

T1 Male BSPP	T2 Male BSPP	L ₁	L ₂	L	S A / F	Type A/B	Carbon Steel		
							Max WP (bar)	TUFIT Part No.	Cross Reference
G 1/8 A	G 1/8 A	23.5	8	8	14	A	350	HAG018018	2HMK4
G 1/4 A	G 1/8 A	28.0	11	8	19	B	350	HAG014018	4-2HMK4
G 1/4 A	G 1/4 A	31.5	11	11	19	A	350	HAG014014	4HMK4
G 3/8 A	G 1/4 A	33.0	12	11	22	B	350	HAG038014	6-4HMK4
G 3/8 A	G 3/8 A	35.0	12	12	22	A	350	HAG038038	6HMK4
G 1/2 A	G 1/4 A	37.0	14	11	27	B	200	HAG012014	8-4HMK4
G 1/2 A	G 3/8 A	38.0	14	12	27	B	200	HAG012038	8-6HMK4
G 1/2 A	G 1/2 A	41.0	14	14	27	A	200	HAG012012	8HMK4
G 5/8 A	G 1/2 A	43.0	16	14	30	B	200	HAG058012	0-8HMK4
G 5/8 A	G 5/8 A	45.0	16	16	30	A	200	HAG058058	10HMK4S
G 3/4 A	G 1/4 A	39.0	16	11	32	B	200	HAG034014	12-4HMK4
G 3/4 A	G 3/8 A	41.0	16	12	32	B	200	HAG034038	12-6HMK4
G 3/4 A	G 1/2 A	43.0	16	14	32	B	200	HAG034012	12-8HMK4
G 3/4 A	G 5/8 A	45.0	16	16	32	B	200	HAG034058	12-10HMK4S
G 3/4 A	G 3/4 A	45.0	16	16	32	A	200	HAG034034	12HMK4
G 1 A	G 1/2 A	47.0	19	14	41	B	120	HAG001012	16-8HMK4
G 1 A	G 5/8 A	49.0	19	16	41	B	120	HAG001058	16-10HMK4S
G 1 A	G 3/4 A	49.0	19	16	41	B	120	HAG001034	16-12HMK4
G 1 A	G 1 A	52.0	19	19	41	A	120	HAG001001	16HMK4
G 1-1/4 A	G 3/4 A	57.5	20	16	50	B	105	HAG114034	20-12HMK4
G 1-1/4 A	G 1 A	60.5	20	19	50	B	105	HAG114001	20-16HMK4
G 1-1/4 A	G 1-1/4 A	61.5	20	20	50	A	105	HAG114114	20HMK4
G 1-1/2 A	G 3/4 A	57.0	23	16	55	B	105	HAG112034	24-12HMK4
G 1-1/2 A	G 1 A	64.5	23	19	55	B	105	HAG112001	24-16HMK4
G 1-1/2 A	G 1-1/4 A	65.5	23	20	55	B	105	HAG112114	24-20HMK4
G 1-1/2 A	G 1-1/2 A	67.5	23	23	55	A	105	HAG112112	24HMK4S
G 2 A	G 1-1/2 A	73.0	25	23	70	B	70	HAG002112	32-24HMK4
G 2 A	G 2 A	76.5	25	23	70	A	70	HAG002002	32-HMK4

* Other thread combinations in BSPxBSP or MMxMM or BSPxMM also available on request

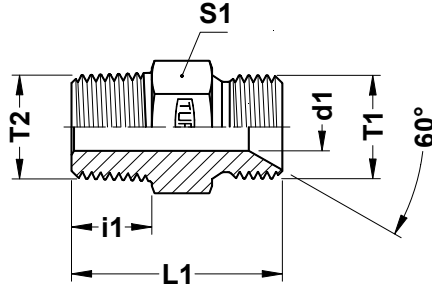
* Use suitable Copper Washer/ Dowty Seal When use in port

* Dimensions for reference only subject to change

Material	Surface Protection	Tufit Part No. Example
Carbon Steel	Trivalent Cr(VI) - free Zinc Plated Bright Passivated	HAG018018
AISI-304	Natural Finish	HAG018018S4
AISI-316	Natural Finish	HAG018018S6

ISO: 8434-6 / BS: B5200

Male BSPP Form-A with 60° Cone / Male BSPP Form-A With 60°



T1 Male BSPP	T2 Male NPT	d ₁	i ₁	L ₁	S1 A/ F	Carbon Steel		
						Max WP (bar)	TUFIT Part No.	Cross Reference
G 1/8 A	1/8-27	4	10	24	14	350	HAN018018	2FMK4
G 1/8 A	1/4-18	4	15	29	14	350	HAN018014	2-4FMK4
G 1/4 A	1/4-18	8	15	35	19	350	HAN014018	4FMK4
G 1/4 A	3/8-18	8	15	35	19	350	HAN014014	4-4FMK4
G 1/4 A	1/2-14	7	19	40	19	200	HAN014038	4-6FMK4
G 3/8 A	1/4-18	8	15	35	22	350	HAN038014	6F3MK4
G 3/8 A	3/8-18	8	15	35	22	350	HAN038038	6-6F3MK4
G 3/8 A	1/2-14	7	19	40	22	200	HAN038012	6-8F3MK4
G 1/2 A	1/4-18	8	15	39	27	200	HAN012014	-
G 1/2 A	3/8-18	11	15	39	27	200	HAN012038	8F3MK4
G 1/2 A	1/2-14	11	19	43	27	200	HAN012012	8-8F3MK4
G 1/2 A	3/4-14	11	19	44	27	200	HAN012034	-
G 3/4 A	3/8-18	11	15	42	32	200	HAN034038	-
G 3/4 A	1/2-14	17	19	46	32	350	HAN034012	12-8F3MK4
G 3/4 A	3/4-14	17	19	46	32	200	HAN034034	12F3MK4
G 3/4 A	1-11-1/2	17	24	51	36	120	HAN034001	12-16F3MK4
G 1 A	3/4-14	22	19	50	41	120	HAN001034	16-12F3MK4
G 1 A	1-11-1/2	22	24	55	41	120	HAN001001	16F3MK4
G 1-1/4 A	1-11-1/2	22	24	58	50	105	HAN114001	-
G 1-1/4 A	1-1/4 -11-1/2	29	25	64	50	105	HAN114114	20F3MK4
G 1-1/2 A	1-1/4 -11-1/2	25	25	65	55	105	HAN112114	-
G 1-1/2 A	1-1/2 -11-1/2	33	26	36	55	105	HAN112112	24F3MK4

* BSP Taper Thread (NPT/BSPT) is also available

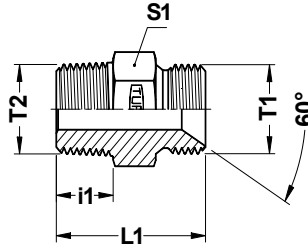
* Use taper thread sealants

* Dimensions for reference only subject to change

Material	Surface Protection	Tufit Part No. Example
Carbon Steel	Trivalent Cr(VI) - free Zinc Plated Bright Passivated	HAN018018
AISI-304	Natural Finish	HAN018018S4
AISI-316	Natural Finish	HAN018018S6

ISO: 8434-6 / BS: B5200

Male BSPP Form-A with 60° Cone / Male BSPP Form-A With 60°



T1 Male BSPP	T2 Male BSPT	i1	L1	S1 A / F	Carbon Steel		
					Max WP (bar)	TUFIT Part No.	Cross Reference
1/8	1/8	10.1	24	14	315	HAR018018	2F3MK4
1/8	1/4	14.6	29	14	315	HAR018014	2-4F3MK4
1/4	1/8	10.1	29	19	315	HAR014018	4F3MK4
1/4	1/4	14.6	33	19	315	HAG014014	4-4F3MK4
1/4	3/8	14.6	33	19	315	HAR014038	4-6F3MK4
3/8	1/4	14.6	35	22	315	HAR038014	6F3MK4
3/8	3/8	14.6	35	22	315	HAR038038	6-6F3MK4
3/8	1/2	19.4	40	22	160	HAR038012	6-8F3MK4
1/2	3/8	14.6	39	27	200	HAR012038	8F3MK4
1/2	1/2	19.4	43	27	200	HAR012012	8-8F3MK4
1/2	3/4	19.4	44	27	200	HAR012034	-
5/8	1/2	19.4	46	30	200	HAR058012	10F3MK4S
5/8	3/4	19.4	46	30	160	HAR058034	10-12F3MK4S
3/4	1/2	19.4	46	32	200	HAR034012	12-8F3MK4
3/4	3/4	19.4	46	32	160	HAR034034	12F3MK4
3/4	1	24.3	51	36	120	HAR0340001	12-16F3MK4
1	3/4	19.4	50	41	120	HAR001034	16-12F3MK4
1	1	24.3	55	41	120	HAR001001	16F3MK4
1-1/4	1-1/4	25.0	64	50	105	HAR114114	20F3MK4
1-1/2	1-1/2	25.8	69	55	105	HAR112112	24F3MK4

★ Other thread combinations in BSPxBSPT also available on request

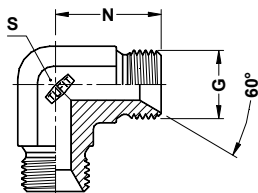
★ Use Taper thread Sealant

★ Dimensions for reference only subject to change

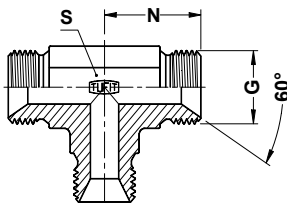
Material	Surface Protection	Tufit Part No. Example
Carbon Steel	Trivalent Cr(VI) - free Zinc Plated Bright Passivated	HAR018018
AISI-304	Natural Finish	HAR018018S4
AISI-316	Natural Finish	HAR018018S6

ISO: 8434-6 / BS: B5200

Male BSPP Form-A with 60° Cone / Male BSPP Form-A With 60°



Part Name - HEAG



Part Name - HTAG

G Male BSPP	N	S A/F	Max WP (bar)	Carbon Steel		Carbon Steel	
				TUFIT Part No. (Elbow)	Cross Reference	TUFIT Part No. (Tee)	Cross Reference
1/8	17	12	350	HEAG018018	2EMK4	HTAG018018018	2JMK4
1/4	24	14	350	HEAG014014	4EMK4	HTAG014014014	4JMK4
3/8	27	19	350	HEAG038038	6EMK4	HTAG038038038	6JMK4
1/2	32	22	200	HEAG012012	8EMK4	HTAG012012012	8JMK4
5/8	34	24	200	HEAG058058	10EMK4	HTAG058058058	10JMK4
3/4	36	27	200	HEAG034034	12EMK4	HTAG034034034	12JMK4
1	42	36	120	HEAG001001	16EMK4	HTAG001001001	16JMK4
1-1/4	48	41	105	HEAG114114	20EMK4	HTAG114114114	20JMK4
1-1/2	54	50	105	HEAG112112	24EMK4	HTAG112112112	24JMK4

★ Other thread combinations in BSPxBSP or MMxMM or BSPxMM also available on request

★ Use suitable Copper Washer/ Dowty Seal when use in port

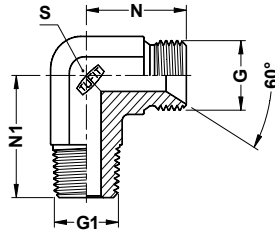
★ Dimensions for reference only subject to change

Material	Surface Protection	Tufit Part No. Example
Carbon Steel	Trivalent Cr(VI) - free Zinc Plated Bright Passivated	HEAG018018
AISI-304	Natural Finish	HEAG018018S4
AISI-316	Natural Finish	HEAG018018S6



ISO: 8434-6 / BS: B5200

Male BSPP Form-A with 60° Cone / Male BSPP Form-A With 60°

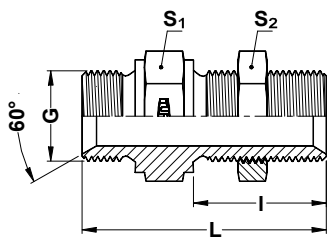


G Male BSP	G1 Male BSPT/ NPT	N	N1	S A/F	Max WP (bar)	Carbon Steel		Carbon Steel
						TUFIT Part No. (BSPT)	Cross Reference	TUFIT Part No. (NPT)
1/8	1/8	21	20	12	350	HEAR018018	2C3P4	HEAN018018
1/4	1/4	26	28	14	350	HEAR014014	4C3P4	HEAN014014
3/8	3/8	29	31	19	350	HEAR038038	6C3P4	HEAN038038
1/2	1/2	34	37.5	22	200	HEAR012012	8C3P4	HEAN012012
5/8	5/8	38	40	27	200	HEAR058058	10C3P4	HEAN058058
3/4	3/4	41	40	27	200	HEAR034034	12C3P4	HEAN034034
1	1	45	50	36	120	HEAR001001	16C3P4	HEAN001001
1-1/4	1-1/4	52	60	41	105	HEAR114114	20C3P4	HEAN114114
1-1/2	1-1/2	59	67	50	105	HEAR112112	24C3P4	HEAN112112

- * Other thread combinations in BSPxBSPT also available on request
- * Use suitable Copper Washer/ Dowty Seal when use in port
- * Dimensions for reference only subject to change

Material	Surface Protection	Tufit Part No. Example
Carbon Steel	Trivalent Cr(VI) - free Zinc Plated Bright Passivated	HEAR018018
AISI-304	Natural Finish	HEAR018018S4
AISI-316	Natural Finish	HEAR018018S6

ISO: 8434-6 / BS: B5200 **Male BSPP Form-A with 60° Cone / Male BSPP Form-A With 60°**



G Male BSP	I	L	S1 A/F	S2 A/F	Max WP (bar)	Carbon Steel	
						TUFIT Part No. (BSPT)	Cross Reference
1/4	28	49	19	19	350	HBHSG014014	2WMK4WL4NM
3/8	32	55	22	22	350	HBHSG038038	4WMK4WL4NM
1/2	35	62	27	27	200	HBHSG012012	6WMK4WL4NM
5/8	35	64	30	32	200	HBHSG058058	10WMK4WL4NM
3/4	38	67	32	36	200	HBHSG034034	12WMK4WL4NM
1	41	74	41	41	120	HBHSG001001	16WMK4WL4NM
1-1/4	44	85	50	50	105	HBHSG114114	20WMK4WL4NM
1-1/2	48	93	55	55	105	HBHSG112112	24WMK4WL4NM

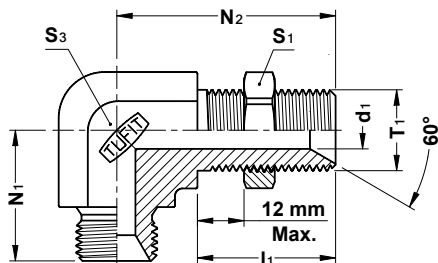
★ Other thread combinations in BSPxBSPT also available on request

★ Dimensions for reference only subject to change.

Material	Surface Protection	Tufit Part No. Example
Carbon Steel	Trivalent Cr(VI) - free Zinc Plated Bright Passivated	HBHSG014014
AISI-304	Natural Finish	HBHSG014014S4
AISI-316	Natural Finish	HBHSG014014S6

ISO: 8434-6 / BS: B5200

Male BSPP Form-A with 60° Cone / Male BSPP Form-A With 60°



T1 Male BSP	d1	l1	N1	N2	S1 A/F	S3 A/F	Max WP (bar)	Carbon Steel
								TUFIT Part No
1/8A	4	25	17	36	14	14	350	HBHEAG018018
1/4A	5	28	24	42	19	19	350	HBHEAG014014
3/8A	8	32	27	48	22	22	350	HBHEAG038038
1/2A	11	35	32	54	27	27	200	HBHEAG012012
5/8A	14	35	34	56	30	30	200	HBHEAG058058
3/4A	17	38	36	61	32	32	200	HBHEAG034034
1A	22	41	42	69	41	41	120	HBHEAG001001
1-1/4A	29	44	48	77	50	50	105	HBHEAG114114
1-1/2A	33	48	54	85	55	55	105	HBHEAG112112

* Other thread combinations in BSPxBSPP or MMxMM or BSPxMM also available on request

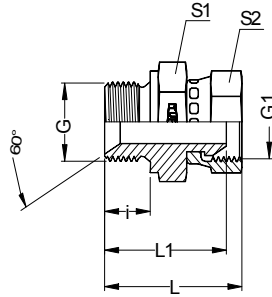
* Dimensions for reference only subject to change

Material	Surface Protection	Tufit Part No. Example
Carbon Steel	Trivalent Cr(VI) - free Zinc Plated Bright Passivated	HBHSG014014
AISI-304	Natural Finish	HBHSG014014S4
AISI-316	Natural Finish	HBHSG014014S6



ISO: 8434-6 / BS: B5200

Male BSPP Form-A with 60° Cone / Male BSPP Form-A With 60°



G Male BSPP	G1 Female BSPP	i	L	L1	S1 A / F	S1 A / F	Carbon Steel		
							Max WP (bar)	TUFIT Part No.	Cross Reference
1/4	1/4	11	37	31	19	19	350	SWHAG014014	4-4F6MK4
3/8	1/4	12	39	33	22	19	350	SWHAG014038	6-4F6MK4
1/2	1/4	14	42	36	27	19	200	SWHAG014012	8-4F6MK4
1/4	3/8	11	38	32	19	22	350	SWHAG038014	4-6F6MK4
3/8	3/8	12	40	34	22	22	350	SWHAG038038	6-6F6MK4
1/2	3/8	14	44	37	27	22	200	SWHAG038012	8-6F6MK4
3/8	1/2	12	44	37	22	27	200	SWHAG012038	6-8F6MK4
1/2	1/2	14	46	39	27	27	200	SWHAG012012	8-8F6MK4
3/4	1/2	16	50	42	32	27	200	SWHAG012034	12-8F6MK4
1/2	3/4	14	47	39	27	32	200	SWHAG034012	8-12F6MK4
3/4	3/4	16	50	41	32	32	200	SWHAG034034	12-12F6MK4
1	3/4	19	55	45	41	32	120	SWHAG034001	12-16F6MK4
1	1	19	57	46	41	41	120	SWHAG001001	16-16F6MK4

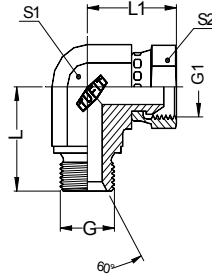
- * Other thread combinations in BSPxBSP also available on request
- * Use suitable Copper Washer/ Dowty Seal When Use in Port
- * Dimensions for reference only subject to change

Material	Surface Protection	Tufit Part No. Example
Carbon Steel	Trivalent Cr(VI) - free Zinc Plated Bright Passivated	SWHAG014014
AISI-304	Natural Finish	SWHAG014014S4
AISI-316	Natural Finish	SWHAG014014S6



ISO: 8434-6 / BS: B5200

Male BSPP Form-A with 60° Cone / Male BSPP Form-A With 60°



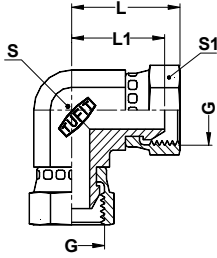
G Male BSPP	G1 Female BSPP	L	L1	S1 A / F	S2 A / F	Carbon Steel		
						NP (bar)	TUFIT Part No.	Cross Reference
1/8	1/8	16.5	22	12	14	350	SWHEAG018018	2C6MK4
1/4	1/4	28	31	14	19	350	SWHEAG014014	4C6MK4
3/8	3/8	32	36	19	22	350	SWHEAG038038	6C6MK4
1/2	1/2	37	41	22	27	200	SWHEAG012012	8C6MK4
5/8	5/8	39	41.5	32	30	200	SWHEAG058058	10C6MK4
3/4	3/4	41.5	45	27	32	200	SWHEAG034034	12C6MK4
1	1	50	54	36	41	120	SWHEAG001001	16C6MK4
1-1/4	1-1/4	54.5	60	41	50	105	SWHEAG114114	20C6MK4
1-1/2	1-1/2	59	63	50	60	105	SWHEAG112112	24C6MK4

- * Other thread combinations in BSPxBSP or MMxMM or BSPxMM can also be available on request
- * BSP Taper Thread (NPT/BSPT) is also available
- * Use suitable Copper Washer/ Dowty Seal
- * Dimensions for reference only subject to change
- * Add S4 for material AISI-304 & S6 for material AISI-316

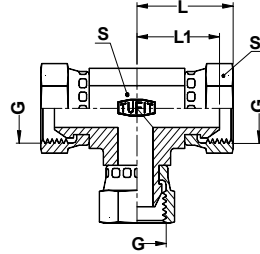
Material	Surface Protection	Tufit Part No. Example
Carbon Steel	Trivalent Cr(VI) - free Zinc Plated Bright Passivated	SWHEAG014014
AISI-304	Natural Finish	SWHEAG014014S4
AISI-316	Natural Finish	SWHEAG014014S6

ISO: 8434-6 / BS: B5200

Male BSPP Form-A with 60° Cone / Male BSPP Form-A With 60°



Part Name- SWHEG



Part Name- SWHTG

G Female BSPP	L	L1	S A/F	S1 A/F	NP (bar)	Carbon Steel		Carbon Steel	
						TUFIT Part No. (Elbow)	Cross Reference	TUFIT Part No. (Tee)	Cross Reference
1/4	31	25	14	19	350	SWHEG014014	4E6MK4S	SWHTG014014014	4J6MK4S
3/8	33	26	19	22	350	SWHEG038038	8E6MK4S	SWHTG038038038	8J6MK4S
1/2	39	32	22	27	200	SWHEG012012	10E6MK4S	SWHTG012012012	10J6MK4S
5/8	39	30	27	30	200	SWHEG058058	12E6MK4S	SWHTG058058058	12J6MK4S
3/4	42	33	27	32	200	SWHEG034034	16E6MK4S	SWHTG034034034	16J6MK4S
1	49	38	33	41	120	SWHEG001001	20E6MK4S	SWHTG001001001	20J6MK4S
1-1/4	58	48	41	50	105	SWHEG114114	22E6MK4S	SWHTG114114114	22J6MK4S
1-1/2	63	50	48	60	105	SWHEG112112	24E6MK4S	SWHTG112112112	24J6MK4S

* Other thread combinations in BSPxBSPP or MMxMM or BSPxMM can also available on request

* BSP Taper Thread (NPT/BSPT) is also available

* Use suitable Copper Washer/ Dowty Seal

* Dimensions for reference only subject to change

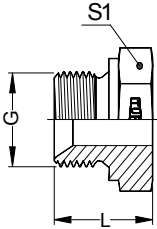
* Add S4 for material AISI-304& S6 for material AISI-316

Material	Surface Protection	Tufit Part No. Example
Carbon Steel	Trivalent Cr(VI) - free Zinc Plated Bright Passivated	SWHEG014014
AISI-304	Natural Finish	SWHEG014014S4
AISI-316	Natural Finish	SWHEG014014S6



ISO: 8434-6 / BS: B5200

Male BSPP Form-A with 60° Cone / Male BSPP Form-A With 60°



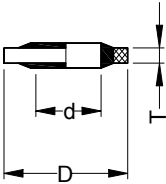
G Male BSPP	S1 A/F	L MM	Max WP (bar)	Carbon Steel	
				TUFIT Part No.	Cross Reference
1/8	14	14	350	HHBPBG018	2PNMK4S
1/4	19	19	350	HHBPBG014	4PNMK4S
3/8	22	21	350	HHBPBG038	6PNMK4S
1/2	27	24	200	HHBPBG012	8PNMK4S
5/8	30	27	200	HHBPBG034	10PNMK4S
3/4	32	27	200	HHBPBG001	12PNMK4S
1	41	30	120	HHBPBG114	16PNMK4S
1 1/4	50	39	105	HHBPBG112	20PNMK4S
1 1/2	55	43	105	HHBPBG002	24PNMK4S
2	70	48	70	HHBPBG018	32PNMK4S

- * Other thread combinations in BSPTxNPT also available on request
- * Use suitable Copper Washer/ Dowty Seal when use in port
- * Dimensions for reference only subject to change

Material	Surface Protection	Tufit Part No. Example
Carbon Steel	Trivalent Cr(VI) - free Zinc Plated Bright Passivated	HHBPBG018
AISI-304	Natural Finish	HHBPBG018S4
AISI-316	Natural Finish	HHBPBG018S6

ISO: 8434-6 / BS: B5200

Male BSPP Form-A with 60° Cone / Male BSPP Form-A With 60°



Thread BSPP	D	d	T	TUFIT Part No.
1/8	14.7	10.4	1.25	BSNG018
1/4	18.7	13.85	1.25	BSNG014
3/8	22.7	17.35	1.25	BSNG038
1/2	26.7	21.65	1.25	BSNG012
3/4	32.5	27.3	1.25	BSNG034
1	39.5	34.2	2	BSNG001
1 1/4	49.5	42.8	2	BSNG114
1 1/2	55.5	48.7	2	BSNG112
2	68.5	60.5	2	BSNG002

* Other thread combinations in BSPT, Metric also available on request

* Dimensions for reference only subject to change

Material	Surface Protection	Tufit Part No. Example
Carbon Steel	Trivalent Cr(VI) - free Zinc Plated Bright Passivated	BSNG018
AISI-304	Natural Finish	BSNG018S4
AISI-316	Natural Finish	BSNG018S6