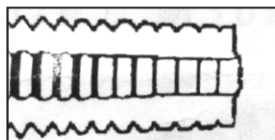
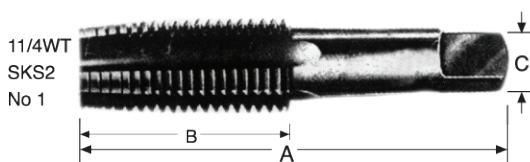
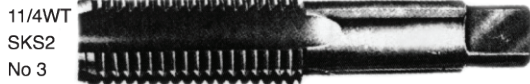


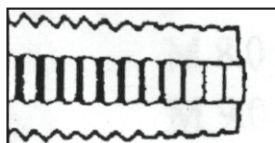
HAND TAPS (STANDARD PITCH)

High Speed Steel
Tungsten Steel
ALLOY Steel



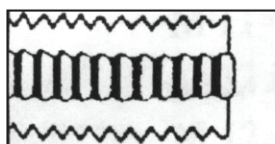
TAPER

8 to 10 threads chamfered for easy thread starting in rough materials



PLUG

3 to 5 threads chamfered general use when tapping to bottom of holes is not critical. (This is the most widely-used type of tap)



BOTTOMING

1.1/2 threads chamfered - use after threads have been started for tapping to bottom of hole.

3 pc one set

METRIC 1.0mm up to 12 mm in plastic case and 14 mm and up in Printed box

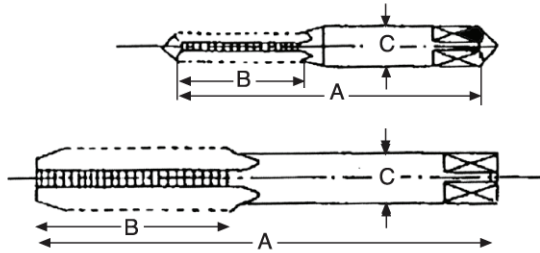
INCH 1/6 inch up to 1/2 inch in plastic case and 9/16 inch up in Printed box.

METRIC (COARSE)							
IMPA SKS C.S	Nominal Diameter (mm)	Pitch (mm)	Length		Shank Dia C(mm)	Weight Per Set (g)	IMPA SKH HSS
			A(mm)	B(mm)			
631001	1.0	0.25	30	8	3	8	631051
631002	1.1	0.25					631052
631003	1.2	0.25	32	9	3	10	631053
631003A	1.3	0.35					
631004	1.4	0.30	34	11	3	10	631054
631005	1.6	0.35	34	11	3	10	631055
631006	1.7	0.35	36	13	3	10	631056
631007	1.8	0.35					631057
631008	2.0	0.40	40	15	3	12	631058
631009	2.2	0.45					631059
631010	2.3	0.40	42	15	3	12	631060
631011	2.5	0.45	43	15	3	12	631061
631012	2.6	0.55	44	16	3	12	631062
631013A	3.0	0.60					
631013	3.0	0.60	46	18	4	18	631063
631014	3.5	0.60	48	18	4	18	631064
631015A	4.0	0.75					
631015	4.0	0.70	52	20	5	20	631065
631016	4.5	0.75	55	20	5	25	631066
631017A	5.5	0.90					
631017	5.0	0.80	60	22	5.5	30	
631018A	5.5	0.90	60	22	5.5	30	631067
631018	6.0	1.00	62	24	6	40	631068
631019	7.0	1.00	62	26	6.2	50	631069
631020	8.0	1.25	70	30	6.2	70	631070
631021	9.0	1.25	72	30	7	75	631071
631022	10.0	1.50	75	32	7	80	631072
631023	11.0	1.50	80	38	8	110	631073
631024	12.0	1.75	82	38	8.5	135	631074
631024A	12.0	2.00	85	40	9	145	
631024B	13.0	2.00					
631025	14.0	2.00	88	42	10.5	185	631075
631025A	15.0	2.00	90	43	11	195	
631026	16.0	2.00	95	45	12.5	250	631076
631026A	17.0	2.00	98	47	13	300	
631027	18.0	2.50	100	48	14	360	631077
631027A	19.0	2.50	100	48	15	380	
631028	20.0	2.50	105	50	15	400	631078
631028A	21.0	2.50	110	52	16	480	
631029	22.0	2.50	115	55	17	650	631079
631029A	23.0	2.50	118	56	18	700	
631030	24.0	3.00	120	58	19	850	631080
631030A	25.0	3.00	125	60	20	1000	
631030B	26.0	3.00					
631031	27.0	3.00	130	62	20	1180	631081
631031A	28.0	3.00	132	63	22	1300	
631032	30.0	3.50	135	65	23	1500	631082
631032A	32.0	3.50	140	68	24	1800	
631033	33.0	3.50	145	70	25	1980	631083
631033A	34.0	3.50	150	72	26	2100	
631033B	35.0	3.50	152	73	27	2300	
631034	36.0	4.00	155	75	28	2640	631084
631035	39.0	4.00	165	80	30	2920	631085
631036	42.0	4.50	175	85	32	3520	631086
631037	45.0	4.50	180	85	35	4090	631087
631038	48.0	5.00	185	90	38	5480	631088
631039	50.0	5.00					
631040	52.0	5.00	195	90	42	5900	
631041	56.0	5.50	205	95	44	8300	
631042	60.0	5.50	215	100	46	9750	
631043	64.0	6.00	225	105	48	11250	
631044	68.0	6.00	235	110	52	12980	

INGREDIENT SPECIFICATION

Chemical Composition											
Elements Type of Steel	C % x 100	SI % x 100	Mn % x 100	P % x 100	S % x 100	Cu % x 100	Ni % x 100	Cr % x 100	Ma % x 100	W % x 100	V % x 100
SKH2	70~85	MAX 40	MAX 40	MAX 30	MAX 30			380~450		1700~1900	80~120
SKH9	80~90	MAX 40	MAX 40	MAX 30	MAX 30			380~450	450~550	550~670	160~220
SKS11	120~130	MAX 35	MAX 50	MAX 30	MAX 30			20~50		300~400	10~30
SKS2	100~110	MAX 25	MAX 80	MAX 30	MAX 30			50~100		100~150	
GSS2	97	MAX 18	MAX 97	MAX 24	MAX 17	9		48	21		
ALLOY	0.95~1.10	MAX 35	MAX 90	MAX 27	MAX 20			13~165			

METRIC FINE STANDARD HAND TAPS



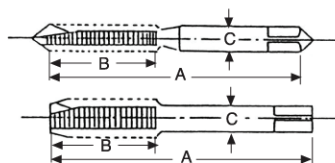
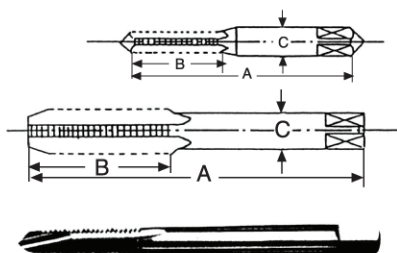
High Speed Steel
Tungsten Steel
ALLOY Steel

IMPA SKS C.S	Size	Pitch	Length		Shank Dia C(mm)	IMPA SKH H.S.S
			A(mm)	B(mm)		
631101	1.0	0.20	30	8	3	631201
631102	1.1	0.20	30	8	3	631202
631103	1.2	0.20	32	9	3	631203
631104	1.4	0.20	34	11	3	631204
631105	1.6	0.20	34	11	3	631205
631106	1.8	0.20	36	11	3	631206
631107	2.0	0.25	40	15	3	631207
631108	2.2	0.25	41	15	3	631208
631109	2.5	0.35	42	15	3	631209
631109A	2.6	0.35	44	16	3	
631110	3.0	0.35	46	18	4	631210
631111	3.5	0.50	48	18	4	631211
631112	4.0	0.50	52	20	5	631212
631113	4.5	0.50	55	20	5	631213
631114	5.0	0.50	60	22	5.5	631214
631115	5.5	0.50	60	22	5.5	631215
631115A	6.0	0.50	62	24	6	
631116	6.0	0.75	62	24	6	631216
631117	7.0	0.75	65	26	6.2	631217
631117A	8.0	1.50	70	30	6.2	
631118	8.0	1.00	70	30	6.2	631218
631119	8.0	0.75	70	30	6.2	631219
631119A	8.0	0.50	70	30	6.2	
631120	9.0	1.00	72	30	7	631220
631121	9.0	0.75	72	30	7	631221
631122	10	1.25	75	32	7	631222
631123	10	1.00	75	32	7	631223
631124	10	0.75	75	32	7	631224
631124A	10	0.50	75	32	7	
631124B	11	1.25	80	38	8	
631125	11	1.00	80	38	8	631225
631126	11	0.75	80	38	8	631226
631127	12	1.50	82	38	8.5	631227
631128	12	1.25	82	38	8.5	631228
631129	12	1.00	82	38	8.5	631229
631129A	13	1.75	85	40	9.5	
631129B	13	1.50	85	40	9.5	
631129C	13	1.00	85	40	9.5	
631130A	14	1.75	88	42	10.5	
631130	14	1.50	88	42	10.5	631230
631130B	14	1.25	88	38	10.5	
631131	14	1.00	88	42	10.5	631231
631132	15	1.50	90	42	10.5	631232
631133	15	1.00	90	42	10.5	631233
631133A	16	1.75	95	45	12.5	
631134	16	1.50	95	45	12.5	631234
631134A	16	1.25	95	45	12.5	
631135	16	1.00	95	45	12.5	631235
631136	17	1.50	100	45	13	631236
631137	17	1.00	100	45	13	631237
631138	18	2.00	100	48	14	631238
631139	18	1.50	100	48	14	631239
631139A	18	1.25	100	48	14	
631140	18	1.00	100	48	14	651240
631140A	19	1.50	100	48	14	
631140B	19	2.00	100	48	14	
631141	20	2.00	105	50	15	631241
631141A	20	1.75	105	50	15	
631142	20	1.50	105	50	15	631242
631143	20	1.00	105	50	15	631243

IMPA SKS C.S	Size	Pitch	Length		Shank Dia C(mm)	IMPA SKH H.S.S
			A(mm)	B(mm)		
631144	22	2.00	115	55	17	631244
631144A	22	1.75	115	55	17	
631145	22	1.50	115	55	17	631245
631146	22	1.00	115	55	17	631246
631146A	24	2.50	115	55	17	
631147	24	2.00	120	58	19	631247
631148	24	1.50	120	58	19	631248
631149	24	1.00	120	58	19	631249
631150	25	2.00	125	60	19	631250
631151	25	1.50	125	60	19	631251
631152	25	1.00	125	60	20	631252
631152A	26	2.00	125	60	20	
631153	26	1.50	125	60	20	631253
631154	27	2.00	130	62	20	631254
631155	27	1.50	130	62	20	631255
631156	27	1.00	130	62	20	631256
631157	28	2.00	130	62	21	631257
631158	28	1.50	130	62	21	631258
631159	28	1.00	130	62	21	631259
631160	30	3.00	135	65	23	631260
631161	30	2.00	135	65	23	631261
631162	30	1.50	135	65	23	631262
631163	30	1.00	135	65	23	631263
631164	32	2.00	140	68	24	631264
631165	32	1.50	140	68	24	631265
631166	33	3.00	145	70	25	631266
631167	33	2.00	145	70	25	631267
631168	33	1.50	145	70	25	631268
631168A	34	2.00	150	73	26	
631168B	34	1.50	150	73	26	
631169A	35	2.00	155	73	26	
631169	35	1.50	155	73	26	631269
631170	36	3.00	155	75	28	631270
631171	36	2.00	155	75	28	631271
631172	36	1.50	155	75	28	631272
631173A	38	3.00	160	78	28	
631173	38	1.50	160	78	28	631273
631174	39	3.00	160	78	28	
631175	39	2.00	165	80	30	
631176	39	1.50	165	80	30	
631177	40	3.00	170	83	30	
631178	40	2.00	170	83	30	
631179	40	1.50	170	83	30	
631180	42	4.00	175	85	30	
631181	42	3.00	175	85	32	
631182	42	2.00	175	85	32	
631183	42	1.50	175	85	32	
631184	45	4.00	180	85	32	
631185	45	3.00	180	85	35	
631186	45	2.00	180	85	35	
631187	45	1.50	180	85	35	
631188	48	4.00	185	90	38	
631189	48	3.00	185	90	38	
631190	48	2.00	185	90	38	
631191	48	1.50	185	90	38	
631192	50	3.00	190	90	40	
631193	50	2.00	190	90	40	
631194	50	1.50	190	90	40	
631195	52	3.00	195	90	42	
631196	52	2.00	195	90	42	
631197	54	3.00	205	95	44	
631198	60	3.00	215	100	46	
631199	64	3.00	225	105	48	

STANDARD HAND TAPS

UNC. BSW


 High Speed Steel
 Tungsten Steel
 Carbon Steel

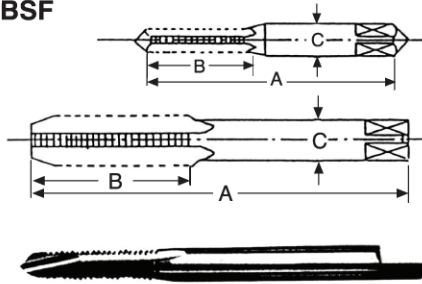
Standard Hand Taps

Spiral Pointed Taps

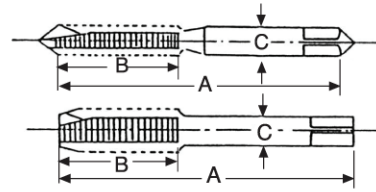
IMPA		Thread per Inch	IMPA		Thread per Inch	Length		Shank Dia	Weight
Carbon Steel	HSS	(u) NC	Carbon Steel	HSS	BSW	A (mm)	B (mm)	C (mm)	per set (g)
631350	631375	1 - 64	631301	631326	1/16 - 60	36	13	3	12
631351	631376	2 - 56	631302	631327	3/32 - 48	42	16	3	12
631352	631377	3 - 48	631303	631328	1/8 - 40	46	18	4	15
631353	631378	4 - 40	631304	631329	5/32 - 32	52	20	5	20
631354	631379	5 - 40	631305	631330	3/16 - 24	60	22	5.5	30
631355	631380	6 - 32	631306	631331	7/32 - 24	60	22	5.5	35
631356	631381	8 - 32	631307	631332	1/4 - 20	62	24	6	40
631357	631382	10 - 24	631307A		9/32 - 20	62	24	6	60
631358	631383	12 - 24	631308	631333	5/16 - 18	70	30	6.1	70
631359	631384	1/4 - 20	631309	631334	3/8 - 16	75	35	7	75
631359A	631384A	9/32 - 20	631310	631335	7/16 - 14	80	38	8	110
631360	631385	5/16 - 18	631311	631336	1/2 - 12	85	42	9	135
631361	631386	3/8 - 16	631312	631337	9/16 - 12	90	42	10.5	185
631362	631387	7/16 - 14	631313	631338	5/8 - 11	95	45	12	250
631363	631388	1/2 - 13	631313A		11/16 - 11	95	45	12	350
631364	631389	9/16 - 12	631314	631339	3/4 - 10	105	50	14	380
631365	631390	5/8 - 11	631315	631340	7/8 - 9	115	55	17	600
631365A	631390A	11/16 - 11	631316	631341	1 - 8	125	60	20	830
631366	631391	3/4 - 10	631317	631342	1 1/8 - 7	135	65	22	1270
631367	631392	7/8 - 9	631318	631343	1 1/4 - 7	145	70	24	1610
631368	631393	1 - 8	631319	631344	1 3/8 - 6	155	75	26	1980
631369	631394	1 1/8 - 7	631320	631345	1 1/2 - 6	160	78	30	2740
631370	631395	1 1/4 - 7	631321	631346	1 5/8 - 5	170	82	32	3560
631371	631396	1 3/8 - 6	631322	631347	1 3/4 - 5	175	85	35	4080
631372	631397	1 1/2 - 6	631323	631348	1 7/8 - 4 1/2	185	90	38	4690
631372A	631397A	1 5/8 - 5	631324	631349	2 - 4 1/2	195	92	40	6130
631373	631398	1 3/4 - 5			2 1/4 - 4	210	100	45	8500
631373A	631398A	1 7/8 - 4 1/2			2 1/2 - 4	225	105	48	11100
631374	631399	2 - 4 1/2			2 3/4 - 3 1/2	235	110	55	13500
		2 1/4 - 4 1/2			3 - 3 1/2	250	115	58	14500
		2 1/2 - 4			3 1/4 - 3 1/4	260	120	60	21500
		2 3/4 - 4			3 1/2 - 3 1/4	270	124	62	25200
		3 - 4			3 3/4 - 3	280	128	65	29000
		3 1/4 - 3 1/2			4 - 3	295	132	72	33700
		3 1/2 - 3 1/4			4 1/4 - 2 7/8	300	134	76	40700
		3 3/4 - 3			4 1/2 - 2 7/8	310	136	80	46500
		4 - 3			4 3/4 - 2 3/4	325	138	84	53000
					5 - 2 3/4	335	140	88	63000
					5 1/4 - 2 5/8	350	142	92	71500
					5 1/2 - 2 5/8	360	144	95	79400
					5 3/4 - 2 1/2	370	146	98	92500
					6 - 2 1/2	380	150	100	104000
Angle of Thread		60°			60°				

STANDARD HAND TAPS

UNF. NS. BSF



Standard Hand Taps



Spiral Pointed Taps

**High Speed Steel
Tungsten Steel
ALLOY Steel**

Nominal Diameter In	Thread per Inch			Length		Shank Dia C (mm)	Weight per set (g)
	(u) NF	(u) NS	BSF	A (mm)	B (mm)		
1/16	3 - 56	64.72		36	13	3	12
3/32	4 - 48	56		42	16	3	12
1/8	5 - 44	40.44	44	46	18	4	15
5/32	6 - 40	32.36	36	52	20	5	20
3/16	8 - 36	24.32	32	60	22	5.5	30
7/32	10 - 32	24.32		60	22	5.5	35
1/4	12 - 28	24.32	26	62	24	6	40
9/32		28.32		62	24	6	60
5/16	24	32	22	70	30	6.1	70
3/8	24	32	20	75	35	7	75
7/16	20	28	18	80	38	8	110
1/2	20	32.28	16	85	42	9	135
9/16	18	27	16	90	42	10.5	185
5/8	18	32	14	95	45	12	250
11/16	16	11.16	14	95	45	12	350
3/4	16	32	12	105	50	14	380
7/8	14	12.18	11	115	55	17	600
1	12	14.20	10	125	60	20	830
1 1/8	12	18	9	135	65	22	1270
1 1/4	12	18	9	145	70	24	1610
1 3/8	12	18	8	155	75	26	1980
1 1/2	12	18	8	160	78	30	2740
1 5/8	12	5 1/2	8	170	82	32	3560
1 3/4	12	6	7	175	85	35	4080
1 7/8	12	5	7	185	90	38	4690
2	12	4	7	195	92	40	6130
2 1/4	12	4 1/2	6	210	100	45	8500
2 1/2			6	225	105	48	11100
2 3/4			6	235	110	55	13500
3			5	250	115	58	14500
3 1/4				260	120	60	21500
3 1/2				270	124	62	25200
3 3/4				280	128	65	29000
4				295	132	72	33700
4 1/4				300	134	76	40700
4 1/2				310	136	80	46500
4 3/4				325	138	84	53000
5				335	140	88	63000
5 1/4				350	142	92	71500
5 1/2				360	144	95	79400
5 3/4				370	146	98	92500
6				380	150	100	104000
Angle of Thread	60°	60°	55°				

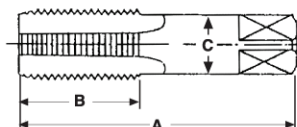
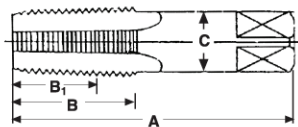
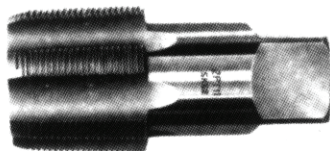
PIPE TAPS

ART No. 804P

BSP

ART No. 805PF

BSPF

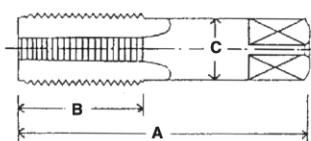
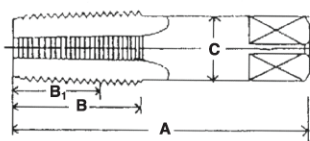
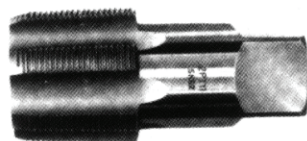


High Speed Steel
Tungsten Steel
Alloy Steel

IMPA SKS CS RC	Nominal Diameter in	Thread per in	Basic Pitch Diameter mm	Regular				IMPA SKS CS PT
				A(mm)	B(mm)	B(mm)	C(mm)	
631401	1/16	28	7.753	55	17.5	12	8	631451
631402	1/8	28	9.728	55	19	13	8	631452
631403	1/4	19	13.157	62	28	21	11	631453
631404	3/8	19	16.662	65	28	21	14	631454
631405	1/2	14	20.955	80	35	25	18	631455
631406	5/8	14	22.912	85	35	25	20	631456
631407	3/4	14	26.441	85	35	25	23	631457
631408	7/8	14	30.202	90	40	28	24	631458
631409	1	11	33.249	95	45	32	26	631459
631410	1 1/8	11	37.898	105	45	32	30	631460
631411	1 1/4	11	41.910	105	45	32	32	631461
631412	1 1/2	11	47.803	110	45	32	38	631462
631413	1 3/4	11	53.748	115	45	32	40	631463
631414	2	11	59.614	120	50	35	46	631464
631415	2 1/4	11	65.721	130	55	40	50	631465
631416	2 1/2	11	75.184	145	65	50	55	631466
631417	2 3/4	11	81.537	150	65	52	60	631467
631418	3	11	87.884	155	65	52	65	631468
631419	3 1/2	11	100.330	165	68	52	70	631469
631420	4	11	113.030	170	70	55	75	631470

ART No. 804PT

ART No. 805RC

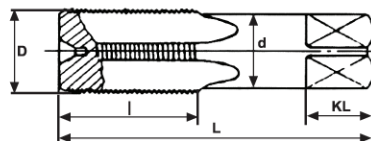


High Speed Steel
Tungsten Steel
Alloy Steel

IMPA SKS CS RC	IMPA SKS CS PT	Nominal Diameter In	Thread per In	Basic Pitch Diameter mm	Regular				IMPA HSS PT
					A(mm)	B(mm)	B(mm)	C(mm)	
631501		1/16	27	7.142	55	17.5	11.99	8	
631502	631516	1/8	27	9.489	55	19	12.03	8	631541
631503	631517	1/4	18	12.487	62	28	17.44	11	631542
631504	631518	3/8	18	15.926	65	28	17.63	14	631543
631505	631519	1/2	14	19.772	80	35	22.83	18	631544
631506	631520	3/4	14	25.117	85	35	22.96	23	631545
631507	631521	1	11 1/2	31.461	95	45	27.38	26	631546
631508	631522	1 1/4	11 1/2	40.218	105	45	28.09	32	631547
631509	631523	1 1/2	11 1/2	46.287	110	45	28.42	38	631548
631510	631524	2	11 1/2	58.325	120	50	28.02	46	631549
631511		2 1/2	8	70.159	145	65	40.82	55	
631512		3	8	86.068	155	65	42.95	65	
631513		3 1/2	8	98.776	165	68	44.68	70	
631514		4	8	111.433	170	70	45.57	75	

STRAIGHT PIPE TAPS FOR TAPER PIPE THREAD

Rp (ISO) and PS Type



How to order: IMPA

Straight Pipe Tap for taper pipe thread, MATERIAL, TYPE of THREAD, NOMINAL SIZE, PITCH mm

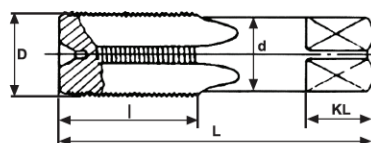
Carbon Steel

Unit Per Pc.

IMPA		Nominal Size	Thread Per 25.4 mm	Overall length mm	IMPA		Nominal Size	Thread Per 25.4 mm	Overall length mm
Carbon Steel	HSS	RP (ISO) Type			Carbon Steel	HSS	PS Type		
631551	631576	Rp 1/16	28	52	631566	631591	PS 1/8	28	55
631552	631577	RP 1/8	28	59	631567	631592	PS 1/4	19	62
631553	631578	RP 1/4	19	67	631568	631593	PS 3/8	19	65
631554	631579	RP 3/8	19	75	631569	631594	PS 1/2	14	80
631555	631580	RP 1/2	14	87					
631556	631581	RP 3/4	14	96	631570	631595	PS 3/4	14	85
631557	631582	RP 1	11	109	631571	631596	PS 1	11	95
631558	631583	RP 1 1/4	11	119	631572	631597	PS 1 1/4	11	105
631559	631584	RP 1 1/2	11	125	631573	631598	PS 1 1/2	11	110
631560	631585	RP 2	11	140	631574	631599	PS 2	11	120
631561	631586	RP 2 1/2	11	153					
631562	631587	RP 3	11	164					
631563	631588	RP 3 1/2	11	173					
631564	631589	RP 4	11	185					

STRAIGHT PIPE TAPS FOR STRAIGHT AMERICAN PIPE THREAD

NPS



Carbon Steel

IMPA	Nominal Size	Diameter mm D	Thread Per in	Length mm	
				Flute	Overall L
631601	NPS 1/8	10.117	27	19	55
631602	NPS 1/4	13.426	18	28	62
631603	NPS 3/8	16.866	18	28	65
631604	NPS 1/2	20.980	14	35	80
631605	NPS 3/4	26.325	14	35	85
631606	NPS 1	32.934	11-12	45	95

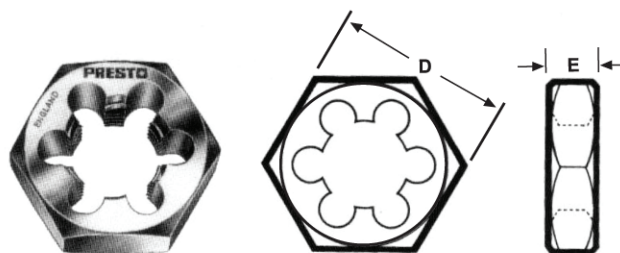
TAPER PIPE TAPS FOR TAPER AMERICAN PIPE THREAD

Carbon Steel

IMPA	Nominal Size	Diameter mm D	Thread Per in	Length mm	
				Flute	Overall L
631611	NPT 1/16	7.770	27	18	55
631612	NPT 1/8	10.117	27	19	55
631613	NPT 1/4	13.426	18	28	62
631614	NPT 3/8	16.866	18	28	65
631615	NPT 1/2	20.980	14	35	80
631616	NPT 3/4	26.325	14	35	85
631617	NPT 1	32.934	11 1/2	45	95
631618	NPT 1 1/4	41.689	11 1/2	45	105
631619	NPT 1 1/2	47.760	11 1/2	45	110
631620	NPT 2	59.797	11 1/2	50	120
631621	NPT 2 1/2	72.273	8	65	145
631622	NPT 3	88.184	8	65	155

HEXAGON DIE NUTS

BS 1127 (1950)



Diecut are for rethreading worn or rusty threads and are not intended for producing new threads on unthreaded bars, bolts or pipes.

Metric Coarse 64 404

Range M3 - M56
 Tolerance Class 6g
 Cutting Rake 3°
 Chamfer Lead 1.5 Threads
 Finish Bright

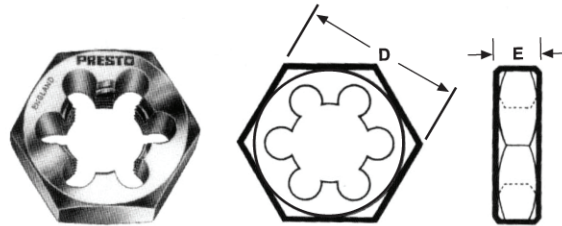
Metric Fine 64 414

Range M6 - M60
 Tolerance Class 6g
 Cutting Rake 3°
 Chamfer Lead 1.5 Threads
 Finish Bright

IMPA	Nom dia in	Pitch mm	D in	E in	Nom. dia in	D in	E in	Nom dia in	Pitch mm	D in	E in
612101	3 x 0.5		19/32	1/4	6 x 0.75	19/32	1/4	22 x 2.0		1 5/8	7/8
612102	3 x 0.6		19/32	1/4	7 x 0.75	19/32	1/4	24 x 1.0		1 13/16	1
612103	3.5 x 0.6		19/32	1/4	8 x 0.75	11/16	5/16	24 x 1.5		1 13/16	1
612104	4 x 0.7		19/32	1/4	8 x 1.0	11/16	5/16	24 x 2.0		1 13/16	1
612105	4 x 0.75		19/32	1/4	8 x 1.5	11/16	5/16	25 x 1.5		1 13/16	1
612106	4.5 x 0.75		19/32	1/4	9 x 0.75	7/8	3/8	26 x 1.5		2	1
612107	5.0 x 0.8		19/32	1/4	9 x 1.0	7/8	3/8	27 x 1.0		2	1
612108	5.0 x 0.9		19/32	1/4	10 x 0.75	7/8	3/8	27 x 1.5		2	1
612109	5.5 x 0.9		19/32	1/4	10 x 1.0	7/8	3/8	27 x 2.0		2	1
612110	6.0 x 1.0		19/32	1/4	10 x 1.25	7/8	3/8	28 x 1.5		2	1
612111	7.0 x 1.0		11/16	5/16	11 x 0.75	7/8	7/16	3.0 x 1.0		2	1
612112	8 x 1.25		11/16	5/16	11 x 1.0	7/8	7/16	3.0 x 1.5		2	1
611213	9 x 1.25		7/8	3/8	11 x 1.25	7/8	7/16	30 x 2.0		2	1
612114	10 x 1.5		7/8	3/8	12 x 1.0	1 1/16	1/2	32 x 1.5		2 3/16	1
612115	11 x 1.5		7/8	7/16	12 x 1.25	1 1/16	1/2	33 x 1.5		2 3/16	1
612116	12 x 1.75		1 1/16	1/2	12 x 1.5	1 1/16	1/2	33 x 2.0		2 3/16	1
612117	14 x 2.0		1 1/4	5/8	13 x 1.0	1 1/16	1/2	36 x 1.5		2 3/8	1
612118	16 x 2.0		1 1/4	5/8	13 x 1.5	1 1/16	1/2	36 x 2.0		2 3/8	1
612119	18 x 2.5		1 7/16	11/16	14 x 1.0	1 1/16	1/2	36 x 3.0		2 3/8	1
612120	20 x 2.5		1 7/16	11/16	14 x 1.25	1 1/16	1/2	39 x 1.5		2 9/16	1
612121	22 x 2.5		1 13/16	7/8	15 x 1.5	1 1/4	5/8	39 x 2.0		2 9/16	1
612122	24 x 3.0		1 13/16	7/8	16 x 1.0	1 7/16	11/16	39 x 3.0		2 9/16	1
62122A	25 x 3.0		2	1	16 x 1.25	1 7/16	11/16	40 x 1.5		2 9/16	1
62122B	26 x 3.0		2	1	16 x 1.5	1 7/16	11/16	42 x 1.5		3 1/8	1
612123	27 x 3.0		2	1	17 x 1.0	1 7/16	11/16	42 x 2.0		3 1/8	1
612124	30 x 3.5		2	1	17 x 1.5	1 7/16	11/16	42 x 3.0		3 1/8	1
612125	33 x 3.5		2 3/8	1	18 x 1.25	1 7/16	11/16	45 x 1.5		3 1/8	1
612126	35 x 3.5		2 3/8	1	18 x 1.5	1 7/16	11/16	45 x 2.0		3 1/8	1
612127	36 x 4.0		2 3/8	1	18 x 2.0	1 7/16	11/16	45 x 3.0		3 1/8	1
612128	38 x 4.0		2 9/16	1	19 x 1.5	1 7/16	11/16	48 x 1.5		3 1/8	1 1/4
612129	39 x 4.0		2 9/16	1	20 x 1.0	1 7/16	11/16	48 x 2.0		3 1/8	1 1/4
612130	40 x 4.0		3 1/8	1	20 x 1.5	1 7/16	11/16	48 x 3.0		3 1/8	1 1/4
	42 x 4.5		3 1/8	1 1/4	20 x 2.0	1 7/16	11/16	50 x 1.5		3 1/2	1 1/4
612130A	42 x 4.5		3 1/8	1 1/4	20 x 2.0	1 7/16	11/16	50 x 2.0		3 1/2	1 1/4
612130B	45 x 4.5		3 1/8	1 1/4	22 x 1.0	1 5/8	7/8	50 x 3.0		3 1/2	1 1/4
612130C	48 x 5.0		3 1/8	1 1/4	22 x 1.5	1 5/8	7/8	52 x 1.5		3 1/2	1 1/4
612130D	50 x 5.0		3 1/8	1 1/4	24 x 1.0	1 5/8	7/8	52 x 2.0		3 1/2	1 1/4
612130E	52 x 5.0		3 1/8	1 1/4				52 x 3.0		3 1/2	1 1/4
	55 x 5.0							56 x 3.0			
	56 x 5.5							56 x 4.0			
								60 x 3.0			

HEXAGON DIE NUTS

BS 1127 (1950)



BSW 64 444

Range 1.8" - 2 1/2"
Tolerance Class 2A
Cutting Rake 3°
Chamfer Lead 1.5 Threads
Finish Bright

UNF / NF 64 434

Range No. 10-1.1 / 2"
Tolerance Class 2A
Cutting Rake 3°
Chamfer Lead 1.5 Threads
Finish Bright

BSF 64 454

Range 3/16" - 2 1/2"
Tolerance Class Normal
Cutting Rake 3°
Chamfer Lead 1.5 Threads
Finish Bright

UNC / NC 64 424

Range No. 10-1.1 / 2"
Tolerance Class 2A
Cutting Rake 3°
Chamfer Lead 1.5 Threads
Finish Bright

IMPA	No. / Nom. dia in	tpi	D in	E in	Nom. dia. in	tpi	D in	E in	No./ dia. in	tpi	D in	E in	No/ Nominal dia in	tpi	D in	E in
632131	1/8	40	0.710	1/4	1/4	28	0.710	1/4	3/16	32	0.710	1/4	10	24	0.710	1/4
632132	3/16	24	0.710	1/4	5/16	24	0.820	5/16	1/4	26	0.710	1/4	1/4	20	0.710	1/4
632133	1/4	20	0.710	1/4	3/8	24	0.920	3/8	5/16	22	0.820	5/16	5/16	18	0.820	5/16
632134	5/16	18	0.820	5/16	7/16	20	1.010	7/16	3/8	20	0.920	3/8	3/8	16	0.920	3/8
632135	3/8	16	0.920	3/8	1/2	20	1.100	1/2	7/16	18	1.010	7/16	7/16	14	1.010	1/2
632136	7/16	14	1.010	7/16	9/16	18	1.300	5/8	1/2	16	1.100	1/2	1/2	13	1.100	1/2
632137	1/2	12	1.100	1/2	5/8	18	1.300	5/8	9/16	16	1.300	5/8	9/16	12	1.300	5/8
632138	9/16	12	1.300	5/8	3/4	16	1.480	11/16	5/8	14	1.300	5/8	5/8	11	1.300	5/8
632139	5/8	11	1.300	5/8	7/8	14	1.670	13/16	3/4	12	1.480	11/16	3/4	10	1.480	11/16
632140	3/4	10	1.480	11/16	1	12	2.050	15/16	7/8	11	1.670	13/16	7/8	9	1.670	13/16
632141	7/8	9	1.670	13/16	1 1/8	12	2.220	1 1/16	1	10	2.050	15/16	1	8	2.050	15/16
632142	1	8	2.050	15/16	1 1/4	12	2.220	1 1/16	1 1/8	9	2.220	1 1/16	1 1/8	7	2.220	1 1/16
632143	1 1/8	7	2.220	1 1/16	1 3/8	12	2.580	1 1/8	1 1/4	9	2.220	1 1/16	1 1/4	7	2.220	1 1/16
632144	1 1/4	7	2.220	1 1/16	1 1/2	12	2.760	1 1/4	1 3/8	8	2.580	1 1/8	1 3/8	6	2.580	1 1/8
632145	1 3/8	6	2.580	1 1/8	1 3/4	12	3.150	1 1/4	1 1/2	8	2.760	1 1/4	1 1/2	6	2.760	1 1/4
632146	1 1/2	6	2.760	1 1/4	2	12	3.150	1 3/4	1 5/8	8	2.760	1 1/4	1 5/8	5	2.760	1 1/4
632147	1 5/8	5	2.760	1 1/4	2 1/4	12	3.890	1 3/4	1 3/4	7	3.150	1 3/8	1 3/4	5	3.150	1 1/4
632148	1 3/4	5	3.150	1 1/4	2 1/2	12	4.530	1 3/4	1 7/8	7	3.150	1 3/8	1 7/8	4 1/2	3.150	1 1/4
632149	1 7/8	4 1/2	3.150	1 1/4	2 3/4	12	4.530	1 3/4	2	7	3.550	1 3/4	2	4 1/2	3.550	1 3/4
632150	2	4 1/2	3.550	1 3/4	3	12	4.530	1 3/4					2 1/4	4 1/2	3.890	1 3/4
632151	2 1/4	4	3.890	1 3/4									2 1/2	4	4.530	1 3/4
632152	2 1/2	4	4.530	1 3/4									2 3/4	4	4.530	1 3/4
632152	2 3/4	3 1/2	4.530	1 3/4									3	4	4.530	1 3/4
632153	3	3 1/2	4.530	1 3/4												

BSPF (G Series) 64 464

Range 1.8" - 2"
Tolerance Class Normal
Cutting Rake 3°
Chamfer Lead 1.5 Threads
Finish Bright

BSPT (R) 64 484

Range 1/8" - 2"
Cutting Rake 3°
Chamfer Lead 1.5 Threads
Finish Bright

NPT (API) 64 494

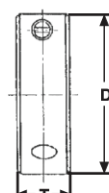
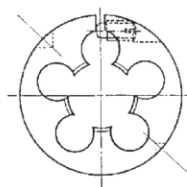
Range 1/8" - 2"
Cutting Rake 3°
Chamfer Lead 1.5 Threads
Finish Bright

IMPA	Nom dia in	tpi	D in	E in	IMPA	Nom. dia in	tpi	D in	E in	Nom dia in	tpi	D in	E in
612161	1/8	28	0.920	3/8	612176	1/8	28	0.920	3/8	1/8	27	0.920	3/8
612162	1/4	19	1.100	1/2	612177	1/4	19	1.100	1/2	1/4	18	1.100	1/2
612163	3/8	19	1.300	5/8	612178	3/8	19	1.300	5/8	3/8	18	1.300	5/8
612164	1/2	14	1.670	13/16	612179	1/2	14	1.670	13/16	1/2	14	1.670	13/16
612164A	5/8	14	1.670	13/16	612180	3/4	14	2.050	15/16	3/4	14	2.050	15/16
612165	3/4	14	2.050	15/16	612181	1	11	2.580	1 1/8	1	11 1/2	2.580	1 1/8
612165A	7/8	14	2.220	1 1/16	612182	1 1/4	11	2.760	1 1/4	1 1/4	11 1/2	2.760	1 1/4
612166	1	11	2.580	1 1/8	612183	1 3/8	11	2.760	1 3/8	1 1/2	11 1/2	3.150	1 1/4
612167	1 1/4	11	2.760	1 1/4	612184	1 1/2	11	3.150	1 1/4	2	11 1/2	3.890	1 1/4
612168	1 1/2	11	2.760	1 3/8	612185	1 3/4	11	3.150	1 3/4	2 1/4			
612169	1 3/4	11	3.150	1 1/4	612186	2	11	3.890	1 1/4	2 1/2			
612170	1 3/4	11	3.550	1 3/4		2 1/4	11	3.890	1 3/4	2 3/4			
612171	2	11	3.890	1 3/4		2 1/2	11	3.890	1 3/4	3			
	2 1/4		3.890	2		2 3/4	11	3.890	2				
	2 1/2		3.890	2		3	11	3.890	2				
	2 3/4		3.890	2 1/4									
	3		3.890	2 1/4									

ROUND DIES

Round Adjustable Dies

Metric Sizes



**High Speed Steel
Tungsten Steel
ALLOY Steel**

IMPA	METRIC COARSE
	Size x Pitch x Diameter
631701	M1.0 x 0.25mm x 20mm
631702	M1.1 x 0.25mm x 20mm
631703	M1.2 x 0.25mm x 20mm
631704	M1.4 x 0.30mm x 20mm
631705	M1.6 x 0.35mm x 20mm
631706	M1.7 x 0.35mm x 20mm
631707	M1.8 x 0.25mm x 20mm
631708	M2.0 x 0.40mm x 20mm/16mm
631709	M2.2 x 0.45mm x 20mm/16mm
631710	M2.3 x 0.40mm x 20mm/16mm
631711	M2.5 x 0.45mm x 20mm/16mm
631712	M2.6 x 0.45mm x 20mm/16mm
631713	M3.0 x 0.50mm x 20mm
631714	M3.5 x 0.60mm x 20mm
631715	M4.0 x 0.70mm x 20mm
631716	M4.5 x 0.75mm x 20mm
631717	M5.0 x 0.80mm x 20mm
631717A	M5.5 x 0.90mm x 20mm
631718	M6.0 x 1.00mm x 20mm
631719	M7.0 x 1.00mm x 25mm/20mm
631720	M8.0 x 1.25mm x 25mm/20mm
631721	M9.0 x 1.25mm x 25mm
631722	M10 x 1.50mm x 38mm/33mm
631723	M11 x 1.50mm x 38mm/33mm
613724	M12 x 1.75mm x 38mm/33mm
613725	M14 x 2.00mm x 38mm
613726	M16 x 2.00mm x 50mm/38mm
613727	M18 x 2.50mm x 50mm/38mm
631728	M20 x 2.50mm x 50mm
631729	M22 x 2.50mm x 50mm
631730	M24 x 3.00mm x 50mm
631731	M27 x 3.00mm x 63mm/50mm
631732	M30 x 3.50mm x 63mm/50mm
631733	M33 x 3.50mm x 63mm/75mm
631734	M36 x 4.00mm x 63mm/75mm
631735	M39 x 4.00mm x 75mm
631736	M42 x 4.00mm x 75mm

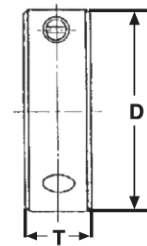
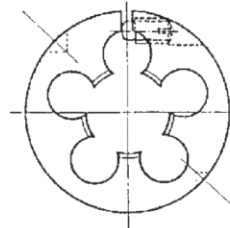
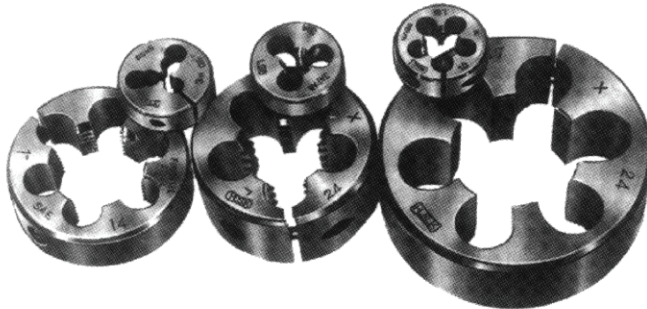
IMPA	METRIC FINE
	Size x Pitch x Diameter
631801	M1.0 x 0.20mm x 16mm
631802	M1.1 x 0.20mm x 16mm
631803	M1.2 x 0.20mm x 16mm
631804	M1.4 x 0.20mm x 16mm
631805	M1.6 x 0.20mm x 16mm
631806	M1.8 x 0.20mm x 16mm
631807	M2.0 x 0.25mm x 16mm/20mm
631808	M2.2 x 0.25mm x 16mm
631809	M2.5 x 0.35mm x 16mm
631810	M3.0 x 0.35mm x 20mm
631811	M3.5 x 0.35mm x 20mm
631812	M4.0 x 0.50mm x 20mm
631813	M4.5 x 0.50mm x 20mm
631814	M5.0 x 0.50mm x 20mm
631815	M5.5 x 0.50mm x 20mm
631816	M6.0 x 0.75mm x 20mm
631817	M7.0 x 0.75mm x 25mm/20mm
631818	M8.0 x 1.00mm x 25mm
631819	M8.0 x 0.75mm x 25mm
631820	M9.0 x 1.00mm x 25mm
631821	M9.0 x 0.75mm x 25mm
631822	M10 x 1.25mm x 38mm/33mm
631823	M10 x 1.00mm x 38mm/33mm
631824	M10 x 0.75mm x 38mm/33mm
631825	M11 x 1.00mm x 38mm/33mm
631826	M11 x 0.75mm x 38mm/33mm
631827	M12 x 1.50mm x 38mm/33mm
631828	M12 x 1.25mm x 38mm/33mm
631829	M12 x 1.00mm x 38mm
631830	M14 x 1.50mm x 38mm
631831	M14 x 1.00mm x 38mm
631832	M15 x 1.50mm x 50mm/38mm
631833	M15 x 1.00mm x 50mm/38mm
631834	M16 x 1.50mm x 50mm/38mm
631835	M16 x 1.00mm x 50mm/38mm
631836	M17 x 1.50mm x 50mm
631837	M17 x 1.00mm x 50mm
631838	M18 x 2.00mm x 50mm/38mm
631839	M18 x 1.50mm x 50mm/38mm
631840	M18 x 1.00mm x 50mm/38mm
631841	M20 x 2.00mm x 50mm
631842	M20 x 1.50mm x 50mm

IMPA	METRIC FINE
	Size x Pitch x Diameter
631843	M20 x 1.00mm x 50mm
631844	M22 x 2.00mm x 50mm
631845	M22 x 1.50mm x 50mm
631846	M22 x 1.00mm x 50mm
631847	M24 x 2.00mm x 50mm
631848	M24 x 1.50mm x 50mm
631849	M24 x 1.00mm x 50mm
631850	M25 x 2.00mm x 50mm/63mm
631851	M25 x 1.50mm x 50mm/63mm
631852	M25 x 1.00mm x 50mm/63mm
631853	M26 x 1.50mm x 63mm
631854	M27 x 2.00mm x 63mm
631855	M27 x 1.50mm x 63mm
631856	M27 x 1.00mm x 63mm
631857	M28 x 2.00mm x 63mm
631858	M28 x 1.50mm x 63mm
631859	M28 x 1.00mm x 63mm
631860	M30 x 3.00mm x 63mm
631861	M30 x 2.00mm x 63mm
631862	M30 x 1.50mm x 63mm
631863	M30 x 1.00mm x 63mm
631864	M32 x 2.00mm x 63mm
631865	M32 x 1.50mm x 63mm
631866	M33 x 3.00mm x 63mm
631867	M33 x 2.00mm x 63mm/75mm
631868	M33 x 1.50mm x 63mm/75mm
631869	M35 x 1.50mm x 63mm
631870	M36 x 3.00mm x 63mm
631871	M36 x 2.00mm x 63mm
631872	M36 x 1.50mm x 63mm
631873	M38 x 1.50mm x 63mm
631874	M39 x 3.00mm x 75mm
631875	M39 x 2.00mm x 75mm
631876	M39 x 1.50mm x 75mm
631877	M40 x 3.00mm x 75mm
631878	M40 x 2.00mm x 75mm
631879	M40 x 1.50mm x 75mm
631880	M42 x 4.00mm x 75mm
631881	M42 x 3.00mm x 75mm/100mm
631882	M42 x 2.00mm x 75mm/100mm
631883	M42 x 1.50mm x 75mm/100mm

ROUND DIES

Round Adjustable Dies
Inch Sizes
NC NF NS BSW BSF

**HIGH SPEED STEEL
TUNGSTEN STEEL
ALLOY STEEL**

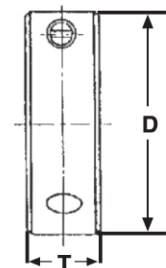
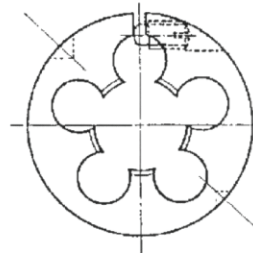


IMPA	(U)NC	IMPA	BSW	(U)NF	BSF	Outside Diameter and Thickness						
						13/16"(20) x 1/4	1"(25) x 3/8	1 5/16"(33) x 7/16	1 1/2"(38) x 1/2	2"(50) x 5/8	2 1/2"(63) x 3/4	3"(75) x 1
613101	1 - 64			1 - 72								
613102	2 - 56			2 - 64								
613103	3 - 48			3 - 56								
631904	4 - 40	631931	1/16 - 60	4 - 48		13/16	1					
631905	5 - 40	631932	3/32 - 48	5 - 44		13/16	1					
631906	6 - 32	631933	1/8 - 40	6 - 40	44	13/16	1	1 5/16	1 1/2			
631907	8 - 32	631934	5/32 - 32	8 - 36	36	13/16	1	1 5/16	1 1/2			
631908	10 - 24	631935	3/16 - 24	10 - 32	3/16 - 32	13/16	1	1 5/16	1 1/2			
631909	12 - 24	631936	7/32 - 24	12 - 28		13/16	1	1 5/16	1 1/2			
631910	1/4 - 20	631937	1/4 - 20		1/4 - 26	13/16	1	1 5/16	1 1/2			
	9/32 - 20		9/32 - 20	1/4 - 28			1	1 5/16	1 1/2	2		
631911	5/16 - 18	631938	5/16 - 18	5/16 - 24	5/16 - 22		1	1 5/16	1 1/2	2		
631912	3/8 - 16	631939	3/8 - 16	3/8 - 24	3/8 - 20		1	1 5/16	1 1/2	2		
631913	7/16 - 14	631940	7/16 - 14	7/16 - 20	7/16 - 18		1	1 5/16	1 1/2	2		
631914	1/2 - 13	631941	1/2 - 12	1/2 - 20	1/2 - 16		1	1 5/16	1 1/2	2	2 1/2	
631915	9/16 - 12	631942	9/16 - 12	9/16 - 18	9/16 - 16				1 1/2	2	2 1/2	
631916	5/8 - 11	631943	5/8 - 11	5/8 - 18	5/8 - 14				1 1/2	2	2 1/2	
	11/16 - 11		11/16 - 11	11/16 - 16	11/16 - 14				1 1/2	2	2 1/2	
631917	3/4 - 10	631944	3/4 - 10	3/4 - 16	3/4 - 12				1 1/2	2	2 1/2	
631918	7/8 - 9	631945	7/8 - 9	7/8 - 14	7/8 - 11					2	2 1/2	3
631919	1 - 8	631946	1 - 8	1 - 12	1 - 10					2	2 1/2	3
631920	1 1/8 - 7		1 1/8 - 7	1 1/8 - 12	1 1/8 - 9						2 1/2	3
631921	1 1/4 - 7		1 1/4 - 7	1 1/4 - 12	1 1/4 - 9						2 1/2	3
631922	1 3/8 - 6		1 3/8 - 6	1 3/8 - 12	1 3/8 - 8						2 1/2	3
631923	1 1/2 - 6		1 1/2 - 6	1 1/2 - 12	1 1/2 - 8						2 1/2	3
631924	1 5/8 - 5		1 5/8 - 5		1 5/8 - 8							3
631925	1 3/4 - 5		1 3/4 - 5		1 3/4 - 7							3
631926	1 7/8 - 4 1/2		1 7/8 - 4 1/2		1 7/8 - 7							3
631927	2 - 4 1/2		2 - 4 1/2		2 - 7							3
631928	2 1/4 - 4 1/2		2 1/4 - 4		6							
631929	2 1/2 - 4		2 1/2 - 4		6							
631930	2 3/4 - 4		2 3/4 - 3 1/2		6							
631930A	3 - 4		3 - 3 1/2		5							
Angle of Thread	60°		55°	55°	12(g)	25(g)	80(g)	90(g)	180(g)	330(g)	600(g)	600(g)

ROUND DIES

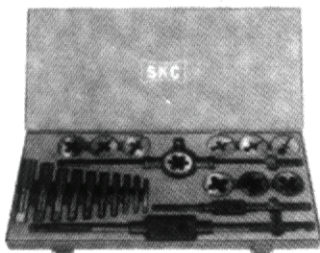
Gas Pipe Round Adjustable Dies
PF PT NPS NPT

HIGH SPEED STEEL
TUNGSTEN STEEL
ALLOY STEEL



IMPA PF	IMPA PT	IMPA NPS	IMPA NPT	Cutting Size per inch	Thread to in PF/PT	Thread to in NPS/NPT	Outside Diameter and Thickness						
							1 x 3/8	1 1/2 x 1/2	2 x 5/8	2 1/4 x 3/4	2 1/2 x 3/4	3 x 1	4 x 1 3/16
632001	632021			1/16	28	27	1	1 1/2					
632002	632022	632041	632051	1/8	28	27	1	1 1/2					
632003	632023	632042	632052	1/4	19	18		1 1/2	2				
632004	632024	632043	632053	3/8	19	18		1 1/2	2				
632005	632025	632044	632054	1/2	14	14		1 1/2	2	2 1/4			
632006				5/8	14	14			2	2 1/4			
632007	632026	632045	632055	3/4	14	14			2	2 1/4	2 1/2		
632008				7/8	14	11 1/2				2 1/4	2 1/2	3	
632009	632027	632046	632056	1	11	11 1/2				2 1/4	2 1/2	3	4
632010				1 1/8	11	11 1/2					2 1/2	3	4
632011	632028	632047	632057	1 1/4	11	11 1/2					2 1/2	3	4
632012	632029			1 1/2	11	11 1/2						3	4
632013				1 3/4	11	11 1/2							4
632014	632030			2	11	11 1/2							4
632015				2 1/4	11	11 1/2							
				2 1/2	11	8							
				2 3/4	11	8							
				3	11	8							
				3 1/4	11	8							
				3 1/2	11	8							
				3 3/4	11	8							
				4	11	8							

“OK” TYPE TAP & DIE SET

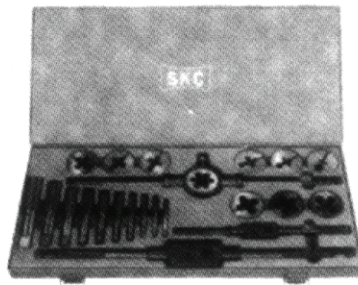


**ALL STRONG METAL CASE
INTERNATIONAL STANDARD
BUTTON DIE TYPE & OK TYPE
(ABS PLASTIC TRAY)**

IMPA	632205	632206	632207	632208	632209	632210	632211	632212	632213	632214	632215
Set No.	D 413	D47	D 47 1/2	D48	F46	F48	M10	M11	M12	M13	M14
Cutting Size & Thread Per Inch	M1 x 0.25	M2 x 0.4	M3 x 0.5	M2 x 0.4	M4 x 0.75	M3 x 0.6	M2 x 0.4	M5 x 0.8	M6 x 1.0	M6 x 1.0	M10 x 1.50
	M1.2 x 0.25	M2.5 x 0.45	M3.6 x 0.6	M2.5 x 0.45	M5 x 0.9	M4 x 0.75	M2.5 x 0.45	M5.5 x 0.9	M7 x 1.0	M7 x 1.0	M11 x 1.50
	M1.4 x 0.3	M3 x 0.5	M4 x 0.7	M3 x 0.5	M6 x 1.0	M5 x 0.9	M3 x 0.5	M6 x 1.0	M8 x 1.25	M8 x 1.25	M12 x 1.75
	M1.7 x 0.35	M3.5 x 0.6	M4.5 x 0.75	M3.5 x 0.6	M8 x 1.25	M6 x 1.0	M3.5 x 0.6	M7 x 1.0	M9 x 1.25	M9 x 1.25	M13 x 1.75
	M2 x 0.4	M4 x 0.7	M5 x 0.8	M4 x 0.7	M10 x 1.50	M7 x 1.0	M4 x 0.7	M8 x 1.25	M10 x 1.50	M10 x 1.50	M14 x 2.0
	M2.3 x 0.4	M5 x 0.8	M5.5 x 0.9	M4.5 x 0.75	M12 x 1.75	M8 x 1.25	M4.5 x 0.75	M9 x 1.25	M11 x 1.50	M11 x 1.50	M16 x 2.0
One Plug Tap & One Round Die Each pc	M2.6 x 0.45	M6 x 1.0	M6 x 1.0	M5 x 0.80		M9 x 1.25	M5 x 0.8	M10 x 1.50	M12 x 1.75	M12 x 1.75	M18 x 2.5
	M3 x 0.5			M6 x 1.0		M10 x 1.50	M5.5 x 0.9		M14 x 2.0	M14 x 2.0	M20 x 2.5
	M3.5 x 0.6			M7 x 1.0			M6 x 1.0		M16 x 2.0	M16 x 2.0	M22 x 2.5
	M4 x 0.7									M18 x 2.5	M24 x 3.0
	M4.5 x 0.75									M20 x 2.5	M26 x 3.0
	M5 x 0.8										
	M5.5 x 0.9										
Dies Diameter Inch	13/16"	13/16"	13/16"	13/16"	1"	1"	1"	1"	1 1/2"	2"	2"
Stock Length	6 1/2	6 1/2	6 1/2	6 1/2	7 1/2	7 1/2	7 1/2	7 1/2	12	20	20
Tap Wrench No.	0#	0#	0#	0#	4#	4#	0#	4#	6#	6#	5# 7#
Net Weight	2.3 kg	1.5 kg	1.5 kg	1.6 kg	1.8 kg	1.9 kg	1.6 kg	1.9 kg	4.0 kg	6.5 kg	13 kg
Per Case	20	20	20	20	20	20	20	20	10	5	3

IMPA	632201	632202	632203	632204				
Set No.	OK 41	OK 45	OK 47	OK100	OK 41 1/2	OK 45 1/2	OK 47 1/2	OK 100 1/2
Cutting Size & Thread Per Inch	M6 x 1.0	M6 x 1.0	M6 x 1.0	M6 x 1.0	M6 x 0.75	M6 x 0.75	M6 x 0.75	M6 x 0.75
	M7 x 1.0	M8 x 1.25	M8 x 1.25	M8 x 1.25	M7 x 0.75	M8 x 1.0	M8 x 1.0	M8 x 1.0
	M8 x 1.25	M10 x 1.50	M10 x 1.50	M10 x 1.5	M8 x 1.0	M10 x 1.25	M10 x 1.25	M10 x 1.25
	M10 x 1.50	M12 x 1.75	M12 x 1.75	M12 x 1.75	M10 x 1.25	M12 x 1.50	M12 x 1.50	M12 x 1.50
	M12 x 1.75	M14 x 2.0	M14 x 2.0	M14 x 2.0	M12 x 1.5	M14 x 1.50	M14 x 1.50	M14 x 1.50
		M16 x 2.0	M16 x 2.0	M16 x 2.0		M16 x 1.50	M16 x 1.50	M16 x 1.50
One Plug Tap & One Round Die Each pc		M18 x 2.5	M18 x 2.5	M18 x 2.5		M18 x 1.50	M18 x 1.50	M18 x 1.50
			M20 x 2.5	M20 x 2.5			M20 x 1.50	M20 x 1.50
			M22 x 2.5	M22 x 2.5			M22 x 1.50	M22 x 1.50
			M24 x 3.0	M24 x 3.0			M24 x 1.50	M24 x 1.50
				M26 x 3.0				M26 x 1.50
				M28 x 3.0				M28 x 1.50
				M30 x 3.5				M30 x 1.50
Dies Diameter Inch	1 1/2"	2"	2"	2"	1 1/2"	2"	2"	2"
Stock Length	12"	20"	20"	24"	12"	20"	20"	24"
Tap Wrench No.	5	6	5 & 7	6 & 7 1/2	5	6	5 & 7	6 & 7 1/2
Net Weight	2.5 Kg	4.5 Kg	6.5 Kg	15.7 Kg	2.5 Kg	5.5 Kg	80 Kg	19.8 Kg
Per Case	10	5	5	3	10	5	5	3

“OK” TYPE TAP & DIE SET



**ALLOY STEEL
TUNGSTEN STEEL
HIGH SPEED STEEL**

**BSW THREAD
UNC THREAD**

IMPA	632231	632232	632233	632235	632236	632237	632238
Set No.	OK" 1	OK" 2	OK" 5	OK" 7	OK" 7 1/2	OK" 40	OK" 50
Cutting Size & Thread Per Inch	1/4 - 20	1/4 - 20	1/4 - 20	1/4 - 20	1/4 - 20	1/4 - 20	1/4 - 20
	5/16 - 18		5/16 - 18	5/16 - 18	5/16 - 18	5/16 - 18	5/16 - 18
	3/8 - 16	3/8 - 16	3/8 - 16	3/8 - 16	3/8 - 16	3/8 - 16	3/8 - 16
	7/16 - 14		7/16 - 14	7/16 - 14	7/16 - 14	7/16 - 14	7/16 - 14
	1/2 - 12	1/2 - 12	1/2 - 12	1/2 - 12	1/2 - 12	1/2 - 12	1/2 - 12
One Plug Tap & One Round Die					9/16 - 12		5/8 - 11
		5/8 - 11	5/8 - 11	5/8 - 11	5/8 - 11	5/8 - 11	3/4 - 10
		3/4 - 10	3/4 - 10	3/4 - 10	3/4 - 10	3/4 - 10	7/8 - 9
				7/8 - 9	7/8 - 9	7/8 - 9	1 - 8
				1 - 8	1 - 8	1 - 8	1 1/8 - 7
						1 1/8 - 7	1 1/4 - 7
						1 1/4 - 7	1 3/8 - 6
							1 1/2 - 6
Dies Diameter Inch	1 1/2"	2"	2"	2"	2"	2" 2 1/2"	2" 3"
Stock Length	12"	20"	20"	20"	20"	20" 24"	20" 26"
Tap Wrench No.	5	6	6	5 & 7	5 & 7	7 & 7 1/2	6 & 8
Net Weight	2.0 Kg	3.6 Kg	4.0 Kg	5.5 Kg	6.0 Kg	14.8 Kg	20 Kg

IMPA	632241	632242	632243	632245	632246	632247	632248
Set No.	OK" 101	OK"102	OK" 105	OK" 107	OK" 107 1/2	OK" 104	OK" 150
Cutting Size & Thread Per Inch	1/4 - 20	1/4 - 20	1/4 - 20	1/4 - 20	1/4 - 20	1/4 - 20	1/4 - 20
	5/16 - 18		5/16 - 18	5/16 - 18	5/16 - 18	5/16 - 18	5/16 - 18
	3/8 - 16	3/8 - 16	3/8 - 16	3/8 - 16	3/8 - 16	3/8 - 16	3/8 - 16
	7/16 - 14		7/16 - 14	7/16 - 14	7/16 - 14	7/16 - 14	7/16 - 14
	1/2 - 12	1/2 - 12	1/2 - 12	1/2 - 12	1/2 - 12	1/2 - 12	1/2 - 12
Taper & Plug & Bottoming Tap & One Round Die					9/16 - 12	5/8 - 11	5/8 - 11
		5/8 - 11	5/8 - 11	5/8 - 11	5/8 - 11	3/4 - 10	3/4 - 10
		3/4 - 10	3/4 - 10	3/4 - 10	3/4 - 10	7/8 - 9	7/8 - 9
				7/8 - 9	7/8 - 9	1 - 8	1 - 8
				1 - 8	1 - 8	1 1/8 - 7	1 1/8 - 7
						1 1/4 - 7	1 1/4 - 7
							1 3/8 - 6
							1 1/2 - 6
Dies Diameter Inch	1 1/2"	2"	2"	2"	2"	2" 2 1/2"	2" 3"
Stock Length	12"	20"	20"	20"	20"	20" 24"	20" 26"
Tap Wrench No.	5	6	6	5 & 7	5 & 7	6 & 7 1/2	6 & 8
Net Weight	2.7 Kg	5.8 Kg	7.0 Kg	9.0 Kg	11.7 Kg	20.8 Kg	31.5 Kg