12	31.75	180	24	22	18	4	29.7
1 1/2	12	38.1	200	30	32	24	5	36

ID	ID	ID
● 102434	● 142781	● 158885
● 102430	● 102503	● 196012
● 102436	● 143422	
● 102433	● 143097	● 196013
● 102432	● 102505	● 142568
● 102435	● 144714	
● 102431	● 102504	
● 102429	● 144414	
● 102428	● 151709	
● 102427	● 148793	

3B UNF(J)

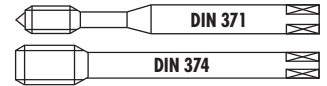
Ø" d ₁ UNF	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	d ₂ mm	a mm		
7/16	20	11.11	100	14	8	6.2	3	10
1/2	20	12.7	100	14	9	7	3	11.55

ID
● 155331
● 155322

UNF, UNF(J)

UNF ASME B1.1

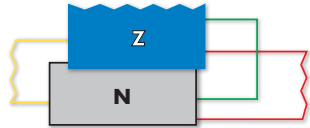
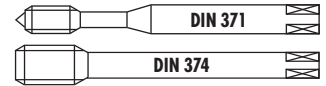
PM



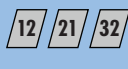




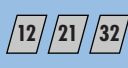
										Z320V-4	Z420V-4	Z320VS-4	Z420VS-4
Z320V-4		V	11	12	13	21	32						
Z420V-4		V	11	12	13	21	32						
Z320VS-4		VS	11	12	13	14	21	22	NEW				
			23	32	61	63	94						
Z420VS-4		VS	11	12	13	14	21	22	NEW				
			23	32	61	63	94						
										2B	2B	2B	2B
Ø" d ₁ UNF	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ mm	a mm			ID	ID	ID	ID
10	32	4.82	70	15	25	6	4.9	3		● 142783		● 128685	
1/4	28	6.35	80	17	30	7	5.5	3		● 142784		● 128596	
5/16	24	7.93	90	20	35	8	6.2	3		● 142785		● 128869	
3/8	24	9.52	100	22	39	10	8	3		● 142786		● 128814	
7/16	20	11.11	100	19		8	6.2	3			● 142787		● 128960
1/2	20	12.7	100	24		9	7	3			● 142788		● 128556
5/8	18	15.87	100	26		12	9	3					● 196031
3/4	16	19.05	125	33		14	11	4					● 196032

UNF ASME B1.1

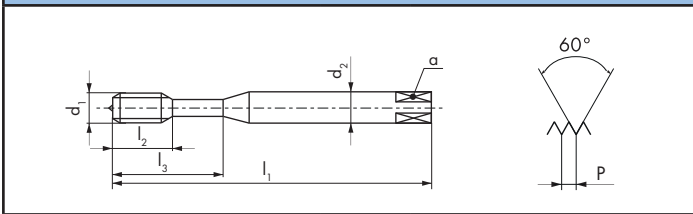
HSSE





Z360V-3   



Z460V-3   

Z360V-3 Z460V-3



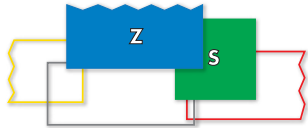
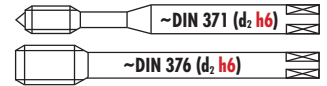
2B **2B**

Ø" d ₁ UNF	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ mm	a mm			ID	ID
10	32	4.82	70	9	25	6	4.9	3	4.05	● 104680	
1/4	28	6.35	80	11	30	7	5.5	3	5.5	● 104679	
5/16	24	7.93	90	12.5	35	8	6.2	3	6.9	● 104682	
3/8	24	9.52	100	14	39	10	8	3	8.5	● 104681	
7/16	20	11.11	100	14		8	6.2	3	9.8		● 104741
1/2	20	12.7	100	14		9	7	3	11.4		● 104738
5/8	18	15.87	100	14		12	9	3	14.5		● 104740
3/4	16	19.05	125	18		14	11	4	17.5		● 104739

UNF, UNF()

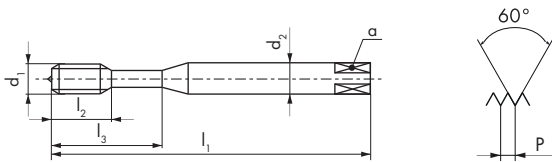
UNF ASME B1.1

PM



Z370VS-3	R45	VS	CLASSIC	14 15 21 22 23 24 51 61 94
Z470VS-3	R45	VS	CLASSIC	
Z370VS-3	R45	VS	SYNCHRO	13 14 15 21 22 23 24 51 52
Z470VS-3	R45	VS	SYNCHRO	

Z370VS-3	Z470VS-3



2BX	2BX

Ø" d ₁ UNF	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ h ₆ mm	a mm		
10	32	4.82	70	9	25	6	4.9	3	4.05
1/4	28	6.35	80	11	30	* 6	* 4.9	3	5.5
5/16	24	7.93	90	12.5	35	8	6.2	3	6.9
3/8	24	9.52	100	14	39	10	8	3	8.5
7/16	20	11.11	100	14		8	6.2	3	9.8
1/2	20	12.7	110	14		* 10	* 8	4	11.4
5/8	18	15.87	110	18		12	9	4	14.5
3/4	16	19.05	125	21		14	11	4	17.5

ID	ID
● 166136	
● 166135	
● 166134	
● 166133	
	● 166138
	● 166137
	● 196029
	● 196030

* Norme DC / * DC Norm/ * Norma DC

3B UNF(J)

Ø" d ₁ UNF	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ h ₆ mm	a mm		
10	32	4.82	70	9	25	6	4.9	3	4.15
1/4	28	6.35	80	11	30	* 6	* 4.9	3	5.55
5/16	24	7.93	90	12.5	35	8	6.2	3	7
3/8	24	9.52	100	14	39	10	8	3	8.6

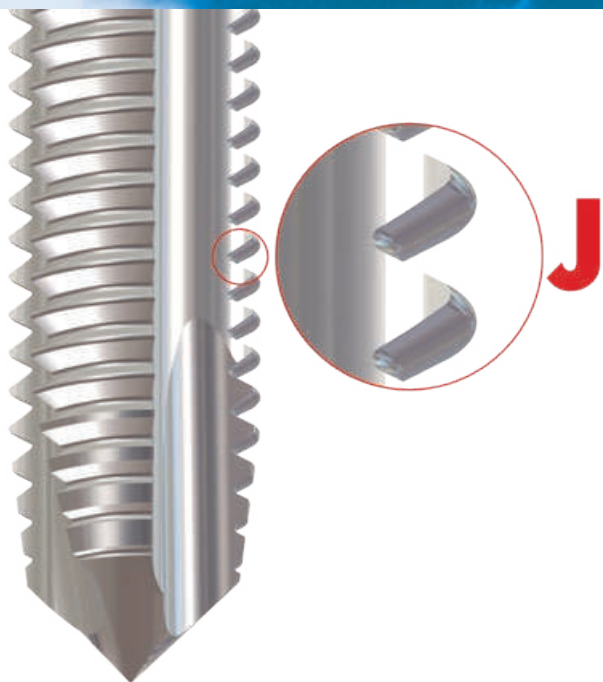
ID
● 165121
● 165122
● 165123
● 165124

* Norme DC / * DC Norm/ * Norma DC

MJ, UNJC, UNJF

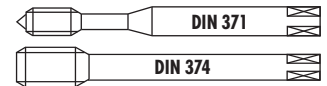
Unsere Maschinen-Gewindebohrer mit Radius auf dem Aussendurchmesser zusammengefasst in einem separaten Kapitel ab Seite 44.









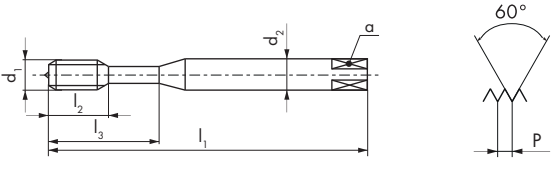










Our machine taps with radius on the outside diameter summarised in a separate chapter from page 44.



UNF ASME B1.1

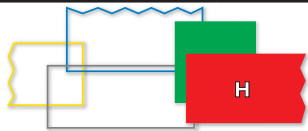
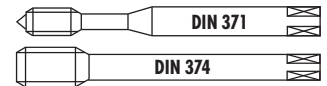
PM



										H320-4	H420-4	H320TC-4	H420TC-4
													
H320-4		15 16 62 64 82											
H420-4		15 16 62 64 82											
H320TC-4	 	15 16 24 31 82 83 92 93											
H420TC-4	 	15 16 24 31 82 83 92 93											
										 	 	 	 
Ø" d ₁ UNF	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ mm	a mm			ID	ID	ID	ID
10	32	4.82	70	15	25	6	4.9	3	4.05	● 101228		● 196060	
1/4	28	6.35	80	17	30	7	5.5	3	5.5	● 101227		● 142613	
5/16	24	7.93	90	20	35	8	6.2	3	6.9	● 105139		● 196061	
3/8	24	9.52	100	22	39	10	8	3	8.5	● 101229		● 196062	
7/16	20	11.11	100	19		8	6.2	3	9.8		● 147253		● 196063
1/2	20	12.7	100	24		9	7	4	11.4		● 101291		● 196064
5/8	18	15.87	100	26		12	9	4	14.5		● 101293		● 196065
3/4	16	19.05	125	33		14	11	4	17.5		● 101292		● 196066

UNF ASME B1.1

PM

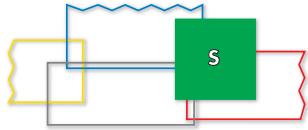
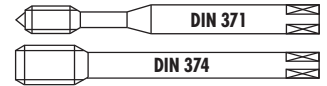


										H350-3	H450-3	H350TC-3	H450TC-3
<p>H350-3 15 16 62 64 82</p> <p>H450-3 15 16 62 64 82</p> <p>H350TC-3 15 16 24 31 82 83 92 93</p> <p>H450TC-3 15 16 24 31 82 83 92 93</p>													
										< 1.5 x D	< 1.5 x D	< 1.5 x D	< 1.5 x D
										2.5 x P	2.5 x P	2.5 x P	2.5 x P
										2B	2B	2B	2B
\emptyset " d ₁ UNF	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ mm	a mm			ID	ID	ID	ID
10	32	4.82	70	9	25	6	4.9	3	4.05	● 101265		● 196055	
1/4	28	6.35	80	11	30	7	5.5	3	5.5	● 101264		● 146714	
5/16	24	7.93	90	12.5	35	8	6.2	3	6.9	● 101267		● 196056	
3/8	24	9.52	100	14	39	10	8	3	8.5	● 101266		● 196057	
7/16	20	11.11	100	14		8	6.2	3	9.8		● 101334		● 196058
1/2	20	12.7	100	14		9	7	4	11.4		● 101331		● 196059
5/8	18	15.87	100	14		12	9	4	14.5		● 101333		● 174297
3/4	16	19.05	125	18		14	11	4	17.5		● 101332		● 158882

UNE, UNF(1)

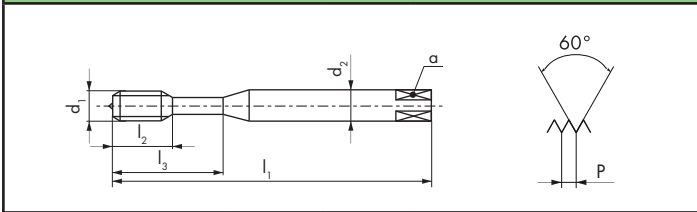
UNF ASME B1.1

PM



S320VS-4		VS	13 15 16 22 23 24 52
S420VS-4		VS	13 15 16 22 23 24 52
S360VS-3		VS	13 15 16 22 23 24 52
S460VS-3		VS	13 15 16 22 23 24 52

S320VS-4	S420VS-4	S360VS-3	S460VS-3



3B UNF(J)	3B UNF(J)		

\emptyset " d ₁ UNF	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ mm	a mm			ID	ID
10	32	4.82	70	15	25	6	4.9	3	4.15	• 111814	
1/4	28	6.35	80	17	30	7	5.5	3	5.55	• 111813	
5/16	24	7.93	90	20	35	8	6.2	3	7	• 111816	
3/8	24	9.52	100	22	39	10	8	3	8.6	• 111818	
7/16	20	11.11	100	22		8	6.2	3	10		• 111837

\emptyset " d ₁ UNF	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ mm	a mm			ID	ID
10	32	4.82	70	9	25	6	4.9	3	4.15		• 111815
1/4	28	6.35	80	11	30	7	5.5	3	5.55		• 111820
5/16	24	7.93	90	12.5	35	8	6.2	3	7		• 111817
3/8	24	9.52	100	14	39	10	8	3	8.6		• 111819
7/16	20	11.11	100	14		8	6.2	3	10		• 111833



S | RESPECTING
THREADING

UNE UNF()



aero

SA320-4



15 16 52 64

SA350-3

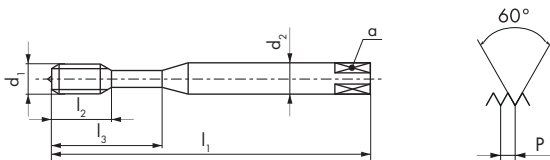


15 16 52 64

TL351VS-3



41 42



SA320-4

SA350-3

TL351VS-3



< 1.5 x D

< 2 x D



< 2 x D



4 x P

2.5 x P

2.5 x P



2B

2B

2B

Ø" d ₁ UNF	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ mm	a mm		
10	32	4.82	70	15		6	4.9	3	4.05
1/4	28	6.35	80	15	23	7	5.5	3	5.5
5/16	24	7.93	90	18	29	8	6.2	3	6.9
3/8	24	9.52	100	20	33	10	8	3	8.5

ID	ID	ID
● 149133	● 149135	● 152047
● 149230	● 149232	● 152066
● 149277	● 149279	● 152072
● 149339	● 149341	● 152083



ID

ID

ID

Ø" d ₁ UNF	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ mm	a mm		
4	48	2.84	56	12		3.5	2.7	3	2.35
10	32	4.82	70	15		6	4.9	3	4.15
1/4	28	6.35	80	15	23	7	5.5	3	5.55
5/16	24	7.93	90	18	29	8	6.2	3	7
3/8	24	9.52	100	20	33	10	8	3	8.6











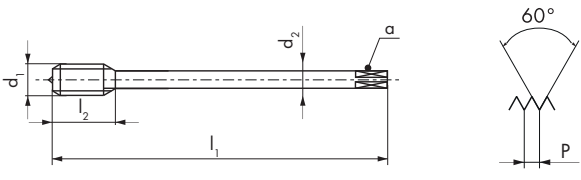







































	● 149015	
● 146098	● 149138	● 148004
● 146404	● 149235	● 148012
● 146393	● 149282	● 148016
● 147165	● 149344	● 148023


UNF ASME B1.1

PM



aero

										SA420-4	SA450-3		TL451VS-3
<p>SA420-4  15 16 52 64</p> <p>SA450-3  15 16 52 64</p>										  			
<p>TL451VS-3   VS 41 42</p>										  			
										  			
										  			
										  			
										  			
										  			
										  			
										  			
										  			
										  			
										  			
										  			
										  			
										  			

* SA420-4 =  3

UNF, UNF(J)

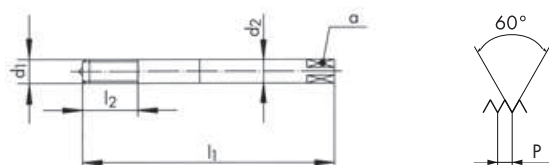
aero

SA390-3



16 53

SA390-3



$\varnothing'' d_1$ UNF	P TPI	d_1 mm	l_1 mm	l_2 mm	d_2 mm	a mm			ID
10	32	4.82	70	15	6	4.9	3	4.15	● 149687
1/4	28	6.35	80	20	7	5.5	3	5.55	● 149715
5/16	24	7.93	90	25	8	6.2	3	7	● 149728
3/8	24	9.52	100	30	10	8	3	8.6	● 149745



UNE, UNF(1)

NEW

DER PERFEKTE "ALLROUNDER"

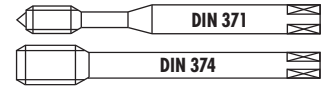
Lieferbar für M-, MF-, UNC-, UNF- und G-Gewinde

THE PERFECT "ALLROUNDER"

Available for M, MF, UNC, UNF and G threads



PM



QTAP

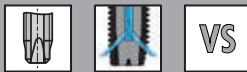
Q320VS-4



Q420VS-4



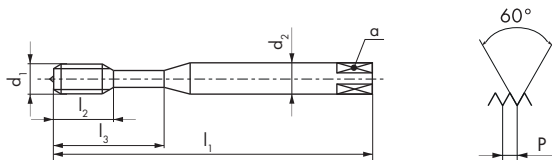
Q323VS-4



Q423VS-4



- 11 12 13 14
- 15 21 22 23
- 24 31 32 51
- 52 61 62 63
- 64 71 72 73
- 74 81 82 83
- 91 92 94



Q320VS-4

Q420VS-4

Q323VS-4

Q423VS-4



NEW



NEW



NEW



NEW



2B

2B

2B

2B

Ø" d ₁ UNF	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ mm	a mm		
10	32	4.82	70	15	25	6	4.9	3	4.05
1/4	28	6.35	80	17	30	7	5.5	3	5.5
5/16	24	7.93	90	20	35	8	6.2	3	6.9
3/8	24	9.52	100	22	39	10	8	3	8.5
7/16	20	11.11	100	19		8	6.2	3	9.8
1/2	20	12.7	100	24		9	7	3	11.4

ID

ID

ID

ID

● 196298

● 197631

1/4 28 6.35 80 17 30 7 5.5 3 5.5

● 196299

● 197632

5/16 24 7.93 90 20 35 8 6.2 3 6.9

● 196300

● 197633

3/8 24 9.52 100 22 39 10 8 3 8.5

● 196301

● 197634

7/16 20 11.11 100 19 8 6.2 3 9.8

● 196302

● 197635

1/2 20 12.7 100 24 9 7 3 11.4

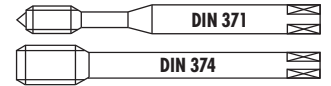
● 196303

● 197636



≤ Ø 16 > Ø 16

PM HSSE



QTAP

Q360VS-3

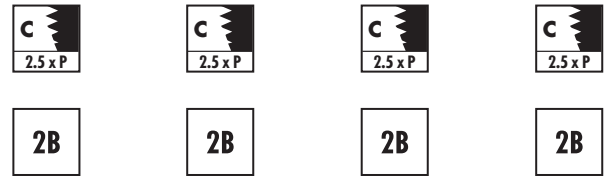
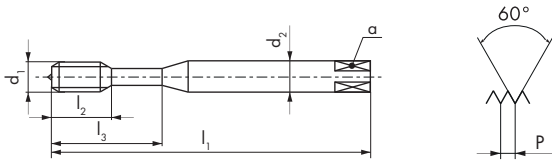
Q460VS-3

Q363VS-3

Q463VS-3

11 12 13 14
15 21 22 23
24 31 32 51
52 61 62 63
64 71 72 73
74 81 82 83
91 92 94

Q360VS-3 **Q460VS-3** **Q363VS-3** **Q463VS-3**

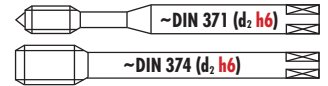


Ø" d ₁ UNF	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ mm	a mm			ID	ID	ID	ID
10	32	4.82	70	9	25	6	4.9	3	4.05	● 196304		● 197637	
1/4	28	6.35	80	11	30	7	5.5	3	5.5	● 196305		● 197638	
5/16	24	7.93	90	12.5	35	8	6.2	3	6.9	● 196306		● 197639	
3/8	24	9.52	100	14	39	10	8	3	8.5	● 196307		● 197640	
7/16	20	11.11	100	14		8	6.2	3	9.8		● 196308		● 197641
1/2	20	12.7	100	14		9	7	3	11.4		● 196309		● 197642
5/8	18	15.87	100	14		12	9	3	14.5		● 196310		● 197643
3/4	16	19.05	125	18		14	11	4	17.5		● 196311		● 197644

UNF, UNF(1)



Uniquement pour taraudage synchrone
Nur für Synchrobearbeitung
Only for rigid tapping
Solo per maschiatura sincrona
Solo para rosado sincronizado
Тільки для рiгiд tapping



RTS

Rigid Tapping Synchro

RTS320VS-4



RTS420VS-4



RTS362VS-3



RTS462VS-3

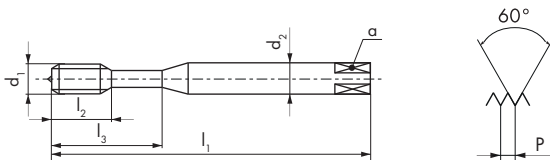


RTS320VS-4

RTS420VS-4

RTS362VS-3

RTS462VS-3



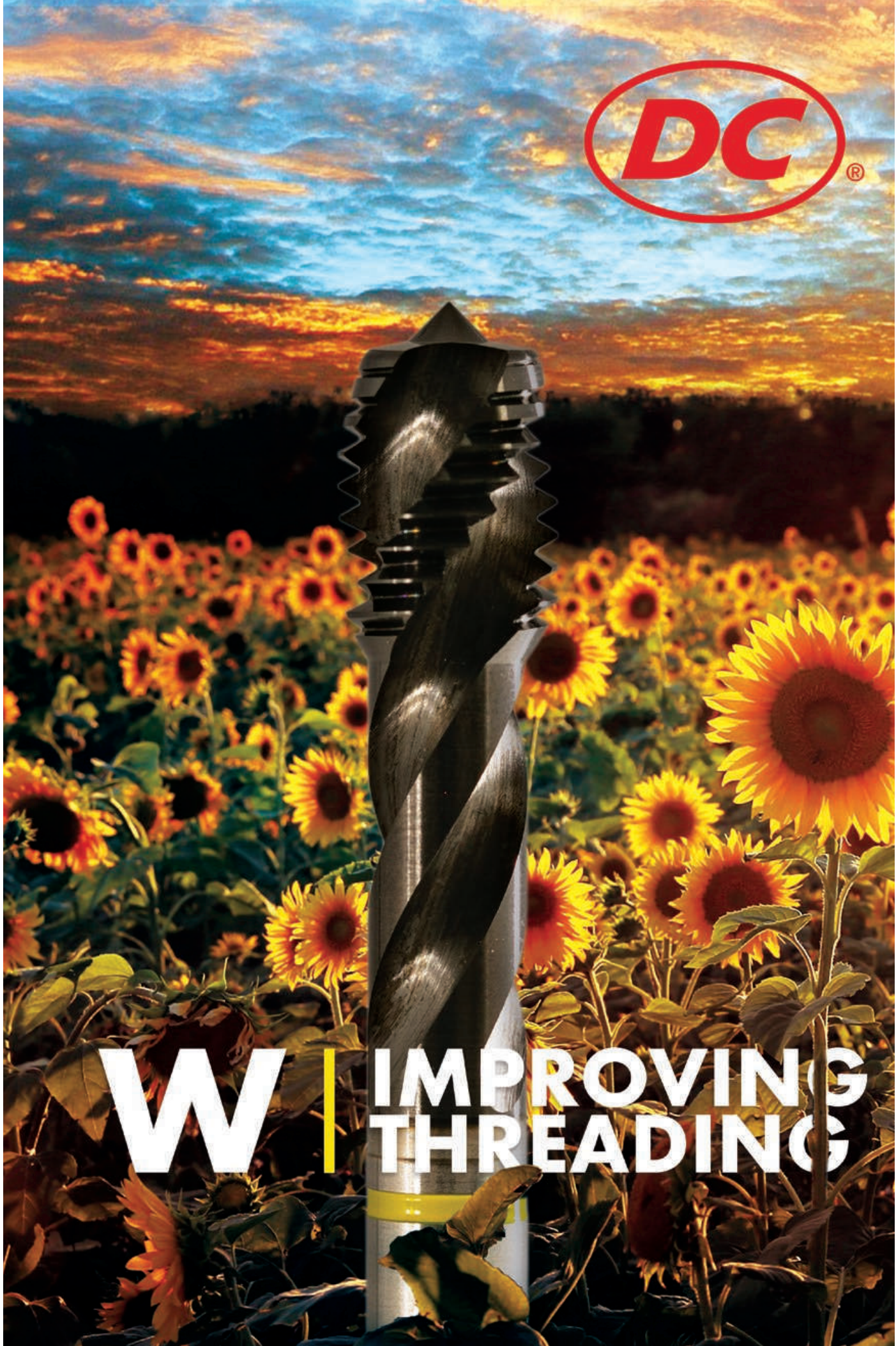
Ø" d ₁ UNF	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ h ₆ mm	a mm		
10	32	4.82	70	9	25	6	4.9	3	4.05
1/4	28	6.35	80	11	30	* 6	* 4.9	3	5.5
5/16	24	7.93	90	12.5	35	8	6.2	3	6.9
3/8	24	9.52	100	14	39	10	8	3	8.5
1/2	20	12.7	110	14		* 10	* 8	3	11.4

ID	ID	ID	ID
● 157409		● 157413	
● 157410		● 157414	
● 157411		● 157415	
● 157412		● 157416	
	● 157417		● 157418

* Norme DC / * DC Norm/ * Norma DC



sur demande
auf Anfrage
on request
su richiesta
sobre pedido
но запычы



W | IMPROVING THREADING

UNE UNF(1)

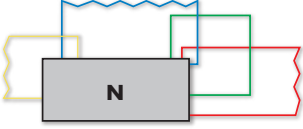






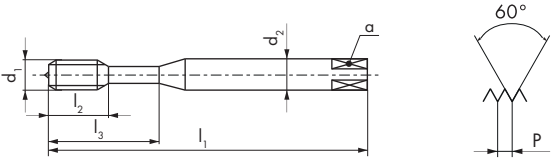









UNF ASME B1.1

≤ Ø 2.8 > Ø 2.8

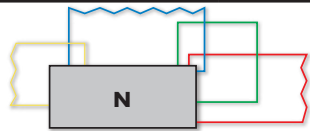
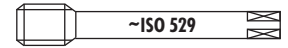
PM HSS



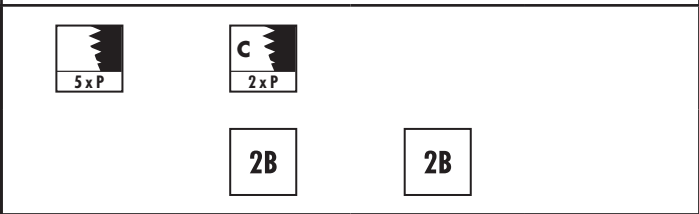
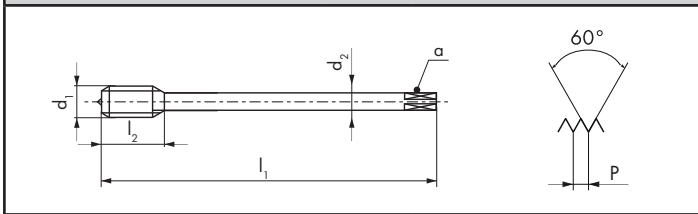
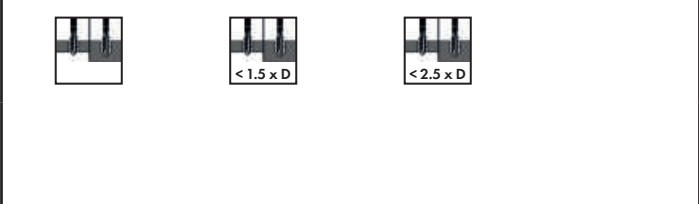
										N1110-1	N1110-3	N1110-S
										N1110-1		
N1110-3			31 62 73 74 91									
N1110-S												
												
												
											2B	2B
Ø" d ₁ UNF	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ mm	a mm			ID	ID	ID
0	80	1.52	40	7		2.5	2.1	3	1.2	● 102811	● 103010	● 111079
1	72	1.85	40	8		2.5	2.1	3	1.5	● 102812	● 103011	● 111080
8	36	4.16	53	13	21	4.5	3.55	3	3.5		★ 103022	
10	32	4.82	58	16	25	5	4	3	4.05	● 102814	● 103013	● 111082
12	28	5.48	62	17	26	5.6	4.5	3	4.6		★ 103014	
1/4	28	6.35	66	19	30	6.3	5	3	5.5	● 102813	● 103012	● 111081
5/16	24	7.93	72	22	35	8	6.3	3	6.9	● 102821	● 103020	● 111089
3/8	24	9.52	80	24	39	10	8	3	8.5	● 102818	● 103017	● 111086

UNF ASME B1.1

HSS



N1210-1			
N1210-3			31/62/73/74/91
N1210-S			

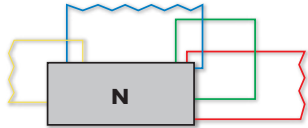
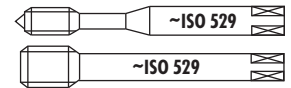


Ø" d ₁ UNF	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	d ₂ mm	a mm			ID	ID	ID
7/16	20	11.11	85	22	8	6.3	3	9.8	● 103411	● 103626	● 111255
1/2	20	12.7	89	24	9	7.1	3	11.4	● 103407	● 103622	● 111251
5/8	18	15.87	102	32	12.5	10	3	14.5	● 103410	● 103625	● 111254
3/4	16	19.05	112	33	14	11.2	4	17.5	● 103409	● 103624	● 111253
7/8	14	22.22	115	32	16	12.5	4	20.4	● 103412	● 103627	● 111256
1	12	25.4	130	45	18	14	4	23.3	● 103408	● 103623	● 111252

UNE, UNF(1)

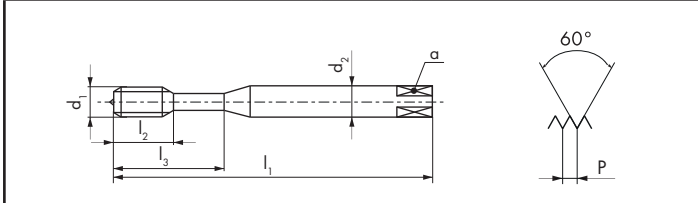
UNEF ASME B1.1

HSS



N1110-3		31 62 73 74 91
N1120-4		62 63 64 72 73 74 81 91
N1210-3		31 62 73 74 91
N1220-4		62 63 64 72 73 74 81 91

N1110-3	N1120-4	N1210-3	N1220-4
 < 1.5 x D		 < 1.5 x D	



2B	2B	2B	2B

Ø" d ₁ UNEF	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	l ₃ mm	d ₂ mm	a mm			ID	ID	ID	ID
12	32	5.48	62	17	26	5.6	4.5	3	4.7	● 103007	● 103118		
1/4	32	6.35	66	19	30	6.3	5	3	5.6	● 103006	● 103117		
5/16	32	7.93	72	22	35	8	6.3	3	7.2	● 103009	● 103120		
3/8	32	9.52	80	24	39	10	8	3	8.75	● 103008	● 103119		
7/16	28	11.11	85	22		8	6.3	3	10.25			● 103615	● 103754
1/2	28	12.7	89	24		9	7.1	3	11.85			● 103609	● 103749
9/16	24	14.28	95	24		11.2	9	3	13.2			● 103617	● 103756
5/8	24	15.87	102	32		12.5	10	3	14.8			● 103614	● 103753
11/16	24	17.46	104	26		14	11.2	4	16.4			● 103611	
3/4	20	19.05	112	33		14	11.2	4	17.8			● 103613	
7/8	20	22.22	115	32		16	12.5	4	21			● 103616	
1	20	25.4	120	30		18	14	4	24.1			● 103610	

UNS, UN ASME B1.1

HSSE



										N410-3	N460-3	N460V-3
<p>N410-3 31 62 73 74 91</p> <p>N460-3 63 72 73 74 81 91</p> <p>N460V-3 11 12 32</p>												
$\emptyset'' d_1$ UNS	P TPI	d_1 mm	l_1 mm	l_2 mm	d_2 mm	a mm			ID	ID	ID	
1/4	36	6.35	80	17	4.5	3.4	3	5.65	● 104899			
1/2	24	12.7	100	24	9	7	3	11.6	● 104900			
1	14	25.4	140	34	18	14.5	4	23.6	● 104898			
1	14	25.4	140	22	18	14.5	4	23.6		● 102437	● 142789	
$\emptyset'' d_1$ UN	P TPI	d_1 mm	l_1 mm	l_2 mm	d_2 mm	a mm			ID	ID		
1 1/8	8	28.57	180	30	22	18	4	25.5	● 102415	● 142790		
1 1/4	8	31.75	180	30	22	18	4	28.7	● 102414	● 142520		
1 3/8	8	34.92	200	36	28	22	5	31.8	● 104896	● 142792		
1 1/2	8	38.1	200	40	32	24	5	35	● 102413	● 142793		
1 3/4	8	44.45	220	44	36	29	5	41.4		● 115198		
2	8	50.8	250	38	40	32	5	47.7		● 111622		

UNEF, UNS, UN