



Threading Tools

Cutting and forming
custom-made

Chip – by Chip – to the Top

Our Threading Tool Range

STOCK threading tools are together with STOCK drills, reamers and milling cutters the most important types of tools in our range of precision cutting tools. The variety of design, together with different thread forms, manufactured in diverse tolerances according to DIN standard or special made, offers a large choice for solving threading problems.

The quality of the drilled hole in respect of correct size, roundness, straightness and surface roughness has an eminent influence on the produced thread. To be on the safe side, it is recommended to use STOCK drills for better results.

Order your free copy of our main catalog or get in touch with us for more information or recommendations.



STOCK- Threading Tools

- Machine Taps
- Thread Forming Taps
- Hand Taps
- Circular Dies

STOCK- Cutting Material

- HSS-E
- HSS-E-PM
- Solid Carbide

STOCK- Thread Standards

- Metric, Metric Fine
- UNC, UNF
- BSW, G
- PG, NPT

STOCK- Standard Types

PRODUKTIV

- Type N, Type W
- Machine taps with straight flutes and spiral point for machine tapping of through holes
- Type H, Type HD
- alike, but made out of HSS-E-PM

INTENSIV

- Type N, Type W
- Machine taps with spiral flutes 15°, 40°, 45° for machine tapping of blind holes
- Type H, Type HD
- alike, but made out of HSS-E-PM

MASSIV

- Type N
- Spiral point taps for machine tapping of through holes in sheet metal, punched or drilled







DURATIV

- Type N
- Cold forming taps, with and without lubrication flutes

STOCK- Solutions

We manufacture special threading tools, like taps, cold forming taps or thread milling cutters, with or without coolant through supply, also for dry machining, minimal lubrication and for threads into hardened material. For best results the tools are bright finish, steam tempered, nitrided or coated with e.g. TiN, TiCN, TiAlN or/and MoS₂ for better lubrication.

STOCK- Coloured band indication

-  General steels up to 800 N/mm²
-  High tens. mat. up to 800-1200 N/mm²
-  Stainless and acid-resisting steel
-  Universal applications
-  Aluminium and Al-alloys
-  Cast materials

Application recommendations for taps



Material examples	for gen. steels ≤ 800 MPa and non-ferrous metals	for gen. steels ≤ 800 MPa, e. g.: structural steels free-cutting steels case hardened steels heat-treatable steels		for gen. steels ≤ 800 MPa, e. g.: structural steels free-cutting steels case hardened steels heat-treatable steels		for gen. steels ≤ 800 MPa and non-ferrous metals	for gen. steels ≤ 800 MPa, e. g.: structural steels free-cutting steels case hardened steels heat-treatable steels	
Hole type								
Tool material	HSS-E							
Type	Massiv N	Produktiv N				Intensiv N		
Form	B	C		B		C		
Surface finish	bright	bright	TiN	bright	TiN	bright	bright	TiN
v_c m/min	≤ 15	≤ 15	≤ 20	≤ 15	≤ 20	≤ 15	≤ 15	≤ 20

Thread type	Dimensions to DIN 2184-1	Tolerance zone	Order no./Ø-range								
			M	DIN 371	ISO 2 6H	73126 M2 - M10	73185 M2 - M10	63185 M4 - M10	73133 M2 - M10	63133 M3 - M10	73221 M2 - M10
		ISO 3 6G				73132 M2 - M10				73145 M3 - M10	
	DIN 376	ISO 2 6H		73191 M3 - M22		73138 M3 - M24	63138 M12 - M20	73227 M3 - M22	73148 M3 - M30	63148 M12 - M20	
MF	DIN 374	ISO 2 6H		73237 M3x0.35 - M24x1.5		73250 M4x0.50 - M24x2	63250 M8x1 - M20x1.5		73173 M3x0.35 - M24x2	63173 M8x1 - M20x1.5	

Designation of the symbols for the hole types

= through hole, short

= through hole 1 x D

= through hole 2 x D

= blind hole 1 x D

= blind hole 2 x D

Application recommendations for taps

Material examples	for high tensile steels $\geq 800 \dots 1000$ MPa, e.g. : heat-treatable steels alloyed cold work tool steels high speed tool steels			for high tensile steels $\geq 800 \dots 1000$ MPa, e.g. : heat-treatable steels alloyed cold work tool steels high speed tool steels			
Hole type							
Tool material	HSS-E	HSS-E-PM		HSS-E		HSS-E-PM	Solid carbide
Type	Produktiv H			Intensiv H			H
Form	B			C			D
Surface finish	nitrided	bright	TiN	bright	TiN	bright	TiCN
v_c m/min	≤ 15	≤ 15	≤ 20	≤ 15	≤ 20	≤ 15	≤ 2


Thread type	Dimensions to DIN 2184-1	Tolerance zone	Order no./Ø-range						
			73642 M2 - M10	73640 M3 - M10	63641 M3 - M10	73661 M3 - M10	63674 M3 - M10	73619 M3 - M10	
M	DIN 371	ISO 2 6H							
	DIN 376	ISO 2 6H	73645 M12 - M20		63643 M12 - M20	73664 M12 - M20	63675 M12 - M20		
	Stock std.	ISO 2 6H							63010 M3 - M12
MF	DIN 374	ISO 2 6H	73646 M3x0.35 - M22x1.5						
UNC	DIN ~ 371	2B							
	DIN ~ 376	2B							
UNF	DIN ~ 374	2B							
G	DIN 5156	-							

<p>for acid- and stainless resistant steels e. g. : sulphured stainless steels austenitic stainless steels martensitic stainless steels ferritic stainless steels</p>			<p>for acid- and stainless resistant steels e. g. : sulphured stainless steels austenitic stainless steels martensitic stainless steels ferritic stainless steels</p>			<p>for universal applications in materials <1000 MPa, e. g. : structural steels, free-cutting steels case hardened steels, heat-treatable steels nitriding steels spheroidal graphite cast iron</p>				
HSS-E		HSS-E-PM	HSS-E		HSS-E-PM	HSS-E				
Produktiv HD			Intensiv HD			Produktiv N		Intensiv N		
B			C			B		C		E
steam temp.	TiN	bright	steam temp.	bright	TiN	steam temp.	TiN	steam temp.	TiN	bright
≤ 15	≤ 20	≤ 15	≤ 15	≤ 15	≤ 20	≤ 15	≤ 20	≤ 15	≤ 20	≤ 15
Order no./Ø-range										
73176 M3 - M10	63176 M3 - M10	73641 M3 - M10	73660 M3 - M10	73662 M3 - M10	63662 M3 - M10	73033 M3 - M10	63033 M3 - M10	73046 M3 - M10	63046 M3 - M10	73047 M4 - M10
73177 M12 - M20	63177 M12 - M16	73643 M12 - M20	73659 M12 - M20	73665 M12 - M22	63665 M12 - M16	73038 M12 - M16		73048 M12 - M20	63048 M12 - M20	
73178 M5x0.5 - M20x1.5			73180 M8x1 - M20x1.5			73183 M6x0.75 - M20x1.5		73187 M6x0.75 - M20x1.5		
73297 No.4-40 - 3/8- 16			73304 No.4-40 - 3/8- 16			73308 No.4-40 - 3/8- 16		73322 No.4-40 - 3/8- 16		
73298 1/2-13 - 1-8			73305 1/2-13 - 3/4-10			73309 1/2-13 - 3/4-10		73323 1/2-13 - 3/4-10		
73299 No.10-32 - 5/8-18			73306 No.10-32 - 5/8-18			73310 No.10-32 - 5/8-18		73324 No.10-32 - 5/8-18		
73300 G1/8 - G1			73288 G1/8 - G1			73321 G1/8 - G1		73325 G1/8 - G1		

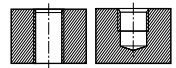
Application recommendations for taps

Material examples			for cast materials, e. g.: grey cast iron malleable cast iron spheroidal graphite cast iron cast iron		for Al and Al-alloys, e. g.: pure aluminium-alloys Al wrought alloys Al-alloys ≤ 10% Si Al-alloys > 10% Si		for Al and Al-alloys non-ferrous metals plastics
Hole type							
Tool material			HSS-E		HSS-E		Solid carbide
Type			G		Produktiv W	Intensiv W	Intensiv N
Form			C		B		C
Surface finish			nitrided		bright		bright
v _c m/min			≤ 20		≤ 15		≤ 15
			Order no./Ø-range				
M	DIN 371	ISO 2 6H			73131 M2 - M10	73156 M2 - M10	73012 M3 - M10
		6HX	73201 M3 - M10	63201 M3 - M10			
	DIN 376	ISO 2 6H			73189 M12 - M16	73136 M12 - M20	
		6HX	73211 M12 - M22				
MF	DIN 374	6HX	73194 M8x1 - M20x1.5				
UNC	DIN ~ 371	2B	73326 No.8-32 - 3/8-16				
	DIN ~ 376	2B	73327 1/2-13 - 1-8				
G	DIN 5156	-	73345 G1/8 - G3/4				

Application recommendations for hand taps, short machine- and special taps



Material examples
for gen. steels ≤ 800 MPa, e. g.:
struct. steels, free-cutting steels
case hard. steels, heat-treat. steels
The sets 73531 and 73532 are
also suitable for high tensile,
acid- and stainless resist. steels

Hole type



Tool material
HSS

Type
N


Form
–

Surface finish
bright

v_c m/min
–



Material examples
for general steels ≤ 800 MPa,
e. g.: structural steels
free-cutting steels
case hard. steels
heat-treat. steels

Hole type


Tool material
HSS-E

Type
N

Form
B C combinat. –

Surface finish
bright bright bright bright

v_c m/min
 ≤ 15 ≤ 15 ≤ 15 ≤ 15

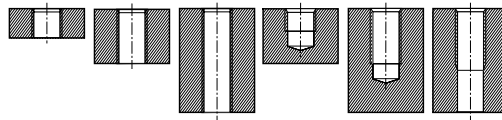
Thread type	Dimensions to DIN 2184-2	Tolerance zone	Order no./Ø-range
M	DIN 352	ISO 2 6H	73531 73532 (set) RH: (set) LH: F 73101 F 73105 S 73102 S 73106 B 73103 B 73107 M1 - M18 M4 - M20
MF	DIN 2181	ISO 2 6H	73521 (set): F 73110 / B 73111 M4x0.35 - M20x1.5
UNC	~DIN 352	2B	73535 (set): F 73301 / S 73302 / B 73303 No.4-40 - 3/4-10
UNF	~DIN 2181	2B	73523 (set): F 73319 / B 73320 1/4-28 - 1-12
BSW	~DIN 352	–	73534 (set): F 73311 / S 73312 / B 73313 W1/8 - W3/4
G	DIN 5157	–	73522 (set): F 73315 / B 73316 G1/8 - G1/2
Pg	DIN 40432	–	

Thread type	Dimensions to DIN 2184-2	Tolerance zone	Order no./Ø-range
M	DIN 357	ISO 2 6H	73243 M3 - M30
	Stock std.	ISO 2 6H	73248 M3 - M12
MF	DIN 2181	ISO 2 6H	
UNC	~DIN 352	2B	
UNF	~DIN 2181	2B	
BSW	~DIN 352	–	
Pg	DIN 40432	–	73296 Pg7 - PG16
NPT		–	73295 1/6 - 1

Application recommendations for cold forming taps



Hole type



Material examples

for general steels $\geq 800 \dots 1000$ MPa,
stainless and acid resistant steels,
universal applications in materials < 1000 MPa and
Al and Al-alloys

Tool material

HSS-E

Solid carbide

Type

Durativ

Form

C without oil grooves

C with oil grooves

Surface finish

bright

TiN

bright

TiN

TiN

v_c m/min

4-50

4-50

4-50

4-50

4-50

Thread type	Dimensions to DIN 2174	Tolerance zone	Order no./Ø-range				
			M	~ DIN 371	6HX	73121 M2 - M10	63121 M2 - M10
		6GX	73700 M2 - M10				
	~ DIN 376	6HX		63123 M12 - M20	73122 M12 - M16	63122 M12 - M16	
MF	~ DIN 374	6HX		63701 M8x1 - M16x1.5		63703 M8x1 - M16x1.5	

Problems - Possible causes - Solutions

1 Thread produced is too large

- incorrect tap, tap geometry not suitable for the application
- tapping hole size too small
- alignment error of tapping hole size or position
- machine spindle axially restricted
- cold welding at the flank of the tap
- lead of tap unsatisfactory due to insufficient thread depth
- cutting speed too high
- lubrication or coolant supply insufficient
- tolerance specification on tap does not correspond to specifications on drawing and/or thread gauge

- apply correct tap for the material to be machined
- observe tapping hole size table. Note different tapping hole size diameters for cold forming taps.
- - check for correct tool clamping
- - apply floating tap holder
- - check drill size dia.
- - use mechanical feed
- - apply tension/compression tap chuck
- - apply new tap
- - apply coated tap
- - optimise lubrication
- - tap with forced feed
- - apply tap with modified lead
- - reduce cutting speed
- - improve lubrication
- ensure sufficient and suitable coolant supply and check concentration
- apply correct tap for required tolerances

2 Thread produced is too small

- tolerance specification on tap does not correspond to specifications on drawing and/or thread gauge
- incorrect tap
- tap does not cut accurately (thread plug gauge)
- machine spindle is axially too rigid

- apply correct tap for required tolerance
- apply correct tap for the material to be machined
- avoid strong axial forces during the cutting process
- apply tension/compression chuck

3 Thread surface not according to requirements

- cutting edge geometry not suitable for the application
- cutting speed too high
- insufficient coolant (concentration and supply)
- chip jam
- tapping hole size too small
- built-up edge
- cold welding

- apply "correct" tap for the material to be machined
- - reduce cutting speed
- - optimise lubrication
- ensure suitable coolant and sufficient volume
- apply suitable tap type
- observe tapping hole size dia. specifications to DIN 336 or respective standards. Observe table for cold forming taps
- apply coated tap
- improve coolant supply

4 Tool life insufficient

- surface hardening of tapping hole size
- reasons listed under: "thread surface not according to requirements"
- chip jam

- - check drill (cutting edge) for wear
- - heat or surface treatment following thread production
- solutions listed under: "thread surface not according to requirements"
- apply correct tap

5 Tool breakage during advance or return

- tapping hole size too small
- teeth of chamfer lead overloaded
- tap hits bottom of tapping hole size
- positional or angle error of tapping hole size
- cutting edge geometry not suitable for the application

- observe tapping hole size dia. acc. to DIN 336 or respective standards
- - longer chamfer lead (blind or through hole)
- - increase no. of teeth of chamfer lead by increasing no. of flutes
- - apply tap sets
- - check hole depth
- - apply tension/compression tap chuck
- - correct chamfer angle of tapping hole size
- - ensure correct tool clamping
- - check drill size dia.
- apply suitable tap for the individual application

Tapping hole size dia for thread cutting tools

Std. ISO metric threads DIN 336					Std. ISO metric fine threads DIN 336					UNC threads DIN 336 (ISO 5864)							
nom.- Ø	pitch P	tapping hole size Ø	core diameter of int. thread		nom.- x Ø P	tapping hole size Ø	core diameter of int. thread		nom.- x Ø P	tapping hole size Ø	core diameter of int. thread		size	threads	tapping hole size Ø	core diameter of int. thread	
mm	mm	mm	min.	max.	mm	mm	min.	max.	mm	mm	min.	max.	per inch		mm	min.	max.
M 1	0.25	0.75	0.729	-	M 2.5 x 0.35	2.15	2.121	2.221	M 22 x 1.00	21.00	20.917	21.153	No. 1 - 64		1.50	1.425	1.582
M 1.1	0.25	0.85	0.829	-	M 3 x 0.35	2.65	2.621	2.721	M 22 x 1.50	20.50	20.376	20.676	No. 2 - 56		1.85	1.694	1.872
M 1.2	0.25	0.95	0.929	-	M 3.5 x 0.35	3.15	3.121	3.221	M 22 x 2.00	20.00	19.835	20.210	No. 3 - 48		2.10	1.941	2.146
M 1.4	0.30	1.10	1.075	-	M 4.0 x 0.50	3.50	3.459	3.599	M 24 x 1.00	23.00	22.917	23.153	No. 4 - 40		2.35	2.385	2.156
M 1.6	0.35	1.25	1.221	1.321	M 4.5 x 0.50	4.00	3.959	4.099	M 24 x 1.50	22.50	22.376	22.676	No. 5 - 40		2.65	2.697	2.487
M 1.8	0.35	1.45	1.421	1.521	M 5.0 x 0.50	4.50	4.459	4.599	M 24 x 2.00	22.00	21.835	22.210	No. 6 - 32		2.85	2.642	2.896
M 2	0.40	1.60	1.567	1.679	M 5.5 x 0.50	5.00	4.959	5.099	M 25 x 1.00	24.00	23.917	24.153	No. 8 - 32		3.50	3.302	3.531
M 2.2	0.45	1.75	1.713	1.838	M 6.0 x 0.75	5.20	5.188	5.378	M 25 x 1.50	23.50	23.376	23.676	No.10 - 24		3.90	3.683	3.962
M 2.5	0.45	2.05	2.013	2.138	M 7.0 x 0.75	6.20	6.188	6.378	M 25 x 2.00	23.00	23.835	23.210	No.12 - 24		4.50	4.343	4.597
M 3	0.50	2.50	2.459	2.599	M 8.0 x 0.50	7.50	7.459	7.599	M 27 x 1.00	26.00	25.917	26.153	¼ - 20		5.10	4.976	5.268
M 3.5	0.60	2.90	2.850	3.010	M 8.0 x 0.75	7.20	7.188	7.378	M 27 x 1.50	25.50	25.376	25.676	⅜ - 18		6.60	6.411	6.734
M 4	0.70	3.30	3.242	3.422	M 8.0 x 1.00	7.00	6.917	7.153	M 27 x 2.00	25.00	24.835	25.210	½ - 16		8.00	7.805	8.164
M 4.5	0.75	3.70	3.688	3.878	M 9.0 x 0.75	8.20	8.188	8.378	M 28 x 1.00	27.00	26.917	27.153	⅝ - 14		9.40	9.149	9.550
M 5	0.80	4.20	4.134	4.334	M 9.0 x 1.00	8.00	7.917	8.153	M 28 x 1.50	26.50	26.376	26.676	¾ - 13		10.80	10.584	11.013
M 6	1.00	5.00	4.917	5.153	M 10 x 0.75	9.20	9.188	9.378	M 28 x 2.00	26.00	25.853	26.210	1 - 12		12.20	11.996	12.456
M 7	1.00	6.00	5.917	6.153	M 10 x 1.00	9.00	8.917	9.153	M 30 x 1.00	29.00	28.917	29.153	1 ¼ - 11		13.50	13.376	13.868
M 8	1.25	6.80	6.647	6.912	M 10 x 1.25	8.80	8.647	8.912	M 30 x 1.50	28.35	26.376	28.676	1 ½ - 10		16.50	16.299	16.833
M 9	1.25	7.80	7.647	7.912	M 11 x 0.75	10.20	10.188	10.378	M 30 x 2.00	28.00	27.835	28.210	1 ¾ - 9		19.50	19.169	19.748
M 10	1.50	8.50	8.376	8.676	M 11 x 1.00	10.00	9.917	10.153	M 30 x 3.00	27.00	26.752	27.252	2 - 8		22.25	21.963	22.598
M 11	1.50	9.50	9.376	9.676	M 12 x 1.00	11.00	10.917	11.153	M 32 x 1.50	30.50	30.376	30.676	1 ⅝ - 7		25.00	24.648	25.349
M 12	1.75	10.20	10.106	10.441	M 12 x 1.25	10.80	10.647	10.912	M 32 x 2.00	30.00	29.835	30.210	1 ¾ - 7		28.00	27.823	28.524
M 14	2.00	12.00	11.835	12.210	M 12 x 1.50	10.50	10.376	10.676	M 33 x 1.50	31.50	31.376	31.676	1 ⅞ - 6		30.75	30.343	31.120
M 16	2.00	14.00	13.835	14.210	M 14 x 1.00	13.00	12.917	13.153	M 33 x 2.00	31.00	30.835	31.210	1 ½ - 6		34.00	33.518	34.295
M 18	2.50	15.50	15.294	15.744	M 14 x 1.25	12.80	12.647	12.912	M 33 x 3.00	30.00	29.752	30.252	1 ¾ - 5		39.50	38.951	39.814
M 20	2.50	17.50	17.294	17.744	M 14 x 1.50	12.50	12.376	12.676	M 35 x 1.50	33.50	33.376	33.676	2 - 4.5		45.00	44.689	45.598
M 22	2.50	19.50	19.294	19.744	M 15 x 1.00	14.00	13.917	14.153	M 36 x 1.50	34.50	34.376	34.676					
M 24	3.00	21.00	20.752	21.252	M 15 x 1.50	13.50	13.376	13.676									
M 27	3.00	24.00	23.752	24.252	M 16 x 1.00	15.00	14.197	15.153									
M 30	3.50	26.50	26.211	26.771	M 16 x 1.25	14.75	14.647	14.912									
M 33	3.50	29.50	29.211	29.771	M 16 x 1.50	14.50	14.376	14.676									
M 36	4.00	32.00	31.670	32.270	M 17 x 1.00	16.00	15.917	16.153									
M 39	4.00	35.00	34.670	35.270	M 17 x 1.50	15.50	15.376	15.676									
M 42	4.50	37.50	37.129	37.799	M 18 x 1.00	17.00	16.917	17.153									
M 45	4.50	40.50	40.129	40.799	M 18 x 1.50	16.50	16.376	16.676									
M 48	5.00	43.00	42.587	43.297	M 18 x 2.00	16.00	15.835	16.210									
M 52	5.00	47.00	46.587	47.287	M 20 x 1.00	19.00	18.917	19.153									
M 56	5.50	50.50	50.046	50.796	M 20 x 1.50	18.50	18.376	18.676									
					M 20 x 2.00	18.00	17.835	18.210									

Tapping hole size diameter tolerance zone for thread forming (to DIN 13, section 50) *

Due to the tensile strength it is not necessary to adhere to the tapping hole size diameter tolerance class 6H; tolerance class 7H satisfies the requirement that the flank coverage of external and internal threads should not fall below 0.32 x P.

In addition, formed threads generally possess a higher tensile strength in comparison to cut threads thanks to an uninterrupted grain flow and subsequent work hardening.

Recommended hole size dia* for cold forming taps

Std. ISO metric threads								Std. ISO metric fine threads							
nom.- Ø	pitch P	tapping hole size Ø	core-Ø 7H of int. thread		nom.- Ø	pitch P	tapping hole size Ø	core-Ø 7H of int. thread		nom.- Ø	pitch P	tapping hole size Ø	core-Ø 7H of int. thread		
mm	mm	mm	min	max	mm	mm	mm	min	max	mm	mm	mm	min	max	
M 1	0.25	0.88	-	-	M 5.0	0.80	4.65	4.134	4.384	M 5	x 0.50	4.75	4.459	4.639	
M 1.1	0.25	0.98	-	-	M 6.0	1.00	5.55	4.917	5.217	M 5.5x	0.50	5.25	4.959	5.139	
M 1.2	0.25	1.08	-	-	M 7.0	1.00	6.55	5.917	6.217	M 6	x 0.75	5.65	5.188	5.424	
M 1.4	0.30	1.25	-	-	M 8.0	1.25	7.40	6.647	6.982	M 7	x 0.75	6.65	6.188	6.424	
M 1.6	0.35	1.45	-	-	M 9.0	1.25	8.40	7.647	7.982	M 8	x 0.75	7.65	7.188	7.424	
M 1.7	0.35	1.55	-	-	M 10	1.50	9.25	8.376	8.751	M 8	x 1.00	7.55	6.917	7.217	
M 1.8	0.35	1.65	-	-	M 11	1.50	10.25	9.376	9.751	M 9	x 0.75	8.65	8.188	8.424	
M 2.0	0.40	1.80	-	-	M 12	1.75	11.20	10.106	10.531	M 9	x 1.00	8.55	7.917	8.217	
M 2.2	0.45	2.00	-	-	M 14	2.00	13.10	11.835	12.310	M 10	x 0.75	9.65	9.188	9.424	
M 2.3	0.40	2.10	-	-	M 16	2.00	15.10	13.835	14.310	M 10	x 1.00	9.55	8.917	9.217	
M 2.5	0.45	2.30	-	-	M 18	2.50	16.90	15.294	15.854	M 10	x 1.25	9.40	8.647	8.982	
M 2.6	0.45	2.40	-	-	M 20	2.50	18.90	17.294	17.854	M 11	x 0.75	10.65	10.188	10.424	
M 3.0	0.50	2.80	2.459	2.639						M 11	x 1.00	10.55	9.917	10.217	
M 3.5	0.60	3.25	2.850	3.050						M 12	x 1.00	11.55	10.917	11.217	
M 4.0	0.70	3.70	3.242	3.466						M 12	x 1.25	11.40	10.647	10.982	
M 4.5	0.75	4.15	3.688	3.924						M 12	x 1.50	11.30	10.376	10.751	
										M 14	x 1.00	13.55	12.917	13.217	
										M 14	x 1.25	13.40	12.647	12.982	
										M 14	x 1.50	13.30	12.376	12.751	
										M 15	x 1.00	14.55	13.917	14.217	
										M 15	x 1.50	14.30	13.376	13.751	
										M 16	x 1.00	15.55	14.917	15.217	
										M 16	x 1.50	15.30	14.376	14.751	
										M 17	x 1.00	16.55	15.917	16.217	
										M 17	x 1.50	16.30	15.376	15.751	
										M 18	x 1.00	17.55	16.917	17.217	
										M 18	x 1.50	17.30	16.376	16.751	
										M 18	x 2.00	17.10	15.835	16.310	
										M 20	x 1.00	19.55	18.917	19.217	
										M 22	x 1.50	21.30	20.376	20.751	
										M 24	x 1.50	23.30	22.376	22.751	

UNF threads DIN 336 (ISO 5864)					BSW-(Whitworth) threads					(Whitworth-) BSP threads (to DIN-ISO 228) DIN 336					Steel armoured conduit threads to DIN 40430				
size	threads per inch	tapping hole size Ø mm	core diameter of int. thread min. mm max. mm		nom.- Ø	threads per inch	tapping hole size Ø mm	core diameter of int. thread min. mm max. mm		size	threads per inch	tapping hole size Ø mm	core diameter of int. thread min. mm max. mm		size	threads per inch	tapping hole size Ø mm	core diameter of int. thread min. mm max. mm	
No. 1- 72		1.55	1.473	1.613	W 1/16	40	2.50	-	-	G 1/16	28	6.80	6.561	6.843	Pg 7	20	11.40	11.280	11.430
No. 2- 64		1.90	1.755	1.913	W 5/32	32	3.20	-	-	G 1/8	28	8.80	8.566	8.848	Pg 9	18	14.00	13.860	14.010
No. 3- 56		2.15	2.024	2.197	W 3/16	24	3.60	-	-	G 1/4	19	11.80	11.445	11.890	Pg 11	18	17.30	17.260	17.410
No. 4- 48		2.40	2.271	2.459	W 1/4	20	5.10	4.744	5.224	G 3/8	19	15.25	15.395	14.950	Pg 13.5	18	19.00	19.060	19.210
No. 5- 44		2.70	2.550	2.741	W 5/16	18	6.50	6.151	6.661	G 1/2	14	19.00	18.631	19.172	Pg 16	18	21.30	21.160	21.310
No. 6- 40		2.95	2.819	3.023	W 3/8	16	7.90	7.512	8.052	G 5/8	14	21.00	20.587	21.128	Pg 21	16	26.90	26.780	27.030
No. 8- 36		3.50	3.404	3.607	W 7/16	14	9.20	8.809	9.379	G 3/4	14	24.50	24.117	24.658	Pg 29	16	35.50	35.480	35.730
No. 10- 32		4.10	3.962	4.166	W 1/2	12	10.50	10.015	10.610	G 1	14	28.25	27.877	28.418	Pg 36	16	45.50	45.480	45.730
No. 12- 28		4.70	4.496	4.724	W 5/8	11	13.50	12.948	13.598	G 1 1/8	11	30.75	30.291	30.931	Pg 42	16	52.50	52.480	52.730
1/4 - 28		5.50	5.367	5.580	W 3/4	10	16.25	15.831	16.538	G 1 1/4	11	35.50	34.939	35.579	Pg 48	16	57.80	57.780	58.030
15/16 - 24		6.90	6.792	7.038	W 7/8	9	19.25	18.647	19.411	G 1 1/2	11	39.50	38.952	39.592					
3/8 - 24		8.50	8.379	8.626	W 1	8	22.00	21.375	22.185	G 2	11	45.25	44.845	45.485					
7/16 - 20		9.90	9.739	10.030	W 1 1/8	7	24.50	23.976	24.879										
1/2 - 20		11.50	11.326	11.618	W 1 1/4	7	27.75	27.151	28.054										
5/8 - 18		12.90	12.761	13.084	W 1 3/8	6	30.50	29.558	30.555										
3/4 - 18		14.50	14.348	14.671	W 1 1/2	6	33.50	32.733	33.730										
7/8 - 16		17.50	17.330	17.689	W 1 5/8	5	35.50	34.834	35.921										
1 - 14		20.40	20.262	20.663	W 1 3/4	5	39.00	38.009	39.096										
1 - 12		23.25	23.109	23.569	W 2	4.5	44.50	43.643	44.823										
1 1/8 - 12		26.50	26.284	26.744															
1 1/4 - 12		29.50	29.459	29.919															
1 3/4 - 12		32.75	32.634	33.094															
1 1/2 - 12		36.00	35.809	36.269															

NPT American tapered pipe thread 1:16				
size	threads per inch	Ø tapp. hole size conical	cutting depth ET mm	drill. depth BT (min) mm
1/16 - 27		6.39	9.29	10.7
1/8 - 27		8.74	9.32	10.8
1/4 - 18		11.36	13.52	15.6
3/8 - 18		14.80	13.83	16.0
1/2 - 14		18.32	18.07	20.8
3/4 - 14		23.67	18.55	21.3
1 - 11.5		29.69	22.29	25.6
1 1/4 - 11.5		38.45	22.80	26.1
1 1/2 - 11.5		44.52	22.80	26.1
2 - 11.5		56.56	23.20	26.5
2 1/2 - 8		67.62	31.57	36.3
3 - 8		83.52	33.74	38.5

UNC threads			UNF threads			BSW-(Whitworth) threads			(Whitworth-) BSP threads (to DIN-ISO 228) DIN 336		
size	UNC- size threads per inch	tapping hole size Ø mm	size	UNF- size threads per inch	tapping hole size Ø mm	nom.- Ø	threads per inch	tapping hole size Ø mm	size	threads per inch	tapping hole size Ø mm
No. 5 - 40		2.90	No. 4 - 48		2.60	W 1/4	20	5.65	G 1/16	28	7.30
No. 6 - 32		3.15	No. 5 - 44		2.90	W 5/16	18	7.15	G 1/8	28	9.20
No. 8 - 32		3.80	No. 6 - 40		3.20	W 3/8	16	8.65	G 1/4	19	12.40
No. 10 - 24		4.35	No. 8 - 36		3.85	W 7/16	14	10.10	G 3/8	19	15.90
No. 12 - 24		5.00	No. 10 - 32		4.45	W 1/2	12	11.50	G 1/2	14	19.90
1/4 - 20		5.75	No. 12 - 28		5.10	W 5/8	11	14.55	G 5/8	14	21.90
5/16 - 18		7.30	1/4 - 28		5.95	W 3/4	10	17.60	G 1	14	25.40
3/8 - 16		8.80	5/16 - 24		7.45	W 7/8	9	19.25	G 1 1/8	11	32.00
7/16 - 14		10.30	3/8 - 24		9.00				G 1 1/4	11	40.70
1/2 - 13		11.80	7/16 - 20		10.50						
5/8 - 12		13.30	1/2 - 20		12.10						
3/4 - 11		14.80	5/8 - 18		13.65						
1 - 10		17.90	3/4 - 16		15.25						
1 1/8 - 9		20.95	1 - 14		18.30						
1 1/4 - 8		24.00	1 - 12		24.45						



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