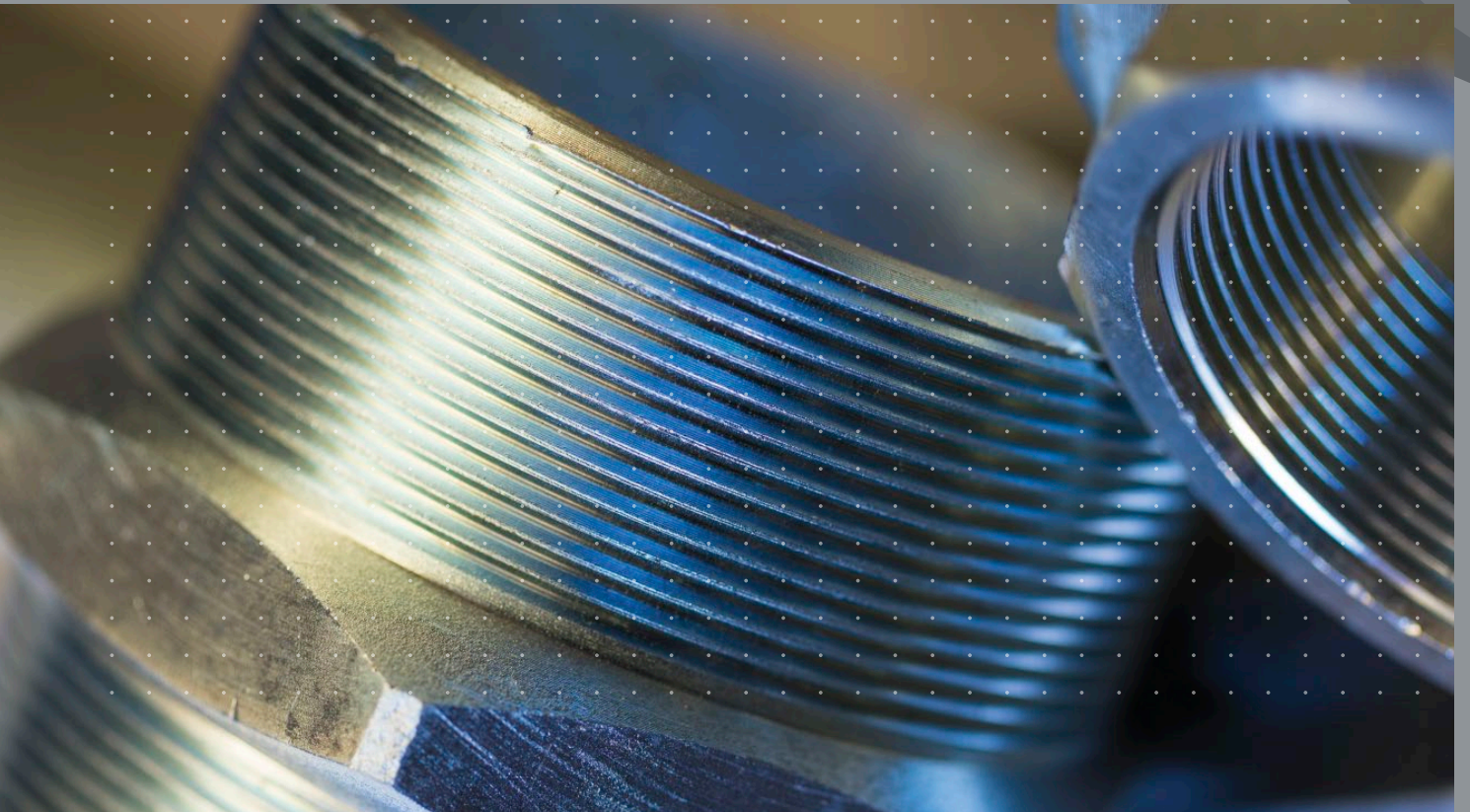


04

THREADED
FITTINGS

THREADED FITTINGS



04 :: Threaded Fittings

NPT THREAD SIZES

SIZE (inches)	TPI (threads per inch)	PITCH (inches or mm)	APPROXIMATE LENGTH OF THREAD (inches or mm)	APPROXIMATE NUMBER OF THREADS TURNS TO BE CUT	APPROXIMATE TOTAL THREAD MAKEUP, HAND AND WRENCH (inches or mm)	NOMINAL OUTSIDE PIPE DIAMETER OD (inches or mm)	TAP DRILL (inches or mm)
1/16	27	0.03703704 in or 0.9407 mm				0.313 in or 7.950 mm	
1/8	27	0.03703704 in or 0.9407 mm	3/8 in or 9.525 mm	10	1/4 in or 6.350 mm	0.405 in or 10.287 mm	0.339 in or 8.6106 mm
1/4	18	0.0555 in or 1.4097 mm	5/8 in or 15.875 mm	11	3/8 in or 9.525 mm	0.540 in or 13.716 mm	7/16 in or 11.113 mm
3/8	18	0.05555555 in or 1.4111 mm	5/8 in or 15.875 mm	11	3/8 in or 9.525 mm	0.675 in or 17.145 mm	37/64 in or 14.684 mm
1/2	14	0.07142857 in or 1.8143 mm	3/4 in or 19.0500 mm	10	7/16 in or 11.1125 mm	0.840 in or 21.3360 mm	23/32 in or 18.2563 mm
3/4	14	0.07142857 in or 1.8143 mm	3/4 in or 19.0500 mm	10	1/2 in or 12.7000 mm	1.050 in or 26.6700 mm	59/64 in or 23.4156 mm
1	11/01/02	0.08695652 in or 2.2087 mm	7/8 in or 22.2250 mm	10	9/16 in or 14.2875 mm	1.315 in or 33.4010 mm	1 5/32 in or 29.3688 mm
1 1/4	11/01/02	0.08695652 in or 2.2087 mm	1 in or 25.4000 mm	11	9/16 in or 14.2875 mm	1.660 in or 42.1640 mm	1 1/2 in or 38.1000 mm
1 1/2	11/01/02	0.08695652 in or 2.2087 mm	1 in or 25.4000 mm	11	9/16 in or 14.2875 mm	1.900 in or 48.2600 mm	1 47/64 in or 44.0531 mm
2	11/01/02	0.08695652 in or 2.2087 mm	1 in or 25.4000 mm	11	5/8 in or 15.8750 mm	2.375 in or 60.3250 mm	2 7/32 in or 56.3563 mm
2 1/2	8	0.125 in or 3.1750 mm	1 1/2 in or 38.1000 mm	12	7/8 in or 22.2250 mm	2.875 in or 73.0250 mm	2 5/8 in or 66.6750 mm
3	8	0.125 in or 3.1750 mm	1 1/2 in or 38.1000 mm	12	1 in or 25.4000 mm	3.500 in or 88.9000 mm	3 1/4 in or 82.5500 mm
3 1/2	8	0.125 in or 3.1750 mm	1 5/8 in or 15.8750 mm	13	1 1/16 in or 26.9875 mm	4.000 in or 101.6000 mm	3 3/4 in or 95.2500 mm
4	8	0.125 in or 3.1750 mm	1 5/8 in or 41.2750 mm	13	1 1/16 in or 26.9875 mm	4.500 in or 114.3000 mm	4 1/4 in or 107.9500 mm
4 1/2	8	0.125 in or 3.1750 mm				5.000 in or 127.0000 mm	4 3/4 in or 120.6500 mm
5	8	0.125 in or 3.1750 mm	1 3/4 in or 44.4500 mm	14	1 3/16 in or 30.1625 mm	5.563 in or 141.3002 mm	5 9/32 in or 134.1438 mm
6	8	0.125 in or 3.1750 mm	1 3/4 in or 44.4500 mm	14	1 3/16 in or 30.1625 mm	6.625 in or 168.2750 mm	6 11/32 in or 161.1313 mm

BRITISH STANDARD THREAD SIZES

DASH THREAD SIZE	BSP SIZE (in)	THREAD PITCH		THREAD MAJOR DIAMETER		THREAD MINOR DIAMETER ^{[3][4]}		A/F (mm)	GAUGE LENGTH (mm)	CORRESPONDING PIPE				TAPPING DRILL SIZE (mm)	
		/in (TPI)	(mm)	(mm)	(in)	(mm)	(in)			DN (mm)	OD (mm)	OD (in)	Thickness (mm)	BSP.PL (Rp)	BSP.F (G)
-1	1/16	28	0.907	7.723	0.304	6.561	0.2583		4±0.9					6.6	6.8
-2	1/8	28	0.907	9.728	0.383	8.565	0.3372	15	4±0.9	6	10.2	0.4	2	8.6	8.8
-4	1/4	19	1.337	13.157	0.518	11.445	0.4506	19	6±1.3	8	13.5	0.53	2.3	11.5	11.8
-6	3/8	19	1.337	16.662	0.656	14.95	0.5886	22 / 23	6.4±1.3	10	17.2	0.68	2.3	15	15.25
-8	1/2	14	1.814	20.955	0.825	18.633	0.7336	27	8.2±1.8	15	21.3	0.84	2.6	18.75	19
-10	5/8	14	1.814	22.911	0.902	20.589	0.8106			16			2.6	-	21
-12	3/4	14	1.814	26.441	1.041	24.12	0.9496	32	9.5±1.8	20	26.9	1.06	2.6	24.25	24.5
-16	1	11	2.309	33.249	1.309	30.292	1.1926	43	10.4±2.3	25	33.7	1.33	3.2	30.4	30.75
-20	1 1/4	11	2.309	41.91	1.65	38.953	1.5336	53	12.7±2.3	32	42.4	1.67	3.2	39	39.5
-24	1 1/2	11	2.309	47.803	1.882	44.846	1.7656	57	12.7±2.3	40	48.3	1.9	3.2	45	45
-32	2	11	2.309	59.614	2.347	56.657	2.2306	70	15.9±2.3	50	60.3	2.37	3.6	56.75	57
-40	2 1/2	11	2.309	75.184	2.96	72.227	2.8436		17.5±3.5	65	76.1	3	3.6		
-48	3	11	2.309	87.884	3.46	84.927	3.3436		20.6±3.5	80	88.9	3.5	4		
-64	4	11	2.309	113.03	4.45	110.073	4.3336		25.5±3.5	100	114.3	4.5	4.5		
-80	5	11	2.309	138.43	5.45	135.472	5.3335		28.6±3.5	125	139.7	5.5	5		
-96	6	11	2.309	163.83	6.45	160.872	6.3335		28.6±3.5	150	165.1	6.5	5		

04.1 :: Elbows



Elbows 90° FEMALE / FEMALE

SIZE (mm)	GAL MAL	BLACK STEEL	GALV STEEL	BRONZE	POLY	STAINLESS STEEL 316 BSP	STAINLESS STEEL 316 NPT
3		I377 0006	I377 GS006	I505 0006		I641 006	I641 NPT006
6	477 0008	I377 0008	I377 GS008	I505 0008		I641 008	I641 NPT008
10	477 0010	I377 0010	I377 GS010	I505 0010		I641 010	I641 NPT010
15	477 0015	I377 0015	I377 GS015	I505 0015	676 0015	I641 015	I641 NPT015
20	477 0020	I377 0020	I377 GS020	I505 0020	676 0020	I641 020	I641 NPT020
25	477 0025	I377 0025	I377 GS025	I505 0025	676 0025	I641 025	I641 NPT025
32	477 0032	I377 0032	I377 GS032	I505 0032	676 0032	I641 032	I641 NPT032
40	477 0040	I377 0040	I377 GS040	I505 0040	676 0040	I641 040	I641 NPT040
50	477 0050	I377 0050	I377 GS050	I505 0050	676 0050	I641 050	I641 NPT050
65	477 0065	I377 0065	I377 GS065	I505 0065	676 0065	I641 065	I641 NPT065
80	477 0080	I377 0080	I377 GS080	I505 0080	676 0080	I641 080	I641 NPT080
100	477 0100	I377 0100	I377 GS100	I505 0100	676 0100	I641 100	I641 NPT100



Elbows 90° MALE / FEMALE

SIZE (mm)	GAL MAL	BLACK STEEL	GALV STEEL	BRONZE	POLY	STAINLESS STEEL 316 BSP	STAINLESS STEEL 316 NPT
3		I378 0006	I378 GS006	I506 0006		I641 1006	I641 NPT1006
6	478 0008	I378 0008	I378 GS008	I506 0008		I641 1008	I641 NPT1008
10	478 0010	I378 0010	I378 GS010	I506 0010		I641 1010	I641 NPT1010
15	478 0015	I378 0015	I378 GS015	I506 0015	677 0015	I641 1015	I641 NPT1015
20	478 0020	I378 0020	I378 GS020	I506 0020	677 0020	I641 1020	I641 NPT1020
25	478 0025	I378 0025	I378 GS025	I506 0025	677 0025	I641 1025	I641 NPT1025
32	478 0032	I378 0032	I378 GS032	I506 0032	677 0032	I641 1032	I641 NPT1032
40	478 0040	I378 0040	I378 GS040	I506 0040	677 0040	I641 1040	I641 NPT1040
50	478 0050	I378 0050	I378 GS050	I506 0050	677 0050	I641 1050	I641 NPT1050
65	478 0065	I378 0065	I378 GS065	I506 0065	677 0065	I641 1065	I641 NPT1065
80	478 0080	I378 0080	I378 GS080	I506 0080	677 0080	I641 1080	I641 NPT1080
100	478 0100	I378 0100	I378 GS100	I506 0100	677 0100	I641 1100	I641 NPT1100

Elbows 45° MALE /FEMALE

SIZE (inches)	STAINLESS STEEL 316	GAL MAL
1/8	I641 45M06	
1/4	I641 45M08	
3/8	I641 4M510	
1/2	I641 45M15	478 4515
3/4	I641 45M20	478 4520
1	I641 45M25	478 4525
1 1/4	I641 45M32	478 4532
1 1/2	I641 45M40	478 4540
2	I641 45M50	
2 1/2	I641 45M65	
3	I641 45M80	
4	I641 45M100	



Elbows 45° FEMALE / FEMALE

SIZE (mm)	GAL MAL	BLACK STEEL	GALV STEEL	BRONZE	POLY	SIZE (inches)	STAINLESS STEEL 316
15	477 4515		I377 GS4515	I505 4515		1/8	I641 4506
20	477 4520		I377 GS4520	I505 4520		1/4	I641 4508
25	477 4525	I377 4525	I377 GS4525	I505 4525		3/8	I641 4510
32	477 4532		I377 GS4532	I505 4532		1/2	I641 4515
40	477 4540		I377 GS4540	I505 4540		3/4	I641 4520
50	477 4550	I377 4550	I377 GS4550			1	I641 4525
65	477 4565					1 1/4	I641 4532
80	477 4580					1 1/2	I641 4540
100	477 45100					2	I641 4550
						2 1/2	I641 4565
						3	I641 4580
						4	I641 45100



04.2 :: Tees & Sockets



Equal Tees FEMALE / FEMALE

SIZE (mm)	GAL MAL	BLACK STEEL	GALVANISED STEEL	BRONZE	POLY	STAINLESS STEEL 316 BSP	STAINLESS STEEL 316 NPT	BRASS MALE TEE	BRASS FEMALE TEE BLOCK
3		I379 0006	I379 GS006	I512 0006		I639 006			512 TH03
6	479 0008	I379 0008	I379 GS008	I512 0008		I639 008	I639 NPT008	512 MT006	512 TH06
10	479 0010	I379 0010	I379 GS010	I512 0010		I639 010	I639 NPT010	512 MT010	512 TH10
15	479 0015	I379 0015	I379 GS015	I512 0015	675 0015	I639 015	I639 NPT015	512 MT015	
20	479 0020	I379 0020	I379 GS020	I512 0020	675 0020	I639 020	I639 NPT020		
25	479 0025	I379 0025	I379 GS025	I512 0025	675 0025	I639 025	I639 NPT025		
32	479 0032	I379 0032	I379 GS032	I512 0032	675 0032	I639 032	I639 NPT032		
40	479 0040	I379 0040	I379 GS040	I512 0040	675 0040	I639 040	I639 NPT040		
50	479 0050	I379 0050	I379 GS050	I512 0050	675 0050	I639 050	I639 NPT050		
65	479 0065	I379 0065	I379 GS 065	I512 0065	675 0065	I639 065			
80	479 0080	I379 0080	I379 GS080	I512 0080	675 0080	I639 080			
100	479 100	I379 0100	I379 GS100	I512 0100	675 0100	I639 100			



Equal Sockets FEMALE / FEMALE

SIZE (mm)	GAL MAL	BLACK STEEL	GALVANISED STEEL	BRONZE	POLY	STAINLESS STEEL BSP	STAINLESS STEEL BSP HEAVY	STAINLESS STEEL 316 NPT
3		I380 0006	I380 GS006	I510 0006	673 0006	I646 006		
6	480 0008	I380 0008	I380 GS008	I510 0008	673 0008	I646 008		I645 NPT008
10	480 0010	I380 0010	I380 GS010	I510 0010	673 0010	I646 010		I645 NPT010
15	480 0015	I380 0015	I380 GS015	I510 0015	673 0015	I646 015	I646 H015	I645 NPT015
20	480 0020	I380 0020	I380 GS020	I510 0020	673 0020	I646 020	I646 H020	I645 NPT020
25	480 0025	I380 0025	I380 GS025	I510 0025	673 0025	I646 025	I646 H025	I645 NPT025
32	480 0032	I380 0032	I380 GS032	I510 0032	673 0032	I646 032	I646 H032	I645 NPT032
40	480 0040	I380 0040	I380 GS040	I510 0040	673 0040	I646 040	I646 H038	I645 NPT040
50	480 0050	I380 0050	I380 GS050	I510 0050	673 0050	I646 050	I646 H050	I645 NPT050
65	480 0065	I380 0065	I380 GS 065	I510 0065	673 0065	I646 065	I646 H065	
80	480 0080	I380 0080	I380 GS080	I510 0080	673 0080	I646 080	I646 H080	
100	480 0100	I380 0100	I380 GS100	I510 0100	673 100	I646 100	I646 H100	
125		I380 0125						
150	480 0150	I380 0150						



Hex Nipples MALE / MALE

SIZE (mm)	GAL MAL	BLACK STEEL	GALVANISED STEEL	BRONZE	POLY	STAINLESS STEEL 316 BSP	STAINLESS STEEL BSP HEAVY	STAINLESS STEEL 316 NPT	BRASS FEMALE TEE BLOCK
3	481 0006	I381 0006	I381 GS006		672 0006	I644 006	I644 H006		512 TH03
6	481 0008	I381 0008	I381 GS008	I508 0008	672 0008	I644 008	I644 H008	I644 NPT008	512 TH06
10	481 0010	I381 0010	I381 GS010	I508 0010	672 0010	I644 010	I644 H010	I644 NPT010	512 TH10
15	481 0015	I381 0015	I381 GS015	I508 0015	672 0015	I644 015	I644 H015	I644 NPT015	
20	481 0020	I381 0020	I381 GS020	I508 0020	672 0020	I644 020	I644 H020	I644 NPT020	
25	481 0025	I381 0025	I381 GS025	I508 0025	672 0025	I644 025	I644 H025	I644 NPT025	
32	481 0032	I381 0032	I381 GS032	I508 0032	672 0032	I644 032	I644 H032	I644 NPT032	
40	481 0040	I381 0040	I381 GS040	I508 0040	672 0040	I644 040	I644 H040	I644 NPT040	
50	481 0050	I381 0050	I381 GS050	I505 0050	672 0050	I644 050	I644 H050	I644 NPT050	
65	481 0065	I381 0065	I381 GS065	I508 0065	672 0065	I644 065	I644 H065	I644 NPT065	
80	481 0080	I381 0080	I381 GS080	I508 0080	672 0080	I644 080	I644 H080	I644 NPT080	
100	481 0100	I381 0100	I381 GS100	I508 0100	672 0100	I644 100	I644 H100	I644 NPT100	
125	481 0125					I644 125		I644 NPT125	
150	481 0150					I644 150		I644 NPT150	

Barrel Nipples MALE / MALE

SIZE (mm)	BLACK STEEL	STAINLESS STEEL 316 BSP
06		I642 006
08		I642 008
10		I642 010
15	I342 0015	I642 015
20	I342 0020	I642 020
25	I342 0025	I642 025
32	I342 0032	I642 032
40	I342 0040	I642 040
50	I342 0050	I642 050
65	I342 0065	I642 065
80	I342 0080	I642 080
100	I342 0100	I642 100



04.3 :: Nipples



Toe Nipples

SIZE (inches)	STAINLESS STEEL 316 BSP	STAINLESS STEEL 316 NPT
1/8	I643 006	I643 NPT006
1/4	I643 008	I643 NPT008
3/8	I643 010	I643 NPT010
1/2	I643 015	I643 NPT015
3/4	I643 020	I643 NPT020
1	I643 025	I643 NPT025
1 1/4	I643 032	I643 NPT 032
1 1/2	I643 040	I643 NPT040
2	I643 050	I643 NPT050
2 1/2	I643 065	I643 NPT065
3	I643 080	I643 NPT075
4	I643 100	I643 NPT100
5	I643 125	I643 NPT125
6	I643 150	I643 NPT150

Nipples :: 04.3



Reducing Nipple

SIZE (mm)	GAL MAL	BLACK STEEL	GALV STEEL	BRONZE	POLY	SIZE (inches)	BSP	NPT
6 x 3		I376 0806	I376 GS0806	514 0806		3/8 x 1/8	I648 1006	
10 x 3		I376 1006	I376 GS1006	514 1006	679 1006	3/8 x 1/4	I648 1008	I648 NPT1008
10 x 6	476 1008	I376 1008	I376 GS1008	514 1008	679 1008	1/2 x 1/8	I648 1506	
15 x 3				514 1506	679 1506	1/2 x 1/4	I648 1508	I648 NPT1508
15 x 6	476 1508	I376 1508	I376 GS1508	514 1508	679 1508	1/2 x 3/8	I648 1510	I648 NPT1510
15 x 10	476 1510	I376 1510	I376 GS1510	514 1510	679 1510	3/4 x 1/4	I648 2008	
20 x 6	476 2008					3/4 x 3/8	I648 2010	
20 x 10	476 2010			514 2010	679 2010	3/4 x 1/2	I648 2015	I648 NPT2015
20 x 15	476 2015	I376 2015	I376 GS2015	514 2015	679 2015	1 x 1/4	I648 2508	
25 x 6						1 x 3/8	I648 2510	
25 x 10						1 x 1/2	I648 2515	I648 NPT2515
25 x 15	476 2515	I376 2515	I376 GS2515	514 2515	679 2515	1 x 3/4	I648 2520	I648 NPT2520
25 x 20	476 2520	I376 2520	I376 GS2520	514 2520	679 2520	1 1/4 x 3/4	I648 3220	
32 x 15	476 3215			514 3215		1 1/4 x 1	I648 3225	I648 NPT3225
32 x 20	476 3220	I376 3220	I376 GS3220	514 3220	679 3220	1 1/2 x 1/2	I648 4015	
32 x 25	476 3225	I376 3225	I376 GS3225	514 3225	679 3225	1 1/2 x 3/4	I648 4020	
40 x 15	476 4015			514 4015		1 1/2 x 1	I648 4025	I648 NPT4025
40 x 20	476 4020	I376 4020	I376 GS4020	514 4015	679 3820	1 1/2 x 1 1/4	I648 4032	I648 NPT4032
40 x 25	476 4025	I376 4025	I376 GS4025	514 4025	679 4025	2 x 1/2	I648 5015	
40 x 32	476 4032	I376 4025	I376 GS4025	514 4032	679 3832	2 x 3/4	I648 5020	
50 x 20	476 5020	I376 5020	I376 GS5020	514 5020	679 5020	2 x 1	I648 5025	I648 NPT5025
50 x 25	476 5025	I376 5025	I376 GS5025	514 5025	679 5025	2 x 1 1/4	I648 5032	I648 NPT5032
50 x 32	476 5032	I376 5032	I376 GS5032	514 5032	679 5032	2 x 1 1/2	I648 5040	I648 NPT5040
50 x 40	476 5040	I376 5040	I376 GS5040	514 5040	679 5040	2 1/2 x 2	I648 6550	I648 NPT6550
65 x 25	476 6525			514 6525		3 x 2	I648 8050	I648 NPT8050
65 x 32	476 6532			514 6532	679 6532	3 x 2 1/2	I648 8065	I648 NPT8065
65 x 40	476 6540	I376 6540	I376 GS6540	514 6540	679 6540	4 x 2	I648 10050	I648 NPT10050
65 x 50	476 6550	I376 6550	I376 GS6550	514 6550	679 6550	4 x 2 1/2	I648 10065	I648 NPT10065
80 x 32	476 8032					4 x 3	I648 10080	I648 NPT10080
80 x 40	476 8040					5 x 4	I648 125100	
80 x 50	476 8050	I376 8050	I376 GS8050	514 8050	676 8050	6 x 4	I648 150100	
80 x 65	476 8065	I376 8065	I376 GS8065	514 8065	679 8065			I648 NPT8065
100 x 50	476 9050	I376 9050	I376 GS9050	514 9050	679 10050			I648 NPT8065
100 x 65	476 9065			514 9065	679 10065			
100 x 80	476 9080	I376 9080	I376 GS9080	514 9080	679 10080			I648 NPT10050
100 x 65	475 9065	I375 9065	I375 GS9065	503 9065	671 10065			I648 NPT10065
100 x 80	475 9080	I375 9080	I376 GS9080	I503 10080	671 10080			I648 NPT10080

04.4 :: Bushes



Reducing Bushes							
SIZE (mm)	GAL MAL	BLACK STEEL	GALV STEEL	BRONZE	POLY	STAINLESS STEEL 316 BSP	STAINLESS STEEL 316 NPT
6 x 3		I375 0806	I375 GS0806	I5030806	671 0608	I647 0806	I647 NPT0806
10 x 3	475 1006	I375 1006	I375 GS1006	503 1006	671 1006	I647 1006	I647 NPT1006
10 x 6	475 1008	I375 1006	I375 GS1008	I503 1006	671 1008	I647 1008	I647 NPT1008
15 x 3				503 1506	671 1506	I647 1206	
15 x 6	475 1508	I375 1508	I375 GS1508	I503 1508	671 1508	I647 1508	I647 NPT1508
15 x 10	475 1510	I375 1510	I375 GS1510	I503 1510	671 1510	I647 1510	I647 NPT1510
20 x 6	475 2008			503 2008	671 2008	I647 2008	
20 x 10	475 2010	I375 2010	I375 GS2010	I503 2010	671 2010	I647 2010	I647 NPT2010
20 x 15	475 2015	I375 2015	I375 GS2015	503 2015	671 2015	I647 2015	I647 NPT1015
25 x 6	475 2508			503 2508	671 2508	I647 2508	
25 x 10	475 2510			503 2510	671 2510	I647 2510	
25 x 15	475 2515	I375 2515	I375 GS2515	503 2515	671 2515	I647 2515	I647 NPT2515
25 x 20	475 2520	I375 2520	I375 GS2520	I503 2520	671 2520	I647 2520	I647 NPT2520
32 x 15	475 3215			503 3215	671 3215		
32 x 20	475 3220	I375 3220	I375 GS3220	503 3220	671 3220	I647 3220	
32 x 25	475 3225	I375 3225	I375 GS3225	I503 3225	671 3225	I647 3225	I647 NPT3225
40 x 15	475 4015			503 4015	671 4015	I647 4015	
40 x 20	475 4020	I375 4020	I375 GS4020	503 4020	671 4020	I647 4020	
40 x 25	475 4025	I375 4025	I375 GS4025	503 4025	671 4025	I647 4025	I647 NPT4025
40 x 32	475 4032	I375 4032	I375 GS4025	I503 4032	671 4032	I647 4032	I647 NPT4032
50 x 15	475 5015				671 5015	I647 5015	
50 x 20	475 5020	I375 5020	I375 GS5020	503 5020	679 5020	I647 5020	
50 x 25	475 5025	I375 5025	I375 GS5025	503 5025	671 5025	I647 5025	I647 NPT5025
50 x 32	475 5032	I375 5032	I375 GS5032	503 5032	671 5032	I647 5032	I647 NPT5032
50 x 40	475 5040	I375 5040	I375 GS5040	503 5040	671 5040	I647 5040	I647 NPT5040
65 x 25	475 6525			503 6525			
65 x 32	475 6532			503 6532	671 6532		
65 x 40	475 6540	I375 6540	I375 GS6540	503 6540	671 6540		
65 x 50	475 6550	I375 6550	I375 GS6550	503 6550	671 6550	I647 6550	I647 NPT6550
80 x 32	475 8032						
80 x 40	475 8040				671 8040		
80 x 50	475 8050	I375 8050	I375 GS8050	503 8050	671 8050	I647 8050	I647 NPT8050
80 x 65	475 8065	I375 8065	I375 GS8065	503 8065	671 8065	I647 8065	I647 NPT8065
100 x 40				503 9040		I647 10040	
100 x 50	475 9050	I375 9050	I375 GS9050	503 9050	671 10050	I647 10050	I647 NPT10050
100 x 65	475 9065	I375 9065	I375 GS9065	503 9065	671 10065	I647 10065	I647 NPT10065
100 x 80	475 9080	I375 9080	I375 GS9080	I503 10080	671 10080	I647 10080	I647 NPT10080
150 x 100	475 150100					I647 150100	
150 x 125						I647 150125	



Reducing Sockets

SIZE (mm)	GAL MAL	BLACK STEEL	GALV STEEL	BRONZE	POLY	SIZE (inches)	STAINLESS STEEL 316 NPT
6 x 3				511 0806		¼ x ⅛	I646 0806
10 x 3				511 1006		⅜ x ⅛	I646 1006
10 x 6				511 1008		⅜ x ¼	I646 1008
15 x 3						½ x ¼	I646 1508
15 x 6				511 1508		½ x ⅜	I646 1510
15 x 10	489 1510			511 1510		¾ x ¼	I646 2008
20 x 6						¾ x ⅜	I646 2010
20 x 10	489 2010					¾ x ½	I646 2015
20 x 15	489 2015			511 2015	673 2015	1 x ¼	I646 2508
25 x 6						1 x ⅜	I646 2510
25 x 10						1 x ½	I646 2515
25 x 15	489 2515			511 2515	673 2515	1 x ¾	I646 2520
25 x 20	489 2520			511 2520	673 2520	1¼ x ¾	I646 3220
32 x 15						1¼ x 1	I646 3225
32 x 20					673 3220	1½ x ¾	I646 4020
32 x 25	489 3225			511 3225	673 3225	1½ x 1	I646 4025
40 x 15						1½ x 1¼	I646 4032
40 x 20	489 4020				673 4020	2 x 1	I646 5025
40 x 25	489 4025				673 4025	2 x 1¼	I646 5032
40 x 32	489 4032			511 4032	673 4032	2 x 1½	I646 5040
50 x 20	489 5020				673 5020	2½ x 1¼	I646 6540
50 x 25	489 5025				673 5025	2½ x 2	I646 6550
50 x 32	489 5032				673 5032	3 x 2	I646 8050
50 x 40	489 5040			511 5040	673 5040	3 x 2½	I646 8065
65 x 25						4 x 2	I646 10050
65 x 32						4 x 2½	I646 10065
65 x 40	489 6540				673 6540	4 x 3	I646 10080
65 x 50	489 6550				673 6550		
80 x 32							
80 x 40							
80 x 50	489 8050			511 8050	673 8050		
80 x 65	489 8065			511 8065	673 8065		
100 x 50	489 10050			511 9050			
100 x 65	489 10065			511 9065	673 10065		
100 x 80	489 10080			511 9080	673 10080		

04.6 :: Caps



BEP Female

SIZE (mm)	GAL MAL	BLACK STEEL	GALV STEEL	BRONZE	POLY	STAINLESS STEEL 316 BSP	STAINLESS STEEL 316 NPT
3		I383 0006	I383 GS006			I640 006	I640 NPT06
6	483 0008	I383 0008	I383 GS008	I504 0008		I640 008	I640 NPT08
10	483 0010	I383 0010	I383 GS010	I504 0010		I640 010	I640 NPT10
15	483 0015	I383 0015	I383 GS015	I504 0015	674 0015	I640 015	I640 NPT15
20	483 0020	I383 0020	I383 GS020	I504 0020	674 0020	I640 020	I640 NPT20
25	483 0025	I383 0025	I383 GS025	I504 0025	674 0025	I640 025	I640 NPT25
32	483 0032	I383 0032	I383 GS032	I504 0032	674 0032	I640 032	I640 NPT32
40	483 0040	I383 0040	I383 GS040	I504 0040	674 0040	I640 040	I640 NPT40
50	483 0050	I383 0050	I383 GS050	I504 0050	674 0050	I640 050	I640 NPT50
65	483 0065			I504 0065	674 0065	I640 065	I640 NPT65
80	483 0080			I504 0080	674 0080	I640 080	I640 NPT 80
100	483 0100			I504 0100	674 0100	I640 100	I640 NPT100
150	483 0150						

Plugs :: 04.7



Plugs							
SIZE (mm)	GAL MAL	BLACK STEEL	GALV STEEL	BRONZE	POLY	STAINLESS STEEL 316 BSP	STAINLESS STEEL 316 NPT
3	482 0006	I382 0006	I382 GS0006	I509 0006	670 0006	I645 006	
6	482 0008	I382 0008	I382 GS0008	I509 0008	670 0008	I645 008	I645 NPT008
10	482 0010	I382 0010	I382 GS0010	I509 0010	670 0010	I645 010	I645 NPT010
15	482 0015	I382 0015	I382 GS0015	I509 0015	670 0015	I645 015	I645 NPT015
20	482 0020	I382 0020	I382 GS0020	I509 0020	670 0020	I645 020	I645 NPT020
25	482 0025	I382 0025	I382 GS0025	I509 0025	670 0025	I645 025	I645 NPT025
32	482 0032	I382 0032	I382 GS0032	I509 0032	670 0032	I645 032	I645 NPT032
40	482 0040	I382 0040	I382 GS0040	I509 0040	670 0040	I645 040	I645 NPT040
50	482 0050	I382 0050	I382 GS0050	I509 0050	670 0050	I645 020	I645 NPT050
65	482 0065			I509 0065	670 0065	I645 065	I645 NPT065
80	482 0080			I509 0080	670 0080	I645 080	I645 NPT080
100	482 0100			I509 0100	670 0100	I645 100	I645 NPT100
125							
150							

04.8 :: Unions



BSP Female						
SIZE (mm)	GAL MAL	BLACK STEEL	GALV STEEL	BRONZE	POLY	STAINLESS STEEL 316 BSP
3				513 0006		I637 006
6				513 0008		I637 008
10	485 0010			513 0010		I637 010
15	485 0015	I385 0015	I385 GS0015	513 0016	685 0015	I637 015
20	485 0020	I385 0020	I385 GS0020	513 0020	685 0020	I637 020
25	485 0025	I385 0025	I385 GS0025	513 0025	685 0025	I637 025
32	485 0032	I385 0032	I385 GS0032	513 0032	685 0032	I637 032
40	485 0040	I385 0040	I385 GS0040	513 0040	685 0040	I637 040
50	485 0050	I385 0050	I385 GS0050	513 0050	686 0050	I637 050
65	485 0065	I385 0065	I385 GS0065	513 0065		I637 065
80	485 0080	I385 0080	I385 GS0080	513 0080		I637 080
100	485 0100	I385 000	I385 GS0100	513 0100		I637 100

04.9 :: Locknuts



Locknuts						
SIZE (mm)	GAL MAL	BRONZE	POLY SMALL	POLY LARGE	STAINLESS STEEL 316	STAINLESS STEEL 316 BACKNUT
3		507 0006			I635 006	
6		507 0008			I635 008	
10		507 0010			I635 010	
15	474 0015	507 0015	682 S015	682 L015	I635 015	I 605 N015
20	474 0020	507 0020	682 S020	682 L020	I635 020	I 605 N020
25	474 0025	507 0025	682 S025	682 L025	I635 025	I 605 N025
32	474 0032	507 0032	682 S032	682 L032	I635 032	I 605 N032
40	474 0040	507 0040	682 S040	682 L040	I635 040	I 605 N040
50	474 0050	507 0050	682 S050	682 L050	I635 050	I 605 N050
65	474 0065	507 0065			I635 065	I 605 N065
80	474 0080	507 0080			I635 080	I 605 N080
100	474 00100				I635 100	I 605 N100

Hosetails :: 04.10

Lump Ends

SIZE (mm)	BRONZE	POLY	Z/P STEEL RC	STAINLESS STEEL 316 BSP	STAINLESS STEEL 316 NPT	BUTTWELD	STAINLESS STEEL 316 FEMALE
3		679 0606		I649 006			I649 FT006
6		679 0808		I649 008	I649 NPT08		I649 FT008
10		679 1010		I649 010	I649 NPT10		I649 FT010
15	I500 1515	679 1515	I610 015	I649 015	I649 NPT15		I649 FT015
20	I500 2020	679 2020	I610 020	I649 020	I649 NPT20		I649 FT020
25	I500 2525	679 2525	I610 025	I649 025	I649 NPT25	I649 B025	I649 FT025
32	I500 3232	679 3232	I610 032	I649 032	I649 NPT32	I649 B032	I649 FT032
40	I500 4040	679 4040	I610 040	I649 040	I649 NPT40	I649 B040	I649 FT040
50	I500 5050	679 5050	I610 050	I649 050	I649 NPT50	I649 B050	I649 FT050
65	I500 6565	679 6565	I610 065	I649 065	I649 NPT65	I649 B065	I649 FT065
80	I500 8080	679 8080	I610 080	I649 080	I649 NPT80	I649 B080	I649 FT080
100	I500 100100	679 0100	I610 100	I649 100		I649 B100	I649 FT100
			I610 150			I649 B150	
			I610 200	I649 150			
			I610 250				

90° Hose Tail x Male BSP

SIZE (inches)	STAINLESS STEEL BSP	SIZE	BRONZE
½	I692 1515		
¾	I692 2020	20 x 20	I592 2020
1	I692 2525	20 x 25	I592 2025
1¼	I692 3232	25 x 20	I592 2520
1½	I692 4040	25 x 25	I592 2525
2	I692 5050	25 x 32	I592 2532
		32 x 32	I592 3232
		32 x 40	I592 3240
		40 x 40	I592 4040
		40 x 50	I592 4050
		50 x 50	I592 5050
		65 x 65	I592 6565
		80 x 80	I592 8080
			I610 200
			I610 250



04.10 :: Hosetail



Reducing Hose Tails (Lump Ends)

SIZE (inches)	BRONZE	SIZE (inches)	POLY	SIZE (inches)	BRASS	SIZE (inches)	STAINLESS STEEL 316 BSP	
1/8 x 1/4		3/8 x 1/2	500 1015	679 0608	3/16 x 1/8	590 0503	1/4 x 1/8	I649 0806
1/4 x 1/8		1/2 x 1/2	500 1515	679 0806	3/16 x 1/4	590 0506	1/4 x 5/16	I649 0809
1/4 x 5/16		1/2 x 3/8	500 1516	679 0809	1/4 x 1/8	590 0603	1/4 x 3/8	I649 0810
1/4 x 3/8		1/2 x 3/4	500 1520	679 0810	3/4 x 1/4	590 0606	1/4 x 1/2	I649 0615
1/2 x 3/4		1/2 x 1	500 1525	679 1520	1/4 x 3/8	590 0610	3/8 x 1/8	I646 1006
3/4 x 1/2		3/4 x 1/2	500 2015	679 2015	1/4 x 1/2	590 0615	3/8 x 1/4	I646 1008
3/4 x 1	I500 2025	3/4 x 5/8	500 2016		5/16 x 1/8	590 0803	3/8 x 5/16	I649 1009
1 x 1/2		3/4 x 3/4	500 2020	679 2515	5/16 x 1/4	590 0806	3/8 x 1/2	I649 1015
1 x 3/4	I500 2520	3/4 x 1	500 2025	679 2520	5/16 x 3/8	590 0810	1/2 x 5/16	I649 1509
1 x 1 1/4	I500 2532	1 x 3/8	500 2510	679 2532	5/16 x 1/2	590 0815	1/2 x 3/8	I648 1510
1 1/4 x 1	I500 3225	1 x 1/2	500 2515	679 3225	3/8 x 1/8	590 1003	1/2 x 5/8	I649 1516
1 1/4 x 1 1/2	I500 3240	1 x 5/8	500 2516		3/8 x 1/4	590 1006	1/2 x 3/4	I649 1220
1 1/2 x 1 1/4	I500 4032	1 x 3/4	500 2520		3/8 x 3/8	590 1010	1/2 x 1	I649 1525
1 1/2 x 2	I500 4050	1 x 1	500 2525		3/8 x 1/2	590 1015	3/4 x 3/8	I648 2010
2 x 1 1/2	I500 5040	1 x 1 1/4	500 2532		3/8 x 3/4	590 1020	3/4 x 1/2	I648 2015
2 x 2 1/2	I500 5065	1 x 1 1/2	500 2540		1/2 x 1/8	590 1503	3/4 x 5/8	I649 2016
2 1/2 x 3	I500 6580	1 1/4 x 3/4	500 3220		1/2 x 1/4	590 1506	3/4 x 1	I649 2025
		1 1/4 x 1	500 3225		1/2 x 3/8	590 1510	1 x 1/2	I649 2515
		1 1/4 x 1 1/4	500 3232		1/2 x 1/2	590 1515	1 x 3/4	I649 2520
		1 1/4 x 1 1/2	500 3240		1/2 x 3/4	590 1520	1 x 1 1/4	I649 2532
		1 1/4 x 2	500 3250		5/8 x 1/4	590 1606	1 1/4 x 1	I649 3225
		1 1/2 x 3/4	500 4020		5/8 x 3/8	590 1610	1 1/4 x 1 1/2	I649 3240
		1 1/2 x 1	500 4025		5/8 x 1/2	590 1615	1 1/2 x 1	I649 4025
		1 1/2 x 1 1/4	500 4032		5/8 x 3/4	590 1620	1 1/2 x 1 1/4	I649 4032
		1 1/2 x 1 1/2	500 4040		3/4 x 3/8	590 2010	2 x 1	I649 5025
		1 1/2 x 1 3/4	500 4044		3/4 x 1/2	590 2015	2 x 1 1/4	I649 5032
		1 1/2 x 2	500 4050		3/4 x 3/4	590 2020	2 x 1 1/2	I649 5040
		1 1/2 x 2 1/4	500 4057		3/4 x 1	590 2025	2 x 2 1/2	I649 5065
		1 1/2 x 2 1/2	500 4062		1 x 1/2	590 2515	2 1/2 x 2	I649 6550
		1 3/4 x 1 3/4	500 4444		1 x 3/4	590 2520	2 1/2 x 3	I649 6580
		2 x 1/2	500 5015		1 x 1	590 2525	3 x 2	I649 8050
		2 x 1	500 5025				3 x 2 1/2	I649 8065
		2 x 1 1/4	500 5032				3 x 4	I649 80100
		2 x 1 1/2	500 5040				4 x 3	I649 10080
		2 x 1 3/4	500 5044					
		2 x 2	500 5050					
		2 x 2 1/4	500 5057					
		2 x 2 1/2	500 5063					
		2 x 3	500 5080					
		2 1/4 x 2 1/4	500 5757					
		2 1/2 x 2	500 6550					
		2 1/2 x 2 1/2	500 6565					
		2 1/2 x 3	500 6575					
		3 x 3	500 7575					



Hose Joiner				
SIZE (mm)	POLY	GAL STEEL	PLASTIC	STAINLESS STEEL
10				1593 010SS
15	680 0015	1609 015	660 0003	1593 015SS
20	680 0020	1606 020	660 0005	1593 020SS
25	680 0025	1609 025	660 0006	1593 025SS
32	680 0032	1609 032	660 0008	1593 032SS
40	680 0040	1609 040	660 0010	1593 040SS
50	680 0050	1609 050	660 0012	
65		1609 065	660 0016	
80		1609 080	660 0020	
100		1609 100	660 0025	

04.11 :: Adapters



Male Female Adaptors

SIZE (inches)	STAINLESS STEEL 316 BSP	SIZE (inches)	BRASS	SIZE (inches)	POLY
1/8 x 1/8	I638 FM0303	1/4 x 1/8	502 0603	1/2 x 1/2	669 0012
1/4 x 1/8	I638 FM0603	1/4 x 1/4	502 0606	3/4 x 3/4	669 0020
1/4 x 1/4	I638 FM0606	3/8 x 1/4	502 0610	1 x 1	669 0025
3/8 x 1/8	I638 FM1003	3/8 x 3/8	502 1003	3/8 x 1/2	669 1012
3/8 x 1/4	I638 FM1006	3/8 x 1/4	502 1006	3/4 x 1/2	669 2012
3/8 x 3/8	I638 FM1010	3/8 x 3/8	502 1010	1 x 1/2	669 2512
1/2 x 3/8	I638 FM1510	1/2 x 1/8	502 1503	1 x 3/4	669 2520
1/2 x 1/2	I638 FM1515	1/2 x 1/4	502 1506		
3/4 x 1/4	I638 FM2006	1/2 x 3/8	502 1510		
3/4 x 3/8	I638 FM2010	1/2 x 1/2	502 1515		
3/4 x 1/2	I638 FM2015	3/4 x 1/2	502 2012		
3/4 x 3/4	I638 FM2020	3/4 x 3/4	502 2020		
1 x 1/2	I638 FM2515	1 x 1/2	502 2515		
1 x 3/4	I638 FM2520	1 x 3/4	502 2520		
1 x 1	I638 FM2525	1 x 1	502 2525		
1 1/4 x 1/2	I638 FM3215	1 1/4 x 3/4	502 3220		
1 1/4 x 3/4	I638 FM3220	1 1/4 x 1	502 3225		
1 1/4 x 1	I638 FM3225	1 1/4 x 1 1/4	502 3232		
1 1/4 x 1 1/4	I638 FM3232	1 1/2 x 1	502 4025		
1 1/2 x 3/4	I638 FM4020	1 1/2 x 1 1/4	502 4032		
1 1/2 x 1	I638 FM4025	1 1/2 x 1 1/2	502 4040		
1 1/2 x 1 1/4	I638 FM4032	2 x 1 1/4	502 5032		
1 1/2 x 1 1/2	I638 FM4040	2 x 1 1/2	502 5040		
		2 x 2	502 5050		
		2 1/2 x 2	502 6550		
		3 x 2	502 8050		
		3 x 2 1/2	502 8065		

Bends

SIZE (mm)	FEMALE / FEMALE	MALE / FEMALE	
15	473 0015		
20	473 0020		
25	473 0025	478 025	
32	473 0032	478 032	
40	473 0040	478 040	
50	473 0050	478 050	
65		478 065	
80		478 080	
100		478 100	



Crosses

SIZE (mm)	GAL MAL	STAINLESS STEEL 316 BSP	BRASS
06		1638 006	512 C003
08		1638 008	512 C006
10	477 010	1638 010	512 C010
15	477 015	1638 015	
20	477 020	1638 020	
25	477 025	1638 025	
32	477 032	1638 032	
40	477 040	1638 040	
50	477 050	1638 050	
65	477 065	1638 065	
80	477 080	1638 080	
100	477 100	1638 100	



04.13 :: Y & Pipe Pieces



Y Pieces

SIZE (inches)	STAINLESS STEEL 316 BSP	BRASS	BRASS MALE Y
1/8	I638 Y006		
1/4	I638 Y008	512 Y006	512 M006
3/8	I638 Y010	512 Y010	512 MM010
1/2	I638 Y015	512 Y015	
3/4	I638 Y020		
1	I638 Y025		
1 1/4	I638 Y032		
1 1/2	I638 Y040		
2	I638 Y050		
2 1/2	I638 Y065		
3	I638 Y080		
4	I638 Y100		



Pipe Pieces

SIZE (inches)	GALVANISED STEEL	BRASS MALE Y
1/4		512 M006
3/8		512 MM010
1/2	486 15100	
3/4	486 20100	
1	486 25100	
1 1/4	486 32100	
1 1/2	486 40100	
2	486 50100	
2 1/2	486 65100	
3	486 80100	