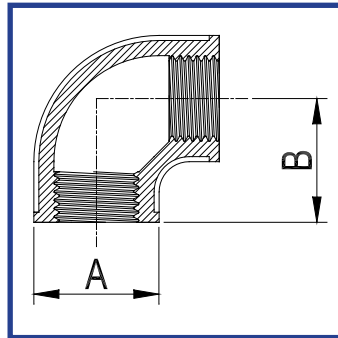
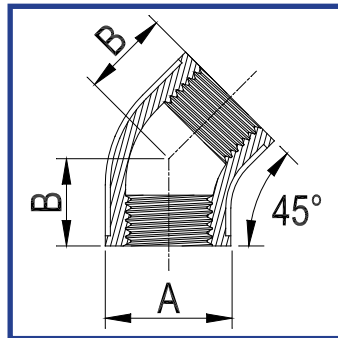


ELBOW 90° EQUAL BANDED (Female/Female) 304/316



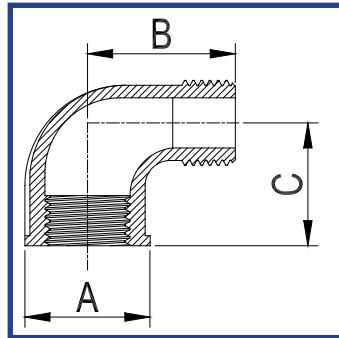
STOCK CODE	SIZE	A (MM)	B (MM)
B90E18	1/8"	18.0	17.6
B90E14	1/4"	21.3	20.0
B90E38	3/8"	23.5	21.3
B90E12	1/2"	29.0	27.0
B90E34	3/4"	35.0	33.0
B90E1	1"	43.0	38.0
B90E114	1 1/4"	52.0	45.0
B90E112	1 1/2"	58.0	50.0
B90E2	2"	71.0	58.0
B90E212	2 1/2"	86.5	69.3
B90E3	3"	99.0	77.5
B90E4	4"	125.0	97.3

ELBOW 45 DEG BANDED (Female/Female) 304/316



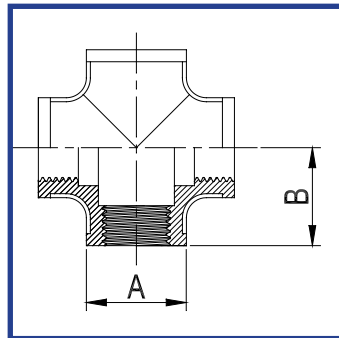
STOCK CODE	SIZE	A (MM)	B (MM)
B45E18	1/8"	18.0	17.5
B45E14	1/4"	21.0	19.4
B45E38	3/8"	26.0	20.7
B45E12	1/2"	29.0	22.0
B45E34	3/4"	35.0	25.0
B45E1	1"	43.0	28.0
B45E114	1 1/4"	52.0	33.0
B45E112	1 1/2"	58.0	36.0
B45E2	2"	71.0	43.0
B45E212	2 1/2"	86.5	48.5
B45E3	3"	99.0	53.8
B45E4	4"	125.0	64.7

STREET ELBOW 90° BANDED (Male/Female) 304/316



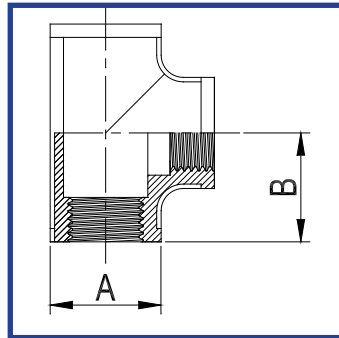
STOCK CODE	SIZE	A (MM)	B (MM)	
BSE18	1/8"	15.0	26.0	19.0
BSE14	1/4"	18.0	28.3	19.0
BSE38	3/8"	23.0	35.0	22.5
BSE12	1/2"	29.0	42.0	29.0
BSE34	3/4"	35.0	50.5	33.0
BSE1	1"	43.0	52.0	38.0
BSE114	1 1/4"	52.0	60.0	45.0
BSE112	1 1/2"	58.0	65.0	50.0
BSE2	2"	71.0	74.0	58.0
BSE212	2 1/2"	84.0	99.5	68.0
BSE3	3"	96.0	115.5	78.0
BSE4	4"	121.0	146.5	97.0

CROSS BANDED (Female/Female) 304/316



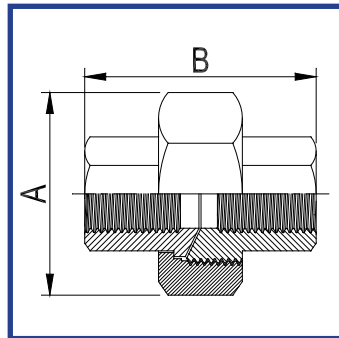
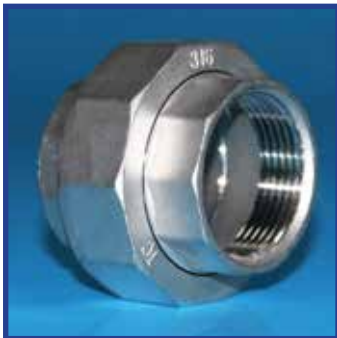
STOCK CODE	SIZE	A (MM)	B (MM)
N/A	1/8"	15.2	17.0
N/A	1/4"	19.7	19.0
N/A	3/8"	23.3	22.9
N/A	1/2"	28.0	26.8
N/A	3/4"	34.8	32.0
N/A	1"	43.6	37.5
N/A	1 1/4"	53.0	45.9
N/A	1 1/2"	58.0	47.6
N/A	2"	71.0	56.3
N/A	2 1/2"	87.0	69.0
N/A	3"	99.0	78.0
N/A	4"	125.0	97.0

TEE BANDED (Female/Female/Female) 304/316

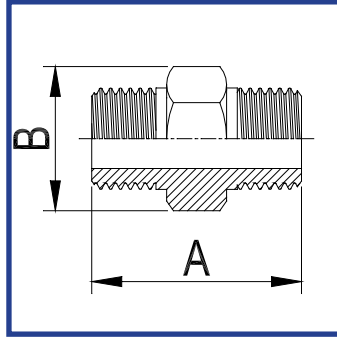
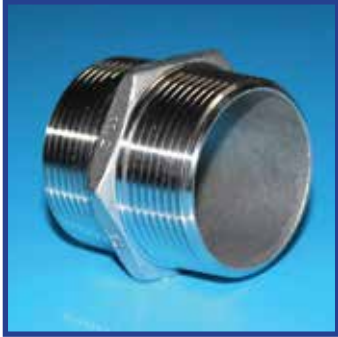


STOCK CODE	SIZE	A (MM)	B (MM)
BET18	1/8"	18.0	17.0
BET14	1/4"	21.3	21.0
BET38	3/8"	23.5	23.6
BET12	1/2"	29.0	27.0
BET34	3/4"	35.0	33.0
BET1	1"	43.0	38.0
BET114	1 1/4"	52.0	45.0
BET112	1 1/2"	58.0	50.0
BET2	2"	71.0	58.0
BET212	2 1/2"	86.6	68.7
BET3	3"	99.2	77.8
BET4	4"	125.0	97.0

UNION CONICAL JOINT (Female/Female) 304/316

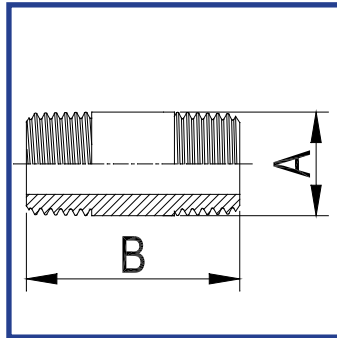


STOCK CODE	SIZE	A (MM)	B (MM)
BU18	1/8"	25.0	29.0
BU14	1/4"	30.0	37.5
BU38	3/8"	35.0	38.0
BU12	1/2"	42.0	42.0
BU34	3/4"	47.0	50.4
BU1	1"	53.0	48.0
BU114	1 1/4"	71.0	59.0
BU112	1 1/2"	78.0	64.0
BU2	2"	92.0	69.0
BU212	2 1/2"	112.0	80.0
BU3	3"	126.0	88.0
BU4	4"	157.0	108.0



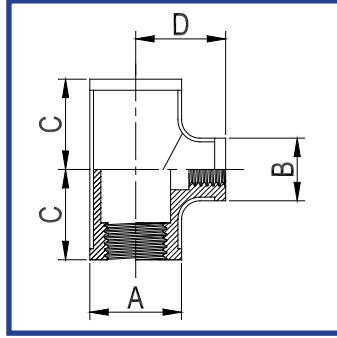
HEXAGON NIPPLE (Male/Male) 304/316

STOCK CODE	SIZE	A (MM)	B (MM)
BHN18	1/8"	23.6	12.0
BHN14	1/4"	27.8	16.0
BHN38	3/8"	28.0	19.0
BHN12	1/2"	34.0	21.6
BHN34	3/4"	40.0	30.0
BHN1	1"	46.0	36.0
BHN114	1 1/4"	52.5	46.0
BHN112	1 1/2"	54.0	50.0
BHN2	2"	62.0	65.5
BHN212	2 1/2"	70.0	79.5
BHN3	3"	78.4	90.0
BHN4	4"	94.0	120.0



BARREL NIPPLE (Male/Male) 304/316

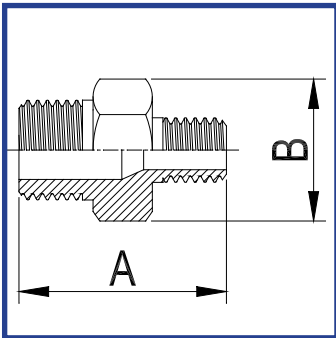
STOCK CODE	SIZE	A (MM)	B (MM)
BBN18	1/8"	10.2	40.0
BBN14	1/4"	13.5	40.0
BBN38	3/8"	17.2	40.0
BBN12	1/2"	21.3	60.0
BBN34	3/4"	26.9	60.0
BBN1	1"	33.7	60.0
BBN114	1 1/4"	42.4	80.0
BBN112	1 1/2"	48.3	80.0
BBN2	2"	60.3	100.0
BBN212	2 1/2"	76.1	120.0
BBN3	3"	88.9	120.0
BBN4	4"	157.0	108.0



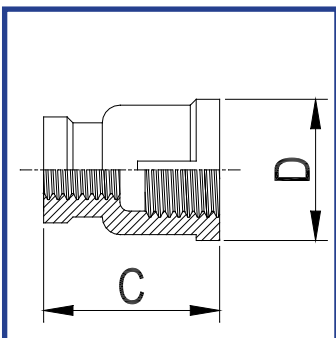
BSP REDUCING SOCKET TEE (Female/Female) 304/316

STOCK CODE	SIZE	A (MM)	B (MM)	C (MM)	D (MM)
N/A	½" x 1/8"	28.8	16.9	22.0	23.0
N/A	½" x ¼"	28.8	20.8	24.0	24.0
N/A	½" x 3/8"	28.8	23.3	26.0	25.0
N/A	¾" x ¼"	35.8	20.8	25.0	27.0
N/A	¾" x 3/8"	35.8	23.3	28.0	28.0
N/A	¾" x ½"	37.0	30.0	30.0	31.5
N/A	1" x ¼"	43.3	20.8	28.0	31.0
N/A	1" x 3/8"	43.3	23.3	30.0	31.0
N/A	1" x ½"	44.0	30.5	32.0	33.4
N/A	1" x ¾"	43.3	35.8	34.0	35.0
N/A	1¼" x 3/8"	51.4	23.3	32.0	36.0
N/A	1¼" x ½"	51.4	28.8	34.0	38.0
N/A	1¼" x ¾"	51.4	35.8	38.0	40.0
N/A	1¼" x 1"	51.4	43.3	40.0	42.0
N/A	1½" x 3/8"	57.9	23.3	34.0	40.0
N/A	1½" x ½"	57.9	28.8	35.0	42.0
N/A	1½" x ¾"	57.9	35.8	38.0	43.0
N/A	1½" x 1"	57.9	43.3	41.0	45.0
N/A	1½" x 1¼"	57.9	51.4	45.0	48.0
N/A	2" x ½"	70.6	28.8	38.0	48.0
N/A	2" x ¾"	70.6	35.8	41.0	49.0
N/A	2" x 1"	70.6	43.3	44.0	51.0
N/A	2" x 1¼"	70.6	51.4	48.0	54.0
N/A	2" x 1½"	70.6	57.9	52.0	55.0

**HEXAGON NIPPLE REDUCING
(Male/Male) 304/316**

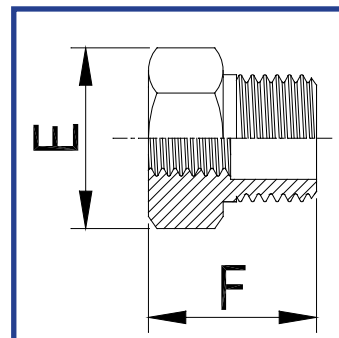


**HEXAGON NIPPLE REDUCING
(Female/Female) 304/316**

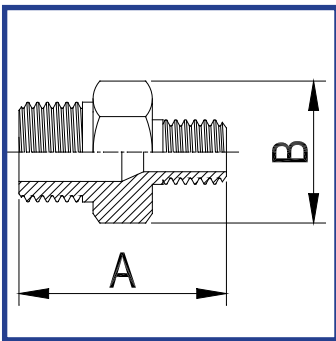


STOCK CODE	SIZE	A (MM)	B (MM)	C (MM)	D (MM)	E (MM)	F (MM)
N/A	¼" x 1/8"	34.0	18.0	26.0	21.5	16.0	15.2
N/A	3/8" x 1/8"	36.0	21.0	30.0	22.6	18.0	16.5
N/A	3/8" x ¼"	34.0	21.0	29.0	26.0	18.0	16.5
N/A	½" x 1/8"	34.0	26.0	34.4	29.4	26.0	21.0
N/A	½" x ¼"	34.0	26.0	33.0	29.7	26.0	21.0
N/A	½" x 3/8"	41.0	26.0	34.0	29.0	26.0	21.0
N/A	¾" x 1/8"	37.0	30.0	38.0	36.7	-	-
N/A	¾" x ¼"	37.0	30.0	34.5	36.5	30.0	24.0
N/A	¾" x 3/8"	37.0	30.0	36.5	36.8	30.0	24.0
N/A	¾" x ½"	45.0	30.0	37.0	36.7	30.0	24.0
N/A	1" x 1/8"	-	-	41.7	43.7	-	-
N/A	1" x ¼"	39.0	35.0	42.0	43.7	35.0	27.0
N/A	1" x 3/8"	40.0	35.0	42.7	46.3	35.0	27.0
N/A	1" x ½"	43.2	35.0	42.8	44.7	35.0	27.0
N/A	1" x ¾"	50.0	37.0	42.0	43.0	35.0	27.0
N/A	1¼" x 3/8"	46.0	46.0	-	-	-	-
N/A	1¼" x ½"	48.0	46.0	49.0	52.5	45.0	30.0
N/A	1¼" x ¾"	52.0	46.0	48.0	54.5	45.0	30.0
N/A	1¼" x 1"	54.0	46.0	52.0	52.5	45.0	30.0
N/A	1½" x 3/8"	48.0	50.0	47.0	59.0	52.0	36.0
N/A	1½" x ½"	49.0	50.0	51.0	59.0	52.0	36.0
N/A	1½" x ¾"	53.0	50.0	48.5	59.5	52.0	36.0

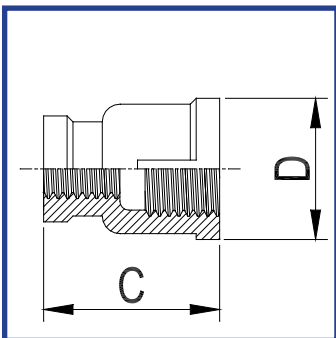
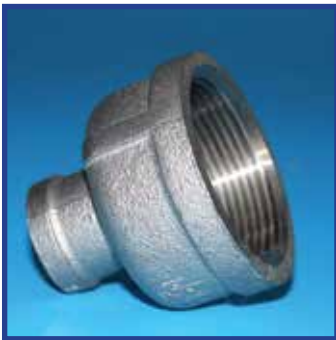
HEXAGON REDUCING BUSHING (Male/Female) 304/316



**HEXAGON REDUCING NIPPLE
(Male/Male) 304/316**

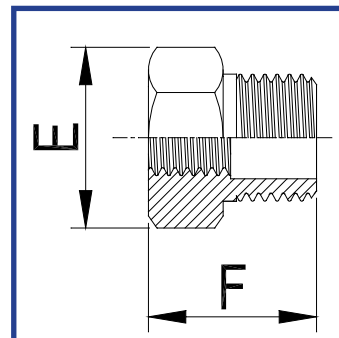


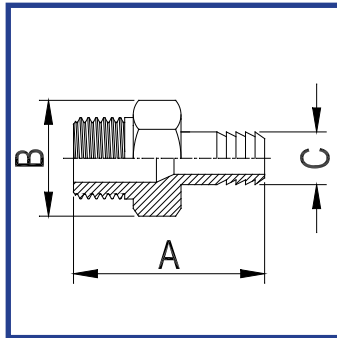
**REDUCING SOCKET
(Female/Female) 304/316**



STOCK CODE	SIZE	A (MM)	B (MM)	C (MM)	D (MM)	E (MM)	F (MM)
N/A	1½" x 1"	53.0	50.0	53.0	59.0	52.0	36.0
N/A	1½" x 1¼"	59.0	50.0	53.0	59.4	52.0	36.0
N/A	2" x ¼"	-	-	-	-	63.0	36.0
N/A	2" x ½"	52.0	63.0	50.5	70.5	63.0	36.0
N/A	2" x ¾"	56.0	63.0	51.0	72.5	63.0	36.0
N/A	2" x 1"	57.0	63.0	56.0	72.8	63.0	36.0
N/A	2" x 1¼"	58.0	63.0	56.0	72.0	63.0	36.0
N/A	2" x 1½"	64.0	64.0	57.0	72.0	63.0	36.0
N/A	2½" x 1"	63.0	80.0	60.0	86.7	81.0	45.0
N/A	2½" x 1¼"	66.0	80.0	60.0	86.5	81.0	45.0
N/A	2½" x 1½"	66.0	80.0	60.0	86.7	81.0	45.0
N/A	2½" x 2"	77.0	76.3	60.8	86.8	81.0	45.0
N/A	3" x 1"	68.0	95.0	62.0	100.0	-	-
N/A	3" x 1¼"	72.0	95.0	62.0	99.0	-	-
N/A	3" x 1½"	72.0	95.0	62.0	99.0	95.0	47.0
N/A	3" x 2"	74.0	95.0	62.0	98.0	95.0	47.0
N/A	3" x 2½"	84.0	95.0	62.0	100.0	95.0	47.0
N/A	4" x 1¼"	82.0	125.0	-	-	-	-
N/A	4" x 1½"	82.0	125.0	-	-	-	-
N/A	4" x 2"	82.0	125.0	-	-	119.0	52.0
N/A	4" x 2½"	82.0	125.0	65.0	128.0	119.0	52.0

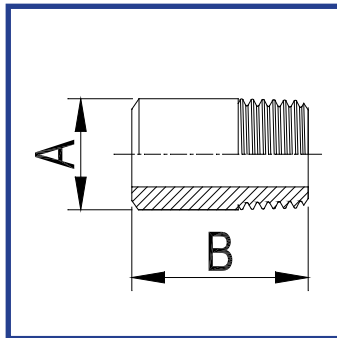
HEXAGON REDUCING BUSHING (Male/Female) 304/316





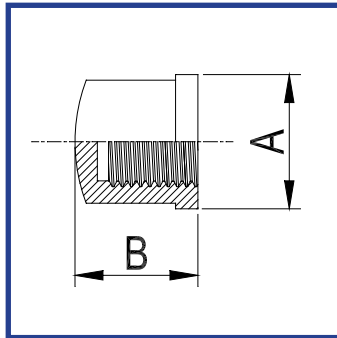
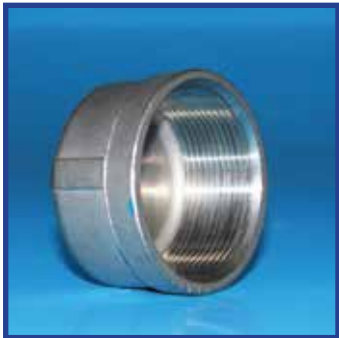
BSP MALE HOSETAIL (Male) 304/316

STOCK CODE	SIZE	A (MM)	B (MM)	C (MM)
BHT18	1/8"	45.0	12.5	4.5
BHT14	1/4"	47.0	16.5	6.35
BHT38	3/8"	55.0	20.0	9.5
BHT12	1/2"	64.0	23.5	12.7
BHT34	3/4"	68.0	31.0	19.05
BHT1	1"	71.0	38.5	25.4
BHT114	1 1/4"	80.0	46.0	31.8
BHT112	1 1/2"	95.0	52.0	38.1
BHT2	2"	105.0	62.0	50.8
BHT212	2 1/2"	107.0	80.0	63.5
BHT3	3"	112.0	91.0	76.2
BHT4	4"	130.0	116.5	101.6



BSP WELDING NIPPLE (Male) 304/316

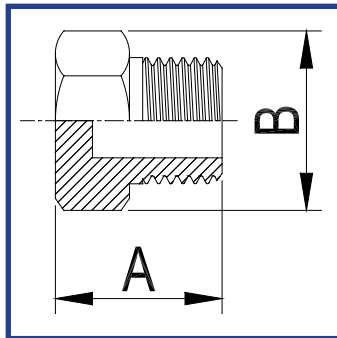
STOCK CODE	SIZE	A (MM)	B (MM)
BWN18	1/8"	10.2	30.0
BWN14	1/4"	13.5	30.0
BWN38	3/8"	17.2	30.0
BWN12	1/2"	21.3	35.0
BWN34	3/4"	26.9	40.0
BWN1	1"	33.7	40.0
BWN114	1 1/4"	42.4	50.0
BWN112	1 1/2"	48.3	50.0
BWN2	2"	60.3	50.0
BWN212	2 1/2"	76.1	60.0
BWN3	3"	88.9	70.0
BWN4	4"	114.3	80.0



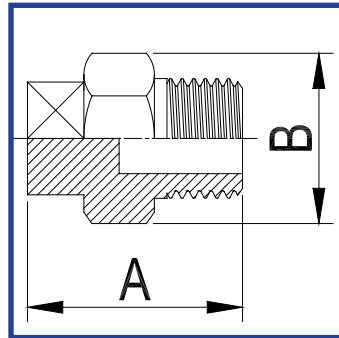
BSP ROUND CAP BANDED (Female) 304/316

STOCK CODE	SIZE	A (MM)	B (MM)
BRC18	1/8"	18.0	15.0
BRC14	1/4"	21.0	17.0
BRC38	3/8"	24.0	17.0
BRC12	1/2"	27.3	19.0
BRC34	3/4"	35.0	24.0
BRC1	1"	42.0	29.0
BRC114	1 1/4"	52.0	32.0
BRC112	1 1/2"	57.5	34.0
BRC2	2"	69.3	38.0
BRC212	2 1/2"	91.0	43.0
BRC3	3"	106.0	48.0
BRC4	4"	133.0	53.0

HEXAGON PLUG- TAPER THREAD (Male) 304/316

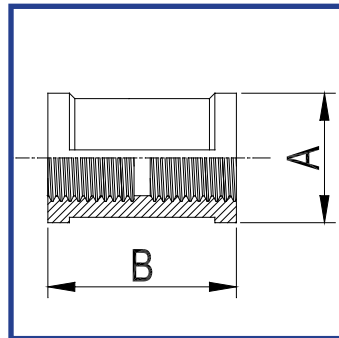


STOCK CODE	SIZE	A (MM)	B (MM)
BHP18	1/8"	17.0	12.0
BHP14	1/4"	17.5	16.0
BHP38	3/8"	18.0	20.0
BHP12	1/2"	25.0	24.0
BHP34	3/4"	26.0	30.0
BHP1	1"	29.0	38.0
BHP114	1 1/4"	35.0	46.0
BHP112	1 1/2"	38.0	52.0
BHP2	2"	39.0	65.0
BHP212	2 1/2"	44.0	81.0
BHP3	3"	54.0	94.0
BHP4	4"	125.0	64.7



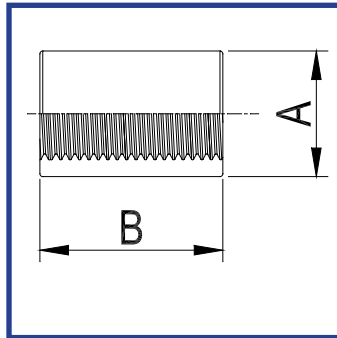
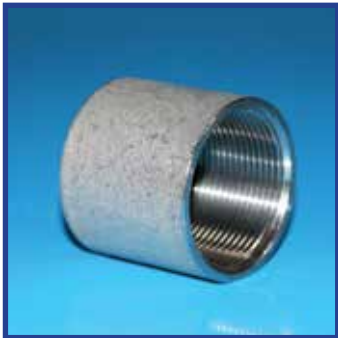
BSP SQUARE PLUG (Male) 304/316

STOCK CODE	SIZE	A (MM)	B (MM)
BSP18	1/8"	19.0	6x6
BSP14	1/4"	20.0	9x9
BSP38	3/8"	22.0	11x11
BSP12	1/2"	25.0	13x13
BSP34	3/4"	27.0	16x16
BSP1	1"	32.0	20x20
BSP114	1 1/4"	35.0	24x24
BSP112	1 1/2"	37.0	25x25
BSP2	2"	38.0	32x32
BSP212	2 1/2"	48.0	42x42
BSP3	3"	52.0	46x46
BSP4	4"	62.00	58x58



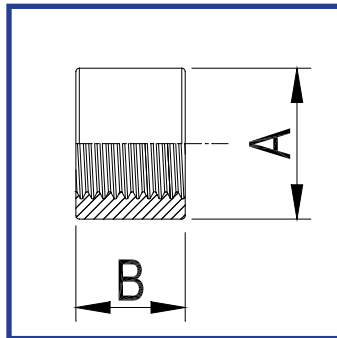
BSP SOCKET BANDED (Female/Female) 304/316

STOCK CODE	SIZE	A (MM)	B (MM)
N/A	1/8"	16.0	24.0
N/A	1/4"	20.0	26.0
N/A	3/8"	25.0	29.0
N/A	1/2"	30.0	36.0
N/A	3/4"	37.2	38.0
N/A	1"	44.0	41.0
N/A	1 1/4"	52.0	49.0
N/A	1 1/2"	60.0	49.0
N/A	2"	72.0	55.0
N/A	2 1/2"	89.0	61.6
N/A	3"	104.0	71.0
N/A	4"	131.0	84.0



BSP SOCKET PLAIN (Female/Female) 304/316

STOCK CODE	SIZE	A (MM)	B (MM)
BS18	1/8"	15.0	17.0
BS14	1/4"	18.5	25.0
BS38	3/8"	21.3	26.0
BS12	1/2"	27.7	34.0
BS34	3/4"	33.0	36.0
BS1	1"	39.7	43.3
BS114	1 1/4"	49.0	48.0
BS112	1 1/2"	55.0	48.0
BS2	2"	67.0	56.0
BS212	2 1/2"	82.9	65.6
BS3	3"	96.0	71.0
BS4	4"	123.6	83.5



BSP HALF SOCKET PLAIN (Female/Female) 304/316

STOCK CODE	SIZE	A (MM)	B (MM)
BHS18	1/8"	15.0	10.0
BHS14	1/4"	18.5	11.0
BHS38	3/8"	21.3	12.0
BHS12	1/2"	27.7	15.5
BHS34	3/4"	33.0	17.4
BHS1	1"	39.7	20.0
BHS114	1 1/4"	49.0	22.0
BHS112	1 1/2"	55.0	22.0
BHS2	2"	67.0	26.9
BHS212	2 1/2"	82.9	31.0
BHS3	3"	96.0	34.0
BHS4	4"	123.6	39.0