

## HT

### Straight Fluted Taps

#### Specification



#### Recommended Tapping Speeds depending on Materials

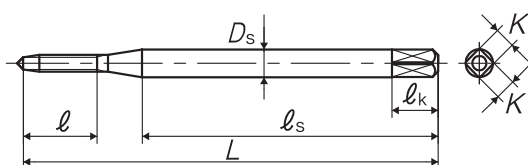
Carbon steel and low alloy steel  
ISO P2  
**5~10**  
(m/min)

For icon explanation, refer to P.50



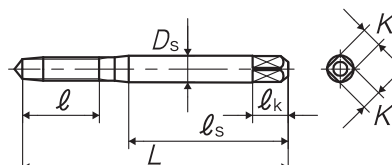
**TYPE:1**

**DIN371**



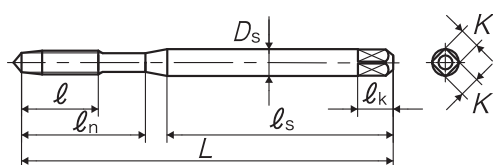
**TYPE:2**

**DIN352 / DIN351**



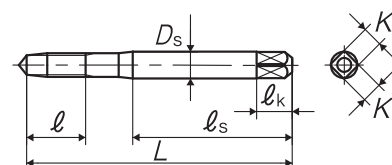
**TYPE:3**

**DIN371**



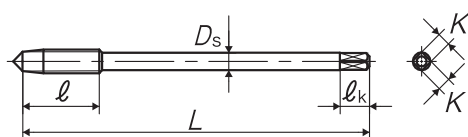
**TYPE:4**

**DIN2181**



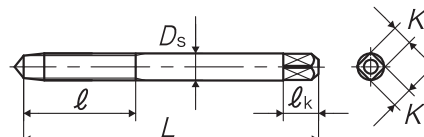
**TYPE:5**

**DIN376**



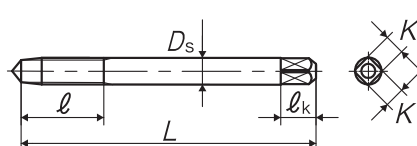
**TYPE:6**

**DIN352 / DIN351**



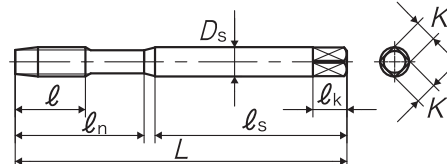
**TYPE:7**

**DIN2181**



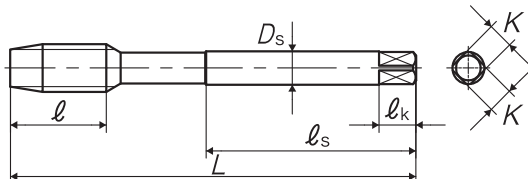
**TYPE:8**

**DIN371**



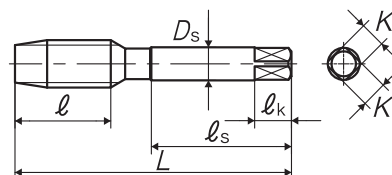
**TYPE:9**

**DIN376**



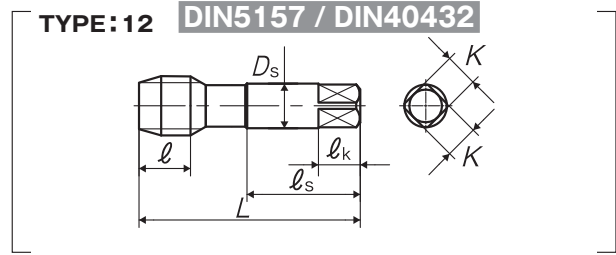
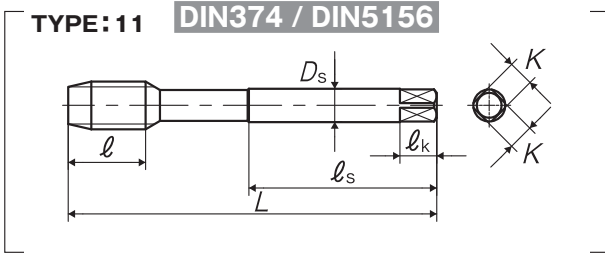
**TYPE:10**

**DIN352 / DIN2181 / DIN351**



Spiral Fluted Taps (for blind hole)  
 Spiral Fluted Taps (for through hole)  
 Spiral Pointed Taps (for through hole)  
**Hand Taps**  
 Cemented Carbide Taps  
 Roll Taps  
 Special Thread Taps (Simple inspection tools)  
 Pipe Taps  
 Thread Mills  
 Dies  
 Center Drills  
 Centering Tools

Overall length	Thread length	Thread+Neck length	Shank length	Shank dia.	Size of square	Length of square
L	ℓ	ℓn	ℓs	Ds	K	ℓk



Segment : 1B

Size	Class	Code	Chamfer	L (mm)	ℓ (mm)	ℓn (mm)	ℓs (mm)	Ds (mm)	K (mm)	ℓk (mm)	No. of flutes	Type	Stock
For Metric Threads													
<b>M2 × 0.4</b>	ISO2	TD2.0EANEBC	2.5P	45	8	-	32	2.8	2.1	5	3	1	
		TQ2.0EANEBC	F	36	8	-	21	2.8	2.1	5	3	2	●
		TQ2.0EANEBCU	M	36	8	-	21	2.8	2.1	5	3	2	●
		TQ2.0EANEBC5	V	36	8	-	21	2.8	2.1	5	3	2	●
<b>M2.2 × 0.45</b>	ISO2	TQ2.2FANEBC	F	36	9	-	21	2.8	2.1	5	3	2	
		TQ2.2FANEBCU	M	36	9	-	21	2.8	2.1	5	3	2	
		TQ2.2FANEBC5	V	36	9	-	21	2.8	2.1	5	3	2	
<b>M2.3 × 0.4</b>	ISO2	TQ2.3EANEBC	F	36	9	-	21	2.8	2.1	5	3	2	
		TQ2.3EANEBCU	M	36	9	-	21	2.8	2.1	5	3	2	
		TQ2.3EANEBC5	V	36	9	-	21	2.8	2.1	5	3	2	
<b>M2.5 × 0.45</b>	ISO2	TD2.5FANEBC	2.5P	50	8	15	33	2.8	2.1	5	3	3	
		TQ2.5FANEBC	F	40	9	-	27	2.8	2.1	5	3	2	●
		TQ2.5FANEBCU	M	40	9	-	27	2.8	2.1	5	3	2	●
		TQ2.5FANEBC5	V	40	9	-	27	2.8	2.1	5	3	2	●
<b>M2.6 × 0.45</b>	ISO2	TQ2.6FANEBC	F	40	9	-	27	2.8	2.1	5	3	2	
		TQ2.6FANEBCU	M	40	9	-	27	2.8	2.1	5	3	2	
		TQ2.6FANEBC5	V	40	9	-	27	2.8	2.1	5	3	2	
<b>M3 × 0.5</b>	ISO2	TD3.0GANEBC	2.5P	56	9	18	34	3.5	2.7	6	3	3	
		TQ3.0GANEBC	F	40	11	-	24	3.5	2.7	6	3	2	●
		TQ3.0GANEBCU	M	40	11	-	24	3.5	2.7	6	3	2	●
		TQ3.0GANEBC5	V	40	11	-	24	3.5	2.7	6	3	2	●
<b>M3 × 0.35</b>	ISO2	TR3.0DANEBC	F	40	9	-	24	3.5	2.7	6	3	4	
		TR3.0DANEBC5	V	40	9	-	24	3.5	2.7	6	3	4	
<b>M3.5 × 0.6</b>	ISO2	TQ3.5HANEBC	F	45	13	-	26	4	3	6	3	2	
		TQ3.5HANEBCU	M	45	13	-	26	4	3	6	3	2	
		TQ3.5HANEBC5	V	45	13	-	26	4	3	6	3	2	
<b>M3.5 × 0.35</b>	ISO2	TR3.5DANEBC	F	45	10	-	26	4	3	6	3	4	
		TR3.5DANEBC5	V	45	10	-	26	4	3	6	3	4	
<b>M4 × 0.7</b>	ISO2	TD4.0IANEBC	2.5P	63	13	21	38	4.5	3.4	6	3	3	
		TQ4.0IANEBC	F	45	13	-	27	4.5	3.4	6	3	2	●
		TQ4.0IANEBCU	M	45	13	-	27	4.5	3.4	6	3	2	●
		TQ4.0IANEBC5	V	45	13	-	27	4.5	3.4	6	3	2	●
<b>M4 × 0.5</b>	ISO2	TR4.0GANEBC	F	45	10	-	27	4.5	3.4	6	3	4	
		TR4.0GANEBC5	V	45	10	-	27	4.5	3.4	6	3	4	
<b>M4.5 × 0.75</b>	ISO2	TQ4.5JANEBC	F	50	16	-	24	6	4.9	8	3	2	
		TQ4.5JANEBCU	M	50	16	-	24	6	4.9	8	3	2	
		TQ4.5JANEBC5	V	50	16	-	24	6	4.9	8	3	2	
<b>M5 × 0.8</b>	ISO2	TD5.0KANEBC	2.5P	70	14	25	39	6	4.9	8	3	3	
		TQ5.0KANEBC	F	50	16	-	24	6	4.9	8	3	2	●
		TQ5.0KANEBCU	M	50	16	-	24	6	4.9	8	3	2	●
		TQ5.0KANEBC5	V	50	16	-	24	6	4.9	8	3	2	●

Spiral Fluted Taps  
(for blind hole)

Spiral Fluted Taps  
(for through hole)

Spiral Pointed Taps  
(for through hole)

Hand Taps

Cemented  
Carbide Taps

Roll Taps

Special Thread Taps  
Simple Inspection Tools

Pipe Taps

Thread Mills

Dies

Center Drills

Centering Tools

# Hand Tap Series

## HT Straight Fluted Taps

Size	Class	Code	Chamfer	L (mm)	ℓ (mm)	ℓn (mm)	ℓs (mm)	Ds (mm)	K (mm)	ℓk (mm)	No. of flutes	Type	Stock
<b>M5 × 0.5</b>	IS02	TR5.0GANEB2	F	50	12	-	24	6	4.9	8	3	4	
		TR5.0GANEB5	V	50	12	-	24	6	4.9	8	3	4	
<b>M6 × 1</b>	IS02	TD6.0MANEBC	2.5P	80	15	30	45	6	4.9	8	3	3	
		TD6.0MANEWC	2.5P	80	15	30	45	6	4.9	8	3	3	
		TG6.0MANEBC	2.5P	80	15	-	-	4.5	3.4	6	3	5	
		TQ6.0MANEB2	F	50	19	-	-	6	4.9	8	3	6	●
		TQ6.0MANEBU	M	50	19	-	-	6	4.9	8	3	6	●
		TQ6.0MANEB5	V	50	19	-	-	6	4.9	8	3	6	●
<b>M6 × 0.75</b>	IS02	TR6.0JANEB2	F	50	14	-	-	6	4.9	8	3	7	
		TR6.0JANEB5	V	50	14	-	-	6	4.9	8	3	7	
<b>M6 × 0.5</b>	IS02	TR6.0GANEB2	F	50	14	-	-	6	4.9	8	3	7	
		TR6.0GANEB5	V	50	14	-	-	6	4.9	8	3	7	
<b>M7 × 1</b>	IS02	TD7.0MANEBC	2.5P	80	15	30	45	7	5.5	8	3	8	
		TQ7.0MANEB2	F	50	15	-	26	6	4.9	8	4	10	
		TQ7.0MANEBU	M	50	15	-	26	6	4.9	8	4	10	
		TQ7.0MANEB5	V	50	15	-	26	6	4.9	8	4	10	
<b>M7 × 0.75</b>	IS02	TR7.0JANEB2	F	50	13	-	26	6	4.9	8	4	10	
		TR7.0JANEB5	V	50	13	-	26	6	4.9	8	4	10	
<b>M8 × 1.25</b>	IS02	TD8.0MANEBC	2.5P	90	19	35	47	8	6.2	9	3	8	
		TG8.0MANEBC	2.5P	90	19	-	46	6	4.9	8	3	9	
		TQ8.0MANEB2	F	56	19	-	29	6	4.9	8	4	10	●
		TQ8.0MANEBU	M	56	19	-	29	6	4.9	8	4	10	●
		TQ8.0MANEB5	V	56	19	-	29	6	4.9	8	4	10	●
<b>M8 × 1</b>	IS02	TM8.0MANEBC	2.5P	90	19	-	46	6	4.9	8	3	11	
		TR8.0MANEB2	F	56	19	-	29	6	4.9	8	4	10	
		TR8.0MANEB5	V	56	19	-	29	6	4.9	8	4	10	
<b>M8 × 0.75</b>	IS02	TR8.0JANEB2	F	50	15	-	26	6	4.9	8	4	10	
		TR8.0JANEB5	V	50	15	-	26	6	4.9	8	4	10	
<b>M8 × 0.5</b>	IS02	TR8.0GANEB2	F	50	15	-	26	6	4.9	8	4	10	
		TR8.0GANEB5	V	50	15	-	26	6	4.9	8	4	10	
<b>M9 × 1.25</b>	IS02	TD9.0MANEBC	2.5P	90	19	35	48	9	7	10	3	8	
		TQ9.0MANEB2	F	63	19	-	32	7	5.5	8	4	10	
		TQ9.0MANEBU	M	63	19	-	32	7	5.5	8	4	10	
		TQ9.0MANEB5	V	63	19	-	32	7	5.5	8	4	10	
<b>M9 × 1</b>	IS02	TR9.0MANEB2	F	63	19	-	32	7	5.5	8	4	10	
		TR9.0MANEB5	V	63	19	-	32	7	5.5	8	4	10	
<b>M9 × 0.75</b>	IS02	TR9.0JANEB2	F	56	19	-	29	7	5.5	8	4	10	
		TR9.0JANEB5	V	56	19	-	29	7	5.5	8	4	10	
<b>M10 × 1.5</b>	IS02	TD0100ANEBC	2.5P	100	23	39	52	10	8	11	3	8	
		TG0100ANEBC	2.5P	100	23	-	51	7	5.5	8	3	9	
		TQ0100ANEB2	F	70	23	-	36	7	5.5	8	4	10	●
		TQ0100ANEBU	M	70	23	-	36	7	5.5	8	4	10	●
		TQ0100ANEB5	V	70	23	-	36	7	5.5	8	4	10	●
<b>M10 × 1.25</b>	IS02	TM010MANEBC	2.5P	100	23	-	51	7	5.5	8	3	11	
		TR010MANEB2	F	70	23	-	36	7	5.5	8	4	10	
		TR010MANEB5	V	70	23	-	36	7	5.5	8	4	10	
<b>M10 × 1</b>	IS02	TM010MANEBC	2.5P	90	19	-	46	7	5.5	8	3	11	
		TR010MANEB2	F	63	19	-	32	7	5.5	8	4	10	
		TR010MANEB5	V	63	19	-	32	7	5.5	8	4	10	

Overall length	Thread length	Thread+Neck length	Shank length	Shank dia.	Size of square	Length of square
L	ℓ	ℓn	ℓs	Ds	K	ℓk

## HT Straight Fluted Taps

Size	Class	Code	Chamfer	L (mm)	ℓ (mm)	ℓn (mm)	ℓs (mm)	Ds (mm)	K (mm)	ℓk (mm)	No. of flutes	Type	Stock
<b>M10 × 0.75</b>	IS02	TR010JANEBC	F	63	19	-	32	7	5.5	8	4	10	
		TR010JANEBS	V	63	19	-	32	7	5.5	8	4	10	
<b>M10 × 0.5</b>	IS02	TR010GANEB2	F	63	19	-	32	7	5.5	8	4	10	
		TR010GANEB5	V	63	19	-	32	7	5.5	8	4	10	
<b>M11 × 1.5</b>	IS02	TQ0110ANEB2	F	70	23	-	36	8	6.2	9	4	10	
		TQ0110ANEBU	M	70	23	-	36	8	6.2	9	4	10	
		TQ0110ANEB5	V	70	23	-	36	8	6.2	9	4	10	
<b>M12 × 1.75</b>	IS02	TG012PANEB2	2.5P	110	26	-	56	9	7	10	3	9	
		TQ012PANEB2	F	75	26	-	38	9	7	10	4	10	●
		TQ012PANEBU	M	75	26	-	38	9	7	10	4	10	●
		TQ012PANEB5	V	75	26	-	38	9	7	10	4	10	●
<b>M12 × 1.5</b>	IS02	TM0120ANEB2	2.5P	100	21	-	51	9	7	10	3	11	
		TR0120ANEB2	F	70	21	-	36	9	7	10	4	10	
		TR0120ANEB5	V	70	21	-	36	9	7	10	4	10	
<b>M12 × 1.25</b>	IS02	TM012NANEB2	2.5P	100	21	-	51	9	7	10	3	11	
		TR012NANEB2	F	70	21	-	36	9	7	10	4	10	
		TR012NANEB5	V	70	21	-	36	9	7	10	4	10	
<b>M12 × 1</b>	IS02	TM012MANEB2	2.5P	100	21	-	51	9	7	10	3	11	
		TR012MANEB2	F	70	21	-	36	9	7	10	4	10	
		TR012MANEB5	V	70	21	-	36	9	7	10	4	10	
<b>M14 × 2</b>	IS02	TG014QANEB2	2.5P	110	26	-	56	11	9	12	3	9	
		TQ014QANEB2	F	80	26	-	41	11	9	12	4	10	●
		TQ014QANEBU	M	80	26	-	41	11	9	12	4	10	●
		TQ014QANEB5	V	80	26	-	41	11	9	12	4	10	●
<b>M14 × 1.5</b>	IS02	TM0140ANEB2	2.5P	100	21	-	51	11	9	12	3	11	
		TR0140ANEB2	F	70	21	-	36	11	9	12	4	10	
		TR0140ANEB5	V	70	21	-	36	11	9	12	4	10	
<b>M14 × 1.25</b>	IS02	TR014NANEB2	F	70	21	-	36	11	9	12	4	10	
		TR014NANEB5	V	70	21	-	36	11	9	12	4	10	
<b>M14 × 1</b>	IS02	TM014MANEB2	2.5P	100	21	-	51	11	9	12	3	11	
		TR014MANEB2	F	70	21	-	36	11	9	12	4	10	
		TR014MANEB5	V	70	21	-	36	11	9	12	4	10	
<b>M16 × 2</b>	IS02	TG016QANEB2	2.5P	110	26	-	56	12	9	12	3	9	
		TQ016QANEB2	F	80	26	-	41	12	9	12	4	10	●
		TQ016QANEBU	M	80	26	-	41	12	9	12	4	10	●
		TQ016QANEB5	V	80	26	-	41	12	9	12	4	10	●
<b>M16 × 1.5</b>	IS02	TM0160ANEB2	2.5P	100	21	-	51	12	9	12	3	11	
		TR0160ANEB2	F	70	21	-	36	12	9	12	4	10	
		TR0160ANEB5	V	70	21	-	36	12	9	12	4	10	
<b>M16 × 1</b>	IS02	TM016MANEB2	2.5P	100	21	-	51	12	9	12	3	11	
		TR016MANEB2	F	70	21	-	36	12	9	12	4	10	
		TR016MANEB5	V	70	21	-	36	12	9	12	4	10	
<b>M18 × 2.5</b>	IS02	TQ018RANEB2	F	95	33	-	48	14	11	14	4	10	●
		TQ018RANEBU	M	95	33	-	48	14	11	14	4	10	●
		TQ018RANEB5	V	95	33	-	48	14	11	14	4	10	●
<b>M18 × 2</b>	IS02	TM018QANEB2	2.5P	125	33	-	64	14	11	14	3	11	
		TR018QANEB2	F	80	21	-	41	14	11	14	4	10	
		TR018QANEB5	V	80	21	-	41	14	11	14	4	10	

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# Hand Tap Series

## HT Straight Fluted Taps

Size	Class	Code	Chamfer	L (mm)	ℓ (mm)	ℓ <sub>n</sub> (mm)	ℓ <sub>s</sub> (mm)	D <sub>s</sub> (mm)	K (mm)	ℓ <sub>k</sub> (mm)	No. of flutes	Type	Stock
<b>M18 × 1.5</b>	IS02	TM0180ANEBC	2.5P	110	24	-	56	14	11	14	3	11	
		TR0180ANEBC	F	80	21	-	41	14	11	14	4	10	
		TR0180ANEBC	V	80	21	-	41	14	11	14	4	10	
<b>M18 × 1</b>	IS02	TM018MANEBC	2.5P	110	24	-	56	14	11	14	3	11	
		TR018MANEBC	F	80	21	-	41	14	11	14	4	10	
		TR018MANEBC	V	80	21	-	41	14	11	14	4	10	
<b>M20 × 2.5</b>	IS02	TQ020RANEBC	F	95	33	-	48	16	12	15	4	10	●
		TQ020RANEBC	M	95	33	-	48	16	12	15	4	10	●
		TQ020RANEBC	V	95	33	-	48	16	12	15	4	10	●
<b>M20 × 2</b>	IS02	TM020QANEBC	2.5P	140	33	-	71	16	12	15	3	11	
		TR020QANEBC	F	80	21	-	41	16	12	15	4	10	
		TR020QANEBC	V	80	21	-	41	16	12	15	4	10	
<b>M20 × 1.5</b>	IS02	TM0200ANEBC	2.5P	125	24	-	64	16	12	15	3	11	
		TR0200ANEBC	F	80	21	-	41	16	12	15	4	10	
		TR0200ANEBC	V	80	21	-	41	16	12	15	4	10	
<b>M20 × 1</b>	IS02	TM020MANEBC	2.5P	125	24	-	64	16	12	15	3	11	
		TR020MANEBC	F	80	21	-	41	16	12	15	4	10	
		TR020MANEBC	V	80	21	-	41	16	12	15	4	10	
<b>M22 × 2.5</b>	IS02	TQ022RANEBC	F	100	33	-	51	18	14.5	17	4	10	●
		TQ022RANEBC	M	100	33	-	51	18	14.5	17	4	10	●
		TQ022RANEBC	V	100	33	-	51	18	14.5	17	4	10	●
<b>M22 × 2</b>	IS02	TR022QANEBC	F	80	21	-	41	18	14.5	17	4	10	
		TR022QANEBC	V	80	21	-	41	18	14.5	17	4	10	
<b>M22 × 1.5</b>	IS02	TM0220ANEBC	2.5P	125	24	-	64	18	14.5	17	3	11	
		TR0220ANEBC	F	80	21	-	41	18	14.5	17	4	10	
		TR0220ANEBC	V	80	21	-	41	18	14.5	17	4	10	
<b>M22 × 1</b>	IS02	TR022MANEBC	F	80	21	-	41	18	14.5	17	4	10	
		TR022MANEBC	V	80	21	-	41	18	14.5	17	4	10	
<b>M24 × 3</b>	IS02	TG024SANEBC	2.5P	160	37	-	82	18	14.5	17	3	9	
		TQ024SANEBC	F	110	39	-	56	18	14.5	17	4	10	●
		TQ024SANEBC	M	110	39	-	56	18	14.5	17	4	10	●
		TQ024SANEBC	V	110	39	-	56	18	14.5	17	4	10	●
<b>M24 × 2</b>	IS02	TM024QANEBC	2.5P	140	27	-	71	18	14.5	17	3	11	
		TR024QANEBC	F	90	21	-	46	18	14.5	17	4	10	
		TR024QANEBC	V	90	21	-	46	18	14.5	17	4	10	
<b>M24 × 1.5</b>	IS02	TM0240ANEBC	2.5P	140	27	-	71	18	14.5	17	3	11	
		TR0240ANEBC	F	90	21	-	46	18	14.5	17	4	10	
		TR0240ANEBC	V	90	21	-	46	18	14.5	17	4	10	
<b>M24 × 1</b>	IS02	TM024MANEBC	2.5P	140	27	-	71	18	14.5	17	3	11	
		TR024MANEBC	F	90	21	-	46	18	14.5	17	4	10	
		TR024MANEBC	V	90	21	-	46	18	14.5	17	4	10	
<b>M25 × 2</b>	IS02	TR025QANEBC	F	90	21	-	46	18	14.5	17	4	10	
		TR025QANEBC	V	90	21	-	46	18	14.5	17	4	10	
<b>M25 × 1.5</b>	IS02	TM0250ANEBC	2.5P	140	27	-	71	18	14.5	17	4	11	
		TR0250ANEBC	F	90	21	-	46	18	14.5	17	4	10	
		TR0250ANEBC	V	90	21	-	46	18	14.5	17	4	10	
<b>M26 × 1.5</b>	IS02	TM0260ANEBC	2.5P	140	27	-	71	18	14.5	17	4	11	
		TR0260ANEBC	F	90	21	-	46	18	14.5	17	4	10	
		TR0260ANEBC	V	90	21	-	46	18	14.5	17	4	10	

Overall length	Thread length	Thread+Neck length	Shank length	Shank dia.	Size of square	Length of square
L	ℓ	ℓn	ℓs	Ds	K	ℓk

## HT Straight Fluted Taps

Size	Class	Code	Chamfer	L (mm)	ℓ (mm)	ℓn (mm)	ℓs (mm)	Ds (mm)	K (mm)	ℓk (mm)	No. of flutes	Type	Stock
<b>M27 × 3</b>	IS02	TG027SANEBBC	2.5P	160	37	-	82	20	16	19	4	9	
		TQ027SANEB2	F	110	39	-	56	20	16	19	4	10	
		TQ027SANEBU	M	110	39	-	56	20	16	19	4	10	
		TQ027SANEB5	V	110	39	-	56	20	16	19	4	10	
<b>M27 × 2</b>	IS02	TM027QANEBC	2.5P	140	27	-	71	20	16	19	4	11	
		TR027QANEBC	F	90	21	-	46	20	16	19	4	10	
		TR027QANEBC	V	90	21	-	46	20	16	19	4	10	
<b>M27 × 1.5</b>	IS02	TR027QANEBC	F	90	21	-	46	20	16	19	4	10	
		TR027QANEBC	V	90	21	-	46	20	16	19	4	10	
<b>M28 × 2</b>	IS02	TR028QANEBC	F	90	21	-	46	20	16	19	4	10	
		TR028QANEBC	V	90	21	-	46	20	16	19	4	10	
<b>M28 × 1.5</b>	IS02	TM028QANEBC	2.5P	140	27	-	71	20	16	19	4	11	
		TR028QANEBC	F	90	21	-	46	20	16	19	4	10	
		TR028QANEBC	V	90	21	-	46	20	16	19	4	10	
<b>M30 × 3.5</b>	IS02	TG030TANEBC	2.5P	180	44	-	92	22	18	21	4	9	
		TQ030TANEBC	F	125	46	-	64	22	18	21	4	10	
		TQ030TANEBC	M	125	46	-	64	22	18	21	4	10	
		TQ030TANEBC	V	125	46	-	64	22	18	21	4	10	
<b>M30 × 2</b>	IS02	TM030QANEBC	2.5P	150	27	-	77	22	18	21	4	11	
		TR030QANEBC	F	90	21	-	46	22	18	21	4	10	
		TR030QANEBC	V	90	21	-	46	22	18	21	4	10	
<b>M30 × 1.5</b>	IS02	TM030QANEBC	2.5P	150	27	-	77	22	18	21	4	11	
		TR030QANEBC	F	90	21	-	46	22	18	21	4	10	
		TR030QANEBC	V	90	21	-	46	22	18	21	4	10	
<b>M30 × 1</b>	IS02	TM030MANEBC	2.5P	150	27	-	77	22	18	21	4	11	
		TR030MANEBC	F	90	21	-	46	22	18	21	4	10	
		TR030MANEBC	V	90	21	-	46	22	18	21	4	10	
<b>M32 × 2</b>	IS02	TM032QANEBC	2.5P	150	27	-	77	22	18	21	4	11	
		TR032QANEBC	F	90	21	-	46	22	18	21	4	10	
		TR032QANEBC	V	90	21	-	46	22	18	21	4	10	
<b>M32 × 1.5</b>	IS02	TM032QANEBC	2.5P	150	27	-	77	22	18	21	4	11	
		TR032QANEBC	F	90	21	-	46	22	18	21	4	10	
		TR032QANEBC	V	90	21	-	46	22	18	21	4	10	
<b>M33 × 3.5</b>	IS02	TG033TANEBC	2.5P	180	46	-	92	25	20	23	4	9	
		TQ033TANEBC	F	125	46	-	64	25	20	23	4	10	
		TQ033TANEBC	M	125	46	-	64	25	20	23	4	10	
		TQ033TANEBC	V	125	46	-	64	25	20	23	4	10	
<b>M33 × 3</b>	IS02	TR033SANEB2	F	125	39	-	64	25	20	23	4	10	
		TR033SANEB5	V	125	39	-	64	25	20	23	4	10	
<b>M33 × 2</b>	IS02	TM033QANEBC	2.5P	160	29	-	82	25	20	23	4	11	
		TR033QANEBC	F	100	24	-	51	25	20	23	4	10	
		TR033QANEBC	V	100	24	-	51	25	20	23	4	10	
<b>M33 × 1.5</b>	IS02	TM033QANEBC	2.5P	160	29	-	82	25	20	23	4	11	
		TR033QANEBC	F	100	24	-	51	25	20	23	4	10	
		TR033QANEBC	V	100	24	-	51	25	20	23	4	10	
<b>M34 × 1.5</b>	IS02	TR034QANEBC	F	100	24	-	51	28	22	25	4	10	
		TR034QANEBC	V	100	24	-	51	28	22	25	4	10	
<b>M35 × 1.5</b>	IS02	TR035QANEBC	F	100	24	-	51	28	22	25	4	10	
		TR035QANEBC	V	100	24	-	51	28	22	25	4	10	

Spiral Fluted Taps  
(for blind hole)

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Hand Taps

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Roll Taps

Special Thread Taps  
Simple Inspection Tools

Pipe Taps

Thread Mills

Dies

Center Drills

Centering Tools



# Hand Tap Series

## HT Straight Fluted Taps

Size	Class	Code	Chamfer	L (mm)	ℓ (mm)	ℓ <sub>n</sub> (mm)	ℓ <sub>s</sub> (mm)	D <sub>s</sub> (mm)	K (mm)	ℓ <sub>k</sub> (mm)	No. of flutes	Type	Stock
<b>M36 × 4</b>	ISO2	TG036UANEBC	2.5P	200	52	-	102	28	22	25	4	9	
		TQ036UANEBC	F	150	52	-	77	28	22	25	4	10	
		TQ036UANEBCU	M	150	52	-	77	28	22	25	4	10	
		TQ036UANEBCV	V	150	52	-	77	28	22	25	4	10	
<b>M36 × 3</b>	ISO2	TR036SANEBC	F	125	39	-	64	28	22	25	4	10	
		TR036SANEBCV	V	125	39	-	64	28	22	25	4	10	
<b>M36 × 2</b>	ISO2	TM036QANEBC	2.5P	170	29	-	87	28	22	25	4	11	
		TR036QANEBC	F	125	39	-	64	28	22	25	4	10	
		TR036QANEBCV	V	125	39	-	64	28	22	25	4	10	
<b>M36 × 1.5</b>	ISO2	TM036OANEBC	2.5P	170	29	-	87	28	22	25	4	11	
		TR036OANEBC	F	100	24	-	51	28	22	25	4	10	
		TR036OANEBCV	V	100	24	-	51	28	22	25	4	10	
<b>M38 × 1.5</b>	ISO2	TR038OANEBC	F	100	24	-	51	28	22	25	4	10	
		TR038OANEBCV	V	100	24	-	51	28	22	25	4	10	
<b>M39 × 4</b>	ISO2	TG039UANEBC	2.5P	200	52	-	102	32	24	27	4	9	
		TQ039UANEBC	F	150	52	-	77	32	24	27	4	10	
		TQ039UANEBCU	M	150	52	-	77	32	24	27	4	10	
		TQ039UANEBCV	V	150	52	-	77	32	24	27	4	10	
<b>M39 × 2</b>	ISO2	TM039QANEBC	2.5P	170	29	-	87	32	24	27	4	11	
		TR039QANEBC	F	125	39	-	64	32	24	27	4	10	
		TR039QANEBCV	V	125	39	-	64	32	24	27	4	10	
<b>M39 × 1.5</b>	ISO2	TM039OANEBC	2.5P	170	29	-	87	32	24	27	4	11	
		TR039OANEBC	F	110	24	-	56	32	24	27	4	10	
		TR039OANEBCV	V	110	24	-	56	32	24	27	4	10	
<b>M40 × 2</b>	ISO2	TR040QANEBC	F	125	39	-	64	32	24	27	4	10	
		TR040QANEBCV	V	125	39	-	64	32	24	27	4	10	
<b>M40 × 1.5</b>	ISO2	TR040OANEBC	F	110	24	-	56	32	24	27	4	10	
		TR040OANEBCV	V	110	24	-	56	32	24	27	4	10	
<b>M42 × 4.5</b>	ISO2	TG042VANEBC	2.5P	200	59	-	102	32	24	27	4	9	
		TQ042VANEBC	F	150	59	-	77	32	24	27	4	10	
		TQ042VANEBCU	M	150	59	-	77	32	24	27	4	10	
		TQ042VANEBCV	V	150	59	-	77	32	24	27	4	10	
<b>M42 × 2</b>	ISO2	TM042QANEBC	2.5P	170	29	-	87	32	24	27	4	11	
		TR042QANEBC	F	125	39	-	64	32	24	27	4	10	
		TR042QANEBCV	V	125	39	-	64	32	24	27	4	10	
<b>M42 × 1.5</b>	ISO2	TM042OANEBC	2.5P	170	29	-	87	32	24	27	4	11	
		TR042OANEBC	F	110	24	-	56	32	24	27	4	10	
		TR042OANEBCV	V	110	24	-	56	32	24	27	4	10	
<b>M45 × 4.5</b>	ISO2	TG045VANEBC	2.5P	220	59	-	112	36	29	32	4	9	
		TQ045VANEBC	F	160	59	-	82	36	29	32	4	10	
		TQ045VANEBCU	M	160	59	-	82	36	29	32	4	10	
		TQ045VANEBCV	V	160	59	-	82	36	29	32	4	10	
<b>M45 × 3</b>	ISO2	TM045SANEBC	2.5P	200	49	-	102	36	29	32	4	11	
		TR045SANEBC	F	125	39	-	64	36	29	32	4	10	
		TR045SANEBCV	V	125	39	-	64	36	29	32	4	10	
<b>M45 × 2</b>	ISO2	TM045QANEBC	2.5P	180	31	-	92	36	29	32	4	11	
		TR045QANEBC	F	125	39	-	64	36	29	32	4	10	
		TR045QANEBCV	V	125	39	-	64	36	29	32	4	10	

Overall length	Thread length	Thread+Neck length	Shank length	Shank dia.	Size of square	Length of square
L	ℓ	ℓn	ℓs	Ds	K	ℓk

## HT Straight Fluted Taps

Size	Class	Code	Chamfer	L (mm)	ℓ (mm)	ℓn (mm)	ℓs (mm)	Ds (mm)	K (mm)	ℓk (mm)	No. of flutes	Type	Stock
<b>M45 × 1.5</b>	IS02	TM0450ANEBC	2.5P	180	31	-	92	36	29	32	4	11	
		TR0450ANEB2	F	110	24	-	56	36	29	32	4	10	
		TR0450ANEBS	V	110	24	-	56	36	29	32	4	10	
<b>M48 × 5</b>	IS02	TG048WANEBC	2.5P	250	65	-	128	36	29	32	4	9	
		TQ048WANEBC	F	180	65	-	92	36	29	32	4	10	
		TQ048WANEBS	M	180	65	-	92	36	29	32	4	10	
		TQ048WANEBS	V	180	65	-	92	36	29	32	4	10	
<b>M48 × 3</b>	IS02	TM048SANEBC	2.5P	225	49	-	115	36	29	32	4	11	
		TR048SANEBC	F	140	39	-	71	36	29	32	4	10	
		TR048SANEBS	V	140	39	-	71	36	29	32	4	10	
<b>M48 × 2</b>	IS02	TM048QANEBC	2.5P	190	31	-	97	36	29	32	4	11	
		TR048QANEBC	F	140	39	-	71	36	29	32	4	10	
		TR048QANEBS	V	140	39	-	71	36	29	32	4	10	
<b>M48 × 1.5</b>	IS02	TM0480ANEBC	2.5P	190	31	-	97	36	29	32	4	11	
		TR0480ANEBC	F	140	39	-	71	36	29	32	4	10	
		TR0480ANEBS	V	140	39	-	71	36	29	32	4	10	
Size	Class	Code	Chamfer	L (mm)	ℓ (mm)	ℓn (mm)	ℓs (mm)	Ds (mm)	K (mm)	ℓk (mm)	No. of flutes	Type	Stock
For Unified Threads													
<b>No.4-40UNC</b>	2B	TDUN4HXNEBC	2.5P	56	9	18	34	3.5	2.7	6	3	3	
<b>No.4-48UNF</b>	2B	TDUN4FXNEBC	2.5P	56	9	18	34	3.5	2.7	6	3	3	
<b>No.5-40UNC</b>	2B	TDUN5HXNEBC	2.5P	56	11	18	34	3.5	2.7	6	3	3	
<b>No.5-44UNF</b>	2B	TDUN5GXNEBC	2.5P	56	11	18	34	3.5	2.7	6	3	3	
<b>No.6-32UNC</b>	2B	TDUN6JXNEBC	2.5P	56	11	19	32	4	3	6	3	3	
<b>No.6-40UNF</b>	2B	TDUN6HXNEBC	2.5P	56	11	19	32	4	3	6	3	3	
<b>No.8-32UNC</b>	2B	TDUN8JXNEBC	2.5P	63	13	21	38	4.5	3.4	6	3	3	
<b>No.8-36UNF</b>	2B	TDUN8IXNEBC	2.5P	63	13	21	38	4.5	3.4	6	3	3	
<b>No.10-24UNC</b>	2B	TDUNAMXNEBC	2.5P	70	14	24	39	6	4.9	8	3	3	
<b>No.10-32UNF</b>	2B	TDUNAJXNEBC	2.5P	70	14	24	39	6	4.9	8	3	3	
<b>No.12-24UNC</b>	2B	TDUNCMXNEBC	2.5P	80	15	28	45	6	4.9	8	3	3	
<b>No.12-28UNF</b>	2B	TDUNCKXNEBC	2.5P	80	15	28	45	6	4.9	8	3	3	
<b>1/4-20UNC</b>	2B	TDU04NXNEBC	2.5P	80	15	30	42	7	5.5	8	3	3	
<b>1/4-28UNF</b>	2B	TDU04KXNEBC	2.5P	80	15	30	42	7	5.5	8	3	3	
<b>5/16-18UNC</b>	2B	TDU050XNEBC	2.5P	90	19	35	47	8	6.2	9	4	8	
<b>5/16-24UNF</b>	2B	TMU05MXNEBC	2.5P	90	19	-	46	6	4.9	8	4	11	
<b>3/8-16UNC</b>	2B	TDU06PXNEBC	2.5P	100	23	39	54	9	7	10	4	8	
<b>3/8-24UNF</b>	2B	TMU06MXNEBC	2.5P	100	23	-	51	7	5.5	8	4	11	
<b>7/16-14UNC</b>	2B	TGU07QXNEBC	2.5P	100	23	-	51	8	6.2	9	4	9	
<b>7/16-20UNF</b>	2B	TMU07NXNEBC	2.5P	100	23	-	51	8	6.2	9	4	11	
<b>1/2-13UNC</b>	2B	TGU08RXNEBC	2.5P	110	26	-	56	9	7	10	4	9	
<b>1/2-20UNF</b>	2B	TMU08NXNEBC	2.5P	100	21	-	51	9	7	10	4	11	
<b>9/16-12UNC</b>	2B	TGU09SXNEBC	2.5P	110	26	-	56	11	9	12	4	9	
<b>9/16-18UNF</b>	2B	TMU090XNEBC	2.5P	100	21	-	51	11	9	12	4	11	
<b>5/8-11UNC</b>	2B	TGU10UXNEBC	2.5P	110	26	-	56	12	9	12	4	9	
<b>5/8-18UNF</b>	2B	TMU100XNEBC	2.5P	100	21	-	51	12	9	12	4	11	
<b>3/4-10UNC</b>	2B	TGU12VXNEBC	2.5P	125	33	-	64	14	11	14	4	9	
<b>3/4-16UNF</b>	2B	TMU12PXNEBC	2.5P	110	24	-	56	14	11	14	4	11	
<b>7/8-9UNC</b>	2B	TGU14WXNEBC	2.5P	140	33	-	71	18	14.5	17	4	9	
<b>7/8-14UNF</b>	2B	TMU14QXNEBC	2.5P	125	24	-	64	18	14.5	17	4	11	

Spiral Fluted Taps  
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# Hand Tap Series

## HT Straight Fluted Taps

Size	Class	Code	Chamfer	L (mm)	ℓ (mm)	ℓn (mm)	ℓs (mm)	Ds (mm)	K (mm)	ℓk (mm)	No. of flutes	Type	Stock
<b>1-8UNC</b>	2B	TGU16XXNEBC	2.5P	160	37	-	82	18	14.5	17	4	9	
<b>1-12UNF</b>	2B	TMU16SXNEBC	2.5P	140	27	-	71	18	14.5	17	4	11	
<b>1 1/8-7UNC</b>	2B	TGU18YXNEBC	2.5P	180	44	-	92	22	18	21	4	9	
<b>1 1/8-12UNF</b>	2B	TMU18SXNEBC	2.5P	150	27	-	77	22	18	21	4	11	
<b>1 1/4-7UNC</b>	2B	TGU20YXNEBC	2.5P	180	44	-	92	22	18	21	4	9	
<b>1 1/4-12UNF</b>	2B	TMU20SXNEBC	2.5P	150	27	-	77	22	18	21	4	11	
<b>1 3/8-6UNC</b>	2B	TGU22ZXNEBC	2.5P	200	52	-	102	28	22	25	4	9	
<b>1 3/8-12UNF</b>	2B	TMU22SXNEBC	2.5P	170	29	-	87	28	22	25	4	11	
<b>1 1/2-6UNC</b>	2B	TGU24ZXNEBC	2.5P	200	52	-	102	32	24	27	4	9	
<b>1 1/2-12UNF</b>	2B	TMU24SXNEBC	2.5P	170	29	-	87	32	24	27	4	11	
<b>1 3/4-5UNC</b>	2B	TGU287XNEBC	2.5P	220	66	-	112	36	29	32	4	9	
<b>1 3/4-12UN</b>	2B	TMU28SXNEBC	2.5P	180	31	-	92	36	29	32	4	11	
Size	Class	Code	Chamfer	L (mm)	ℓ (mm)	ℓn (mm)	ℓs (mm)	Ds (mm)	K (mm)	ℓk (mm)	No. of flutes	Type	Stock
For Whitworth Threads													
<b>3/32W48</b>	-	TPW1HFONEB2	F	36	10	-	21	2.8	2.1	5	3	2	
		TPW1HFONEBU	M	36	10	-	21	2.8	2.1	5	3	2	
		TPW1HFONEB5	V	36	10	-	21	2.8	2.1	5	3	2	
<b>1/8W40</b>	-	TPW02HONEB2	F	40	11	-	25	3.5	2.7	6	3	2	
		TPW02HONEBU	M	40	11	-	25	3.5	2.7	6	3	2	
		TPW02HONEB5	V	40	11	-	25	3.5	2.7	6	3	2	
<b>5/32W32</b>	-	TPW2HJONEB2	F	45	13	-	27	4.5	3.4	6	3	2	
		TPW2HJONEBU	M	45	13	-	27	4.5	3.4	6	3	2	
		TPW2HJONEB5	V	45	13	-	27	4.5	3.4	6	3	2	
<b>3/16W24</b>	-	TPW03MONEB2	F	50	17	-	26	5.5	4.3	7	3	2	
		TPW03MONEBU	M	50	17	-	26	5.5	4.3	7	3	2	
		TPW03MONEB5	V	50	17	-	26	5.5	4.3	7	3	2	
<b>1/4W20</b>	-	TPW04NONEB2	F	56	21	-	-	6	4.9	8	3	6	
		TPW04NONEBU	M	56	21	-	-	6	4.9	8	3	6	
		TPW04NONEB5	V	56	21	-	-	6	4.9	8	3	6	
<b>5/16W18</b>	-	TPW050ONEB2	F	63	19	-	32	6	4.9	8	4	10	
		TPW050ONEBU	M	63	19	-	32	6	4.9	8	4	10	
		TPW050ONEB5	V	63	19	-	32	6	4.9	8	4	10	
<b>3/8W16</b>	-	TPW06PONEB2	F	70	23	-	36	7	5.5	8	4	10	
		TPW06PONEBU	M	70	23	-	36	7	5.5	8	4	10	
		TPW06PONEB5	V	70	23	-	36	7	5.5	8	4	10	
<b>7/16W14</b>	-	TPW07QONEB2	F	70	23	-	36	8	6.2	9	4	10	
		TPW07QONEBU	M	70	23	-	36	8	6.2	9	4	10	
		TPW07QONEB5	V	70	23	-	36	8	6.2	9	4	10	
<b>1/2W12</b>	-	TPW08SONEB2	F	80	26	-	41	9	7	10	4	10	
		TPW08SONEBU	M	80	26	-	41	9	7	10	4	10	
		TPW08SONEB5	V	80	26	-	41	9	7	10	4	10	
<b>9/16W12</b>	-	TPW09SONEB2	F	80	26	-	41	11	9	12	4	10	
		TPW09SONEBU	M	80	26	-	41	11	9	12	4	10	
		TPW09SONEB5	V	80	26	-	41	11	9	12	4	10	
<b>5/8W11</b>	-	TPW10UONEB2	F	90	26	-	46	12	9	12	4	10	
		TPW10UONEBU	M	90	26	-	46	12	9	12	4	10	
		TPW10UONEB5	V	90	26	-	46	12	9	12	4	10	
<b>3/4W10</b>	-	TPW12VONEB2	F	95	33	-	48	14	11	14	4	10	
		TPW12VONEBU	M	95	33	-	48	14	11	14	4	10	
		TPW12VONEB5	V	95	33	-	48	14	11	14	4	10	

Overall length	Thread length	Thread+Neck length	Shank length	Shank dia.	Size of square	Length of square
L	ℓ	ℓn	ℓs	Ds	K	ℓk

## HT Straight Fluted Taps

Size	Class	Code	Chamfer	L (mm)	ℓ (mm)	ℓn (mm)	ℓs (mm)	Ds (mm)	K (mm)	ℓk (mm)	No. of flutes	Type	Stock
<b>7/8W9</b>	-	TPW14W0NEB2	F	100	33	-	51	18	14.5	17	4	10	
		TPW14W0NEBU	M	100	33	-	51	18	14.5	17	4	10	
		TPW14W0NEB5	V	100	33	-	51	18	14.5	17	4	10	
<b>1W8</b>	-	TPW16X0NEB2	F	110	39	-	56	20	16	19	4	10	
		TPW16X0NEBU	M	110	39	-	56	20	16	19	4	10	
		TPW16X0NEB5	V	110	39	-	56	20	16	19	4	10	
<b>1 1/8W7</b>	-	TPW18Y0NEB2	F	125	46	-	64	22	18	21	4	10	
		TPW18Y0NEBU	M	125	46	-	64	22	18	21	4	10	
		TPW18Y0NEB5	V	125	46	-	64	22	18	21	4	10	
<b>1 1/4W7</b>	-	TPW20Y0NEB2	F	125	46	-	64	22	18	21	4	10	
		TPW20Y0NEBU	M	125	46	-	64	22	18	21	4	10	
		TPW20Y0NEB5	V	125	46	-	64	22	18	21	4	10	
<b>1 3/8W6</b>	-	TPW22Z0NEB2	F	150	52	-	77	28	22	25	4	10	
		TPW22Z0NEBU	M	150	52	-	77	28	22	25	4	10	
		TPW22Z0NEB5	V	150	52	-	77	28	22	25	4	10	
<b>1 1/2W6</b>	-	TPW24Z0NEB2	F	150	55	-	77	32	24	27	4	10	
		TPW24Z0NEBU	M	150	55	-	77	32	24	27	4	10	
		TPW24Z0NEB5	V	150	55	-	77	32	24	27	4	10	
<b>1 5/8W5</b>	-	TPW2670NEB2	F	150	66	-	77	32	24	27	4	10	
		TPW2670NEBU	M	150	66	-	77	32	24	27	4	10	
		TPW2670NEB5	V	150	66	-	77	32	24	27	4	10	
<b>1 3/4W5</b>	-	TPW2870NEB2	F	160	66	-	82	36	29	32	4	10	
		TPW2870NEBU	M	160	66	-	82	36	29	32	4	10	
		TPW2870NEB5	V	160	66	-	82	36	29	32	4	10	
Size	Class	Code	Chamfer	L (mm)	ℓ (mm)	ℓn (mm)	ℓs (mm)	Ds (mm)	K (mm)	ℓk (mm)	No. of flutes	Type	Stock
For Pg Threads													
<b>Pg 7</b>	-	TYPG070NEBU	3.5P	70	21	-	36	9	7	10	4	12	●
<b>Pg 9</b>	-	TYPG090NEBU	3.5P	70	21	-	36	12	9	12	4	12	●
<b>Pg 11</b>	-	TYPG110NEBU	3.5P	80	21	-	41	14	11	14	4	12	●
<b>Pg 13.5</b>	-	TYPG130NEBU	3.5P	80	21	-	41	16	12	15	4	12	●
<b>Pg 16</b>	-	TYPG160NEBU	3.5P	80	21	-	41	18	14.5	17	4	12	●
<b>Pg 21</b>	-	TYPG210NEBU	3.5P	90	21	-	46	22	18	21	4	12	●
<b>Pg 29</b>	-	TYPG290NEBU	3.5P	100	24	-	51	28	22	25	4	12	
<b>Pg 36</b>	-	TYPG360NEBU	3.5P	140	39	-	71	36	29	32	4	12	
Size	Class	Code	Chamfer	L (mm)	ℓ (mm)	ℓn (mm)	ℓs (mm)	Ds (mm)	K (mm)	ℓk (mm)	No. of flutes	Type	Stock
For G Threads													
<b>G1/16-28</b>	-	TVG0010NEBC	2.5P	90	19	-	46	6	4.9	8	3	11	
		T9G0010NEB2	F	56	19	-	29	6	4.9	8	4	12	
		T9G0010NEB5	V	56	19	-	29	6	4.9	8	4	12	
<b>G1/8-28</b>	-	TVG0020NEBC	2.5P	90	19	-	46	7	5.5	8	3	11	
		T9G0020NEB2	F	63	19	-	32	7	5.5	8	4	12	●
		T9G0020NEB5	V	63	19	-	32	7	5.5	8	4	12	●
<b>G1/4-19</b>	-	TVG0040NEBC	2.5P	100	21	-	51	11	9	12	3	11	
		T9G0040NEB2	F	70	21	-	36	11	9	12	4	12	●
		T9G0040NEB5	V	70	21	-	36	11	9	12	4	12	●
<b>G3/8-19</b>	-	TVG0060NEBC	2.5P	100	21	-	51	12	9	12	3	11	
		T9G0060NEB2	F	70	21	-	36	12	9	12	4	12	●
		T9G0060NEB5	V	70	21	-	36	12	9	12	4	12	●

Spiral Fluted Taps  
(for blind hole)

Spiral Fluted Taps  
(for through hole)

Spiral Pointed Taps  
(for through hole)

Hand Taps

Cemented  
Carbide Taps

Roll Taps

Special Thread Taps  
Simple Inspection Tools

Pipe Taps

Thread Mills

Dies

Center Drills

Centering Tools

# Hand Tap Series

## HT Straight Fluted Taps

Size	Class	Code	Chamfer	L (mm)	ℓ (mm)	ℓn (mm)	ℓs (mm)	Ds (mm)	K (mm)	ℓk (mm)	No. of flutes	Type	Stock
<b>G1/2-14</b>	-	TVG0080NEBC	2.5P	125	24	-	64	16	12	15	3	11	
		T9G0080NEB2	F	80	21	-	41	16	12	15	4	12	●
		T9G0080NEB5	V	80	21	-	41	16	12	15	4	12	●
<b>G5/8-14</b>	-	TVG0100NEBC	2.5P	125	24	-	64	18	14.5	17	4	11	
		T9G0100NEB2	F	80	21	-	41	18	14.5	17	4	12	
		T9G0100NEB5	V	80	21	-	41	18	14.5	17	4	12	
<b>G3/4-14</b>	-	TVG0120NEBC	2.5P	140	27	-	71	20	16	19	4	11	
		T9G0120NEB2	F	90	21	-	46	20	16	19	4	12	●
		T9G0120NEB5	V	90	21	-	46	20	16	19	4	12	●
<b>G7/8-14</b>	-	TVG0140NEBC	2.5P	150	27	-	77	22	18	21	4	11	
		T9G0140NEB2	F	90	21	-	46	22	18	21	4	12	
		T9G0140NEB5	V	90	21	-	46	22	18	21	4	12	
<b>G1-11</b>	-	TVG0160NEBC	2.5P	160	29	-	82	25	20	23	4	11	
		T9G0160NEB2	F	100	24	-	51	25	20	23	4	12	●
		T9G0160NEB5	V	100	24	-	51	25	20	23	4	12	●
<b>G1 1/8-11</b>	-	TVG0180NEBC	2.5P	170	29	-	87	28	22	25	4	11	
		T9G0180NEB2	F	125	39	-	64	28	22	25	4	12	
		T9G0180NEB5	V	125	39	-	64	28	22	25	4	12	
<b>G1 1/4-11</b>	-	TVG0200NEBC	2.5P	170	29	-	87	32	24	27	4	11	
		T9G0200NEB2	F	125	39	-	64	32	24	27	4	12	
		T9G0200NEB5	V	125	39	-	64	32	24	27	4	12	
<b>G1 1/2-11</b>	-	TVG0240NEBC	2.5P	190	31	-	97	36	29	32	6	11	
		T9G0240NEB2	F	140	39	-	71	36	29	32	6	12	
		T9G0240NEB5	V	140	39	-	71	36	29	32	6	12	

Spiral Fluted Taps (for blind hole)  
 Spiral Fluted Taps (for through hole)  
 Spiral Pointed Taps (for through hole)  
**Hand Taps**  
 Cemented Carbide Taps  
 Roll Taps  
 Special Thread Taps Simple Inspection Tools  
 Pipe Taps  
 Thread Mills  
 Dies  
 Center Drills  
 Centering Tools