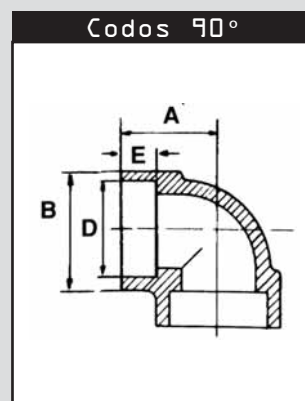




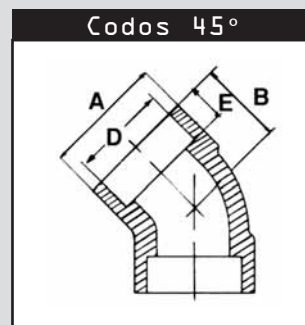
Accesorios forjados de acero inoxidable

ASME / ANSI B 16.11 - Enchufe y soldadura (S.W.)

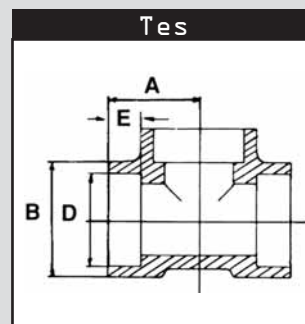
	3.000 lbs					6.000 lbs				
	A mm	B mm	D mm	E mm	Peso Kg/100	A mm	B mm	D mm	E mm	Peso Kg/100
1/4"	24,5	25,5	14,0	13,5	12,0	-	-	-	-	-
3/8"	24,5	25,5	17,5	11,0	10,4	-	-	-	-	-
1/2"	28,5	33,5	21,7	12,5	21,8	33,5	38,0	21,7	14,5	40,0
3/4"	33,5	38,0	27,1	14,5	30,8	38,0	46,0	27,1	16,0	62,1
1"	38,0	46,0	33,8	16,0	46,7	44,5	55,5	33,8	17,5	102,1
1 1/4"	44,5	55,5	42,6	17,5	67,1	51,0	62,0	42,6	19,0	132,1
1 1/2"	51,0	62,0	48,7	19,0	90,2	60,5	75,5	48,7	22,0	237,0
2"	60,5	75,7	61,1	22,0	136,1	63,5	84,0	61,1	22,0	272,4
2 1/2"	76,0	92,0	73,8	34,5	280,0	86,0	110,0	73,8	30,0	580,0
3"	86,0	110,0	89,8	29,0	440,0	95,5	120,5	89,8	32,0	840,0
4"	114,5	152,5	115,4	48,0	1.330,0	114,5	152,5	115,4	35,0	1.580,0



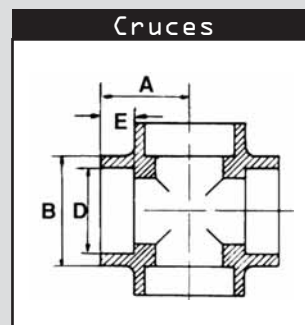
1/4"	25,5	19,0	14,0	9,5	9,5	-	-	-	-	-
3/8"	25,5	19,0	17,5	11,0	9,0	-	-	-	-	-
1/2"	38,0	25,5	21,7	11,0	26,0	38,0	25,5	21,7	12,5	31,0
3/4"	38,0	25,5	27,1	12,5	25,0	46,0	28,5	27,1	14,5	52,0
1"	46,0	28,5	33,8	14,5	38,1	55,5	33,5	33,8	16,0	92,0
1 1/4"	55,5	33,5	42,6	16,0	60,8	62,0	35,0	42,6	14,5	102,0
1 1/2"	62,0	35,0	48,7	16,0	70,8	75,5	43,0	48,7	17,5	191,5
2"	75,5	43,0	61,1	17,5	113,5	84,0	43,5	61,1	15,0	228,5
2 1/2"	101,5	52,5	73,8	24,0	336,0	101,5	52,5	73,8	20,5	404,0
3"	118,0	63,5	89,8	32,0	470,0	118,0	63,5	89,8	28,5	580,0
4"	146,0	79,5	115,4	38,0	900,0	146,0	79,5	115,4	38	1.065,0



1/4"	24,5	25,5	14,0	13,5	15,5	-	-	-	-	-
3/8"	24,5	25,5	17,5	11,0	14,1	-	-	-	-	-
1/2"	28,5	33,5	21,7	12,5	30,8	33,5	38,0	21,7	14,5	52,6
3/4"	33,5	38,0	27,1	14,5	38,6	38,0	46,0	27,1	16,0	88,1
1"	38,0	46,0	33,8	16,0	60,8	44,5	55,5	33,8	17,5	144,0
1 1/4"	44,5	55,5	42,6	17,5	93,1	51,0	62,0	42,6	19,0	179,3
1 1/2"	51,0	62,0	48,7	19,0	123,8	60,5	75,5	48,7	22,0	324,0
2"	60,5	75,7	61,1	22,0	191,1	63,5	84,0	61,1	22,0	350,5
2 1/2"	76,0	92,0	73,8	34,5	370,0	86,0	110,0	73,8	30,0	880,0
3"	86,0	110,0	89,8	29,0	550,0	95,5	120,5	89,8	32,0	1.050,0
4"	114,5	152,5	115,4	48,0	1.900,0	114,5	152,5	115,4	35,0	2.220,0



1/4"	24,5	25,5	14,0	13,5	18,1	-	-	-	-	-
3/8"	24,5	25,5	17,5	11,0	14,5	-	-	-	-	-
1/2"	28,5	33,5	21,7	12,5	36,3	33,5	38,0	21,7	14,5	62,5
3/4"	33,5	38,0	27,1	14,5	44,9	38,0	46,0	27,1	16,0	104,0
1"	38,0	46,0	33,8	16,0	75,8	44,5	55,5	33,8	17,5	170,5
1 1/4"	44,5	55,5	42,6	17,5	109,0	51,0	62,0	42,6	19,0	211,1
1 1/2"	51,0	62,0	48,7	19,0	145,3	60,5	75,5	48,7	22,0	395,0
2"	60,5	75,7	61,1	22,0	235,2	63,5	84,0	61,1	22,0	422,2
2 1/2"	76,0	92,0	73,8	34,5	450,0	86,0	110,0	73,8	30,0	1.180
3"	86,0	110,0	89,8	29,0	780,0	95,5	120,5	89,8	32,0	1.320
4"	114,5	152,5	115,4	48,0	2.150	114,5	152,5	115,4	35,0	2.600

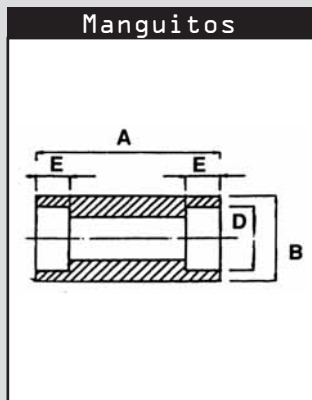


Análisis químico, ver tabla página 102.

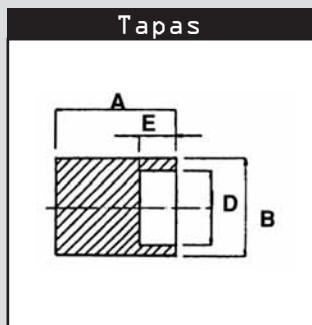


Accesorios forjados de acero inoxidable

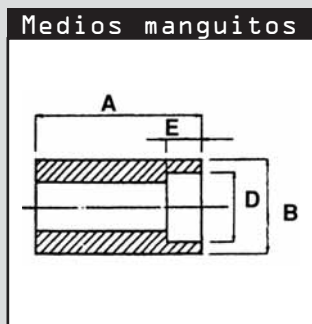
ASME / ANSI B 16.11 - Enchufe y soldadura (S.W)



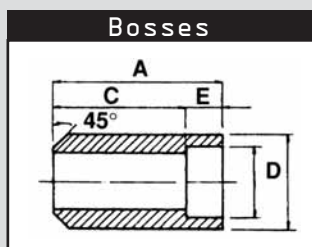
	3.000 lbs					6.000 lbs				
	A mm	B mm	D mm	E mm	Peso Kg/100	A mm	B mm	D mm	E mm	Peso Kg/100
1/4"	24,5	22,0	14,0	9,5	5,0	-	-	-	-	-
3/8"	28,5	25,5	17,5	11,0	6,4	-	-	-	-	-
1/2"	35,0	31,5	21,7	12,5	12,7	35,0	38,0	21,7	12,5	23,2
3/4"	38,0	38,0	27,1	14,5	18,6	38,0	44,5	27,1	14,5	32,0
1"	44,5	44,5	33,8	16,0	26,3	44,5	57,0	33,8	16,0	63,6
1 1/4"	47,5	57,0	42,6	17,5	47,7	47,5	63,5	42,6	17,5	72,2
1 1/2"	51,0	63,5	48,7	19,0	56,8	51,0	76,0	48,7	19,0	117,2
2"	63,5	76,0	61,1	22,0	92,2	63,5	92,0	61,1	22,0	207,9
2 1/2"	66,5	92,0	73,8	23,5	140,0	66,5	108,0	73,8	23,5	280,0
3"	70,0	108,0	89,8	25,5	180,0	70,0	127,0	89,8	25,5	323,0
4"	76,0	140,0	115,4	28,5	323,0	76,0	159,0	115,4	28,5	622,0



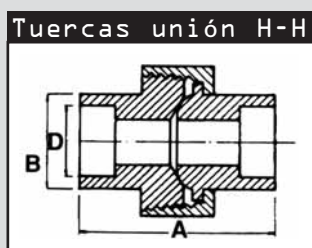
1/4"	17,5	22,0	14,0	9,5	4,1	-	-	-	-	-
3/8"	19,0	25,5	17,5	11,0	5,4	-	-	-	-	-
1/2"	22,0	31,5	21,7	12,5	10,0	25,5	38,0	21,7	12,5	19,1
3/4"	25,5	38,0	27,1	14,5	16,3	27,0	44,5	27,1	14,5	26,5
1"	27,0	44,5	33,8	16,0	21,8	32,0	57,0	33,8	16,0	52,7
1 1/4"	30,0	57,0	42,6	17,5	41,3	33,5	63,5	42,6	17,5	63,6
1 1/2"	32,0	63,5	48,7	19,0	50,8	35,0	76,0	48,7	19,0	97,2
2"	38,0	76,0	61,1	22,0	85,4	41,5	92,0	61,1	22,0	164,3
2 1/2"	38,0	92,0	73,8	23,5	125,0	41,5	108,0	73,8	23,5	223,0
3"	44,5	108,0	89,8	25,5	195,0	47,5	127,0	89,8	25,5	345,0
4"	47,5	140,0	115,4	28,5	336,0	54,0	159,0	115,4	28,5	604,0



1/4"	25,5	22,0	14,0	9,5	5,0	-	-	-	-	-
3/8"	28,5	25,5	17,5	11,0	6,4	-	-	-	-	-
1/2"	35,0	31,5	21,7	12,5	12,7	35,0	38,0	21,7	12,5	23,2
3/4"	38,0	38,0	27,1	14,5	18,6	38,0	44,5	27,1	14,5	31,8
1"	44,5	44,5	33,8	16,0	26,3	44,5	57,0	33,8	16,0	63,6
1 1/4"	47,5	57,0	42,6	17,5	47,2	47,5	63,5	42,6	17,5	72,2
1 1/2"	51,0	63,5	48,7	19,0	56,8	51,0	76,0	48,7	19,0	117,2
2"	63,5	76,0	61,1	22,0	92,2	63,5	92,0	61,1	22,0	207,9
2 1/2"	66,5	92,0	73,8	23,5	140,0	66,5	108,0	73,8	23,5	280,0
3"	70,0	108,0	89,8	25,5	180,0	70,0	127,0	89,8	25,5	323,0
4"	76,0	140,0	115,4	28,5	323,0	76,0	159,0	115,4	28,0	622,0



3.000 LB 6000 LB	Pulg.	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
	A (mm)	41,5	44,5	51,0	51,0	51,0	51,0	51,0	51,0
B (mm)	32,0	35,0	38,0	44,5	57,0	63,5	76,0	92,0	
C (mm)	32,0	33,5	38,0	36,5	35,0	33,5	32,0	28,5	
D (mm)	14,0	17,5	21,7	27,1	33,8	42,6	48,7	61,1	
E (mm)	9,5	11,0	12,5	14,5	16,0	17,5	19,0	22,0	
Peso Kg/100	3.000 lbs.	22,5	29,0	35,5	48,0	76,5	84,0	120,5	171,0
	6.000 lbs.	-	-	38,0	52,5	82,5	92,0	130,5	186,0



3.000 LB	Pulg.	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
	A (mm)	44,5	47,5	54,0	58,5	63,5	71,5	79,5	92,0
	B (mm)	22,0	25,5	32,0	38,0	44,5	57,0	63,5	76,0
	D (mm)	14,0	17,5	21,7	27,1	33,8	42,6	48,7	61,1
	E (mm)	9,5	11,0	12,5	14,5	16,0	17,5	19,0	22,0
Peso=Kg/100		22,5	34,0	39,0	48,0	66,0	115,0	142,0	245,0

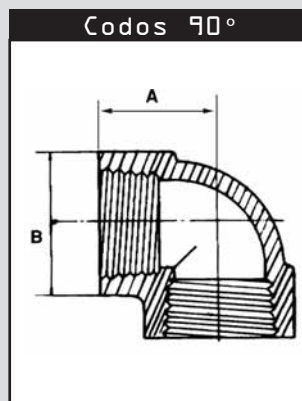
Análisis químico, ver tabla página 102.



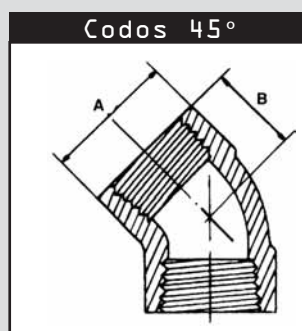
Accesorios forjados de acero inoxidable roscados

ASME / ANSI B 16.11 - Rosca ASME / ANSI B1.20.1 (NPT)

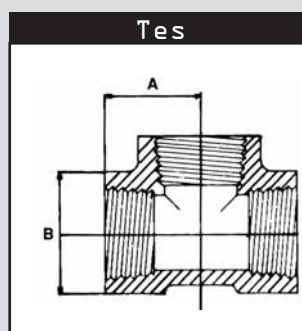
Diámetro	3.000 lbs			6.000 lbs		
	A mm	B mm	Peso Kg/100	A mm	B mm	Peso Kg/100
1/4"	24,5	25,5	14,0	28,5	33,5	30,0
3/8"	28,5	33,5	27,0	33,5	38,0	45,5
1/2"	33,5	38,0	41,5	38,0	46,0	72,0
3/4"	38,0	46,0	65,0	44,5	55,5	115,5
1"	44,5	55,5	103,5	51,0	62,0	161,5
1 1/4"	51,0	62,0	130,5	60,5	75,5	267,0
1 1/2"	60,5	75,5	221,5	63,5	84,0	320,5
2"	63,5	84,0	247,0	86,0	110,0	794,0
2 1/2"	86,0	110,0	734,0	95,5	120,5	985,0
3"	95,5	120,5	778,0	114,5	152,5	1.800,0
4"	114,5	152,5	1.328,0	-	-	-



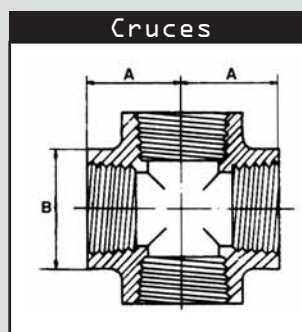
1/4"	25,5	19,0	11,5	38,0	25,5	40,5
3/8"	38,0	25,5	36,5*	38,0	25,5	38,5
1/2"	38,0	25,5	34,0	46,0	28,5	61,0
3/4"	46,0	28,5	55,5	55,5	33,5	102,0
1"	55,5	33,5	92,0	62,0	35,0	117,5
1 1/4"	62,0	35,0	96,5	75,5	43,0	207,0
1 1/2"	75,5	43,0	183,5	84,0	43,5	261,0
2"	84,0	43,5	193,0	101,5	52,5	437,0
2 1/2"	101,5	52,5	346,0	120,5	63,5	700,0
3"	120,5	63,5	545,0	152,5	79,5	1.416,0
4"	152,5	79,5	950,0	-	-	-



1/4"	24,5	25,5	19,5,0	28,5	33,5	41,5
3/8"	28,5	33,5	38,0	33,5	38,0	62,5
1/2"	33,5	38,0	56,0	38,0	46,0	98,0
3/4"	38,0	46,0	84,0	44,5	55,5	164,5
1"	44,5	55,5	136,0	51,0	62,0	219,0
1 1/4"	51,0	62,0	164,5	60,5	75,5	331,5
1 1/2"	60,5	75,5	310,0	63,5	84,0	442,5
2"	63,5	84,0	317,5	86,0	110,0	850,0
2 1/2"	86,0	110,0	880,0	95,5	120,5	1.310,0
3"	95,5	120,5	950,0	114,5	152,5	2.400,0
4"	114,5	152,5	1.720,0	-	-	-



1/4"	24,5	25,5	20,5	28,5	33,5	50,8
3/8"	28,5	33,5	43,5	33,5	38,0	70,3
1/2"	33,5	38,0	65,9	38,0	46,0	117,5
3/4"	38,0	46,0	104,5	44,5	55,5	191,0
1"	44,5	55,5	169,0	51,0	62,0	255,8
1 1/4"	51,0	62,0	199,5	60,5	75,5	434,5
1 1/2"	60,5	75,5	369,0	63,5	84,0	516,6
2"	63,5	84,0	377,0	86,0	110,0	1.200,0
2 1/2"	86,0	110,0	950,0	95,5	120,5	1.650,0
3"	95,5	120,5	1.300,0	114,5	152,5	2.800,0
4"	114,5	152,5	1.900,0	-	-	-

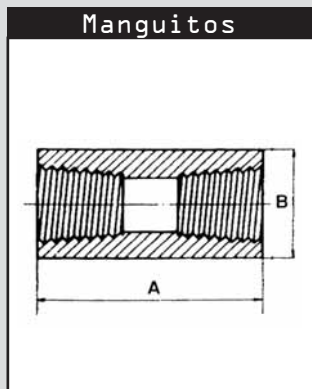


Análisis químico, ver tabla página 102.

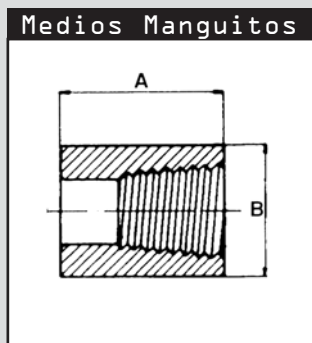


Accesorios forjados de acero inoxidable roscados

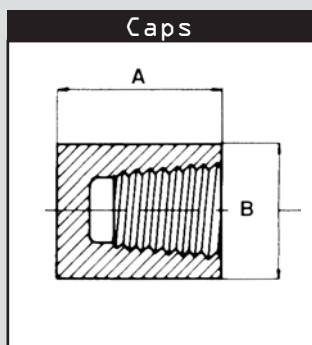
ASME / ANSI B 16.11 - Rosca ASME / ANSI B1.20.1 (NPT)



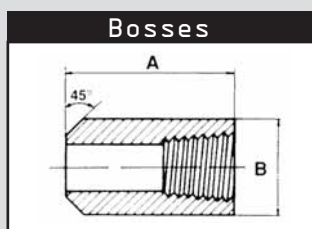
	Diámetro	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
3.000 LB	A (mm)	35,0	38,0	47,5	51,0	60,5	66,5	79,5	85,5	92,0	108,0	120,5
	B (mm)	19,0	22,0	29,0	35,0	44,5	57,0	63,5	76,0	92,0	108,0	140,0
	Peso=Kg/100	4,5	5,9	12,7	19,1	38,6	68,0	99,3	137,0	207,0	308,0	544,0
6.000 LB	A (mm)	35,0	38,0	47,5	51,0	60,5	66,5	79,5	85,5	92,0	108,0	120,5
	B (mm)	25,5	32,0	38,0	44,5	57,0	63,5	76,0	92,0	108,0	127,0	159,0
	Peso=Kg/100	6,3	18,1	31,2	40,8	85,2	105,0	181,0	340,0	419,0	610,0	1030



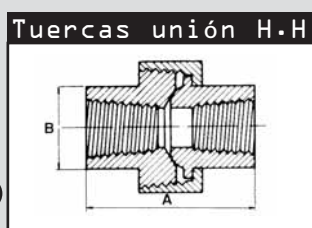
3.000 LB	A (mm)	17,5	19,0	24,0	25,5	30,0	33,5	39,5	43,0	46,0	54,0	60,0
	B (mm)	19,0	22,0	29,0	35,0	44,5	57,0	63,5	76,0	92,0	108,0	140,0
	Peso=Kg/100	2,3	3,2	6,4	9,5	20,0	34,0	49,9	68,5	103,5	154,0	273,0
6.000 LB	A (mm)	17,5	19,0	24,0	25,5	30,0	33,5	39,5	43,0	46,0	54,0	60,0
	B (mm)	25,5	32,0	38,0	44,5	57,0	63,5	76,0	92,0	108,0	127,0	159,0
	Peso=Kg/100	3,1	9,1	15,8	20,4	42,6	52,6	90,7	170,0	210,0	305,0	503,0



3.000 LB	A (mm)	25,5	25,5	32,0	36,5	41,5	44,5	44,5	47,5	60,5	65,0	68,0
	B (mm)	19,0	22,0	29,0	35,0	44,5	57,0	63,5	76,0	92,0	108,0	140,0
	Peso=Kg/100	4,1	5,0	10,9	17,7	32,7	59,9	69,8	106,0	184,0	165,0	457,0
6.000 LB	A (mm)	25,5	30,0	35,0	38,0	46,0	47,5	47,5	51,0	63,5	68,0	74,5
	B (mm)	25,5	32,0	38,0	44,5	57,0	63,5	76,0	92,0	108,0	127,0	159,0
	Peso=Kg/100	5,9	8,6	14,0	20,0	34,0	59,4	76,6	147,0	210,0	200,0	630,0



	Diámetro	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
3.000 LB 6.000 LB	A (mm)	41,5	44,5	51,0	51,0	51,0	51,0	51,0	51,0
	B (mm)	32,0	35,0	38,0	44,5	57,0	63,5	76,0	92,0
	Peso=Kg/100	23,5	29,5	37,5	50,0	80,0	90,0	129,0	178,0



3.000 LB	A (mm)	44,5	47,5	54,0	56,5	63,5	71,5	79,5	92,0
	B (mm)	22,0	22,5	32,0	38,0	44,5	57,0	63,5	76,0
	Peso=Kg/100	14,0	20,0	35,0	42,5	65,0	97,5	125,5	201,0

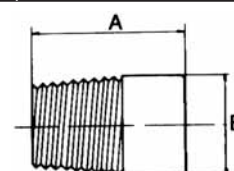


Accesorios forjados de acero inoxidable roscados

ASME / ANSI B 16.11 - Rosca ASME / ANSI B1.20.1 (NPT)

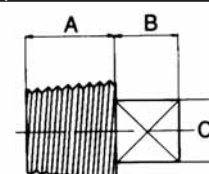
Diámetro	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
A (mm)	41,5	44,5	44,5	44,5	51,0	51,0	51,0	63,5	70,0	70,0	76,0
B (mm)	13,5	17,5	21,5	27,0	33,5	43,0	48,5	60,5	73,0	89,0	114,0
Peso=Kg/100	4,5	7,3	11,8	19,5	33,6	54,9	71,7	141,1	220,0	326,0	602,0

Tapón cabeza redonda



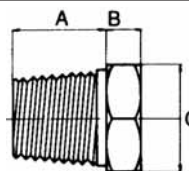
Diámetro	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
A (mm)	11,0	12,5	14,5	16,0	19,0	20,5	20,5	22,0	27,0	29,0	38,0
B (mm)	6,5	8,0	9,5	11,0	12,5	14,5	16,0	17,5	19,0	20,5	31,5
C (mm)	9,5	11,0	14,5	16,0	20,5	24,0	28,5	33,5	38,0	42,0	63,5
Peso=Kg/100	1,4	2,7	4,9	8,6	16,3	27,2	38,1	62,6	95,1	154,0	385,0

Tapón cabeza cuadrada



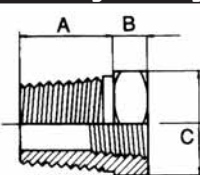
Diámetro	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
A (mm)	16,0	17,5	19,0	24,0	25,5	25,5	25,5	27,0	40,0	42,0	45,0
B (mm)	6,5	8,0	8,0	9,5	9,5	14,5	16,0	17,5	19,0	20,5	25,5
C (mm)	16,0	17,5	22	27,0	36,5	46,0	51,0	63,5	76,0	94,0	118,0
Peso=Kg/100	2,6	4,8	7,3	17,9	24,7	44,5	59,5	115,8	175,0	250,0	600,0

Tapón cabeza hexagonal



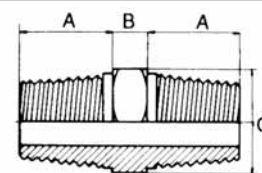
Diámetro	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
A (mm)	12,5	14,5	17,5	19,0	20,5	22,0	24,0	25,5	30,0	38,0	45,0
B (mm)	5,0	5,0	5,0	6,5	6,5	9,5	9,5	11,0	12,5	17,5	25,5
C (mm)	16,0	17,5	22,0	27,0	36,5	46,0	51,0	63,5	76,0	94,0	118,0
Peso=Kg/100	0,9	1,3	2,7	5,0	8,6	17,7	16,3	38,1	54,0	117,0	315,0

Bussing hexagonal



Diámetro	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
A (mm)	12,5	14,5	17,5	19	20,5	22,0	24,0	25,5	30,0	38,0	45,0
B (mm)	6,5	8,0	8,0	9,5	9,5	12,5	14,5	16,0	19,0	20,5	25,5
C (mm)	16,0	17,5	22,0	27,0	36,5	46,0	51,0	63,5	76,0	94,0	118,0
Peso=Kg/100	1,8	2,7	5,5	9,5	16,3	34,0	32,7	72,1	110,0	130,0	240,0

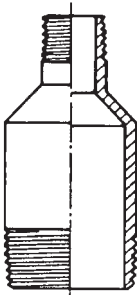
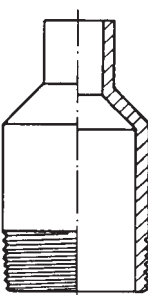
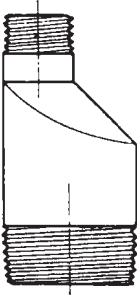
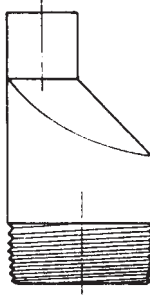
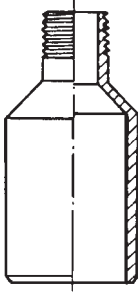
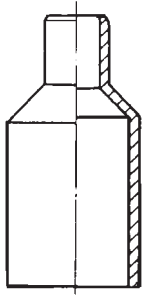
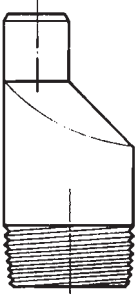
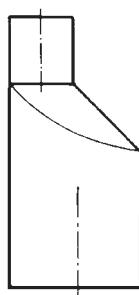
Nipple hexagonal



Análisis químico, ver tabla página 102.






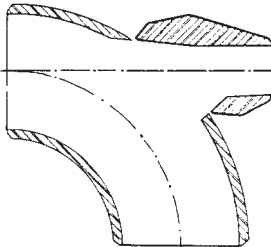
Accesorios forjados en acero inoxidable

Swages nipples concéntricos		Swages nipples excéntricos	
 <p>Ambos extremos roscados</p>	 <p>Extremo mayor roscado, menor plano</p>	 <p>Ambos extremos roscados</p>	 <p>Extremo menor plano, mayor roscado</p>
 <p>Extremo menor roscado, mayor biselado</p>	 <p>Extremo menor biselado, mayor plano</p>	 <p>Extremo menor biselado, mayor roscado</p>	 <p>Ambos extremos planos</p>

Código para nomenclatura de los extremos

P.B.E.	EXTREMOS PLANOS	T.B.E.	EXTREMOS ROSCADOS
P.L.E.	EXTREMO MAYOR PLANO	T.L.E.	EXTREMO MAYOR ROSCADO
P.S.E.	EXTREMO MENOR PLANO	T.S.E.	EXTREMO MENOR ROSCADO
B.B.E.	EXTREMOS BISELADOS	T.O.E.	UN EXTREMO ROSCADO
B.L.E.	EXTREMO MAYOR BISELADO	P.O.E.	UN EXTREMO PLANO
B.S.E.	EXTREMO MENOR BISELADO	B.O.E.	UN EXTREMO BISELADO

Accesorios de derivación

<p>Weldolet</p> 	<p>Socketlet</p> 	<p>Threadolet</p> 	<p>Elbolet</p> 
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