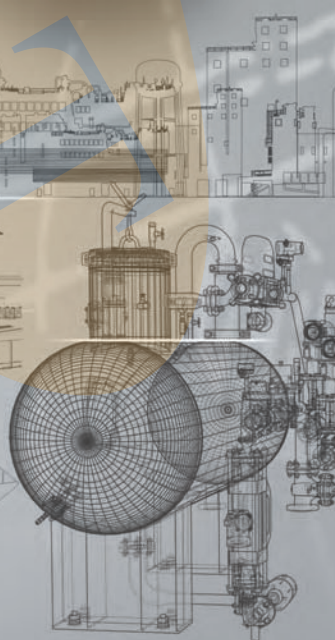


FERRAMENTAS ANTI-FAISCANTES 10



Inovação é  
a nossa missão!

**MAXOLIT**  
SOLUÇÃO PROFISSIONAL



	A PARTIR DA PÁGINA	
CHAVES DE BOCAS ANTI-FAISCANTES	270	3
CHAVES COMBINADAS ANTI-FAISCANTES	271	4
CHAVES LUNETAS ANTI-FAISCANTES	272	5
CHAVES DE IMPACTO ANTI-FAISCANTES	273	6
CHAVES DE MONTAGEM ANTI-FAISCANTES	276	7
CHAVES DE ACOPLAMENTO E DE GANCHO	277	8
CHAVES ESPECIAIS ANTI-FAISCANTES	277	9
CHAVES DE CAIXA ANTI-FAISCANTES	278	10
ROQUETE LIVRE ANTI-FAISCANTES	281	11
CHAVE DE CAIXA ANTI-FAISCANTES DE ACIONAMENTO DE 1/4"	281	12
CHAVE DE CAIXA ANTI-FAISCANTES DE ACIONAMENTO DE 1/2"	282	13
CHAVE DE CAIXA ANTI-FAISCANTES DE ACIONAMENTO DE 3/4"	285	14
CHAVE DE CAIXA ANTI-FAISCANTES DE ACIONAMENTO DE 1"	287	15
CHAVE DE CAIXA ANTI-FAISCANTES DE ACIONAMENTO DE 1.1/2"	289	16
APARAFUSADORAS ANTI-FAISCANTES	289	17
CHAVES ANGULARES ANTI-FAISCANTES	290	18
ALICATES ANTI-FAISCANTES	292	19
PINÇAS ANTI-FAISCANTES	294	20
BROCAS ANTI-FAISCANTES	295	21
SERRAS ANTI-FAISCANTES	295	22
ESCOVAS ANTI-FAISCANTES	295	23
LIMAS ANTI-FAISCANTES	296	24
FACAS ANTI-FAISCANTES	296	25
TESOURAS ANTI-FAISCANTES	297	26
FERRAMENTAS DE TRAÇÃO E CORTE ANTI-FAISCANTES	297	27
RASPADORES ANTI-FAISCANTES	297	28
ABRE-FLANGES ANTI-FAISCANTES	298	29
MARTELOS ANTI-FAISCANTES	298	30
MACHADINHAS ANTI-FAISCANTES	301	
GANCHOS ANTI-FAISCANTES	302	
ESCOPROS ANTI-FAISCANTES	302	
PUNÇÕES PARA CAVILHAS E PASSADORES ANTI-FAISCANTES	303	
FERRAMENTAS DE CONSTRUÇÃO CIVIL ANTI-FAISCANTES	305	
ESPÁTULA ANTI-FAISCANTE	306	
PÁS E FORQUILHAS ANTI-FAISCANTES	306	
CUNHAS ANTI-FAISCANTES	308	
ARRANCA-PREGOS ANTI-FAISCANTES	308	
PÉS-DE-CABRA ANTI-FAISCANTES	308	
LEVANTA-BARRIS ANTI-FAISCANTES	309	
MANILHAS ANTI-FAISCANTES	309	
CORTA-TUBOS ANTI-FAISCANTES	310	
FERRAMENTAS DE APERTO ANTI-FAISCANTES	310	
PREGOS ANTI-FAISCANTES	310	
BOMBA DE ÓLEO ANTI-FAISCANTE	310	
FERRAMENTAS DE LEVANTAMENTO ANTI-FAISCANTES	310	



**CHAVES DE BOCAS ANTI-FAISCANTES**

**BRONZEplus Chave de bocas dupla**

- em cumprimento da DIN 895 / ISO 3318 / ISO 1085
- posição da boca com ângulo de 15°
- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	mm	L mm	A mm	B1 mm	B2 mm	kg
963.7005	6x7	125,0	6,0	15,0	17,0	0,03
963.7006	6x8	125,0	6,0	15,0	17,0	0,03
963.7007	7x8	125,0	6,0	19,0	22,0	0,03
963.7008	7x9	125,0	6,0	19,0	22,0	0,04
963.7009	8x9	125,0	6,0	19,0	22,0	0,04
963.7010	8x10	125,0	6,0	19,0	22,0	0,06
963.7011	9x10	125,0	6,0	19,0	22,0	0,06
963.7012	9x11	140,0	7,0	22,0	27,0	0,09
963.7013	10x11	140,0	7,0	22,0	27,0	0,09
963.7014	10x12	140,0	7,0	22,0	27,0	0,06
963.7015	10x13	140,0	7,0	22,0	27,0	0,08
963.7016	10x14	160,0	7,5	27,0	30,0	0,18
963.7017	11x13	160,0	7,5	27,0	30,0	0,18
963.7018	11x14	160,0	7,5	27,0	30,0	0,18
963.7019	12x13	160,0	7,5	27,0	30,0	0,18
963.7020	12x14	160,0	7,5	27,0	30,0	0,17
963.7021	16x15	160,0	7,5	27,0	30,0	0,17
963.0045	13x17	140,0	9,5	30,0	36,0	0,11
963.7022	14x15	200,0	8,0	30,0	36,0	0,11
963.7023	14x16	200,0	8,0	30,0	36,0	0,22
963.7024	14x17	200,0	8,0	30,0	36,0	0,22
963.7025	16x17	200,0	8,0	35,0	38,0	0,21
963.7026	16x18	200,0	8,0	35,0	38,0	0,21
963.7027	17x19	225,0	10,0	35,0	38,0	0,35
963.0046	17x21	190,0	10,0	39,0	44,0	0,19
963.7028	17x22	225,0	10,0	39,0	44,0	0,32
963.7029	18x19	225,0	10,0	39,0	44,0	0,32
963.7030	18x20	225,0	10,0	39,0	44,0	0,31
963.7031	18x21	225,0	10,0	39,0	44,0	0,30
963.0047	19x21	190,0	10,0	39,0	44,0	0,21
963.7032	19x22	240,0	11,0	39,0	44,0	0,44
963.7033	19x24	240,0	11,0	44,0	48,0	0,42
963.7034	20x22	240,0	11,0	44,0	48,0	0,44
963.7035	21x23	240,0	11,0	44,0	48,0	0,42
963.7036	22x24	240,0	11,0	44,0	48,0	0,42
963.7037	22x27	270,0	12,0	48,0	54,0	0,73
963.7038	23x26	270,0	12,0	48,0	54,0	0,73
963.7039	24x26	270,0	12,0	48,0	54,0	0,73
963.7040	24x27	270,0	12,0	48,0	54,0	0,73
963.7041	24x30	270,0	13,0	54,0	60,0	0,70
963.7042	25x28	270,0	13,0	54,0	60,0	0,70
963.7043	26x29	270,0	13,0	54,0	60,0	0,70
963.0048	26x32	260,0	14,0	59,0	62,0	0,47
963.7044	27x29	300,0	13,0	54,0	60,0	0,81
963.7045	27x30	300,0	13,0	54,0	60,0	0,80
963.7046	27x32	300,0	14,0	59,0	62,0	0,80
963.7047	30x32	300,0	14,0	59,0	62,0	0,78
963.7048	30x34	320,0	16,0	70,0	75,0	1,24
963.7049	30x36	320,0	16,0	70,0	75,0	1,22
963.7050	32x34	320,0	16,0	70,0	75,0	1,20
963.7051	32x36	320,0	16,0	70,0	75,0	1,14
963.7052	34x36	320,0	16,0	70,0	75,0	1,10
963.7053	35x38	370,0	16,0	75,0	88,0	1,48
963.7054	36x41	370,0	16,0	75,0	88,0	1,48
963.7055	41x46	370,0	18,0	85,0	100,0	1,45
963.7056	46x50	390,0	19,0	95,0	105,0	1,40
963.7057	50x55	440,0	20,0	100,0	115,0	1,70
963.7058	50x60	440,0	22,0	110,0	125,0	1,70
963.7059	55x60	470,0	22,0	110,0	125,0	1,80
963.7060	60x65	470,0	22,0	125,0	135,0	1,80
963.7061	65x70	630,0	24,0	130,0	145,0	3,50
963.7062	70x80	630,0	24,0	140,0	155,0	3,40
963.7063	75x80	630,0	24,0	150,0	165,0	3,30

	mm	L mm	A mm	B1 mm	B2 mm	kg
963.7065	7/32x1/4"	125,0	6,0	15,0	17,0	0,03
963.7066	1/4x5/16"	125,0	6,0	15,0	17,0	0,03
963.7067	5/16x3/8"	125,0	6,0	19,0	22,0	0,06
963.7068	3/8x7/16"	140,0	7,0	22,0	27,0	0,09
963.7069	7/16x1/2"	140,0	7,0	22,0	27,0	0,04
963.7070	1/2x5/8"	160,0	7,5	27,0	30,0	0,17
963.7071	1/2x9/16"	160,0	7,5	27,0	30,0	0,17
963.7072	1/2x11/16"	200,0	8,0	30,0	36,0	0,22
963.7073	9/16x5/8"	200,0	8,0	30,0	36,0	0,22
963.7074	9/16x3/4"	200,0	8,0	30,0	38,0	0,22
963.7075	19/32x11/16"	200,0	8,0	35,0	38,0	0,22
963.7076	19/32x25/32"	200,0	8,0	35,0	38,0	0,22
963.7077	5/8x11/16"	200,0	8,0	35,0	38,0	0,20
963.7078	5/8x3/4"	225,0	10,0	39,0	44,0	0,31
963.0052	11/16x3/4"	175,0	9,5	39,0	44,0	0,15
963.7079	11/16x25/32"	225,0	10,0	39,0	44,0	0,30
963.7080	11/16x7/8"	225,0	10,0	39,0	44,0	0,30
963.7082	3/4x25/32"	225,0	10,0	39,0	44,0	0,30
963.7083	3/4x13/16"	225,0	10,0	39,0	44,0	0,31
963.7084	3/4x7/8"	225,0	10,0	39,0	44,0	0,31
963.7085	25/32x13/16"	225,0	10,0	39,0	44,0	0,30
963.7086	25/32x7/8"	225,0	10,0	39,0	44,0	0,30
963.7087	13/16x7/8"	225,0	10,0	39,0	44,0	0,30
963.7088	7/8x15/16"	225,0	10,0	39,0	44,0	0,30
963.7089	7/8x31/32"	240,0	10,0	44,0	48,0	0,40
963.7090	7/8x1"	240,0	10,0	44,0	48,0	0,40
963.7091	7/8x1.1/16"	270,0	12,0	48,0	54,0	0,72
963.7092	15/16x1"	270,0	12,0	48,0	54,0	0,72
963.7093	15/16x1.1/16"	270,0	12,0	48,0	54,0	0,72
963.0053	1/1.1/16"	235,0	12,0	48,0	54,0	0,35
963.7094	1x1.1/8"	270,0	12,0	48,0	54,0	0,70
963.7095	1x1.5/16"	300,0	14,0	59,0	62,0	0,75
963.0054	1.1/16x1.1/8"	245,0	13,0	48,0	54,0	0,49
963.7096	1.1/16x1.1/4"	300,0	14,0	59,0	62,0	0,75
963.7098	1.1/16x1.7/16"	320,0	16,0	70,0	75,0	1,22
963.0055	1.1/8x1.3/16"	260,0	14,0	59,0	62,0	0,60
963.7097	1.1/8x1.5/16"	300,0	14,0	59,0	62,0	0,75
963.7099	1.1/8x1.1/2"	320,0	16,0	70,0	75,0	1,15
963.0056	1.3/16x1.1/4"	260,0	14,0	75,0	88,0	0,61
963.7100	1.1/4x1.3/8"	320,0	16,0	70,0	75,0	1,15
963.7101	1.1/4x1.7/16"	320,0	16,0	70,0	75,0	1,15
963.7102	1.5/16x1.1/2"	370,0	16,0	75,0	88,0	1,48
963.7103	1.1/4x1.5/8"	370,0	16,0	75,0	88,0	1,40
963.7104	1.3/8x1.1/2"	370,0	16,0	75,0	88,0	1,40
963.7105	1.7/16x1.5/8"	370,0	16,0	75,0	88,0	1,40
963.7106	1.1/2x1.11/16"	370,0	16,0	75,0	88,0	1,40
963.7107	1.5/8x1.1/4"	370,0	16,0	75,0	88,0	1,40
963.7108	1.5/8x1.3/4"	370,0	16,0	75,0	88,0	1,35
963.7109	1.11/16x1.7/8"	370,0	18,0	85,0	100,0	1,35
963.7110	1.11/16x2"	390,0	19,0	95,0	105,0	1,70
963.7111	1.13/16x2"	390,0	19,0	95,0	105,0	1,70
963.7112	1.3/4x2.1/16"	390,0	19,0	95,0	105,0	1,70
963.7113	2x2.3/16"	440,0	20,0	100,0	115,0	1,70
963.7114	2x2.5/16"	440,0	20,0	100,0	115,0	1,70
963.7115	2.3/16x2.3/8"	470,0	22,0	110,0	125,0	1,80
963.7116	2.1/4x2.3/8"	470,0	22,0	110,0	125,0	1,80

**BRONZEplus Kit de chaves de bocas duplas**

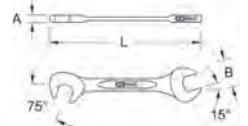
- em cumprimento da DIN 895
- posição da boca com ângulo de 15°
- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	peças	mm	kg
963.7064	12	6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 - 21x23 - 24x26 - 25x28 - 30x32 mm	3,50
963.7117	8	1/4x5/16 - 3/8x7/16 - 7/16x1/2 - 1/2x9/16 - 9/16x5/8 - 5/8x11/16 - 3/4x7/8 - 15/16x1"	1,70

**BRONZEplus Chave de bocas dupla em chapa**

- posição da boca com ângulo de 15° e 75°
- mesmas larguras de chaves
- cabeças planas
- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	mm	A mm	B mm	L mm	kg
963.7118	4	6,0	12,0	70,0	30
963.7119	4,5	6,0	12,0	70,0	30
963.7120	5	6,0	15,0	78,0	30
963.7121	5,5	6,0	15,0	78,0	10
963.7122	6	6,0	15,0	78,0	10
963.7123	7	6,0	19,0	91,0	10
963.7124	8	6,0	19,0	96,0	50
963.7125	9	6,0	22,0	103,0	60
963.7126	10	6,0	22,0	105,0	20
963.7127	11	7,0	25,0	116,0	20
963.7128	12	7,0	25,0	116,0	80
963.7129	13	7,0	30,0	131,0	110
963.7130	14	8,0	30,0	131,0	110

**BRONZEplus Kit de chave de bocas dupla em chapa**

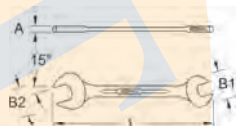
- posição da boca com ângulo de 15° e 75°
- mesmas larguras de chaves
- cabeças planas
- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	peças	mm	kg
963.7131	10	5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 mm	180

**BRONZEplus Chave de bocas dupla em chapa**

- posição da boca com ângulo de 15°
- cabeças planas
- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)

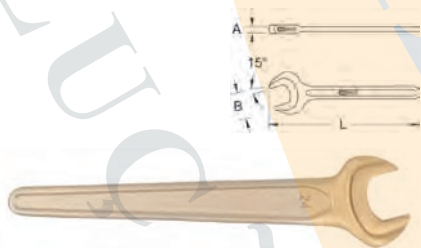


	mm	A mm	B1 mm	B2 mm	L mm	kg
963.7132	3x3,5	5,0	9,0	12,0	50,0	20
963.7133	4x4,5</					

	mm	A mm	B1 mm	B2 mm	L mm	kg
963.7138	5/32x3/16"	5,0	12,0	14,0	60,0	20
963.7139	3/16x7/32"	6,0	12,0	14,0	70,0	20
963.7140	1/4x9/32"	6,0	14,0	16,0	80,0	30
963.7141	1/4x5/16"	6,0	14,0	16,0	80,0	30
963.7142	5/16x11/32"	6,0	17,0	20,0	90,0	10
963.7143	5/16x3/18"	6,0	17,0	20,0	90,0	10
963.7144	5/16x13/32"	6,0	20,0	22,0	100,0	40
963.7145	3/8x7/16"	6,0	20,0	22,0	100,0	60

**BRONZEplus Chave de boca simples**

- em cumprimento da DIN 894 / ISO 3380
- posição da boca com ângulo de 15°
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



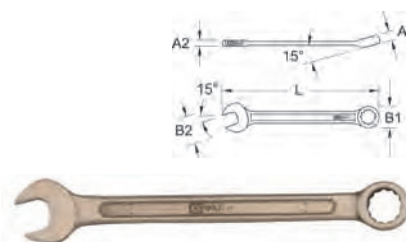
	mm	A mm	B mm	L mm	kg
963.7196	80	27,0	165,0	630,0	2,90
963.7197	82	27,0	165,0	630,0	2,80
963.7198	85	29,0	175,0	680,0	3,40
963.7199	88	30,0	185,0	680,0	3,30
963.7200	90	30,0	185,0	680,0	3,20
963.7201	94	32,0	195,0	830,0	5,00
963.7202	95	32,0	195,0	830,0	4,80
963.7203	100	32,0	209,0	800,0	5,90
963.7204	105	33,0	210,0	850,0	8,90
963.7205	110	33,0	230,0	900,0	9,00
963.7206	115	33,0	240,0	950,0	9,30
963.7207	120	35,0	245,0	990,0	9,60
963.7208	125	35,0	250,0	1000,0	8,30
963.7209	130	35,0	270,0	1000,0	8,30
963.7210	135	35,0	275,0	1000,0	8,30



**CHAVES COMBINADAS ANTI-FAÍSCANTES**

**BRONZEplus Chave combinada, angulada**

- Perfil Flank Traction
- em cumprimento da DIN 3113 Forma A / ISO 3318 / ISO 7738
- posição da boca com ângulo de 15°
- Anel com ângulo de 15°
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	mm	A mm	B mm	L mm	kg
963.7146	6	6,0	21,0	90,0	0,05
963.7147	7	6,0	21,0	90,0	0,05
963.7148	8	6,0	21,0	90,0	0,05
963.7149	9	6,0	21,0	90,0	0,05
963.7150	10	7,0	28,0	100,0	0,06
963.7151	11	7,0	28,0	100,0	0,08
963.7152	12	7,0	33,0	140,0	0,07
963.7153	13	7,0	33,0	140,0	0,04
963.7154	14	8,0	40,0	165,0	0,08
963.7155	15	8,0	40,0	145,0	0,12
963.7156	16	8,0	40,0	165,0	0,07
963.7157	17	8,0	40,0	165,0	0,07
963.7158	18	8,0	40,0	165,0	0,07
963.7159	19	10,0	44,0	190,0	0,10
963.7160	20	10,0	44,0	190,0	0,14
963.7161	21	12,0	46,0	205,0	0,14
963.7162	22	12,0	46,0	205,0	0,13
963.7163	23	14,0	52,0	220,0	0,17
963.7164	24	14,0	52,0	220,0	0,17
963.7165	25	14,0	57,0	220,0	0,16
963.7166	26	14,0	57,0	220,0	0,16
963.7167	27	14,0	57,0	220,0	0,15
963.7168	28	15,0	63,0	250,0	0,27
963.7169	29	15,0	63,0	250,0	0,26
963.7170	30	15,0	63,0	250,0	0,25
963.7171	32	16,0	69,0	285,0	0,34
963.7172	33	16,0	69,0	285,0	0,34
963.7173	34	17,0	75,0	285,0	0,32
963.7174	35	17,0	75,0	285,0	0,32
963.7175	36	17,0	75,0	285,0	0,30
963.7176	37	17,0	75,0	285,0	0,30
963.7177	38	18,0	86,0	330,0	0,54
963.7178	41	18,0	86,0	330,0	0,52
963.7179	42	18,0	86,0	330,0	0,50
963.7180	46	21,0	95,0	360,0	0,65
963.7181	47	21,0	95,0	360,0	0,63
963.7182	50	22,0	105,0	440,0	1,10
963.7183	52	22,0	105,0	440,0	1,10
963.7184	54	23,0	117,0	440,0	1,05
963.7185	55	23,0	117,0	440,0	1,05
963.7186	56	23,0	117,0	440,0	1,00
963.7187	58	23,0	125,0	480,0	2,00
963.7188	60	23,0	125,0	480,0	1,95
963.7189	63	24,0	135,0	520,0	1,70
963.7190	65	24,0	135,0	520,0	1,70
963.7191	67	25,0	145,0	520,0	1,70
963.7192	70	25,0	145,0	540,0	1,90
963.7193	71	25,0	145,0	540,0	1,90
963.7194	75	25,0	155,0	540,0	1,80
963.7195	77	25,0	155,0	540,0	1,80

	mm	A mm	B mm	L mm	kg
963.7211	1/4"	6,0	21,0	90,0	0,05
963.7212	5/16"	6,0	21,0	90,0	0,05
963.7213	11/32"	6,0	21,0	90,0	0,05
963.7214	3/8"	6,0	21,0	90,0	0,05
963.7215	13/32"	7,0	28,0	100,0	0,06
963.7216	7/16"	7,0	28,0	100,0	0,08
963.7217	1/2"	7,0	33,0	140,0	0,04
963.7218	9/16"	8,0	40,0	165,0	0,08
963.7219	19/32"	8,0	40,0	165,0	0,12
963.7220	5/8"	8,0	40,0	165,0	0,07
963.7221	11/16"	8,0	40,0	165,0	0,07
963.7222	3/4"	10,0	44,0	190,0	0,10
963.7223	25/32"	10,0	44,0	190,0	0,14
963.7224	13/16"	12,0	46,0	205,0	0,14
963.7225	7/8"	12,0	46,0	205,0	0,13
963.7226	15/16"	14,0	57,0	220,0	0,17
963.7227	31/32"	14,0	57,0	220,0	0,17
963.7228	1"	14,0	57,0	220,0	0,16
963.7229	1.1/16"	14,0	57,0	220,0	0,15
963.7230	1.1/8"	15,0	63,0	250,0	0,27
963.7231	1.3/16"	15,0	63,0	250,0	0,25
963.7232	1.1/4"	16,0	69,0	285,0	0,34
963.7233	1.5/16"	16,0	69,0	285,0	0,34
963.7234	1.3/8"	17,0	75,0	285,0	0,32
963.7235	1.7/16"	17,0	75,0	285,0	0,30
963.7236	1.1/2"	18,0	86,0	330,0	0,54
963.7237	1.9/16"	18,0	86,0	330,0	0,52
963.7238	1.5/8"	18,0	86,0	330,0	0,52
963.7239	1.11/16"	18,0	86,0	330,0	0,50
963.7240	1.3/4"	21,0	95,0	360,0	0,65
963.7241	1.13/16"	21,0	95,0	360,0	0,65
963.7242	1.7/8"	21,0	95,0	360,0	0,63
963.7243	2"	22,0	105,0	440,0	1,10
963.7244	2.1/16"	22,0	105,0	440,0	1,10
963.7245	2.1/8"	22,0	105,0	440,0	1,05
963.7246	2.3/16"	22,0	105,0	440,0	1,05
963.7247	2.1/4"	23,0	125,0	480,0	1,00
963.7248	2.5/16"	23,0	125,0	480,0	2,00
963.7249	2.3/8"	23,0	125,0	520,0	2,00
963.7250	2.7/16"	24,0	135,0	520,0	1,70
963.7251	2.1/2"	24,0	135,0	520,0	1,70
963.7252	2.9/16"	24,0	135,0	520,0	1,70
963.7253	2.5/8"	24,0	135,0	520,0	1,70
963.7254	2.3/4"	25,0	145,0	540,0	1,90
963.7255	2.13/16"	25,0	145,0	540,0	1,90
963.7256	2.15/16"	25,0	155,0	540,0	1,90
963.7257	3"	25,0	155,0	540,0	1,80
963.7258	3.1/8"	27,0	165,0	630,0	2,90
963.7259	3.1/4"	27,0	165,0	630,0	2,80
963.7260	3.3/8"	30,0	185,0	680,0	3,40
963.7261	3.1/2"	30,0	185,0	680,0	3,30
963.7262	3.5/8"	30,0	185,0	680,0	3,20
963.7263	3.3/4"	32,0	195,0	830,0	5,00
963.7264	3.7/8"	32,0	195,0	830,0	4,80

	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	kg
963.7265	6	6,0	5,0	11,0	20,0	130,0	0,05
963.7266	7	6,0	5,0	11,0	20,0	130,0	0,03
963.7267	8	7,0	6,0	15,0	17,0	135,0	0,03
963.7268	9	7,0	6,0	18,0	22,0	150,0	0,05
963.7269	10	7,0	6,0	18,0	22,0	150,0	0,05
963.7270	11	7,0	6,0	18,0	22,0	150,0	0,09
963.7271	12	9,0	7,0	20,0	25,0	190,0	0,17
963.7272	13	10,0	7,0	22,0	32,0	190,0	0,10
963.7273	14	10,0	7,0	22,0	32,0	190,0	0,16
963.7274	15	11,0	8,0	27,0	34,0	210,0	0,23
963.7275	16	11,0	8,0	27,0	34,0	210,0	0,23
963.7276	17	11,0	8,0	27,0	34,0	210,0	0,22
963.7277	18	13,0	9,0	31,0	40,0	230,0	0,33
963.7278	19	13,0	9,0	31,0	40,0	230,0	0,33
963.7279	20	13,0	9,0	31,0	40,0	230,0	0,26
963.7280	21	14,0	9,0	36,0	43,0	250,0	0,36
963.7281	22	14,0	9,0	36,0	43,0	250,0	0,24
963.7282	23	14,0	9,0	36,0	43,0	250,0	0,35
963.7283	24	15,0	10,0	38,0	48,0	270,0	0,50
963.7284	25	15,0	10,0	38,0	48,0	270,0	0,45
963.7285	26	15,0	10,0	38,0	48,0	270,0	0,47
963.7286	27	17,0	13,0	43,0	55,0	280,0	0,43
963.7287	28	17,0	13,0	43,0	55,0	280,0	0,68
963.7288	29	17,0	13,0	43,0	55,0	280,0	0,63
963.7289	30	20,0	13,0	49,0	60,0	300,0	0,73
963.7290	32	22,0	14,0	53,0	64,0	300,0	0,65
963.7291	34	22,0	14,0	53,0	64,0	320,0	0,95
963.7292	36	22,0	14,0	54,0	72,0	330,0	0,93
963.7293	38	23,0	16,0	58,0	82,0	400,0	2,15
963.7294	41	24,0	16,0	61,0	87,0	410,0	2,00
963.7295	46	24,0	18,0	67,0	95,0	410,0	1,90
963.7296	50	27,0	18,0	75,0	100,0	540,0	3,40
963.7297	55	27,0	22,0	90,0	105,0	520,0	3,50
963.7298	60	32,0	27,0	92,0	125,0	515,0	3,30
963.7299	65	34,0	28,0	95,0	140,0	500,0	3,20
963.7300	70	35,0	28,0	100,0	145,0	510,0	3,80
963.7301	75	35,0	29,0	105,0	157,0	680,0	3,90
963.7302	80	36,0	29,0	112,0	165,0	680,0	

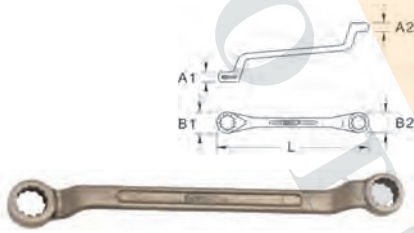


	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	kg
963.7322	31/32"	15,0	10,0	38,0	48,0	270,0	0,41
963.7323	1"	15,0	10,0	38,0	48,0	270,0	0,41
963.7324	1.1/16"	17,0	13,0	43,0	55,0	280,0	0,51
963.7325	1.1/8"	17,0	13,0	43,0	55,0	280,0	0,51
963.7326	1.3/16"	22,0	14,0	53,0	64,0	300,0	0,57
963.7327	1.1/4"	22,0	14,0	53,0	64,0	300,0	0,57
963.7328	1.5/16"	22,0	14,0	53,0	64,0	300,0	0,57
963.7329	1.3/8"	22,0	14,0	55,0	72,0	330,0	0,84
963.7330	1.7/16"	22,0	14,0	55,0	72,0	330,0	0,84
963.7331	1.1/2"	22,0	14,0	55,0	72,0	330,0	0,84
963.7332	1.9/16"	24,0	18,0	67,0	95,0	410,0	2,00
963.7333	1.5/8"	24,0	18,0	67,0	95,0	410,0	2,00
963.7334	1.11/16"	24,0	18,0	67,0	95,0	410,0	2,00
963.7335	1.3/4"	24,0	18,0	67,0	95,0	410,0	1,90
963.7336	1.13/16"	24,0	18,0	67,0	95,0	410,0	1,90
963.7337	1.7/8"	27,0	20,0	78,0	100,0	435,0	1,60
963.7338	2"	27,0	20,0	78,0	100,0	435,0	1,60
963.7339	2.1/16"	27,0	20,0	78,0	100,0	435,0	1,60
963.7340	2.1/8"	27,0	22,0	90,0	105,0	455,0	2,00
963.7341	2.3/16"	27,0	22,0	90,0	105,0	455,0	2,00
963.7342	2.1/4"	30,0	25,0	92,0	110,0	475,0	2,50

**CHAVES LUNETA ANTI-FAISCANTES**

**BRONZEplus Chave luneta dupla**

- Perfil Flank Traction
- em cumprimento da DIN 838 / ISO 1085 / ISO 10104 / ISO 3318
- anéis curvados em 75°
- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	kg
963.7371	6x7	6,0	6,0	12,0	14,0	170,0	0,04
963.7372	6x8	6,0	6,0	12,0	14,0	170,0	0,11
963.7373	7x8	6,0	6,0	12,0	14,0	170,0	0,10
963.7374	7x9	7,0	7,0	15,0	18,0	170,0	0,10
963.7375	8x9	7,0	7,0	15,0	18,0	170,0	0,10
963.7376	8x10	7,0	7,0	15,0	18,0	180,0	0,14
963.7377	9x10	7,0	7,0	15,0	18,0	180,0	0,09
963.7378	9x11	8,0	8,0	17,0	20,0	180,0	0,08
963.7379	10x11	8,0	8,0	17,0	20,0	180,0	0,08
963.7380	10x12	8,0	8,0	17,0	20,0	180,0	0,14
963.7381	10x13	9,0	9,0	20,0	23,0	195,0	0,11
963.7382	10x14	9,0	9,0	20,0	23,0	195,0	0,17
963.7383	11x13	9,0	9,0	20,0	23,0	195,0	0,19
963.7384	11x14	9,0	9,0	20,0	23,0	195,0	0,18
963.7385	12x13	9,0	9,0	20,0	23,0	195,0	0,18
963.7386	12x14	9,0	9,0	20,0	23,0	195,0	0,18
963.7387	13x14	9,0	9,0	20,0	23,0	195,0	0,15
963.7388	13x15	10,0	10,0	22,0	26,0	230,0	0,24
963.7389	13x16	10,0	10,0	22,0	26,0	230,0	0,24
963.7390	13x17	10,0	10,0	22,0	26,0	230,0	0,25
963.7391	14x15	10,0	10,0	22,0	26,0	230,0	0,25
963.7392	14x16	10,0	10,0	22,0	26,0	230,0	0,24
963.7393	14x17	10,0	10,0	22,0	26,0	230,0	0,23
963.7394	16x17	10,0	10,0	24,0	26,0	230,0	0,24
963.7395	16x18	12,0	12,0	26,0	30,0	280,0	0,42
963.7396	17x19	12,0	12,0	26,0	30,0	280,0	0,40
963.7397	17x22	12,0	13,0	26,0	35,0	280,0	0,38
963.7398	18x19	12,0	12,0	26,0	30,0	280,0	0,40
963.7399	18x20	13,0	13,0	30,0	35,0	280,0	0,39
963.7400	18x21	13,0	13,0	30,0	35,0	280,0	0,39
963.7401	19x22	13,0	13,0	30,0	35,0	280,0	0,37
963.7402	19x24	14,0	14,0	35,0	37,0	290,0	0,53
963.7403	20x22	13,0	13,0	30,0	35,0	280,0	0,38
963.7404	21x23	14,0	14,0	35,0	37,0	290,0	0,51
963.7405	21x24	14,0	14,0	35,0	37,0	300,0	0,51
963.0033	21x26	16,0	16,0	38,0	42,0	340,0	0,50
963.7406	22x24	14,0	14,0	35,0	37,0	300,0	0,51

	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	kg
963.7407	22x27	15,0	15,0	38,0	42,0	330,0	0,65
963.7408	23x26	15,0	15,0	38,0	42,0	330,0	0,67
963.7409	24x26	15,0	15,0	38,0	42,0	330,0	0,68
963.7410	24x27	15,0	15,0	38,0	42,0	330,0	0,67
963.7411	24x30	15,0	15,0	42,0	47,0	370,0	0,93
963.7412	25x28	15,0	15,0	38,0	42,0	330,0	0,66
963.7413	26x29	15,0	15,0	42,0	47,0	370,0	1,00
963.0034	26x32	18,0	18,0	47,0	50,0	380,0	0,60
963.7414	27x29	15,0	15,0	42,0	47,0	370,0	1,00
963.7415	27x30	15,0	15,0	42,0	47,0	370,0	0,90
963.7416	27x32	16,0	16,0	46,0	50,0	370,0	0,90
963.7417	30x32	16,0	16,0	46,0	50,0	370,0	0,86
963.7418	30x34	18,0	18,0	52,0	54,0	430,0	0,85
963.7419	30x36	18,0	18,0	52,0	54,0	430,0	1,30
963.7420	32x34	18,0	18,0	52,0	54,0	430,0	1,30
963.7421	32x36	18,0	18,0	52,0	54,0	430,0	1,30
963.7422	34x36	18,0	18,0	52,0	54,0	430,0	1,25
963.7423	35x38	18,0	18,0	54,0	56,0	450,0	1,40
963.7424	36x38	18,0	18,0	54,0	56,0	450,0	1,45
963.7425	36x41	20,0	20,0	56,0	62,0	450,0	1,45
963.7426	38x42	20,0	20,0	54,0	62,0	450,0	1,45
963.7427	41x46	20,0	20,0	63,0	68,0	460,0	1,80
963.7428	46x50	24,0	24,0	69,0	74,0	480,0	2,10
963.7429	50x55	23,0	23,0	72,0	83,0	540,0	3,00
963.7430	50x60	23,0	23,0	72,0	90,0	540,0	2,80
963.7431	55x60	24,0	24,0	80,0	90,0	540,0	2,80
963.7432	60x65	25,0	25,0	90,0	98,0	690,0	4,20
963.7433	65x70	25,0	25,0	98,0	105,0	690,0	4,20
963.7434	70x80	27,0	27,0	105,0	115,0	770,0	6,00
963.7435	75x80	27,0	27,0	110,0	115,0	790,0	6,60
963.7436	85x90	30,0	30,0	115,0	120,0	800,0	7,00

	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	kg
963.7438	1/4x5/16"	6,0	6,0	12,0	14,0	170,0	0,11
963.7439	5/16x3/8"	6,0	6,0	12,0	14,0	170,0	0,10
963.7440	3/8x7/16"	8,0	8,0	17,0	20,0	180,0	0,08
963.7441	7/16x1/2"	9,0	9,0	20,0	23,0	195,0	0,19
963.7442	1/2x9/16"	9,0	9,0	20,0	23,0	195,0	0,15
963.7443	1/2x19/32"	10,0	10,0	22,0	26,0	230,0	0,24
963.7444	9/16x5/8"	10,0	10,0	22,0	26,0	230,0	0,25
963.7445	19/32x11/16"	10,0	10,0	22,0	26,0	230,0	0,23
963.7446	5/8x11/16"	10,0	10,0	22,0	26,0	230,0	0,24
963.7447	5/8x3/4"	12,0	12,0	26,0	30,0	280,0	0,40
963.7448	11/16x3/4"	12,0	12,0	26,0	30,0	280,0	0,40
963.7449	11/16x25/32"	12,0	12,0	26,0	30,0	280,0	0,38
963.7450	3/4x25/32"	12,0	12,0	26,0	30,0	280,0	0,36
963.7451	3/4x7/8"	12,0	12,0	26,0	30,0	280,0	0,37
963.7452	13/16x7/8"	12,0	12,0	26,0	30,0	280,0	0,38
963.7453	25/32x13/16"	12,0	12,0	26,0	30,0	280,0	0,35
963.7454	7/8x15/16"	14,0	14,0	35,0	37,0	300,0	0,51
963.7455	7/8x1"	14,0	14,0	35,0	37,0	300,0	0,50
963.7456	7/8x1.1/16"	15,0	15,0	38,0	42,0	330,0	0,65
963.7457	15/16x1"	15,0	15,0	38,0	42,0	330,0	0,67
963.7458	1x1.1/8"	15,0	15,0	38,0	42,0	330,0	0,66
963.7459	1.1/16x1.1/8"	15,0	15,0	42,0	47,0	370,0	1,00
963.7460	1.1/16x1.1/4"	15,0	15,0	42,0	47,0	370,0	0,90
963.7461	1.1/8x1.5/16"	15,0	15,0	42,0	47,0	370,0	0,88
963.0038	1.3/16x1.1/4"	18,0	18,0	47,0	50,0	380,0	0,80
963.7462	1.3/16x1.5/16"	18,0	18,0	52,0	54,0	430,0	0,85
963.7463	1.1/4x1.5/16"	18,0	18,0	52,0	54,0	430,0	1,20
963.7464	1.1/4x1.3/8"	18,0	18,0	52,0	54,0	430,0	1,30
963.7465	1.1/4x1.7/16"	18,0	18,0	52,0	54,0	430,0	1,30
963.0039	1.5/16x1.3/8"	25,0	25,0	51,0	56,0	405,0	1,10
963.7466	1.5/16x1.1/2"	18,0	18,0	52,0	54,0	430,0	1,20
963.0041	1.3/8x1.7/16"	25,0	25,0	51,0	56,0	405,0	1,10
963.7467	1.3/8x1.1/2"	18,0	18,0	54,0	56,0	450,0	1,40
963.7468	1.7/16x1.5/8"	18,0	18,0	54,0	56,0	450,0	1,45
963.0042	1.1/2x1.9/16"	28,0	28,0	57,0	63,0	450,0	1,60
963.7469	1.5/8x1.13/16"	20,0	20,0	63,0	68,0	460,0	1,80
963.7470	1.11/16x1.7/8"	20,0	20,0	63,0	68,0	460,0	1,80
963.7471	1.13/16x2"	24,0	24,0	69,0	74,0	480,0	2,10
963.7472	1.3/4x2.1/16"	24,0	24,0	69,0	74,0	480,0	2,00
963.7473	2x2.3/16"	24,0	24,0	80,0	90,0	540,0	3,00
963.7474	2 x 2.3/8"	24,0	24,0	80,0	90,0	540,0	2,80
963.7475	2.3/16x2.3/8"	24,0	24,0	80,0	90,0	540,0	2,80
963.7476	2.1/4x2.7/16"	24,0	24,0	80,0	90,0	540,0	2,70
963.0043	2.3/8x2.3/4"	32,0	32,0	92,0	105,0	560,0	4,10



**BRONZEplus Kit de chaves luneta duplas**

- Perfil Flank Traction
- em cumprimento da DIN 838 / ISO 1085 / ISO 10104 / ISO 3318
- anéis curvados em 75°
- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)

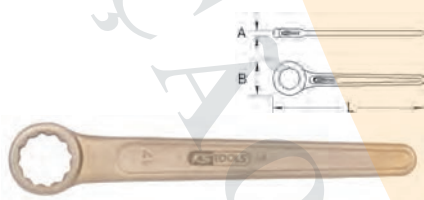


	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	kg
963.7510	36x41	20,0	20,0	54,0	64,0	460,0	0,33
963.7511	41x46	21,0	21,0	63,0	68,0	432,0	0,81
963.7512	46x50	24,0	24,0	69,0	74,0	477,0	1,04

	mm	A1 mm	A2 mm	B1 mm	B2 mm	L mm	kg
963.7513	1/4"x5/16"	6,0	6,0	12,0	14,0	100,0	40
963.7514	5/16"x3/8"	7,0	7,0	15,0	18,0	115,0	60
963.7515	3/8"x7/16"	8,0	8,0	17,0	20,0	125,0	70
963.7516	7/16"x9/16"	9,0	9,0	20,0	23,0	140,0	90
963.7517	1/2"x5/8"	10,0	10,0	22,0	26,0	155,0	50
963.7518	1/2"x19/32"	9,0	9,0	20,0	23,0	140,0	90
963.7519	9/16"x11/16"	10,0	10,0	22,0	26,0	155,0	50
963.7520	5/8"x25/32"	12,0	12,0	26,0	30,0	190,0	80
963.7521	11/16"x3/4"	12,0	12,0	26,0	30,0	190,0	80
963.7522	3/4"x7/8"	14,0	14,0	35,0	37,0	200,0	120
963.7523	13/16"x15/16"	14,0	14,0	35,0	37,0	200,0	120
963.7524	15/16"x1.1/16"	15,0	15,0	38,0	42,0	210,0	130
963.7525	1"x1.1/8"	16,0	16,0	42,0	47,0	255,0	200
963.7526	1.3/16"x1.1/4"	16,0	16,0	46,0	50,0	265,0	650

**BRONZEplus Chave luneta simples, direita**

- Perfil Flank Traction
- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	mm	A mm	B mm	L mm	kg
963.7527	14	10,5	24,0	140,0	0,13
963.7528	15	10,5	24,0	140,0	0,13
963.7529	16	11,5	29,0	155,0	0,15
963.7530	17	11,5	29,0	155,0	0,15
963.7531	18	12,0	30,0	170,0	0,25
963.7532	19	12,0	30,0	170,0	0,28
963.7533	20	13,5	35,0	190,0	0,28
963.7534	21	13,5	35,0	190,0	0,30
963.7535	22	13,5	35,0	190,0	0,30
963.7536	23	14,5	38,0	215,0	0,30
963.7537	24	14,5	38,0	215,0	0,40
963.7538	25	16,0	42,0	230,0	0,43
963.7539	26	16,0	42,0	230,0	0,45
963.7540	27	16,0	42,0	230,0	0,50
963.7541	28	17,0	48,0	265,0	0,52
963.7542	29	17,0	48,0	265,0	0,51
963.7543	30	17,0	48,0	265,0	0,50
963.7544	32	17,0	51,0	265,0	0,45
963.7545	33	17,0	51,0	265,0	0,43
963.7546	34	17,5	51,0	290,0	0,67
963.7547	35	17,5	51,0	290,0	0,66
963.7548	36	17,5	55,0	290,0	0,65
963.7549	37	21,0	65,0	325,0	0,90
963.7550	38	21,0	65,0	325,0	0,90
963.7551	41	21,0	65,0	325,0	0,90
963.7552	42	21,0	65,0	325,0	0,90
963.7553	46	23,0	72,0	365,0	1,10
963.7554	47	23,0	72,0	365,0	1,10
963.7555	50	24,5	79,0	400,0	1,40
963.7556	52	26,0	87,0	430,0	1,80
963.7557	54	26,0	87,0	430,0	1,70
963.7558	55	26,5	87,0	445,0	1,65
963.7559	56	27,5	93,0	465,0	1,80
963.7560	58	27,5	93,0	465,0	1,80
963.7561	60	27,5	93,0	465,0	2,00
963.7562	63	29,0	100,0	500,0	2,30
963.7563	65	29,0	100,0	500,0	2,10
963.7564	67	29,0	100,0	500,0	2,00
963.7565	70	30,0	107,0	550,0	3,00
963.7566	71	30,0	107,0	550,0	2,80
963.7567	75	32,0	115,0	620,0	5,00
963.7568	77	32,0	115,0	620,0	5,00
963.7569	80	32,0	125,0	620,0	4,50
963.7570	82	32,0	125,0	620,0	4,30
963.7571	85	35,0	130,0	650,0	5,00

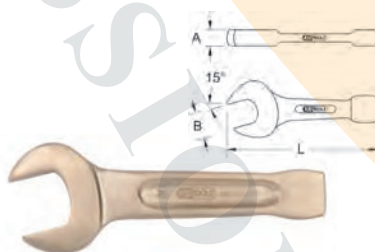
	mm	A mm	B mm	L mm	kg
963.7572	88	37,0	138,0	650,0	4,80
963.7573	90	37,0	138,0	650,0	4,20
963.7574	94	39,0	145,0	700,0	5,20
963.7575	95	39,0	145,0	700,0	5,20

	mm	A mm	B mm	L mm	kg
963.7576	1/2"	10,5	24,0	140,0	0,13
963.7577	9/16"	10,5	24,0	140,0	0,13
963.7578	19/32"	10,5	24,0	140,0	0,13
963.7579	5/8"	11,5	29,0	155,0	0,15
963.7580	11/16"	11,5	29,0	155,0	0,15
963.7581	3/4"	12,0	30,0	170,0	0,28
963.7582	25/32"	13,5	35,0	190,0	0,28
963.7583	13/16"	13,5	35,0	190,0	0,30
963.7584	7/8"	13,5	35,0	190,0	0,30
963.7585	15/16"	14,5	38,0	215,0	0,40
963.7586	31/32"	14,5	38,0	215,0	0,43
963.7587	1"	16,0	42,0	230,0	0,43
963.7588	1.1/16"	16,0	42,0	230,0	0,50
963.7589	1.1/8"	17,0	48,0	265,0	0,52
963.7590	1.3/16"	17,0	48,0	265,0	0,50
963.7591	1.1/4"	17,0	51,0	265,0	0,45
963.7592	1.5/16"	17,0	51,0	265,0	0,43
963.7593	1.3/8"	17,5	51,0	290,0	0,66
963.7594	1.7/16"	21,0	65,0	325,0	0,90
963.7595	1.1/2"	21,0	65,0	325,0	0,90
963.7596	1.9/16"	21,0	65,0	325,0	0,85
963.7597	1.5/8"	21,0	65,0	325,0	0,90
963.7598	1.11/16"	21,0	65,0	325,0	0,85
963.7599	1.3/4"	23,0	72,0	365,0	1,20
963.7600	1.13/19"	23,0	72,0	365,0	1,10
963.7601	1.7/8"	23,0	72,0	365,0	1,10
963.7602	2"	24,5	79,0	400,0	1,40
963.7603	2.1/16"	26,0	87,0	430,0	1,80
963.7604	2.1/8"	26,0	87,0	430,0	1,70
963.7605	2.3/16"	26,5	87,0	445,0	1,65
963.7606	2.1/4"	27,5	93,0	465,0	1,80
963.7607	2.5/16"	27,5	93,0	465,0	1,80
963.7608	2.3/8"	27,5	93,0	465,0	2,00
963.7609	2.7/16"	29,0	100,0	500,0	2,10
963.7610	2.1/2"	29,0	100,0	500,0	2,00
963.7611	2.9/16"	29,0	100,0	500,0	2,10
963.7612	2.3/4"	30,0	107,0	550,0	3,00
963.7613	2.15/16"	32,0	115,0	620,0	5,00
963.7614	3"	32,0	115,0	620,0	5,00
963.7615	3.1/8"	32,0	115,0	620,0	4,50
963.7616	3.3/8"	35,0	130,0	650,0	5,00
963.7617	3.1/2"	37,0	138,0	650,0	4,80
963.7618	3.3/4"	39,0	145,0	700,0	5,20

**CHAVES DE IMPACTO ANTI-FAISCANTES**

**BRONZEplus Chave de boca de impacto**

- em cumprimento da DIN 133
- posição da boca com ângulo de 15°
- com aresta de impacto
- para montagens especialmente difíceis
- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	mm	A mm	B mm	L mm	kg
963.7619	14	11,0	30,0	180,0	0,35
963.7620	17	11,0	36,0	125,0	0,12
963.7621	19	12,0	40,0	120,0	0,16
963.7622	22	13,0	44,0	135,0	0,15
963.7623	24	14,0	46,0	150,0	0,20
963.7624	27	16,0	55,0	180,0	0,38
963.7625	28	16,0	55,0	180,0	0,37
963.7626	29	17,0	63,0	190,0	0,36

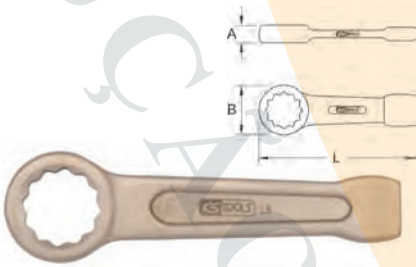
	mm	A mm	B mm	L mm	kg
963.7627	30	17,0	63,0	190,0	0,35
963.7628	32	17,0	64,0	210,0	0,68
963.7629	33	19,0	70,0	210,0	0,67
963.7630	34	19,0	70,0	210,0	0,66
963.7631	35	20,0	75,0	210,0	0,65
963.7632	36	20,0	75,0	210,0	0,64
963.7633	38	21,0	80,0	210,0	0,63
963.7634	41	21,0	85,0	220,0	0,79
963.7635	42	21,0	85,0	220,0	0,75
963.7636	46	22,0	97,0	250,0	1,15
963.7637	47	22,0	97,0	255,0	1,20
963.7638	50	23,0	105,0	275,0	1,35
963.7639	52	23,0	105,0	275,0	1,50
963.7640	54	25,0	115,0	300,0	1,90
963.7641	55	25,0	115,0	290,0	1,60
963.7642	56	25,0	125,0	290,0	1,55
963.7643	58	25,0	125,0	290,0	1,50
963.7644	60	26,0	125,0	320,0	2,60
963.7645	63	27,0	135,0	330,0	3,00
963.7646	65	27,0	135,0	330,0	3,00
963.7647	67	28,0	135,0	380,0	4,20
963.7648	70	28,0	135,0	380,0	3,80
963.7649	71	28,0	135,0	380,0	3,70
963.7650	75	30,0	155,0	380,0	3,60
963.7651	77	30,0	155,0	380,0	5,00
963.7652	80	32,0	165,0	370,0	4,80
963.7653	82	32,0	165,0	370,0	4,70
963.7654	85	32,0	170,0	370,0	4,50
963.7655	88	34,0	185,0	430,0	7,20
963.7656	90	34,0	185,0	430,0	7,00
963.7657	94	36,0	200,0	430,0	6,90
963.7658	95	36,0	200,0	430,0	6,80
963.7659	100	38,0	2		



	mm	A mm	B mm	L mm	kg
963.7709	2.5/8"	28,0	155,0	380,0	4,20
963.7710	2.3/4"	28,0	155,0	380,0	3,80
963.7711	2.13/16"	28,0	155,0	380,0	3,70
963.7712	2.15/16"	30,0	155,0	380,0	3,50
963.7713	3"	30,0	155,0	380,0	4,00
963.7714	3.1/8"	32,0	165,0	370,0	4,80
963.7715	3.1/4"	32,0	165,0	370,0	4,70
963.7716	3.3/8"	32,0	165,0	370,0	4,50
963.7717	3.1/2"	34,0	185,0	430,0	7,20
963.7718	3.5/8"	34,0	185,0	430,0	7,00
963.7719	3.3/4"	36,0	200,0	430,0	6,80
963.7720	3.7/8"	36,0	200,0	430,0	6,60
963.7721	4"	37,0	210,0	470,0	9,50
963.7722	4.1/8"	37,0	210,0	470,0	9,30
963.7723	4.1/2"	40,0	235,0	510,0	13,30

**BRONZEplus Chave Luneta de impacto**

- Perfil Flank Traction (dozavado)
- em cumprimento da DIN 7444
- com aresta de impacto
- para montagens especialmente difíceis
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	mm	A mm	B mm	L mm	kg
963.7724	17	15,0	38,0	150,0	0,40
963.7725	19	15,0	38,0	150,0	0,40
963.7726	22	15,0	38,0	150,0	0,35
963.7727	24	15,0	38,0	150,0	0,35
963.7728	27	18,0	45,0	190,0	0,60
963.7729	28	18,0	45,0	190,0	0,58
963.7730	29	19,0	50,0	190,0	0,56
963.7731	30	19,0	50,0	190,0	0,55
963.7732	32	19,0	53,0	190,0	0,58
963.7733	33	19,0	53,0	190,0	0,57
963.7734	34	21,0	58,0	210,0	0,68
963.7735	35	21,0	58,0	210,0	0,70
963.7736	36	21,0	58,0	210,0	0,69
963.7737	37	21,0	58,0	210,0	0,68
963.7738	38	21,0	63,0	230,0	1,10
963.7739	41	21,0	63,0	230,0	1,00
963.7740	42	21,0	63,0	230,0	1,00
963.7741	46	23,0	70,0	240,0	1,25
963.7742	47	23,0	70,0	240,0	1,27
963.7743	50	27,0	77,0	255,0	1,40
963.7744	52	27,0	77,0	255,0	1,40
963.7745	54	27,0	85,0	255,0	1,35
963.7746	55	27,0	85,0	255,0	1,34
963.7747	56	27,0	85,0	255,0	1,33
963.7748	57	27,0	85,0	255,0	1,30
963.7749	58	29,0	92,0	280,0	2,50
963.7750	60	29,0	92,0	280,0	2,40
963.7751	63	30,0	104,0	295,0	2,90
963.7752	65	30,0	104,0	295,0	2,80
963.7753	67	30,0	104,0	295,0	2,70
963.7754	70	33,0	110,0	320,0	3,40
963.7755	71	33,0	110,0	320,0	3,30
963.7756	75	35,0	115,0	320,0	3,20
963.7757	76	35,0	115,0	320,0	3,10
963.7758	77	35,0	115,0	320,0	3,00
963.7759	80	37,0	120,0	355,0	3,60
963.7760	82	37,0	120,0	355,0	3,50
963.7761	85	42,0	125,0	365,0	5,00
963.7762	88	44,0	135,0	360,0	4,80
963.7763	90	44,0	135,0	360,0	4,60
963.7764	94	45,0	145,0	360,0	4,50
963.7765	95	45,0	145,0	360,0	4,40
963.7766	100	46,0	150,0	360,0	4,20
963.7767	105	46,0	150,0	360,0	3,90
963.7768	110	47,0	165,0	450,0	8,60
963.7769	115	47,0	165,0	450,0	8,10

	mm	A mm	B mm	L mm	kg
963.7770	120	48,0	182,0	480,0	9,70
963.7771	125	48,0	182,0	480,0	9,50
963.7772	128	50,0	196,0	520,0	13,20
963.7773	130	50,0	196,0	520,0	13,20
963.7774	135	50,0	196,0	520,0	12,90
963.7775	140	50,0	196,0	520,0	12,90
963.7776	145	52,0	220,0	580,0	19,00
963.7777	150	52,0	220,0	580,0	18,00
963.7778	155	52,0	220,0	580,0	17,20
963.7779	160	52,0	220,0	580,0	19,00
963.7780	165	54,0	245,0	650,0	28,00
963.7781	170	54,0	245,0	650,0	27,70
963.7782	175	54,0	245,0	650,0	27,00
963.7783	180	54,0	245,0	650,0	26,00
963.7784	185	56,0	270,0	700,0	32,70
963.7785	190	56,0	270,0	700,0	32,20
963.7786	195	56,0	270,0	700,0	31,80
963.7787	200	56,0	270,0	700,0	31,00

	mm	A mm	B mm	L mm	kg
963.7788	11/16"	15,0	38,0	150,0	0,40
963.7789	3/4"	15,0	38,0	150,0	0,40
963.7790	25/32"	15,0	38,0	150,0	0,39
963.7791	13/16"	15,0	38,0	150,0	0,38
963.7792	7/8"	15,0	38,0	150,0	0,35
963.7793	15/16"	15,0	38,0	150,0	0,35
963.7794	1"	15,0	38,0	150,0	0,34
963.7795	1.1/16"	19,0	50,0	190,0	0,70
963.7796	1.1/8"	19,0	50,0	190,0	0,58
963.7797	1.1/4"	19,0	50,0	190,0	0,58
963.7798	1.3/16"	19,0	50,0	190,0	0,55
963.7799	1.5/16"	20,0	55,0	190,0	0,57
963.7800	1.3/8"	21,0	58,0	210,0	0,70
963.7801	1.7/16"	21,0	58,0	210,0	0,69
963.7802	1.1/2"	21,0	63,0	230,0	1,10
963.7803	1.9/16"	21,0	63,0	230,0	1,00
963.7804	1.5/8"	21,0	63,0	230,0	1,00
963.7805	1.11/16"	21,0	63,0	230,0	1,00
963.7806	1.3/4"	23,0	70,0	240,0	1,20
963.7807	1.13/16"	23,0	70,0	240,0	1,25
963.7808	1.7/8"	23,0	70,0	240,0	1,27
963.7809	2"	27,0	77,0	255,0	1,40
963.7810	2.1/16"	27,0	77,0	255,0	1,40
963.7811	2.1/8"	27,0	85,0	255,0	1,35
963.7812	2.3/16"	27,0	85,0	255,0	1,34
963.7813	2.1/4"	27,0	85,0	255,0	1,30
963.7814	2.5/16"	29,0	92,0	280,0	2,50
963.7815	2.3/8"	29,0	92,0	280,0	2,40
963.7816	2.7/16"	30,0	104,0	295,0	2,70
963.7817	2.1/2"	30,0	104,0	295,0	2,90
963.7818	2.9/16"	30,0	104,0	295,0	2,80
963.7819	2.5/8"	30,0	104,0	295,0	2,70
963.7820	2.3/4"	33,0	110,0	320,0	3,20
963.7821	2.13/16"	33,0	110,0	320,0	3,30
963.7822	2.7/8"	33,0	110,0	320,0	3,30
963.7823	2.15/16"	35,0	115,0	320,0	3,20
963.7824	3"	35,0	115,0	320,0	3,10
963.7825	3.1/8"	37,0	120,0	355,0	3,60
963.7826	3.1/4"	37,0	120,0	355,0	3,50
963.7827	3.3/8"	43,0	125,0	365,0	5,00
963.7828	3.1/2"	44,0	135,0	360,0	4,80
963.7829	3.5/8"	44,0	135,0	360,0	4,50
963.7830	3.3/4"	45,0	145,0	360,0	4,50
963.7831	3.7/8"	46,0	150,0	360,0	4,30
963.7832	4"	46,0	150,0	360,0	4,20
963.7833	4.1/8"	46,0	150,0	360,0	3,90
963.7834	4.1/2"	47,0	167,0	450,0	8,10

**BRONZEplus Chave luneta de impacto, curvada**

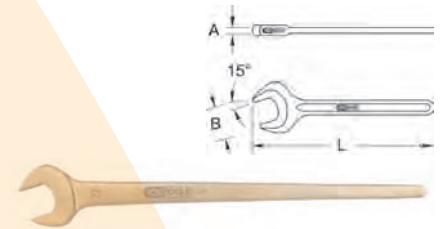
- Perfil Flank Traction (dozavado)
- em cumprimento da DIN 7444
- anel curvado em 75°
- com aresta de impacto
- para montagens especialmente difíceis
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	mm	A mm	B mm	H mm	L mm	kg
963.7835	27	17,0	42,0	45,0	245,0	1,10
963.7836	30	18,0	53,0	50,0	270,0	1,50
963.7837	32	18,0	55,0	50,0	270,0	1,50
963.7838	36	20,0	60,0	55,0	280,0	1,60
963.7839	41	22,0	67,0	60,0	310,0	2,10
963.7840	46	23,0	70,0	65,0	320,0	2,50
963.7841	50	27,0	77,0	65,0	320,0	2,50
963.7842	55	27,0	85,0	65,0	320,0	2,60
963.7843	60	29,0	92,0	70,0	355,0	3,20
963.7844	65	30,0	104,0	72,0	380,0	3,80
963.7845	70	33,0	110,0	75,0	400,0	4,60
963.7846	75	35,0	115,0	80,0	420,0	5,70
963.7847	80	37,0	120,0	85,0	440,0	6,60
963.7848	85	43,0	125,0	85,0	440,0	7,00
963.7849	90	44,0	135,0	85,0	440,0	9,30
963.7850	95	45,0	145,0	85,0	440,0	10,00
963.7851	100	46,0	150,0	90,0	440,0	11,70
963.7852	110	47,0	167,0	90,0	440,0	13,40
963.7853	115	47,0	167,0	90,0	440,0	14,50

**BRONZEplus Chave de boca de tração 15°**

- posição da boca com ângulo de 15°
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)

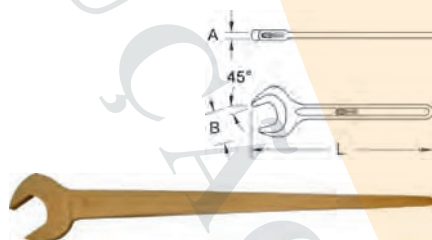


	mm	A mm	B mm	L mm	kg
963.7854	22	10,5	48,0	320,0	0,45
963.7855	23	10,5	48,0	320,0	0,45
963.7856	24	11,0	52,0	350,0	0,60
963.7857	25	11,0	52,0	350,0	0,60
963.7858	26	11,5	60,0	380,0	0,85
963.7859	27	11,5	60,0	380,0	0,85
963.7860	28	12,0	65,0	420,0	1,00
963.7861	29	12,0	65,0	420,0	1,00
963.7862	30	12,0	65,0	420,0	1,00
963.7863	32	12,5	70,0	450,0	1,00
963.7864	33	12,5	70,0	450,0	1,00
963.7865	34	13,0	74,0	450,0	1,00
963.7866	35	13,5	80,0	500,0	1,40
963.7867	36	13,5	80,0	500,0	1,40
963.7868	37	13,5	80,0	500,0	1,40
963.7869	38	15,0	90,0	500,0	1,40
963.7870	41	15,0	90,0	550,0	1,80
963.7871	42	15,0	90,0	550,0	1,80
963.7872	46	16,0	100,0	600,0	2,50
963.7873	47	16,0	100,0	600,0	2,50
963.7874	50	17,0	110,0	660,0	3,20
963.7875	52	17,0	110,0	660,0	3,20
963.7876	54	18,0	120,0	660,0	4,40
963.7877	55	18,0	120,0		

	mm	A mm	B mm	L mm	kg
963.7949	1.5/8"	15,0	90,0	500,0	1,80
963.7950	1.11/16"	15,0	90,0	500,0	1,80
963.7951	1.3/4"	16,0	100,0	550,0	2,50
963.7952	1.13/16"	16,0	100,0	550,0	2,50
963.7953	1.7/8"	16,0	100,0	600,0	2,50
963.7954	2"	17,0	110,0	600,0	3,20
963.7955	2.1/16"	17,0	110,0	660,0	3,20
963.7956	2.1/8"	18,0	120,0	660,0	4,40
963.7957	2.3/16"	18,0	120,0	660,0	4,40
963.7958	2.1/4"	19,0	130,0	730,0	4,40
963.7959	2.5/16"	19,0	130,0	730,0	5,60
963.7960	2.3/8"	19,0	130,0	800,0	5,60

**BRONZEplus Chave de boca de tração 45°**

- posição da boca com ângulo de 45°
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



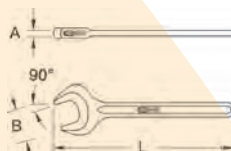
	mm	A mm	B mm	L mm	kg
963.7881	22	10,5	48,0	320,0	0,45
963.7882	23	10,5	48,0	320,0	0,45
963.7883	24	11,0	52,0	350,0	0,60
963.7884	25	11,0	52,0	350,0	0,60
963.7885	26	11,5	60,0	380,0	0,85
963.7886	27	11,5	60,0	380,0	0,85
963.7887	28	12,0	65,0	420,0	1,00
963.7888	29	12,0	65,0	420,0	1,00
963.7889	30	12,0	65,0	420,0	1,00
963.7890	32	12,5	70,0	450,0	1,00
963.7891	33	12,5	70,0	450,0	1,00
963.7892	34	13,0	74,0	450,0	1,00
963.7893	35	13,5	80,0	500,0	1,40
963.7894	36	13,5	80,0	500,0	1,40
963.7895	37	13,5	80,0	500,0	1,40
963.7896	38	15,0	90,0	500,0	1,40
963.7897	41	15,0	90,0	550,0	1,80
963.7898	42	15,0	90,0	550,0	1,80
963.7899	46	16,0	100,0	600,0	2,50
963.7900	47	16,0	100,0	600,0	2,50
963.7901	50	17,0	110,0	660,0	3,20
963.7902	52	17,0	110,0	660,0	3,20
963.7903	54	18,0	120,0	660,0	4,40
963.7904	55	18,0	120,0	730,0	4,40
963.7905	56	18,0	120,0	730,0	4,40
963.7906	58	19,0	130,0	800,0	5,60
963.7907	60	19,0	130,0	800,0	5,60

	mm	A mm	B mm	L mm	kg
963.7961	13/16"	10,5	48,0	320,0	0,45
963.7962	7/8"	10,5	48,0	320,0	0,45
963.7963	15/16"	11,0	52,0	350,0	0,60
963.7964	31/32"	11,0	52,0	350,0	0,60
963.7965	1"	11,5	60,0	380,0	0,60
963.7966	1.1/16"	11,5	60,0	380,0	0,85
963.7967	1.1/8"	12,0	65,0	420,0	1,00
963.7968	1.3/16"	12,0	65,0	420,0	1,00
963.7969	1.1/4"	12,0	65,0	420,0	1,00
963.7970	1.5/16"	12,5	70,0	450,0	1,00
963.7971	1.3/8"	12,5	70,0	450,0	1,40
963.7972	1.7/16"	13,5	80,0	450,0	1,40
963.7973	1.1/2"	15,0	90,0	500,0	1,40
963.7974	1.9/16"	15,0	90,0	500,0	1,80
963.7975	1.5/8"	15,0	90,0	500,0	1,80
963.7976	1.11/16"	15,0	90,0	500,0	1,80
963.7977	1.3/4"	16,0	100,0	550,0	2,50

	mm	A mm	B mm	L mm	kg
963.7978	1.13/16"	16,0	100,0	550,0	2,50
963.7979	1.7/8"	16,0	100,0	600,0	2,50
963.7980	2"	17,0	110,0	600,0	3,20
963.7981	2.1/16"	17,0	110,0	660,0	3,20
963.7982	2.1/8"	18,0	120,0	660,0	4,40
963.7983	2.3/16"	18,0	120,0	660,0	4,40
963.7984	2.1/4"	19,0	130,0	730,0	4,40
963.7985	2.5/16"	19,0	130,0	730,0	5,60
963.7986	2.3/8"	19,0	130,0	800,0	5,60

**BRONZEplus Chave de boca de tração 90°**

- posição da boca com ângulo de 90°
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)

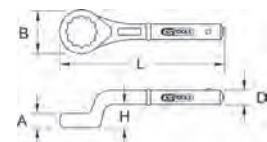


	mm	A mm	B mm	L mm	kg
963.7908	22	10,5	48,0	320,0	0,45
963.7909	23	10,5	48,0	320,0	0,45
963.7910	24	11,0	52,0	350,0	0,60
963.7911	25	11,0	52,0	350,0	0,60
963.7912	26	11,5	60,0	380,0	0,85
963.7913	27	11,5	60,0	380,0	0,85
963.7914	28	12,0	65,0	420,0	1,00
963.7915	29	12,0	65,0	420,0	1,00
963.7916	30	12,0	65,0	420,0	1,00
963.7917	32	12,5	70,0	450,0	1,00
963.7918	33	12,5	70,0	450,0	1,00
963.7919	34	13,0	74,0	450,0	1,00
963.7920	35	13,5	80,0	500,0	1,40
963.7921	36	13,5	80,0	500,0	1,40
963.7922	37	13,5	80,0	500,0	1,40
963.7923	38	15,0	90,0	500,0	1,40
963.7924	41	15,0	90,0	550,0	1,80
963.7925	42	15,0	90,0	550,0	1,80
963.7926	46	16,0	100,0	600,0	2,50
963.7927	47	16,0	100,0	600,0	2,50
963.7928	50	17,0	110,0	660,0	3,20
963.7929	52	17,0	110,0	660,0	3,20
963.7930	54	18,0	120,0	660,0	4,40
963.7931	55	18,0	120,0	730,0	4,40
963.7932	56	18,0	120,0	730,0	4,40
963.7933	58	19,0	130,0	800,0	5,60
963.7934	60	19,0	130,0	800,0	5,60

	mm	A mm	B mm	L mm	kg
963.7987	13/16"	10,5	48,0	320,0	0,45
963.7988	7/8"	10,5	48,0	320,0	0,45
963.7989	15/16"	11,0	52,0	350,0	0,60
963.7990	31/32"	11,0	52,0	350,0	0,60
963.7991	1"	11,5	60,0	380,0	0,60
963.7992	1.1/16"	11,5	60,0	380,0	0,85
963.7993	1.1/8"	12,0	65,0	420,0	1,00
963.7994	1.3/16"	12,0	65,0	420,0	1,00
963.7995	1.1/4"	12,0	65,0	420,0	1,00
963.7996	1.5/16"	12,5	70,0	450,0	1,00
963.7997	1.3/8"	12,5	70,0	450,0	1,40
963.7998	1.7/16"	13,5	80,0	450,0	1,40
963.7999	1.1/2"	15,0	90,0	500,0	1,40
963.8000	1.9/16"	15,0	90,0	500,0	1,80
963.8001	1.5/8"	15,0	90,0	500,0	1,80
963.8002	1.11/16"	15,0	90,0	500,0	1,80
963.8003	1.3/4"	16,0	100,0	550,0	2,50
963.8004	1.13/16"	16,0	100,0	550,0	2,50
963.8005	1.7/8"	16,0	100,0	600,0	2,50
963.8006	2"	17,0	110,0	600,0	3,20
963.8007	2.1/16"	17,0	110,0	660,0	3,20
963.8008	2.1/8"	18,0	120,0	660,0	4,40
963.8009	2.3/16"	18,0	120,0	660,0	4,40
963.8010	2.1/4"	19,0	130,0	730,0	4,40
963.8011	2.5/16"	19,0	130,0	730,0	5,60
963.8012	2.3/8"	19,0	130,0	800,0	5,60

**BRONZEplus Chave luneta de tração, curvada**

- Perfil Flank Traction
- anel curvado em 75°
- com cano para tubo de encaixe
- com pino de segurança com mola
- modelo pesado para binários mais elevados
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	mm	A mm	B mm	D mm	H mm	L mm	mm	kg
963.8013	22	19,0	36,0	15,5	31,0	260,0	1	0,96
963.8014	24	19,0	36,0	15,5	31,0	260,0	1	1,00
963.8015	27	19,0	40,0	15,5	31,0	260,0	1	0,96
963.8016	30	19,0	45,0	15,5	33,0	260,0	1	0,95
963.8017	32	19,5	48,0	21,7	33,0	260,0	1	0,94
963.8018	33	19,5	48,0	21,7	33,0	260,0	1	0,92
963.8019	34	20,0	53,0	21,7	35,0	260,0	1	0,91
963.8020	35	20,0	53,0	21,7	35,0	260,0	1	0,91
963.8021	36	20,0	53,0	21,7	35,0	260,0	1	0,91
963.8022	37	20,0	53,0	21,7	35,0	270,0	1	1,20
963.8023	38	21,0	59,0	21,7	40,0	270,0	1	1,90
963.8024	41	21,0	59,0	21,7	40,0	270,0	1	1,10
963.8025	42	21,0	59,0	21,7	40,0	270,0	1	1,10
963.8026	46	24,0	66,0	21,7	43,0	300,0	2	1,50
963.8027	47	24,0	66,0	21,7	43,0	300,0	2	1,50
963.8028	50	28,0	72,0	21,7	46,0	300,0	2	1,70
963.8029	52	28,0	72,0	21,7	46,0	350,0	2	2,60
963.8030	54	30,0	79,0	21,7	49,0	350,0	2	2,50
963.8031	55	30,0	79,0	21,7	49,0	300,0	2	1,90
963.8032	56	30,0	79,0	21,7	49,0	350,0	2	2,60
963.8033	58	36,0	86,0	21,7	57,0	350,0	2	2,50
963.8034	60	36,0	86,0	21,7	57,0	370,0	3	2,50
963.8035	63	36,0	86,0	21,7	57,0	370,0	3	2,50
963.8036	65	38,0	93,0	21,7	60,0	400,0	3	3,20
963.8037	67	38,0	93,0	21,7	60,0	400,0	3	3,10
963.8038	70	41,0	103,0	21,7	62,0	400,0	3	3,00
963.8039	71	41,0	103,0	21,7	62,0	400,0	3	2,80
963.8040	75	43,0	109,0	21,7	67,0	400,0	3	2,70
963.8041	77	43,0	109,0	21,7	67,0	400,0	3	2,60
963.8042	80	43,0	119,0	21,7	68,0	410,0	3	5,00
963.8043	82	43,0	119,0	21,7	68,0	410,0	3	5,00
963.8044	85	45,0	128,0	21,7	72,0	410,0	3	5,10
963.8045	90	45,0	135,0	21,7	72,0	410,0	3	5,01
963.8046	95	45,0	142,0	21,7	72,0	410,0	3	4,79
963.8047	100	45,0	150,0	21,7	75,0	412,0	3	7,55

	mm	A mm	B mm	D mm	H mm	L mm	mm	kg
963.8051	1.3/16"	19,0	36,0	15,5	31,0	260,0	1	0,95
963.8052</								





**CHAVES DE ACOPLAMENTO E DE GANCHO**

**BRONZEplus Chave de acoplamento A-B-C**

- para acoplamentos de bombeiro (Storz) A - B - C
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	Ø mm	L mm	kg
963.8205	14	440,0	800

**BRONZEplus Chave de acoplamento B-C**

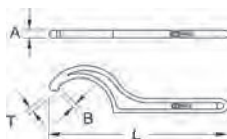
- para acoplamentos de bombeiro (Storz) B - C
- Cabo isolado a plástico contra o frio
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	Ø mm	L mm	kg
963.8206	12	280,0	450

**BRONZEplus Chave de gancho com pino**

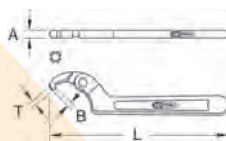
- em cumprimento da DIN 1810 Forma B
- com cavilha para porcas com furo cruzado conforme DIN 1816
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	Largura de fixação mm	A mm	B mm	L mm	T mm	kg
963.8210	12-14	3,0	1,5	110,0	2,0	0,03
963.8211	16-20	3,0	2	110,0	2,5	0,03
963.8212	25-28	4,0	2,5	135,0	3,0	0,05
963.8213	30-32	4,0	2,5	135,0	4,0	0,05
963.8214	34-36	5,0	3	170,0	4,0	0,10
963.8215	40-42	5,0	3	170,0	4,0	0,10
963.8216	45-50	6,0	3,5	205,0	5,0	0,19
963.8217	52-55	6,0	3,5	205,0	5,0	0,19
963.8218	58-62	7,0	4	240,0	5,0	0,24
963.8219	68-75	7,0	4	240,0	6,0	0,20
963.8220	80-90	8,0	5	280,0	6,0	0,41
963.8221	95-100	8,0	5	280,0	8,0	0,41
963.8222	110-115	10,0	6	335,0	8,0	0,73
963.8223	120-130	10,0	6	335,0	8,0	0,73
963.8224	135-145	12,0	7	390,0	8,0	1,15
963.8225	155-165	12,0	7	390,0	8,0	1,15
963.8226	180-195	14,0	8	465,0	10,0	1,41
963.8227	205-220	14,0	8	465,0	10,0	1,84

**BRONZEplus Chave de gancho articulada com secção saliente**

- em cumprimento da DIN 1810 Forma A
- com secção saliente para porca ranhurada conforme DIN 981
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	Largura de fixação mm	A mm	B mm	L mm	T mm	kg
963.8207	32-75	8,0	6,0	205,0	5,0	230
963.8208	50-120	10,0	7,0	285,0	6,0	450
963.8209	115-170	12,0	10,0	310,0	7,0	500

**CHAVES ESPECIAIS ANTI-FAÍSCANTES**

**BRONZEplus Gancho de roda de válvulas**

- Cabo isolado a plástico contra o frio
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	mm	L mm	kg
963.8228	30-40	500,0	720

**BRONZEplus Gancho de válvulas**

- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	Ø mm	L1 mm	L2 mm	L3 mm	kg
963.8229	13	300,0	50,0	30,0	0,35
963.8230	13	350,0	55,0	35,0	0,60
963.8231	16	400,0	60,0	40,0	0,68
963.8232	16	450,0	65,0	45,0	1,10
963.8233	19	500,0	70,0	50,0	1,20
963.8234	22	600,0	75,0	60,0	2,00
963.8235	25	700,0	80,0	70,0	3,00
963.8236	28	800,0	85,0	80,0	5,30

**BRONZEplus Chave com furo frontal**

- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	Distância entre cavilhas	Diâmetro de cavilhas mm	L mm	kg
963.8237	35,0	5,0	180,0	150

**BRONZEplus Chave de furo frontal ajustável**

- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	Diâmetro de cavilhas mm	Altura do parafuso mm	Comprimento mm	kg
963.0029	3,0	4,0	160,0	75

**BRONZEplus Chave para volante**

- em cumprimento da DIN 87311
- Cabo isolado a plástico contra o frio
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)

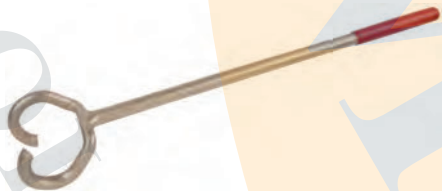


	Ø mm	A mm	L mm	kg
963.8238	36x60	60,0	370,0	0,65
963.8239	48x80	80,0	430,0	2,60
963.8240	62x102	102,0	550,0	1,30



**BRONZEplus Chave para volante B**

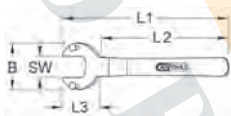
- em cumprimento da DIN 87311
- Cabo isolado a plástico contra o frio
- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	Ø mm	L mm	kg
963.8241	36x60	330,0	0,60
963.8242	48x80	470,0	1,40
963.8243	62x102	600,0	2,60

**BRONZEplus Chave para válvula de camião cisterna**

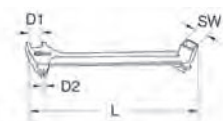
- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



Modelo	Ø mm	Dímetro de cavilhas mm	B mm	L1 mm	L2 mm	L3 mm	kg
963.8244	A	64,0 x 32,0	20,0	90,0	660,0	500,0	1,80
963.8245	B	64,0 x 32,0	20,0	90,0	650,0	500,0	1,60
963.8246	C	95,0 x 47,5	20,0	90,0	690,0	500,0	2,50

**BRONZEplus Chave universal para barris**

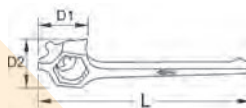
- para 22 fechos de barris
- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	Ø mm	L mm	D1 mm	D2 mm	kg
963.8270	18 x 22	380,0	27,0	6,0	1,25

**BRONZEplus Chave universal**

- para rolhas comuns
- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	D1 mm	D2 mm	L mm	kg
963.8271	38,0	52,0	300,0	600

**BRONZEplus Chave universal especial**

- para fechos de barris comuns
- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	D1 mm	D2 mm	D3 mm	D4 mm	L mm	kg
963.8272	70,0	70,0	65,0	95,0	400,0	1,70

**BRONZEplus Gancho para tampas de conduta**

- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	kg
963.8273	500,0	770

**BRONZEplus Gancho para tampas de conduta, reforçado**

- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)

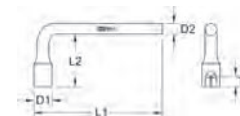


	L mm	kg
963.8274	700,0	1,20

**CHAVES DE CAIXA ANTI-FAISCANTES**

**BRONZEplus Chave de caixa angulada**

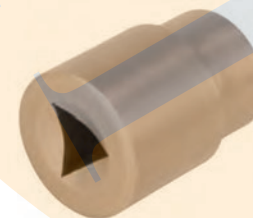
- quadrado
- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	Ø mm	D1 mm	D2 mm	L1 mm	L2 mm	T mm	kg
963.8247	8	18,0	8,0	150,0	33,0	15,0	90
963.8248	9	20,0	8,0	160,0	35,0	15,0	100
963.8249	10	22,0	8,0	175,0	37,0	15,0	120
963.8250	12	24,0	10,0	215,0	42,0	18,0	220
963.8251	13	26,0	10,0	230,0	45,0	18,0	280
963.8252	14	27,0	12,0	240,0	45,0	18,0	280
963.8253	17	32,0	14,0	280,0	51,0	22,0	330

**BRONZEplus Extensão para chave de caixa**

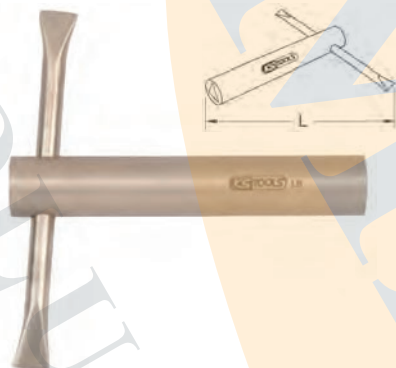
- triangular
- em cumprimento da DIN 3124 / ISO 2725-1
- quadrado interior em cumprimento da DIN 3120 / ISO 1174 com grelha de recolha de esferas
- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	Ø mm	D1 mm	D2 mm	L mm	kg
963.8254	6	16,0	25,0	40,0	70
963.8255	8	18,0	25,0	40,0	80
963.8256	10	22,0	25,0	40,0	80
963.8257	12	24,0	25,0	40,0	90
963.8258	16	30,0	25,0	50,0	150
963.8259	20	37,0	28,0	50,0	220
963.8260	25	44,0	32,0	60,0	400

**BRONZEplus Extensão para chave de caixa**

- triangular
- em cumprimento da DIN 22417
- com cabo transversal atravessado e móvel
- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	mm	L mm	kg
963.8261	4	95,0	0,08
963.8262	5	110,0	0,10
963.8263	6	115,0	0,17
963.8264	8	125,0	0,28
963.8265	10	140,0	0,39
963.8266	12	160,0	0,70
963.8267	16	180,0	0,98
963.8268	20	200,0	2,10
963.8269	24	220,0	3,10

**BRONZEplus Chave de caixa**

- sextavado
- para acionamento com pino de rotação
- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	mm	L mm		kg
963.8275	8	190,0	1	0,11
963.8276	9	200,0	1	0,20
963.8277	10	215,0	1	0,16
963.8278	11	230,0	2	0,21
963.8279	12	250,0	2	0,26
963.8280	13	265,0	3	0,35
963.8281	14	265,0	3	0,35
963.8282	15	280,0	3	0,40
963.8283	16	280,0	3	0,40
963.8284	17	300,0	4	0,45
963.8285	18	300,0	4	0,45
963.8286	19	325,0	4	0,65
963.8287	20	325,0	4	0,65
963.8288	21	350,0	4	0,83
963.8289	22	350,0	4	0,83
963.8290	23	380,0	5	1,14
963.8291	24	380,0	5	1,14
963.8292	25	415,0	5	1,45
963.8293	26	415,0	5	1,45
963.8294	27	415,0	5	1,45
963.8295	28	450,0	6	1,80
963.8296	29	450,0	6	1,80
963.8297	30	450,0	6	1,80
963.8298	32	485,0	6	2,45
963.8299	33	485,0	6	2,45
963.8300	34	485,0	6	2,45

	mm	L mm		kg
963.8301	35	530,0	7	3,30
963.8302	36	530,0	7	3,30
963.8303	37	530,0	7	3,30
963.8304	38	530,0	7	3,30
963.8305	41	580,0	8	4,00
963.8306	42	580,0	8	4,00
963.8307	46	635,0	8	4,80
963.8308	47	635,0	8	4,80
963.8309	50	320,0	9,10	4,90
963.8310	52	320,0	9,10	4,90
963.8311	54	340,0	9,10	6,50
963.8312	55	340,0	9,10	6,50
963.8313	56	340,0	9,10	6,50
963.8314	58	360,0	9,10	8,30
963.8315	60	360,0	9,10	8,30
963.8316	63	360,0	9,10	8,30
963.8317	65	380,0	11	10,50
963.8318	67	380,0	11	10,50
963.8319	70	380,0	11	10,50
963.8320	71	380,0	11	10,50
963.8321	75	400,0	11	14,30
963.8322	77	400,0	11	14,30
963.8323	80	400,0	11	14,30
963.8324	82	400,0	11	14,30
963.8325	85	425,0	12	19,20
963.8326	88	425,0	12	19,20
963.8327	90	425,0	12	19,20
963.8328	94	455,0	12	26,00
963.8329	95	455,0	12	26,00
963.8330	100	455,0	12	26,00

**BRONZEplus Pino de rotação para chave de caixa**

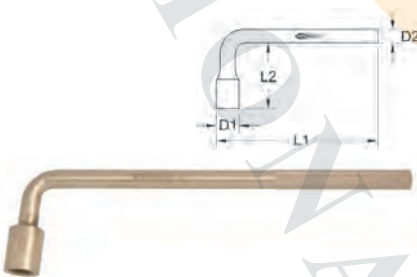
- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	mm	D mm	L mm	#	kg
963.8331	10	6,0	150,0	1	0,04
963.8332	12	8,0	190,0	2	0,10
963.8333	16	10,0	190,0	3	0,09
963.8334	22	10,0	250,0	4	0,18
963.8335	27	12,0	315,0	5	0,31
963.8336	34	16,0	400,0	6	0,60
963.8337	38	16,0	500,0	7	0,92
963.8338	47	20,0	630,0	8	1,60
963.8339	63	24,0	800,0	9	2,70
963.8340	63	24,0	1000,0	10	3,50
963.8341	82	30,0	1250,0	11	6,00
963.8342	100	36,0	1600,0	12	12,00

**BRONZEplus Chave de caixa angulada**

- sextavado
- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)

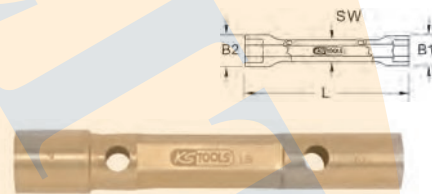


	mm	D1 mm	D2 mm	L1 mm	L2 mm	kg
963.8343	8	16,0	8,0	175,0	30,0	0,10
963.8344	9	17,0	8,0	185,0	33,0	0,12

	mm	D1 mm	D2 mm	L1 mm	L2 mm	kg
963.8345	10	18,0	8,0	195,0	37,0	0,14
963.8346	11	20,0	9,0	205,0	42,0	0,18
963.8347	12	21,0	9,0	220,0	42,0	0,22
963.8348	13	22,0	10,0	240,0	45,0	0,28
963.8349	14	22,0	10,0	240,0	45,0	0,28
963.8350	15	25,0	11,0	250,0	48,0	0,30
963.8351	16	25,0	11,0	250,0	48,0	0,30
963.8352	17	27,0	12,0	270,0	51,0	0,32
963.8353	18	27,0	12,0	270,0	53,0	0,32
963.8354	19	30,0	12,0	290,0	55,0	0,53
963.8355	20	30,0	12,0	290,0	57,0	0,53
963.8356	21	32,0	12,0	310,0	57,0	0,68
963.8357	22	32,0	12,0	310,0	59,0	0,68
963.8358	23	35,0	14,0	335,0	63,0	0,83
963.8359	24	35,0	14,0	335,0	63,0	0,83
963.8360	25	39,0	14,0	365,0	69,0	1,00
963.8361	26	39,0	14,0	365,0	69,0	1,00
963.8362	27	39,0	14,0	365,0	69,0	1,00
963.8363	28	43,0	15,0	395,0	72,0	1,30
963.8364	29	43,0	15,0	395,0	72,0	1,30
963.8365	30	43,0	15,0	395,0	72,0	1,30
963.8366	32	47,0	16,0	425,0	75,0	1,70
963.8367	33	47,0	16,0	425,0	75,0	1,70
963.8368	34	47,0	18,0	425,0	75,0	1,70
963.8369	35	52,0	18,0	465,0	80,0	2,80
963.8370	36	52,0	18,0	465,0	80,0	2,80
963.8371	37	52,0	18,0	465,0	80,0	2,80
963.8372	38	52,0	18,0	465,0	80,0	2,80
963.8373	41	58,0	20,0	510,0	85,0	3,60
963.8374	42	58,0	20,0	510,0	85,0	3,60
963.8375	46	65,0	21,0	555,0	90,0	4,00
963.8376	47	65,0	21,0	555,0	90,0	4,00
963.8377	50	72,0	22,0	605,0	93,0	4,80
963.8378	52	72,0	22,0	605,0	93,0	4,80
963.8379	54	76,0	24,0	660,0	97,0	6,40
963.8380	55	76,0	24,0	660,0	97,0	6,40
963.8381	56	76,0	24,0	660,0	97,0	6,40
963.8382	58	84,0	25,0	730,0	103,0	8,20
963.8383	60	84,0	25,0	730,0	103,0	8,20
963.8384	63	89,0	25,0	730,0	103,0	8,20
963.8385	65	89,0	27,0	800,0	108,0	10,40
963.8386	67	95,0	27,0	800,0	108,0	10,40
963.8387	70	95,0	27,0	800,0	115,0	10,40
963.8388	71	95,0	27,0	800,0	115,0	10,40
963.8389	75	105,0	30,0	880,0	120,0	14,10
963.8390	77	105,0	30,0	880,0	120,0	14,10
963.8391	80	112,0	30,0	880,0	125,0	14,10
963.8392	82	112,0	30,0	880,0	125,0	14,10

**BRONZEplus Chave de caixa, dois lados**

- sextavado
- para o acionamento com chave de boca ou pino de rotação
- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	mm	B1 mm	B2 mm	mm	L mm	kg	
963.8393	7x8	14,0	15,0	10	95,0	1	0,05
963.8394	9x10	16,0	18,0	10	105,0	2	0,07
963.8395	10x11	18,0	19,0	14	120,0	2	0,18
963.8396	12x14	21,0	22,0	17	135,0	3	0,16
963.8397	14x17	24,0	27,0	17	150,0	3	0,36
963.8398	17x19	27,0	30,0	19	160,0	4	0,28
963.8399	19x22	30,0	32,0	22	170,0	4	0,58
963.8400	20x22	32,0	39,0	22	170,0	4	0,58
963.8401	24x26	35,0	39,0	24	180,0	5	0,48
963.8402	24x27	35,0	39,0	24	190,0	5	0,53
963.8403	27x32	39,0	47,0	27	200,0	6	0,87
963.8404	30x32	43,0	47,0	27	210,0	6	0,89
963.8405	30x36	43,0	52,0	30	220,0	6	1,08
963.8406	36x41	52,0	58,0	32	230,0	6	1,70



### BRONZEplus Pino de rotação para chave de caixa

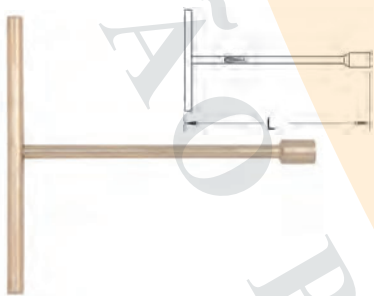
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	D mm	L mm	mm	#	kg
963.8407	5,0	110,0	7x8	1	20
963.8408	6,0	150,0	10x11	2	40
963.8409	10,0	220,0	14x17	3	120
963.8410	12,0	300,0	20x22	4	300
963.8411	15,0	390,0	24x27	5	480
963.8412	16,0	500,0	36x41	6	750

### BRONZEplus Chave de caixa com cabo transversal fixo

- sextavado
- com cabo transversal fixo
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	mm	L mm	kg
963.8413	8	196,0	0,14
963.8414	9	209,0	0,25
963.8415	10	223,0	0,19
963.8416	11	240,0	0,26
963.8417	12	256,0	0,31
963.8418	13	275,0	0,41
963.8419	14	275,0	0,41
963.8420	15	292,0	0,40
963.8421	16	292,0	0,45
963.8422	17	314,0	0,50
963.8423	18	314,0	0,55
963.8424	19	339,0	0,55
963.8425	20	339,0	0,55
963.8426	21	376,0	1,05
963.8427	22	376,0	1,05
963.8428	23	393,0	1,24
963.8429	24	393,0	1,24
963.8430	25	431,0	1,70
963.8431	26	431,0	1,70
963.8432	27	431,0	1,70
963.8433	28	464,0	2,10
963.8434	29	464,0	2,10
963.8435	30	464,0	2,10
963.8436	32	506,0	2,75
963.8437	33	506,0	2,75
963.8438	34	506,0	2,75
963.8439	35	550,0	4,00
963.8440	36	550,0	4,00
963.8441	37	550,0	4,00
963.8442	38	550,0	4,00
963.8443	41	600,0	5,40
963.8444	42	600,0	5,40
963.8445	46	655,0	6,00
963.8446	47	655,0	6,00
963.8447	50	345,0	6,30
963.8448	52	345,0	6,30
963.8449	54	365,0	8,00
963.8450	55	365,0	8,00
963.8451	56	365,0	8,00

	mm	L mm	kg
963.8452	58	390,0	10,50
963.8453	60	390,0	10,50
963.8454	63	390,0	10,50
963.8455	65	410,0	14,00
963.8456	67	410,0	14,00
963.8457	70	410,0	14,00
963.8458	71	410,0	14,00
963.8459	75	430,0	19,00
963.8460	77	430,0	19,00
963.8461	80	430,0	19,00
963.8462	82	430,0	19,00

### BERYLLIUMplus Chave de caixa com cabo

- sextavado
- com cabo de 2 componentes
- perfeita transferência da força rotativa
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



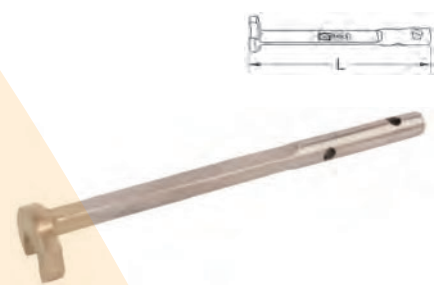
	mm	L1 mm	L2 mm	L3 mm	kg
962.0970	3,5	175,0	75,0	100,0	80
962.0971	4,5	180,0	80,0	100,0	80
962.0972	5	180,0	80,0	100,0	60
962.0973	5,5	185,0	85,0	100,0	60
962.0974	6	190,0	90,0	100,0	80
962.0975	6,5	190,0	90,0	100,0	90
962.0976	7	190,0	90,0	100,0	80
962.0977	7,5	200,0	100,0	100,0	80
962.0978	8	200,0	100,0	100,0	100
962.0979	9	210,0	110,0	100,0	100
962.0980	10	210,0	110,0	100,0	150
962.0981	11	220,0	110,0	110,0	150
962.0982	12	220,0	110,0	110,0	130
962.0983	13	230,0	120,0	110,0	170
962.0984	14	230,0	120,0	110,0	210
962.0985	15	240,0	130,0	110,0	210
962.0986	16	240,0	130,0	110,0	260
962.0987	17	250,0	130,0	120,0	280



		L1 mm	L2 mm	L3 mm	kg
962.0988	1/8"	175,0	75,0	100,0	10
962.0989	5/32"	180,0	80,0	100,0	70
962.0990	3/16"	185,0	85,0	100,0	60
962.0991	7/32"	190,0	90,0	100,0	80
962.0992	1/4"	190,0	90,0	100,0	80
962.0993	5/16"	210,0	100,0	110,0	100
962.0994	3/8"	220,0	110,0	110,0	100
962.0995	7/16"	230,0	120,0	110,0	170
962.0996	1/2"	230,0	120,0	110,0	210
962.0997	9/16"	240,0	120,0	120,0	120
962.0998	5/8"	250,0	130,0	120,0	150
962.0999	11/16"	250,0	130,0	120,0	240

### BRONZEplus Chave de garra

- trabalho fácil em pontos de difícil acesso
- para acionamento com pino de rotação
- posição da boca com ângulo de 90°
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	mm	L mm		kg
963.8463	13	160,0	1	0,10
963.8464	14	160,0	1	0,10
963.8465	15	200,0	1	0,17
963.8466	16	200,0	2	0,17
963.8467	17	200,0	2	0,17
963.8468	18	200,0	2	0,19
963.8469	19	200,0	3	0,22
963.8470	20	200,0	3	0,25
963.8471	21	200,0	3	0,26
963.8472	22	200,0	3	0,30
963.8473	23	200,0	4	0,35
963.8474	24	250,0	4	0,40
963.8475	25	250,0	4	0,40
963.8476	26	250,0	4	0,45
963.8477	27	250,0	4	0,45
963.8478	28	250,0	5	0,50
963.8479	29	250,0	5	0,55
963.8480	30	250,0	5	0,60
963.8481	32	250,0	5	0,65
963.8482	36	250,0	6	0,70
963.8483	41	315,0	6	1,15
963.8484	46	315,0	7	1,23
963.8485	50	315,0	7	1,50

### BRONZEplus Pino de rotação para chave de garra

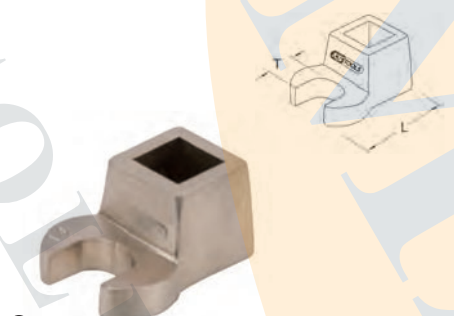
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



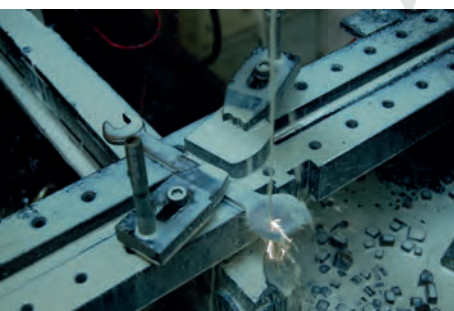
	mm	D mm	L mm	#	kg
963.8486	13-15	8,0	160,0	1	0,07
963.8487	16-18	10,0	200,0	2	0,13
963.8488	19-22	12,0	200,0	3	0,22
963.8489	23-27	14,0	250,0	4	0,40
963.8490	28-32	16,0	250,0	5	0,60
963.8491	36-41	18,0	315,0	6	1,00
963.8492	46-50	20,0	315,0	7	1,60

**BRONZEplus Chave pé de corvo, formato de boca**

- sextavado
- com quadrado interior
- para acionamento manual
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	mm	L mm	T mm	kg
963.8493	13	40,0	15,0	50
963.8494	14	40,0	15,0	50
963.8495	15	43,0	20,0	80
963.8496	16	43,0	20,0	80
963.8497	17	43,0	20,0	80
963.8498	18	49,0	22,0	110
963.8499	19	49,0	22,0	120
963.8500	20	49,0	22,0	130
963.8501	21	52,0	26,0	150
963.8502	22	52,0	26,0	170
963.8503	23	52,0	29,0	200
963.8504	24	55,0	29,0	200
963.8505	25	55,0	32,0	220
963.8506	26	59,0	32,0	220
963.8507	27	59,0	32,0	250
963.8508	28	59,0	32,0	270
963.8509	29	63,0	34,0	300
963.8510	30	63,0	34,0	320
963.8511	32	67,0	37,0	350
963.8512	36	76,0	42,0	570
963.8513	41	86,0	48,0	620
963.8514	46	97,0	55,0	750
963.8515	50	105,0	60,0	800



**BRONZEplus Extensão especial para chave pé de corvo**

- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	□	L mm	kg
963.8516	1/2	150,0	200
963.8517	1/2	250,0	400

**ROQUETE LIVRE ANTI-FAISCANTES**

**BRONZEplus Roquete de construção**

- sextavado
- com ponta de centragem
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	mm	L mm	kg
963.1105	17	230,0	0,62
963.1106	19	240,0	0,65
963.1107	21	250,0	0,83
963.1108	22	260,0	0,83
963.1109	24	270,0	1,02
963.1110	26	280,0	1,05
963.1111	27	285,0	1,10
963.1112	30	300,0	1,32
963.1113	32	315,0	1,10
963.1114	35	325,0	1,63
963.1115	36	330,0	1,67
963.1116	41	330,0	1,95

**BERYLLIUMplus Roquete livre**

- dozavado
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- alumínio-bronze (liga não ferrosa)



	mm	L mm	kg
962.0109	9	150,0	0,15
962.0111	11	150,0	0,15
962.0113	13	155,0	0,16
962.0114	14	155,0	0,16
962.0117	17	200,0	0,26
962.0119	19	200,0	0,26
962.0122	22	220,0	0,34
962.0124	24	220,0	0,34
962.0127	27	245,0	0,56
962.0130	30	280,0	0,84
962.0132	32	280,0	0,84
962.0136	36	290,0	1,18
962.0141	41	295,0	1,23
962.0146	46	360,0	2,06
962.0150	50	360,0	2,23
962.0155	55	440,0	2,90
962.0160	60	440,0	2,90



**CHAVE DE CAIXA ANTI-FAISCANTES DE ACIONAMENTO DE 1/4"**

**BERYLLIUMplus Extensão para chave de caixa**

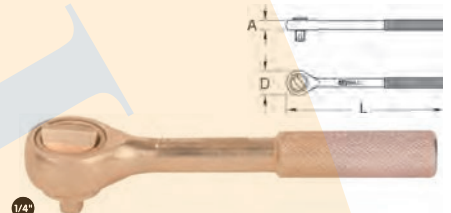
- sextavado
- em cumprimento da DIN 3124 / ISO 2725-1
- quadrado interior em cumprimento da DIN 3120 / ISO 1174 com grelha de recolha de esferas
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



	mm	D1 mm	D2 mm	L mm	kg
962.1404	4,0	10,0	15,0	25,0	10
962.14045	4,5	10,0	15,0	25,0	10
962.1405	5,0	11,0	15,0	25,0	10
962.14055	5,5	11,0	15,0	25,0	10
962.1406	6,0	12,0	15,0	25,0	10
962.1407	7,0	13,0	15,0	25,0	10
962.1408	8,0	14,0	15,0	25,0	20
962.1409	9,0	15,0	15,0	25,0	20
962.1410	10,0	16,0	15,0	25,0	20
962.1411	11,0	18,0	15,0	25,0	20
962.1412	12,0	19,0	15,0	27,0	30
962.1413	13,0	20,0	15,0	27,0	30
962.1414	14,0	22,0	15,0	27,0	30

**BERYLLIUMplus Roquete inversor**

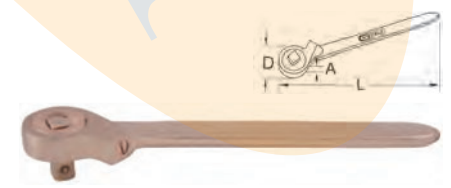
- em cumprimento da DIN 3122 / ISO 3315
- Acionamento quadrado em cumprimento da DIN 3120 / ISO 1174 com encaixe esférico
- comutável
- com dentado de 45 dentes
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



	mm	A mm	D mm	L mm	kg
962.1490	1/4"	15,0	30,0	150,0	200

**BERYLLIUMplus Roquete de carretos com adaptador para chave de caixa**

- Acionamento quadrado em cumprimento da DIN 3120 / ISO 1174 com encaixe esférico
- A alteração do sentido de acionamento é feita ao passar o acionamento quadrado para o outro lado
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)

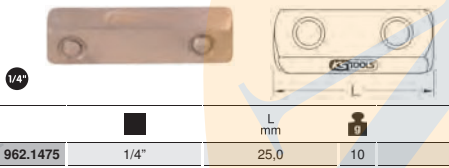


	mm	A mm	D mm	L mm	kg
962.1491	1/4"	14,0	36,0	150,0	320



**BERYLLIUMplus Barra quadrada de ligação**

- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



	■	L mm	Ø
962.1475	1/4"	25,0	10

**BERYLLIUMplus Extensão**

- Acionamento quadrado em comprimento da DIN 3120 / ISO 1174 com encaixe esférico
- quadrado interior em comprimento da DIN 3120 / ISO 1174 com grelha de recolha de esferas
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



	■	L mm	Ø
962.1450	1/4"	55,0	20
962.1451	1/4"	100,0	60
962.1452	1/4"	200,0	100

**BERYLLIUMplus Puxador articulado**

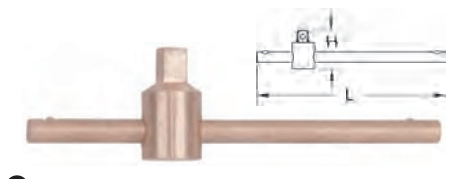
- Acionamento quadrado em comprimento da DIN 3120 / ISO 1174 com encaixe esférico
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



	■	L mm	Ø
962.1455	1/4"	165,0	160
962.1456	1/4"	215,0	350

**BERYLLIUMplus Cabo transversal**

- em comprimento da DIN 3122 / ISO 3315
- Acionamento quadrado em comprimento da DIN 3120 / ISO 1174 com encaixe esférico
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



	■	H mm	L mm	Ø
962.1460	1/4"	28,0	200,0	160

**BERYLLIUMplus Cabo quadrado**

- Acionamento quadrado em comprimento da DIN 3120 / ISO 1174 com encaixe esférico
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



	■	L1 mm	L2 mm	L3 mm	Ø
962.1465	1/4"	140,0	55,0	85,0	90

**BERYLLIUMplus Adaptador de aumento e redução**

- em comprimento da DIN 3123 / ISO 3316
- Acionamento quadrado em comprimento da DIN 3120 / ISO 1174 com encaixe esférico
- quadrado interior em comprimento da DIN 3120 / ISO 1174 com grelha de recolha de esferas
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



	□	■	L mm	Ø
962.1470	1/4"	1/2"	30,0	40
963.1280	1/2"	1/4"	40,0	60

**BERYLLIUMplus Junta de cardan**

- em comprimento da DIN 3123 / ISO 3316
- Acionamento quadrado em comprimento da DIN 3120 / ISO 1174 com encaixe esférico
- quadrado interior em comprimento da DIN 3120 / ISO 1174 com grelha de recolha de esferas
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



	□	■	L mm	Ø
962.1480	1/4"	1/4"	55,0	70

**BERYLLIUMplus Caixa de roquetes**

- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)
- em mala de plástico robusta



	■	L mm	Ø
962.1485	15 peças	BERYLLIUMplus Caixa de roquetes	1000
13 x		4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 mm	
1 x		100 mm	
1 x		250 mm	

**CHAVE DE CAIXA ANTI-FAISCANTES DE ACIONAMENTO DE 1/2"**

**BRONZEplus Extensão para chave de caixa**

- sextavado
- em comprimento da DIN 3124 / ISO 2725-1
- quadrado interior em comprimento da DIN 3120 / ISO 1174 com grelha de recolha de esferas
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	■	mm	D1 mm	D2 mm	L mm	Ø
963.1204	6	14,0	24,0	40,0	70	
963.1205	7	14,0	24,0	40,0	80	
963.1206	8	15,0	24,0	40,0	50	
963.1207	9	16,0	24,0	40,0	50	
963.1208	10	17,0	24,0	40,0	50	
963.1209	11	19,0	24,0	40,0	50	
963.1210	12	20,0	24,0	40,0	50	
963.1211	13	20,0	24,0	40,0	50	
963.1212	14	24,0	24,0	40,0	80	
963.1213	15	25,0	25,0	40,0	90	
963.1214	16	25,0	25,0	40,0	60	
963.1215	17	26,0	26,0	40,0	90	
963.1216	18	29,0	27,0	40,0	120	
963.1217	19	30,0	28,0	40,0	130	
963.1218	20	31,0	28,0	40,0	130	
963.1219	21	32,0	28,0	40,0	100	
963.1220	22	33,0	28,0	40,0	110	
963.1221	23	34,0	31,0	40,0	120	
963.1222	24	35,0	31,0	40,0	150	
963.1223	25	36,0	32,0	40,0	130	
963.1224	26	37,0	34,0	40,0	180	
963.1225	27	38,0	34,0	40,0	150	
963.1226	28	40,0	36,0	40,0	200	
963.1227	29	42,0	36,0	40,0	220	
963.1228	30	43,0	40,0	40,0	250	
963.1229	32	45,0	42,0	42,0	240	
963.1230	34	48,0	42,0	50,0	300	
963.1231	36	50,0	42,0	50,0	380	
963.1341	41	57,0	44,0	50,0	560	

	■	D1 mm	D2 mm	L mm	Ø
963.1249	1/4"	15,0	24,0	40,0	50
963.1250	5/16"	15,0	24,0	40,0	50
963.1251	11/32"	16,0	24,0	40,0	50
963.1252	3/8"	17,0	24,0	40,0	50
963.1253	13/32"	18,0	24,0	40,0	50
963.1254	7/16"	19,0	24,0	40,0	50
963.1255	1/2"	21,0	24,0	40,0	50
963.1256	9/16"	23,0	24,0	40,0	80
963.1257	19/32"	24,0	24,0	40,0	90
963.1258	5/8"	26,0	26,0	40,0	60
963.1259	11/16"	28,0	26,0	40,0	90
963.1260	3/4"	29,0	26,0	40,0	130
963.1261	25/32"	31,0	26,0	40,0	130
963.1262	13/16"	32,0	26,0	40,0	130
963.1263	7/8"	33,0	28,0	40,0	110
963.1264	15/16"	35,0	31,0	40,0	120
963.1265	1"	36,0	34,0	40,0	130
963.1266	1.1/16"	39,0	34,0	40,0	150
963.1267	1.1/8"	41,0	36,0	40,0	220
963.1268	1.3/16"	43,0	40,0	40,0	250
963.1269	1.1/4"	45,0	42,0	42,0	240





**BRONZEplus Extensão para chave de caixa, comprida**

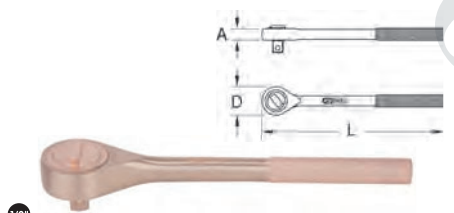
- sextavado
- em cumprimento da DIN 3124 / ISO 2725-1
- quadrado interior em cumprimento da DIN 3120 / ISO 1174 com grelha de recolha de esferas
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	mm	D1 mm	D2 mm	L mm	g
963.1232	10	19,0	25,0	77,0	110
963.1233	12	20,0	25,0	77,0	170
963.1234	13	21,0	25,0	77,0	170
963.1235	14	22,0	25,0	77,0	110
963.1236	15	25,0	25,0	77,0	120
963.1237	16	25,0	25,0	77,0	170
963.1238	17	27,0	27,0	77,0	140
963.1239	18	28,0	28,0	82,0	250
963.1240	19	30,0	28,0	82,0	180
963.1241	21	32,0	28,0	82,0	260
963.1242	22	33,0	28,0	82,0	210
963.1243	24	36,0	30,0	82,0	250
963.1244	27	40,0	30,0	82,0	400
963.1245	30	44,0	32,0	82,0	510
963.1246	32	46,0	32,0	82,0	550
963.1247	34	48,0	34,0	82,0	710
963.1248	36	50,0	34,0	82,0	760

**BERYLLIUMplus Roquete inversor**

- em cumprimento da DIN 3122 / ISO 3315
- Acionamento quadrado em cumprimento da DIN 3120 / ISO 1174 com encaixe esférico
- comutável
- com dentado de 45 dentes
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



	A mm	D mm	L mm	g
962.1290	23,0	54,0	250,0	590

**BERYLLIUMplus Roquete de carretos com adaptador para chave de caixa**

- Acionamento quadrado em cumprimento da DIN 3120 / ISO 1174 com encaixe esférico
- A alteração do sentido de acionamento é feita ao passar o acionamento quadrado para o outro lado
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



	A mm	D mm	L mm	g
962.1291	17,0	45,0	250,0	430

**BRONZEplus Barra quadrada de ligação**

- Acionamento quadrado em cumprimento da DIN 3120 / ISO 1174 com encaixe esférico
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	1/2"	L mm	g
963.1281	1/2"	36,5	50

**BRONZEplus Extensão**

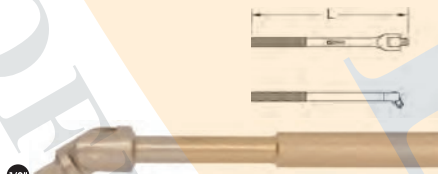
- em cumprimento da DIN 3123 / ISO 3316
- Acionamento quadrado em cumprimento da DIN 3120 / ISO 1174 com encaixe esférico
- quadrado interior em cumprimento da DIN 3120 / ISO 1174 com grelha de recolha de esferas
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	1/2"	L mm	g
963.1270	1/2"	100,0	180
963.1271	1/2"	200,0	270
963.1272	1/2"	250,0	360

**BRONZEplus Puxador articulado**

- em cumprimento da DIN 3122 / ISO 3315
- Acionamento quadrado em cumprimento da DIN 3120 / ISO 1174 com encaixe esférico
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	1/2"	L mm	g
963.1273	1/2"	215,0	350
963.1274	1/2"	250,0	560
963.1275	1/2"	300,0	920
963.1276	1/2"	380,0	590

**BRONZEplus Cabo transversal**

- em cumprimento da DIN 3122 / ISO 3315
- Acionamento quadrado em cumprimento da DIN 3120 / ISO 1174 com encaixe esférico
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	1/2"	H mm	L mm	g
963.1277	1/2"	46,0	250,0	450
963.1278	1/2"	46,0	320,0	550

**BRONZEplus Adaptador de aumento e redução**

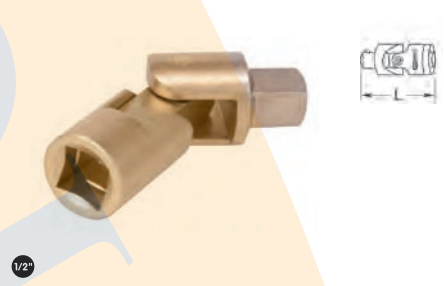
- em cumprimento da DIN 3123 / ISO 3316
- Acionamento quadrado em cumprimento da DIN 3120 / ISO 1174 com encaixe esférico
- quadrado interior em cumprimento da DIN 3120 / ISO 1174 com grelha de recolha de esferas
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	1/2"	3/4"	L mm	g
963.1279	1/2"	3/4"	22,0	120
963.1280	1/2"	1/4"	40,0	60

**BRONZEplus Junta de cardan**

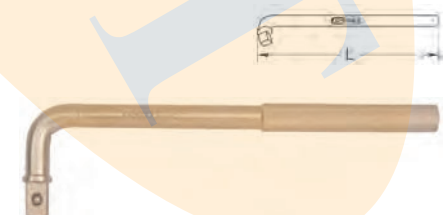
- em cumprimento da DIN 3123 / ISO 3316
- Acionamento quadrado em cumprimento da DIN 3120 / ISO 1174 com encaixe esférico
- quadrado interior em cumprimento da DIN 3120 / ISO 1174 com grelha de recolha de esferas
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	1/2"	L mm	g
963.1282	1/2"	70,0	170

**BRONZEplus Puxador angulado**

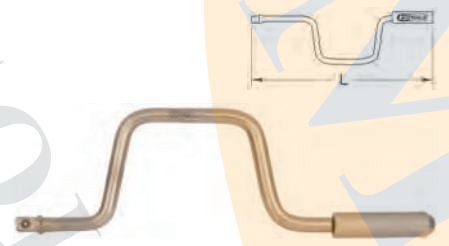
- em cumprimento da DIN ISO 2936
- Acionamento quadrado em cumprimento da DIN 3120 / ISO 1174 com encaixe esférico
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	1/2"	L mm	g
963.1283	1/2"	220,0	260
963.1284	1/2"	260,0	400

### BRONZEplus Manivela

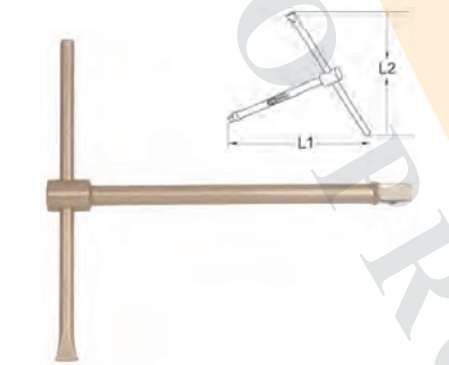
- Acionamento quadrado em cumprimento da DIN 3120 / ISO 1174 com encaixe esférico
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



963.1285	1/2"	L mm	D mm	g
		410,0	700	

### BRONZEplus Cabo em T

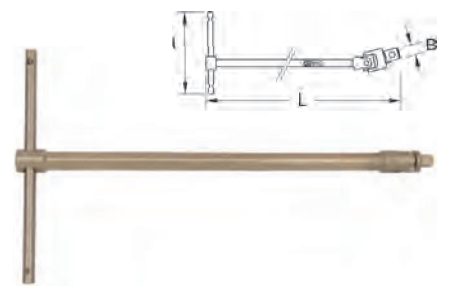
- em cumprimento da DIN 3122 / ISO 3315
- Acionamento quadrado em cumprimento da DIN 3120 / ISO 1174 com encaixe esférico
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



963.1286	1/2"	L1 mm	L2 mm	g
		245,0	220,0	500

### BRONZEplus Chave articulada com cabo em T

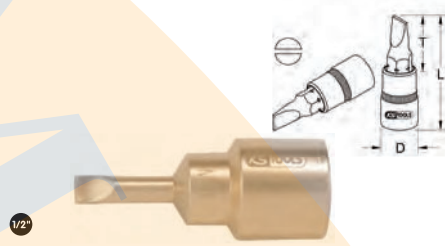
- em cumprimento da DIN 3122 / ISO 3315
- Acionamento quadrado em cumprimento da DIN 3120 / ISO 1174 com encaixe esférico
- com articulação
- para zonas de difícil acesso
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



963.1287	1/2"	B mm	I mm	L mm	D mm	g
		12,5	250,0	460,0	760	

### BRONZEplus Ponta para chave de parafusos para parafusos de fenda

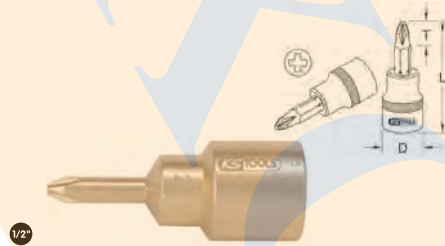
- de fenda
- quadrado interior em cumprimento da DIN 3120 / ISO 1174 com grelha de recolha de esferas
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	mm	D mm	L mm	T mm	g
963.1292	4,0	25,0	60,0	9,0	140
963.1293	6,0	25,0	60,0	9,0	140
963.1294	8,0	25,0	60,0	9,0	140
963.1295	10,0	25,0	60,0	9,0	140

### BRONZEplus Ponta para chave de parafusos para parafusos Phillips PH

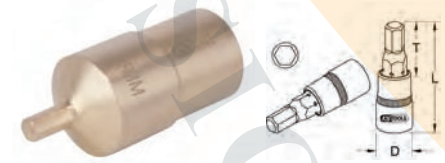
- PH
- quadrado interior em cumprimento da DIN 3120 / ISO 1174 com grelha de recolha de esferas
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



		D mm	L mm	T mm	g
963.1296	PH 1	25,0	60,0	8,0	140
963.1297	PH 2	25,0	60,0	8,0	140
963.1298	PH 3	25,0	60,0	8,0	140
963.1299	PH 4	25,0	60,0	8,0	140

### BRONZEplus Ponta para chave de parafusos para parafusos com sextavado interior, curta

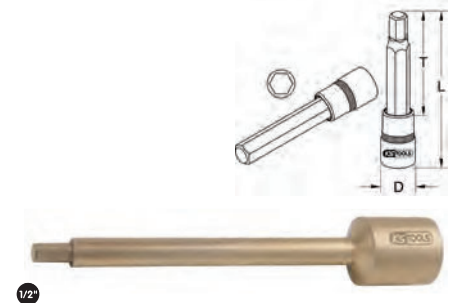
- sextavado interior
- conforme DIN 7422
- acionamento de quadrado interior conforme DIN 3120 / ISO 1174 com grelha de recolha de esferas
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	mm	D mm	L mm	T mm	g
963.1300	4	25,0	60,0	12,0	110
963.1301	5	25,0	60,0	12,0	70
963.1302	6	25,0	60,0	12,0	70
963.1303	7	25,0	60,0	12,0	110
963.1304	8	25,0	60,0	12,0	80
963.1305	9	25,0	60,0	12,0	110
963.1306	10	25,0	60,0	12,0	110
963.1307	12	25,0	60,0	12,0	120
963.1308	14	25,0	60,0	12,0	130
963.1309	17	25,0	60,0	12,0	140
963.1310	19	25,0	60,0	12,0	230

### BRONZEplus Ponta para chave de parafusos para parafusos com sextavado interior, comprida

- sextavado interior
- conforme DIN 7422
- acionamento de quadrado interior conforme DIN 3120 / ISO 1174 com grelha de recolha de esferas
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	mm	D mm	L mm	T mm	g
963.1311	5	25,0	90,0	12,0	90
963.1312	5	25,0	180,0	12,0	100
963.1313	6	25,0	90,0	12,0	80
963.1314	6	25,0	140,0	12,0	120
963.1315	6	25,0	160,0	12,0	130
963.1316	7	25,0	100,0	12,0	90
963.1317	8	25,0	90,0	12,0	90
963.1318	8	25,0	120,0	12,0	160
963.1319	10	25,0	140,0	12,0	150
963.1320	12	25,0	140,0	12,0	190
963.1321	14	25,0	140,0	12,0	250

### BRONZEplus Caixa de roquetes

- sextavado
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)
- em mala de plástico robusta



			g
963.1288	11 peças	BRONZEplus Caixa de roquetes	5,30
9 x		10 - 11 - 13 - 14 - 15 - 17 - 19 - 22 - 24 mm	
1 x		100 mm	
1 x		250 mm	

			g
963.1289	23 peças	BRONZEplus Caixa de roquetes	4,10
22 x		10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-32 mm	
1 x		250 mm	



			
963.1290		24 peças	BRONZEplus Caixa de roquetes 2,00
22 x		10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-32 mm	
1 x		250 mm	
1 x		250 mm	

			
963.1291		26 peças	BRONZEplus Caixa de roquetes 4,10
22 x		10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-32 mm	
1 x		250 mm	
1 x		250 mm	
1 x		320 mm	
1 x		380 mm	




**BRONZEplus Caixas para pontas para chave de parafusos**

- sextavado interior
- conforme DIN 7422
- acionamento de quadrado interior conforme DIN 3120 / ISO 1174 com grelha de recolha de estêres
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)
- em caixa de madeira com dobradiças anti-faíscentes



			
963.1322		9 peças	BRONZEplus Caixas para pontas para chave de parafusos 1,24
9 x		1/2": 5-6-7-8-9-10-12-14-17 mm	

			
963.1323		11 peças	BRONZEplus Caixas para pontas para chave de parafusos 2,99
1 x		1/2"	
1 x		1/2": 250 mm	
9 x		1/2": 5-6-7-8-9-10-12-14-17 mm	

			
963.1324		15 peças	BRONZEplus Caixas para pontas para chave de parafusos 2,79
9 x		1/2": 5-6-7-8-9-10-12-14-17 mm	
6 x		1/2": 5/90-6/90-8/90-10/140-12/140-14/140 mm	



**CHAVE DE CAIXA ANTI-FAÍSCANTES DE ACIONAMENTO DE 3/4"**



**BRONZEplus Extensão para chave de caixa**

- sextavado
- em cumprimento da DIN 3124 / ISO 2725-1
- quadrado interior em cumprimento da DIN 3120 / ISO 1174 com grelha de recolha de estêres
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



3/4"

		D1 mm	D2 mm	L mm	
963.3405	18	31,0	36,0	60,0	180
963.3406	19	32,0	36,0	60,0	180
963.3407	21	34,0	36,0	60,0	180
963.3408	22	36,0	36,0	60,0	180
963.3409	24	38,0	36,0	55,0	350
963.3410	25	39,0	36,0	55,0	350
963.3411	26	40,0	36,0	50,0	330
963.3412	27	41,0	36,0	50,0	300
963.3413	28	42,0	38,0	50,0	300
963.3414	29	43,0	38,0	50,0	300
963.3415	30	45,0	38,0	50,0	310
963.3416	32	48,0	40,0	60,0	430
963.3417	33	50,0	40,0	60,0	450
963.3418	34	50,0	40,0	60,0	470
963.3419	35	51,0	44,0	55,0	400
963.3420	36	52,0	44,0	60,0	430
963.3421	38	55,0	46,0	60,0	490
963.3422	41	64,0	50,0	65,0	560
963.3423	42	64,0	50,0	65,0	600
963.3424	46	68,0	50,0	65,0	840
963.3425	50	72,0	55,0	70,0	1080
963.3426	55	80,0	60,0	70,0	900
963.3427	58	80,0	60,0	60,0	950
963.3428	60	82,0	60,0	70,0	1290

		D1 mm	D2 mm	L mm	
963.3429	7/8"	36,0	36,0	60,0	180
963.3430	15/16"	39,0	36,0	55,0	350
963.3431	1"	39,0	36,0	55,0	350
963.3432	1.1/16"	41,0	36,0	50,0	300
963.3433	1.1/8"	41,0	36,0	50,0	300
963.3434	1.1/4"	48,0	40,0	60,0	430
963.3435	1.5/16"	50,0	40,0	60,0	400
963.3436	1.3/8"	52,0	44,0	55,0	400
963.3437	1.7/16"	55,0	46,0	60,0	430
963.3438	1.1/2"	55,0	46,0	60,0	490
963.3439	1.9/16"	55,0	46,0	60,0	490
963.3440	1.5/8"	64,0	50,0	65,0	560
963.3441	1.11/16"	64,0	50,0	65,0	560
963.3442	1.3/4"	68,0	50,0	65,0	600
963.3443	1.13/16"	68,0	50,0	65,0	840
963.3444	1.7/8"	68,0	50,0	65,0	1000
963.3445	2"	72,0	55,0	70,0	700





**BERYLLIUMplus Roquete inversor**

- em cumprimento da DIN 3122 / ISO 3315
- Acionamento quadrado em cumprimento da DIN 3120 / ISO 1174 com encaixe esférico
- comutável
- com dentado de 45 dentes
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



3/4"



		A mm	D mm	L mm	
962.3490	3/4"	22,0	59,0	300,0	1,90

**BERYLLIUMplus Roquete de carretos com adaptador para chave de caixa**

- Acionamento quadrado em cumprimento da DIN 3120 / ISO 1174 com encaixe esférico
- A alteração do sentido de acionamento é feita ao passar o acionamento quadrado para o outro lado
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



3/4"

		A mm	D mm	L mm	
962.3491	3/4"	22,0	60,0	500,0	1,80

**BRONZEplus Barra quadrada de ligação**

- Acionamento quadrado em cumprimento da DIN 3120 / ISO 1174 com encaixe esférico
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



3/4"

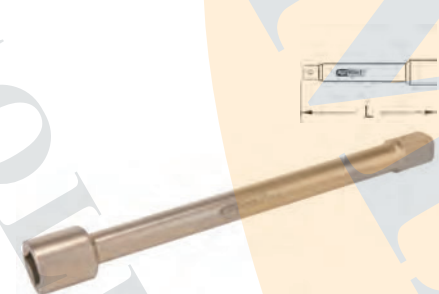
		L mm	
963.3457	3/4"	51,5	130

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### BRONZEplus Extensão

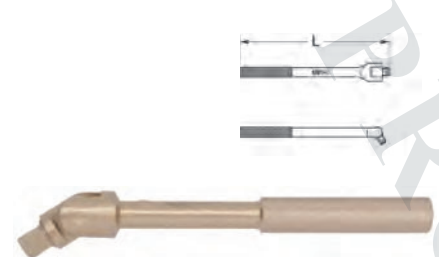
- em cumprimento da DIN 3123 / ISO 3316
- Acionamento quadrado em cumprimento da DIN 3120 / ISO 1174 com encaixe esférico
- quadrado interior em cumprimento da DIN 3120 / ISO 1174 com grelha de recolha de esferas
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	■	L mm	kg
963.3446	3/4"	100,0	0,35
963.3447	3/4"	250,0	0,70
963.3448	3/4"	380,0	1,67
963.3449	3/4"	430,0	1,50

### BRONZEplus Punho articulado

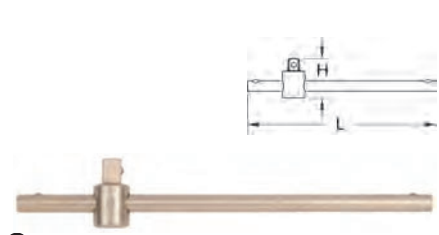
- em cumprimento da DIN 3122 / ISO 3315
- Acionamento quadrado em cumprimento da DIN 3120 / ISO 1174 com encaixe esférico
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	■	L mm	kg
963.3450	3/4"	380,0	1,40
963.3451	3/4"	460,0	1,30
963.3452	3/4"	550,0	1,95

### BRONZEplus Cabo transversal

- em cumprimento da DIN 3122 / ISO 3315
- Acionamento quadrado em cumprimento da DIN 3120 / ISO 1174 com encaixe esférico
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	■	H mm	L mm	kg
963.3453	3/4"	65,0	260,0	0,60
963.3454	3/4"	65,0	500,0	1,48

### BRONZEplus Adaptador de aumento e redução

- em cumprimento da DIN 3123 / ISO 3316
- Acionamento quadrado em cumprimento da DIN 3120 / ISO 1174 com encaixe esférico
- quadrado interior em cumprimento da DIN 3120 / ISO 1174 com grelha de recolha de esferas
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	□	■	L mm	kg
963.3455	3/4"	1"	61,0	300
963.3456	3/4"	1/2"	57,0	150

### BRONZEplus Junta de cardan

- em cumprimento da DIN 3123 / ISO 3316
- Acionamento quadrado em cumprimento da DIN 3120 / ISO 1174 com encaixe esférico
- quadrado interior em cumprimento da DIN 3120 / ISO 1174 com grelha de recolha de esferas
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	□	■	L mm	kg
963.3458	3/4"	3/4"	85,0	550
963.3459	3/4"	3/4"	106,0	570

### BRONZEplus Puxador angulado

- em cumprimento da DIN ISO 2936
- Acionamento quadrado em cumprimento da DIN 3120 / ISO 1174 com encaixe esférico
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	■	L mm	kg
963.3460	3/4"	300,0	800

### BRONZEplus Manivela

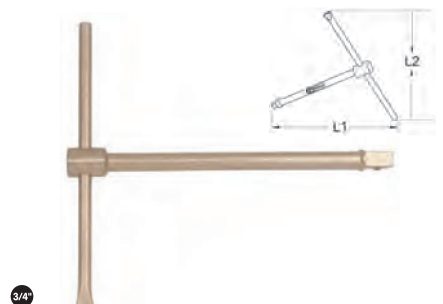
- Acionamento quadrado em cumprimento da DIN 3120 / ISO 1174 com encaixe esférico
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	■	L mm	kg
963.3461	3/4"	380,0	1,25

### BRONZEplus Cabo em T

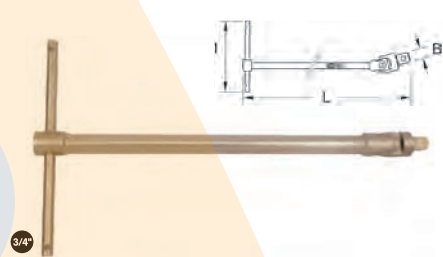
- em cumprimento da DIN 3122 / ISO 3315
- Acionamento quadrado em cumprimento da DIN 3120 / ISO 1174 com encaixe esférico
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	■	L1 mm	L2 mm	kg
963.3462	3/4"	260,0	250,0	850

### BRONZEplus Chave articulada com cabo em T

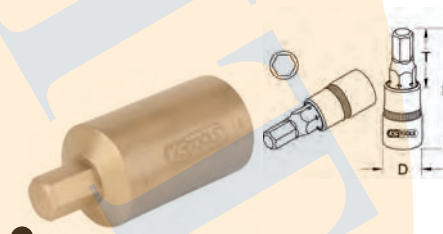
- em cumprimento da DIN 3122 / ISO 3315
- Acionamento quadrado em cumprimento da DIN 3122 / ISO 1174 com encaixe esférico
- com articulação
- para zonas de difícil acesso
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	■	B mm	I mm	L mm	kg
963.3463	3/4"	20,0	300,0	560,0	1,20

### BRONZEplus Ponta para chave de parafusos para parafusos com sextavado interior, curta

- sextavado interior
- conforme DIN 7422
- acionamento de quadrado interior conforme DIN 3120 / ISO 1174 com grelha de recolha de esferas
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	mm	D mm	L mm	T mm	kg
963.3465	14	36,0	80,0	18,0	350
963.3466	17	36,0	80,0	18,0	390
963.3467	19	36,0	80,0	18,0	440
963.3468	22	36,0	80,0	18,0	480
963.3469	24	36,0	80,0	18,0	520
963.3470	27	36,0	80,0	18,0	550
963.3471	30	36,0	80,0	18,0	570
963.3472	32	36,0	80,0	18,0	590
963.3473	36	36,0	80,0	18,0	620
963.3474	41	36,0	90,0	18,0	720
963.3475	46	36,0	90,0	18,0	820

**BRONZEplus Caixa de roquetes**

- sextavado
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)
- em mala de plástico robusta

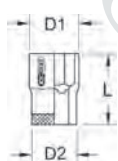


963.3464		12 peças	BRONZEplus Caixa de roquetes	12,70
7 x		36 - 38 - 41 - 46 - 50 - 55 - 60 mm		
1 x		380 mm		
1 x		300 mm		
1 x		500 mm		
1 x		380 mm		

**CHAVE DE CAIXA ANTI-FAÍSCANTES DE ACIONAMENTO DE 1"**

**BRONZEplus Extensão para chave de caixa**

- sextavado
- em cumprimento da DIN 3124 / ISO 2725-1
- quadrado interior em cumprimento da DIN 3120 / ISO 1174 com grelha de recolha de esferas
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	mm	D1 mm	D2 mm	L mm	kg
963.0088	19	33,0	46,0	55,0	0,28
963.0089	21	35,0	46,0	55,0	0,30
963.0091	22	37,0	46,0	55,0	0,33
963.0092	24	39,0	47,0	55,0	0,34
963.0093	26	42,0	47,0	55,0	0,35
963.0094	27	44,0	48,0	55,0	0,36
963.0095	29	46,0	48,0	60,0	0,37
963.0096	30	48,0	50,0	60,0	0,41
963.1005	32	50,0	50,0	60,0	0,51
963.1006	36	52,0	50,0	65,0	0,55
963.1007	41	63,0	50,0	70,0	0,73
963.1008	42	63,0	50,0	65,0	0,71
963.1009	46	67,0	52,0	65,0	0,71
963.1010	50	72,0	52,0	70,0	0,93
963.1011	55	78,0	60,0	75,0	1,13
963.1012	60	83,0	60,0	75,0	1,35
963.1013	65	90,0	65,0	75,0	1,50
963.1014	70	98,0	75,0	85,0	1,75
963.1015	75	104,0	75,0	85,0	2,30
963.1016	80	110,0	85,0	85,0	2,50
963.1017	85	116,0	85,0	90,0	2,80
963.1018	90	120,0	90,0	85,0	4,40
963.1019	95	130,0	95,0	85,0	4,50
963.1020	100	136,0	95,0	85,0	4,60

		D1 mm	D2 mm	L mm	kg
963.1021	1.7/16"	52,0	50,0	65,0	0,55
963.1022	1.1/2"	54,0	50,0	65,0	0,68
963.1023	1.5/8"	63,0	50,0	70,0	0,73
963.1024	1.11/16"	65,0	50,0	65,0	0,71
963.1025	1.13/16"	68,0	52,0	65,0	0,71
963.1026	1.7/8"	69,0	52,0	65,0	0,73
963.1027	2"	70,0	52,0	70,0	0,93
963.1028	2.1/16"	73,0	60,0	70,0	0,95
963.1029	2.3/16"	77,0	60,0	75,0	1,13
963.1030	2.3/8"	82,0	65,0	75,0	1,13
963.1031	2.1/4"	80,0	65,0	75,0	1,35
963.1032	2.7/16"	83,0	65,0	75,0	1,40
963.1033	2.9/16"	90,0	70,0	75,0	1,50
963.1034	2.5/8"	91,0	70,0	75,0	1,55
963.1035	2.3/4"	96,0	75,0	85,0	1,75
963.1037	2.15/16"	103,0	80,0	85,0	2,30
963.1038	3"	104,0	80,0	85,0	2,35
963.1039	3.1/8"	110,0	80,0	85,0	2,50
963.1040	3.3/8"	116,0	85,0	90,0	2,80
963.1041	3.1/2"	120,0	90,0	90,0	4,40
963.1042	3.3/4"	130,0	95,0	90,0	4,50
963.1043	3.7/8"	135,0	95,0	90,0	4,60
963.1044	4.1/4"	113,0	85,0	90,0	5,00

**BERYLLIUMplus Roquete inversor**

- em cumprimento da DIN 3122 / ISO 3315
- Acionamento quadrado em cumprimento da DIN 3120 / ISO 1174 com encaixe esférico
- comutável
- com dentado de 45 dentes
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



		A mm	D mm	L mm	kg
962.1090	1"	30,0	72,0	550,0	340

**BERYLLIUMplus Roquete de carretos com adaptador para chave de caixa**

- Acionamento quadrado em cumprimento da DIN 3120 / ISO 1174 com encaixe esférico
- A alteração do sentido de acionamento é feita ao passar o acionamento quadrado para o outro lado
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



		A mm	D mm	L mm	kg
962.1091	1"	23,0	72,0	550,0	3,50



**BRONZEplus Barra quadrada de ligação**

- Acionamento quadrado em cumprimento da DIN 3120 / ISO 1174 com encaixe esférico
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



		L mm	kg
963.1051	1"	68,0	300

**BRONZEplus Extensão**

- em cumprimento da DIN 3123 / ISO 3316
- Acionamento quadrado em cumprimento da DIN 3120 / ISO 1174 com encaixe esférico
- quadrado interior em cumprimento da DIN 3120 / ISO 1174 com grelha de recolha de esferas
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



		L mm	kg
963.1045	1"	100,0	0,80
963.1046	1"	250,0	1,40
963.1047	1"	400,0	2,09

**BRONZEplus Punho articulado**

- em cumprimento da DIN 3122 / ISO 3315
- Acionamento quadrado em cumprimento da DIN 3120 / ISO 1174 com encaixe esférico
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



		L mm	kg
963.1048	1"	380,0	1,20

**BRONZEplus Cabo transversal**

- em cumprimento da DIN 3122 / ISO 3315
- Acionamento quadrado em cumprimento da DIN 3120 / ISO 1174 com encaixe esférico
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	■	H mm	L mm	kg
963.1049	1"	76,0	700,0	2,80

**BRONZEplus Adaptador redutor**

- em cumprimento da DIN 3123 / ISO 3316
- Acionamento quadrado em cumprimento da DIN 3120 / ISO 1174 com encaixe esférico
- quadrado interior em cumprimento da DIN 3120 / ISO 1174 com grelha de recolha de esferas
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	□	■	L mm	kg
963.1050	1"	3/4"	75,0	540

**BRONZEplus Junta de cardan**

- em cumprimento da DIN 3123 / ISO 3316
- Acionamento quadrado em cumprimento da DIN 3120 / ISO 1174 com encaixe esférico
- quadrado interior em cumprimento da DIN 3120 / ISO 1174 com grelha de recolha de esferas
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	□	■	L mm	kg
963.1052	1"	1"	141,0	1,45



**BRONZEplus Puxador angulado**

- em cumprimento da DIN ISO 2936
- Acionamento quadrado em cumprimento da DIN 3120 / ISO 1174 com encaixe esférico
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	■	L mm	kg
963.1053	1"	300,0	1,00

**BRONZEplus Manivela**

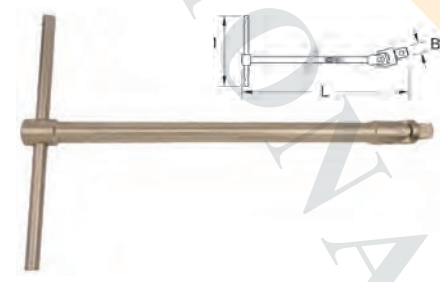
- Acionamento quadrado em cumprimento da DIN 3120 / ISO 1174 com encaixe esférico
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	■	L mm	kg
963.1054	1"	380,0	1,40

**BRONZEplus Chave articulada com cabo em T**

- em cumprimento da DIN 3122 / ISO 3315
- Acionamento quadrado em cumprimento da DIN 3122 / ISO 1174 com encaixe esférico
- com articulação
- para zonas de difícil acesso
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	■	B mm	I mm	L mm	kg
963.1055	1"	25,0	400,0	660,0	1,70

**BRONZEplus Ponta para chave de parafusos para parafusos com sextavado interior, curta**

- sextavado interior
- conforme DIN 7422
- acionamento de quadrado interior conforme DIN 3120 / ISO 1174 com grelha de recolha de esferas
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	■	D mm	L mm	T mm	kg
963.1056	17	47,0	90,0	23,0	0,58
963.1057	19	47,0	90,0	23,0	0,67
963.1058	22	47,0	90,0	23,0	0,71
963.1059	24	47,0	90,0	23,0	0,77
963.1060	27	47,0	90,0	23,0	0,86
963.1061	30	47,0	90,0	23,0	0,91
963.1062	32	47,0	90,0	23,0	0,95
963.1063	36	47,0	90,0	23,0	0,99
963.1064	41	47,0	100,0	23,0	1,20
963.1065	46	47,0	100,0	23,0	1,40

**BRONZEplus Caixa de roquetes**

- sextavado
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)
- em mala de plástico robusta



	■	L mm	kg
963.1066	23 peças	BRONZEplus Caixa de roquetes	33,10
10 x		36 - 41 - 46 - 50 - 55 - 60 - 65 - 70 - 75 - 80 mm	
10 x		1.1/2" - 1.5/8" - 1.7/8" - 2" - 2.1/16" - 2.1/4" - 2.3/8" - 2.9/16" - 2.3/4" - 3"	
2 x		250 - 400 mm	
1 x		550 mm	

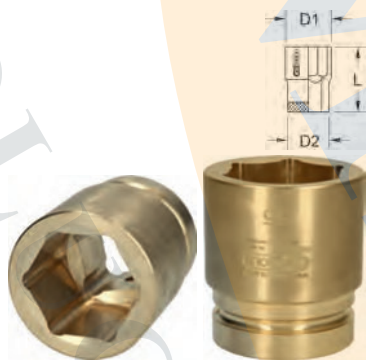
	■	L mm	kg
963.1067	13 peças	BRONZEplus Caixa de roquetes	21,10
10 x		36 - 41 - 46 - 50 - 55 - 60 - 65 - 70 - 75 - 80 mm	
2 x		250 - 400 mm	
1 x		550 mm	



**CHAVE DE CAIXA ANTI-FAISCANTES DE ACIONAMENTO DE 1.1/2"**

**BRONZEplus Extensão para chave de caixa**

- sextavado
- em cumprimento da DIN 3124 / ISO 2725-1
- quadrado interior em cumprimento da DIN 3120 / ISO 1174 com grelha de recolha de esferas
- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)

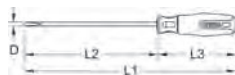


	mm	D1 mm	D2 mm	L mm	g
963.0001	55	81,0	74,0	90,0	2,30
963.0002	60	87,0	74,0	90,0	2,50
963.0003	65	94,0	74,0	95,0	2,85
963.0004	70	99,0	80,0	98,0	3,10
963.0005	75	105,0	80,0	100,0	3,40
963.0006	80	112,0	80,0	105,0	3,80
963.0007	85	118,0	80,0	110,0	4,20
963.0008	90	124,0	90,0	115,0	4,49

**APARAFUSADORAS ANTI-FAISCANTES**

**BERYLLIUMplus Chave de parafusos para parafusos de fenda**

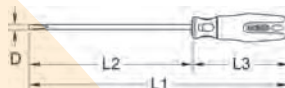
- de fenda
- em cumprimento da DIN ISO 2380-2 / 2380-1 Impresso A
- com furo para pendurar
- com cabo de 2 componentes
- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



	D mm	L1 mm	L2 mm	L3 mm	g
962.0911	3,0	165,0	75,0	90,0	30
962.0307	4,0	152,0	50,0	102,0	35
962.0308	4,0	177,0	75,0	102,0	40
962.0309	4,0	202,0	100,0	102,0	45
962.0912	4,5	200,0	100,0	100,0	30
962.0913	4,5	250,0	150,0	100,0	60
962.0311	5,0	177,0	75,0	102,0	65
962.0312	5,0	202,0	100,0	109,0	70
962.0914	6,0	200,0	100,0	100,0	80
962.0314	6,0	134,0	125,0	109,0	95
962.0915	6,0	250,0	150,0	100,0	90
962.0916	8,0	260,0	150,0	110,0	130
962.0315	8,0	321,0	200,0	121,0	155
962.0316	9,0	371,0	250,0	121,0	175
962.0917	10,0	320,0	200,0	120,0	190
962.0317	10,0	371,0	250,0	121,0	195
962.0918	10,0	420,0	300,0	120,0	230
962.0319	11,0	421,0	300,0	121,0	175
962.0321	11,0	421,0	350,0	121,0	300
962.0322	12,0	521,0	400,0	121,0	430

**BERYLLIUMplus Chave de parafusos para parafusos de fenda, lâmina paralela**

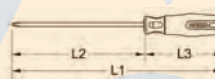
- com lâmina paralela
- de fenda
- com furo para pendurar
- com cabo de 2 componentes
- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



	D mm	L1 mm	L2 mm	L3 mm	g
962.0920	3,0	165,0	75,0	90,0	20
962.0921	4,0	240,0	150,0	100,0	20
962.0922	5,0	250,0	150,0	100,0	30
962.0923	6,0	300,0	200,0	100,0	110
962.0924	6,5	400,0	300,0	100,0	150

**BERYLLIUMplus Chave de parafusos Philips PH**

- PH
- em cumprimento da DIN 5262 / ISO 8764-1
- com furo para pendurar
- com cabo de 2 componentes
- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



		L1 mm	L2 mm	L3 mm	g
962.0900	PH 0	150,0	60,0	90,0	30
962.0011	PH 1	152,0	50,0	102,0	45
962.0901	PH 1	170,0	80,0	90,0	60
962.0012	PH 1	202,0	100,0	102,0	70
962.0902	PH 2	200,0	100,0	100,0	90
962.0013	PH 2	234,0	125,0	109,0	95
962.0014	PH 2	259,0	150,0	109,0	105
962.0903	PH 3	250,0	150,0	100,0	170
962.0015	PH 3	321,0	200,0	121,0	185
962.0016	PH 3	371,0	250,0	121,0	200
962.0904	PH 4	310,0	200,0	110,0	270
962.0017	PH 4	471,0	350,0	121,0	280
962.0018	PH 4	521,0	400,0	121,0	300
962.0019	PH 4	571,0	450,0	121,0	320

**BERYLLIUMplus Kit de chave de parafusos**

- com furo para pendurar
- com cabo de 2 componentes
- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



			g
962.0805	4 peças	BERYLLIUMplus Kit de chave de parafusos	320
4 x		3 (75 mm) - 4,5 (100 mm) - 6 - 8 (150 mm)	

**BERYLLIUMplus Kit de chave de parafusos**

- com furo para pendurar
- com cabo de 2 componentes
- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



			g
962.0808	4 peças	BERYLLIUMplus Kit de chave de parafusos	400
4 x		PH1 - PH2 - PH3 - PH4	

**BERYLLIUMplus Kit de chave de parafusos**

- com furo para pendurar
- com cabo de 2 componentes
- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



			g
962.0806	6 peças	BERYLLIUMplus Kit de chave de parafusos	500
4 x		4,5 - 6 (100 mm) - 6 - 8 (150 mm)	
2 x		PH1 - PH2	

**BERYLLIUMplus Kit de chave de parafusos**

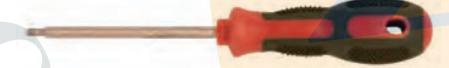
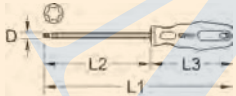
- com furo para pendurar
- com cabo de 2 componentes
- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



			g
962.0807	10 peças	BERYLLIUMplus Kit de chave de parafusos	1,20
6 x		4,5 - 6 (100 mm) - 4,5 - 6 - 8 (150 mm) - 10 (200 mm)	
4 x		PH1 - PH2 - PH3 - PH4	

**BERYLLIUMplus** Chave de parafusos para parafusos Torx

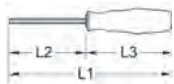
- Torx
- com furo para pendurar
- com cabo de 2 componentes
- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



		L1 mm	L2 mm	L3 mm	g
962.0930	T5	160,0	70,0	90,0	30
962.0931	T6	160,0	70,0	90,0	70
962.0932	T7	160,0	70,0	90,0	70
962.0933	T8	160,0	70,0	90,0	70
962.0934	T9	160,0	70,0	90,0	70
962.0935	T10	170,0	80,0	90,0	80
962.0936	T15	170,0	80,0	90,0	80
962.0937	T20	190,0	90,0	100,0	80
962.0938	T25	190,0	90,0	100,0	100
962.0939	T27	210,0	110,0	100,0	100
962.0940	T30	210,0	110,0	100,0	110
962.0941	T40	220,0	120,0	100,0	120
962.0942	T45	230,0	120,0	110,0	140
962.0943	T50	230,0	120,0	110,0	150

**BRONZEplus** Chave para parafusos sextavados com cabo, direito para parafusos com sextavado interior

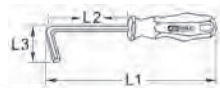
- sextavado
- com furo para pendurar
- com cabo de 2 componentes
- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	mm	L1 mm	L2 mm	L3 mm	g
963.1068	3,0	190,0	100,0	90,0	40
963.1069	4,0	190,0	100,0	90,0	50
963.1070	5,0	200,0	100,0	100,0	60
963.1071	6,0	225,0	125,0	100,0	90
963.1072	8,0	260,0	150,0	110,0	140
963.1073	10,0	260,0	150,0	110,0	210
963.1074	12,0	280,0	150,0	130,0	280

**BRONZEplus** Chave para parafusos sextavados com cabo, angulada para parafusos com sextavado interior

- sextavado
- com furo para pendurar
- com cabo de 2 componentes
- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	mm	L1 mm	L2 mm	L3 mm	g
963.1505	3,0	153,0	75,0	20,0	40
963.1506	4,0	153,0	75,0	25,0	40
963.1507	5,0	180,0	80,0	28,0	50
963.1508	6,0	180,0	80,0	32,0	100
963.1509	8,0	240,0	120,0	36,0	140
963.1510	10,0	240,0	120,0	40,0	220
963.1511	12,0	240,0	120,0	45,0	290

**BERYLLIUMplus** Chave para parafusos sextavados com cabo, direito para parafusos com sextavado interior com cabeça esférica

- sextavado
- com furo para pendurar
- com cabo de 2 componentes
- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



	mm	L1 mm	L2 mm	L3 mm	g
962.0950	3,0	190,0	100,0	90,0	30
962.0951	4,0	190,0	100,0	90,0	50
962.0952	5,0	200,0	100,0	100,0	60
962.0953	6,0	225,0	125,0	100,0	90
962.0954	8,0	260,0	150,0	110,0	140
962.0955	10,0	260,0	150,0	110,0	210
962.0956	12,0	280,0	150,0	130,0	280

**CHAVES ANGULARES ANTI-FAÍSCANTES**

**BRONZEplus** Chave de parafusos angulada para parafusos com sextavado interior, curta

- sextavado
- modelo curto
- em cumprimento da DIN ISO 2936
- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	mm	L1 mm	L2 mm	g
962.04015	1,5	55,0	13,0	0,01
962.0402	2,0	55,0	13,0	0,01
962.04025	2,5	55,0	13,0	0,01
963.1519	3,0	60,0	25,0	0,01
963.1520	4,0	70,0	30,0	0,01
963.1521	5,0	80,0	32,0	0,02
963.1522	6,0	90,0	37,0	0,04
963.1523	7,0	95,0	43,0	0,04
963.1524	8,0	100,0	44,0	0,07
963.1525	9,0	105,0	44,0	0,07
963.1526	10,0	115,0	45,0	0,10
963.1527	11,0	119,0	48,0	0,13
963.1528	12,0	125,0	52,0	0,13
963.1529	13,0	132,0	54,0	0,20
963.1530	14,0	140,0	58,0	0,25
963.1531	17,0	160,0	65,0	0,32
963.1532	18,0	170,0	69,0	0,50
963.1533	19,0	180,0	72,0	0,57
963.1534	22,0	200,0	77,0	0,95
963.1535	24,0	224,0	82,0	1,25
963.1536	27,0	250,0	93,0	1,80
963.1537	30,0	280,0	105,0	2,50
963.1538	32,0	315,0	116,0	3,10
963.1539	36,0	355,0	128,0	4,50
963.1540	41,0	400,0	140,0	5,30
962.0420	3/64"	55,0	13,0	0,01
962.0421	1/16"	55,0	13,0	0,01
962.0422	5/64"	55,0	13,0	0,01
962.0423	3/32"	55,0	13,0	0,01
962.0424	1/8"	60,0	24,0	0,01
962.0425	5/32"	70,0	30,0	0,02

	mm	L1 mm	L2 mm	g
963.1541	3/16"	80,0	31,0	0,02
963.1542	7/32"	80,0	37,0	0,02
963.1543	1/4"	90,0	37,0	0,04
963.1544	5/16"	100,0	44,0	0,07
963.1545	3/8"	120,0	45,0	0,10
963.1546	7/16"	119,0	48,0	0,13
963.1547	1/2"	125,0	55,0	0,18
963.1548	9/16"	140,0	58,0	0,25
963.1549	5/8"	140,0	63,0	0,30
963.1550	11/16"	160,0	65,0	0,32
963.1551	3/4"	180,0	73,0	0,57
963.1552	7/8"	200,0	77,0	0,95
963.1553	1"	224,0	85,0	1,26
963.1554	1.1/16"	216,0	93,0	3,08
963.1555	1.1/8"	230,0	95,0	3,30
963.1556	1.1/4"	230,0	116,0	3,30
963.1557	1.5/16"	235,0	116,0	3,52
963.1558	1.3/8"	235,0	128,0	3,52
963.1559	1.7/16"	241,0	128,0	3,74
963.1560	1.1/2"	241,0	128,0	3,74
963.1561	1.5/8"	241,0	140,0	3,74

**BRONZEplus** Kit de chaves de parafusos anguladas para parafusos com sextavado interior, curtas

- sextavado
- modelo curto
- em cumprimento da DIN ISO 2936
- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	peças	mm	g
963.1512	8	2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	280
963.1513	9	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	280
963.1514	10	1/16" - 5/64" - 3/32" - 1/8" - 5/32" - 3/16" - 7/32" - 1/4" - 5/16" - 3/8"	300

**BRONZEplus** Chave de parafusos angulada para parafusos com sextavado interior, extracomprida

- sextavado
- modelo extracomprido
- em cumprimento da DIN ISO 2936
- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	mm	L1 mm	L2 mm	g
963.1562	3,0	126,0	25,0	100
963.1563	4,0	142,0	30,0	30
963.1564	5,0	160,0	32,0	40
963.1565	6,0	180,0	37,0	30
963.1566	8,0	200,0	44,0	70
963.1567	10,0	205,0	45,0	120
963.1568	12,0	250,0	52,0	190
963.1569	14,0	280,0	58,0	300
963.1570	17,0	320,0	65,0	380
963.1571	19,0	360,0	72,0	490

**BRONZEplus Kit de chaves de parafusos anguladas para parafusos com sextavado interior, extracompridas**

- sextavado
- modelo comprido
- em cumprimento da DIN ISO 2936
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



peças	mm	q
8	2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	400
9	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	480

**BERYLLIUMplus Chave de parafusos angulada para parafusos com sextavado interior, com cabeça esférica, curta**

- sextavado
- modelo curto
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



mm	L1 mm	L2 mm	q
1,5	45,0	13,0	10
2,0	50,0	16,0	10
2,5	55,0	18,0	10
3,0	63,0	20,0	10
4,0	70,0	25,0	10
5,0	80,0	28,0	20
6,0	90,0	32,0	30
7,0	95,0	34,0	40
8,0	100,0	36,0	60
10,0	115,0	40,0	110
12,0	130,0	45,0	210
14,0	140,0	48,0	260

**BERYLLIUMplus Chave de parafusos angulada para parafusos com sextavado interior, com cabeça esférica, extracomprida**

- sextavado
- modelo extracomprido
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



mm	L1 mm	L2 mm	q
3,0	126,0	20,0	10
4,0	140,0	25,0	20
5,0	160,0	28,0	30
6,0	180,0	32,0	50
7,0	190,0	34,0	80
8,0	200,0	36,0	100
10,0	224,0	40,0	180
12,0	250,0	45,0	290
14,0	290,0	48,0	370

**BRONZEplus Kit de chaves de parafusos angulada para parafusos com sextavado interior, com cabeça esférica**

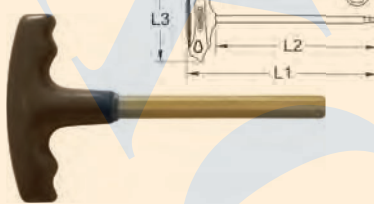
- sextavado
- em cumprimento da DIN ISO 2936
- com cabeça esférica na extremidade maior
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



peças	mm	q
8	2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	250
9	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	260

**BRONZEplus Chave para parafusos sextavados com cabo em T para parafusos com sextavado interior**

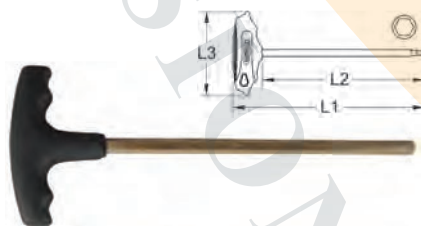
- sextavado
- com cabo de 1 componente
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



mm	L1 mm	L2 mm	L3 mm	q
3,0	143,0	100,0	75,0	20
4,0	143,0	100,0	75,0	30
5,0	155,0	100,0	91,0	40
6,0	155,0	100,0	91,0	40
8,0	155,0	100,0	91,0	60
10,0	155,0	100,0	91,0	80
12,0	155,0	100,0	91,0	160
14,0	155,0	100,0	91,0	200

**BRONZEplus Chave para parafusos sextavados com cabo em T para parafusos com sextavado interior, comprida**

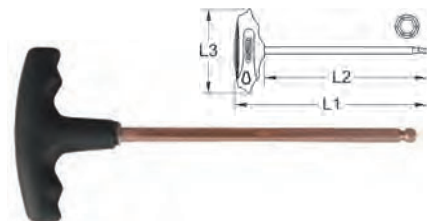
- sextavado
- modelo extracomprido
- com cabo de 1 componente
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



mm	L1 mm	L2 mm	L3 mm	q
3,0	195,0	150,0	75,0	30
4,0	195,0	150,0	75,0	40
5,0	205,0	150,0	91,0	60
6,0	205,0	150,0	91,0	100
8,0	205,0	150,0	91,0	130
10,0	205,0	150,0	91,0	140
12,0	205,0	150,0	91,0	160
14,0	205,0	150,0	91,0	190

**BERYLLIUMplus Chave para parafusos sextavados com cabo em T para parafusos com sextavado interior, com cabeça esférica**

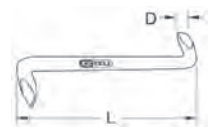
- sextavado
- com cabo de 1 componente
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



mm	L1 mm	L2 mm	L3 mm	q
3,0	145,0	100,0	75,0	40
4,0	145,0	100,0	75,0	40
5,0	205,0	150,0	91,0	650
6,0	205,0	150,0	91,0	90
8,0	205,0	150,0	91,0	120
10,0	255,0	200,0	91,0	230
12,0	255,0	200,0	91,0	300
14,0	255,0	200,0	91,0	380

**BRONZEplus Chave de parafusos angulada**

- de fenda
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



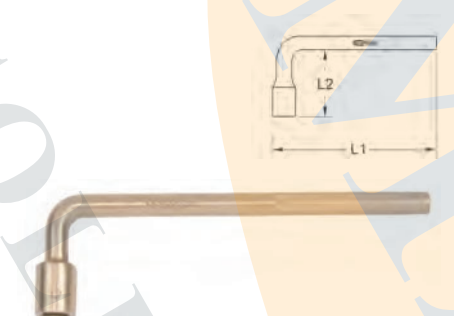
D mm	L mm	q
4,0	125,0	50
6,0	130,0	100
10,0	140,0	90
13,0	190,0	240





### BRONZEplus Chave de parafusos angulada para parafusos de cabeça quadrada

- quadrado
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)

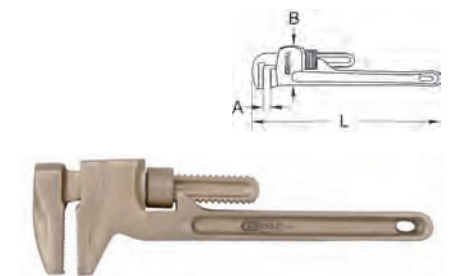


	mm	L1 mm	L2 mm	kg
963.1592	10	200,0	37,0	0,20
963.1593	11	200,0	37,0	0,20
963.1594	12	200,0	42,0	0,20
963.1595	13	200,0	45,0	0,20
963.1596	14	220,0	45,0	0,40
963.1597	15	220,0	48,0	0,40
963.1598	16	220,0	48,0	0,40
963.1599	17	250,0	51,0	0,60
963.1600	18	250,0	53,0	0,60
963.1601	19	250,0	55,0	0,60
963.1602	20	300,0	57,0	1,00
963.1603	21	300,0	57,0	1,00
963.1604	22	300,0	59,0	1,00
963.1605	24	360,0	63,0	1,60
963.1606	25	360,0	63,0	1,60
963.1607	27	360,0	69,0	1,60
963.1608	28	440,0	69,0	3,20
963.1609	30	440,0	75,0	3,20
963.1610	32	440,0	81,0	3,20

### ALICATES ANTI-FAISCANTES

### BRONZEplus Chave inglesa ajustável

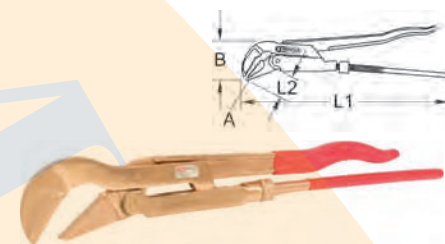
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	A mm	B mm	L mm	kg
963.1705	38,0	50,0	240,0	0,42
963.1706	45,0	50,0	240,0	0,47
963.1707	48,0	53,0	290,0	0,78
963.1708	58,0	64,0	350,0	1,00
963.1709	65,0	64,0	350,0	1,20
963.1710	70,0	75,0	425,0	1,60
963.1711	80,0	80,0	500,0	2,20
963.1712	105,0	90,0	575,0	3,70

### BERYLLIUMplus Alicata para tubos cotovelo

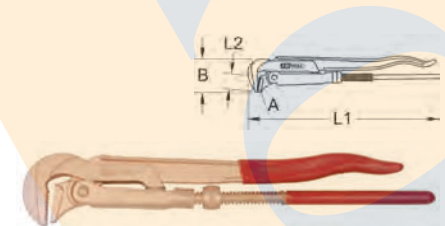
- em cumprimento da DIN 5234
- 45° angulada
- boca em formato de S
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



	A	B mm	L1 mm	L2 mm	kg
962.4005	1"	60,0	200,0	38,0	0,82
962.4006	1.1/2"	70,0	300,0	50,0	1,57
962.4007	2"	72,0	350,0	65,0	3,20
962.4008	3"	100,0	600,0	75,0	4,10
962.4009	4"	122,0	900,0	100,0	6,20

### BERYLLIUMplus Alicata para tubos, modelo sueco

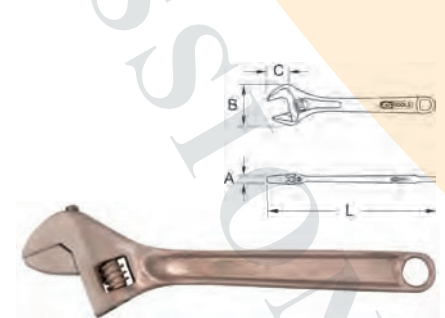
- em cumprimento da DIN 5234
- 90° angulada
- boca em formato de S
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



	A	B mm	L1 mm	L2 mm	kg
962.4015	1.1/2"	80,0	435,0	50,0	1,57
962.4016	2"	95,0	540,0	65,0	3,20

### BERYLLIUMplus Chave de boca simples ajustável

- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



	mm	A mm	B mm	C mm	L mm	kg
962.1108	18	9,0	45,0	18,0	150,0	0,10
962.1109	26	10,0	55,0	20,0	200,0	0,20
962.1110	30	11,0	65,0	30,0	250,0	0,40
962.1111	36	12,0	83,0	34,0	300,0	0,70
962.1112	46	15,0	105,0	47,0	380,0	1,40
962.1113	53	17,0	123,0	51,0	450,0	2,70
962.1114	67	19,0	145,0	62,0	600,0	5,10

### BRONZEplus Chave de corrente para tubos

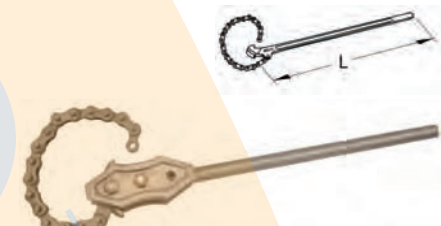
- modo de funcionamento similar a roquete
- modelo ligeiro
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	Ø mm	L mm	kg
963.1713	50	600,0	1,70
963.1714	100	600,0	2,50
963.1715	150	600,0	3,00
963.1716	450	1600,0	8,00

### BRONZEplus Chave de corrente para tubos

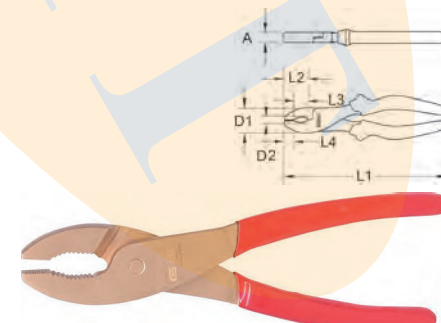
- modo de funcionamento similar a roquete
- modelo americano
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	Ø mm	L mm	kg
963.1717	38	510,0	2,65
963.1718	65	685,0	4,50
963.1719	100	915,0	11,50
963.1720	300	1830,0	30,30

### BERYLLIUMplus Alicata para tubos de gás

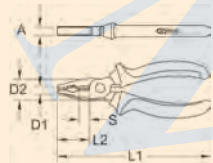
- com cabo com isolamento por imersão
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	L3 mm	L4 mm	kg
962.0607	12,0	30,0	15,0	210,0	40,0	25,0	15,0	370

**BERYLLIUMplus Alicate combinado**

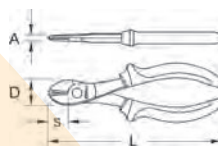
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)
- com cabo de 2 componentes



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	S mm	g
962.0620	10,0	7,0	24,0	160,0	33,0	12,0	350
962.0621	14,0	9,0	29,0	200,0	38,0	16,0	420

**BERYLLIUMplus Alicate de corte lateral especial**

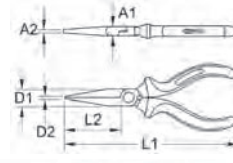
- em cumprimento da DIN ISO 5749
- com cabo de 2 componentes
- para diferentes tipos de arame
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



	A mm	D mm	L mm	S mm	g
962.0617	14,0	30,0	190,0	24,0	290

**BERYLLIUMplus Alicate de pontas chatas**

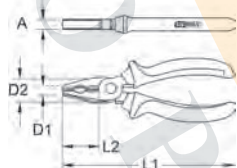
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)
- com cabo de 2 componentes



	A1 mm	A2 mm	D1 mm	D2 mm	L1 mm	L2 mm	S mm	g
962.0630	9,0	2,5	18,0	3,2	160,0	48,0	50	
962.0631	11,0	4,0	21,0	5,0	200,0	85,0	150	

**BERYLLIUMplus Alicate combinado, ajustável**

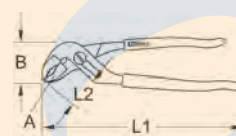
- com cabo de 2 componentes
- ajustável
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	g
962.0623	14,0	9,0	29,0	200,0	38,0	340

**BERYLLIUMplus Alicate para bombas de água**

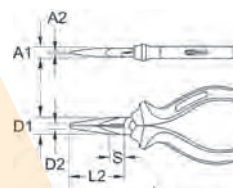
- em cumprimento da DIN ISO 8976
- cabo com isolamento por imersão
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



	A mm	B mm	L1 mm	L2 mm	g
962.0605	30,0	53,0	250,0	33,0	350

**BERYLLIUMplus Alicate para telefones**

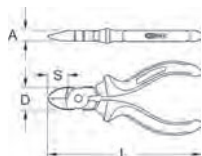
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)
- com cabo de 2 componentes



	A1 mm	A2 mm	D1 mm	D2 mm	L1 mm	L2 mm	S mm	g
962.0610	11,0	3,0	22,0	4,0	180,0	60,0	10,0	300

**BERYLLIUMplus Alicate de corte**

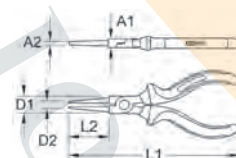
- em cumprimento da DIN ISO 5749
- com cabo de 2 componentes
- para diferentes tipos de arame
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



	A mm	D mm	L mm	S mm	g
962.0616	10,0	23,0	165,0	20,0	200
962.0333	13,0	29,0	200,0	29,0	410

**BERYLLIUMplus Alicate com pontas redondas**

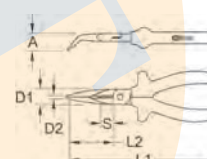
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)
- articulação atravessada
- com cabo de 2 componentes



	A1 mm	A2 mm	D1 mm	D2 mm	L1 mm	L2 mm	g
962.0625	3,0	10,0	20,0	3,0	160,0	36,0	90
962.0626	5,0	12,0	25,0	4,0	200,0	54,0	160

**BERYLLIUMplus Alicate para telefones, angulado**

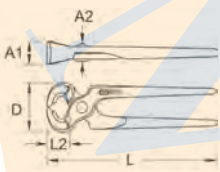
- pontas com ângulo de 45°
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)
- cabo com isolamento por imersão



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	S mm	g
962.0612	9,0	20,0	4,0	180,0	50,0	9,0	290

**BERYLLIUMplus Turquês**

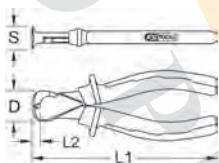
- com cabo com isolamento por imersão
- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



	A1 mm	A2 mm	D mm	L1 mm	L2 mm	kg
962.0640	16,0	14,0	43,0	175,0	19,0	430
962.0641	20,0	18,0	53,0	200,0	23,0	520

**BERYLLIUMplus Alicate de corte frontal**

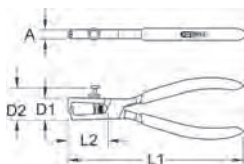
- modelo forte
- com cabo com isolamento por imersão
- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



	D mm	L1 mm	L2 mm	S mm	kg
962.0615	30,0	175,0	9,0	28	260

**BERYLLIUMplus Alicate de descarnar**

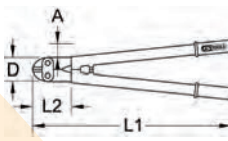
- com mola e parafuso de travamento
- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



	A mm	D1 mm	D2 mm	L1 mm	L2 mm	kg
962.0635	10,0	25,0	28,0	170,0	40,0	260

**BERYLLIUMplus Corta cavilhas**

- com cabo com isolamento por imersão
- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



	A mm	D mm	L1 mm	L2 mm	kg
962.0619	62,0	78,0	620,0	140,0	3,40

**BRONZEplus Garra de torno anti-faíscante**

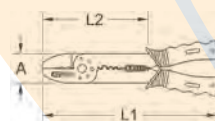
- mordentes de fixação forjados
- modelo dentado
- Ajuste do tamanho com a roda de ajuste
- com patilha de libertação
- com encaixe de fixação
- para material redondo e plano
- para segurar nos trabalhos de soldadura
- sem alargar mesmo com cargas mais fortes
- Patilha de libertação sob pressão constante de uma mola
- muito resistente à quebra
- alumínio-bronze (liga não ferrosa)



	A mm	L mm	S mm	kg
963.0331	16,0	254,0	42,0	700

**BERYLLIUMplus Alicate de crimpagem**

- com cabo com isolamento por imersão
- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



	L1 mm	L2 mm	A mm	kg
962.0636	200,0	120,0	40,0	120



**BERYLLIUMplus Kit de alicates**

- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



	4 peças	BERYLLIUMplus Kit de alicates	kg
962.0650			1,50
1 x		200 mm	
1 x		165 mm	
1 x		180 mm	
1 x		250 mm	

**PIÇAS ANTI-FAÍSCANTES**

**BRONZEplus Pinça**

- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	kg
963.5604	100,0	100

**BRONZEplus Pinça de bico**

- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	kg
963.5605	150,0	30



**BRONZEplus Pinça contundente**

- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	g
963.5606	100,0	30

**BROCAS ANTI-FAISCANTES**

**BERYLLIUMplus Broca helicoidal**

- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



	D mm	L1 mm	L2 mm	Conteúdo	g
962.9606	6,0	100,0	60,0	1	20
962.9607	7,0	120,0	70,0	1	30
962.9608	8,0	140,0	80,0	1	50
962.9609	9,0	160,0	100,0	1	70
962.9610	10,0	180,0	120,0	1	100
962.9611	11,0	200,0	130,0	1	120
962.9612	12,0	220,0	150,0	1	170
962.9613	13,0	240,0	160,0	1	220
962.9614	14,0	260,0	180,0	1	280
962.9615	15,0	280,0	200,0	1	360
962.9616	16,0	300,0	220,0	1	440
962.9617	17,0	300,0	220,0	1	500
962.9618	18,0	320,0	230,0	1	600
962.9619	19,0	320,0	230,0	1	700
962.9620	20,0	330,0	240,0	1	800

**BERYLLIUMplus Kit de brocas espirais**

- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)
- em mala de plástico robusta

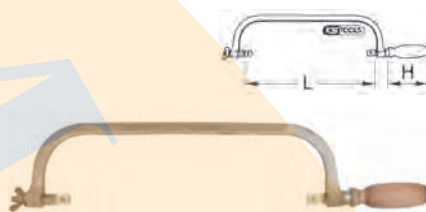


	15 peças	6-7-8-9-10-11-12-13-14-15-16-17-18-19-20mm	4,00
962.9630			

**SERRAS ANTI-FAISCANTES**

**BRONZEplus Serra de caixilho**

- para comprimentos da lâmina de serra de 300 mm
- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	H mm	g
963.5108	300	200	0,90

**BERYLLIUMplus Lâmina de serra para serra de caixilho**

- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



	L2 mm	L3 mm	B mm	D mm	g
962.9034	300,0	1,0-1,3	12,0	0,6	30

**BERYLLIUMplus Serra manual**

- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



	L mm	H mm	g
962.9035	370,0	90,0	500

**BERYLLIUMplus Serra manual/serrote**

- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



	L mm	H mm	g
962.9036	700,0	120,0	770

**ESCOVAS ANTI-FAISCANTES**

**BRONZEplus Escova arame em bronze estanhado, ondulado**

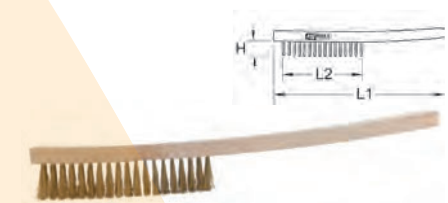
- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	B mm	g
963.9580	125,0	55,0	300

**BRONZEplus Escova de arame em bronze estanhado, ondulado**

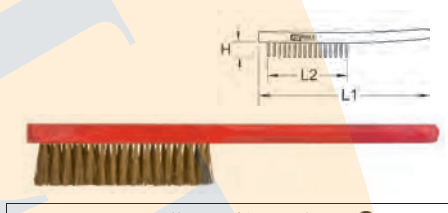
- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	Número sequencial	H mm	L1 mm	L2 mm	g
963.9581	3	30,0	350,0	120,0	190
963.9582	4	30,0	350,0	120,0	210
963.9583	5	30,0	350,0	120,0	190

**BRONZEplus Escova de mão arame em bronze estanhado, ondulado**

- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	Número sequencial	H mm	L1 mm	L2 mm	g
963.9584	3	30,0	290,0	120,0	110
963.9585	4	30,0	290,0	120,0	130
963.9586	5	30,0	290,0	120,0	150

**BRONZEplus Vassoura de mão arame em bronze estanhado, ondulado**

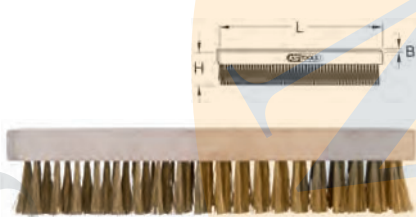
- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L1 mm	L2 mm	g
963.9587	310,0	150,0	320

**BRONZEplus Escova de mão**

- fornecimento sem cabo
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	B mm	H mm	g
963.9590	245,0	60,0	50,0	480

**BRONZEplus Vassoura escova redonda, lisa**

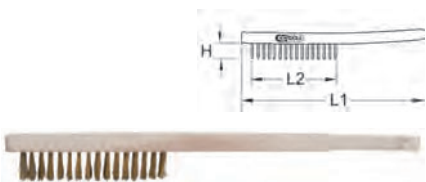
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	B mm	H mm	g
963.9591	240,0	60,0	65,0	0,40

**BRONZEplus Escova de velas de ignição em arame redondo, lisa**

- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	H mm	L1 mm	L2 mm	g
963.9593	15,0	225,0	80,0	40

**BRONZEplus Escova para cilindros, de arame, ondulado**

- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	g
963.9594	300,0	40

**BRONZEplus Escova pincel de arame, ondulado**

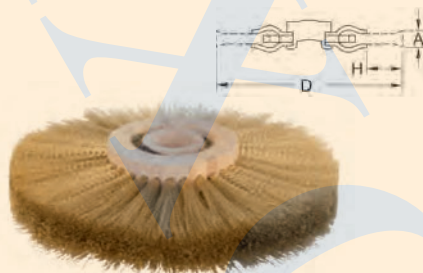
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	D1 mm	D2 mm	H mm	L mm	g
963.9595	26,0	6,0	30,0	80,0	640

**BRONZEplus Escova redonda, arame em bronze estanhado, ondulado**

- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	A mm	D mm	H mm	g
963.9596	45,0	150,0	20,0	520

**BRONZEplus Escova tipo copo, arame em bronze estanhado, ondulado**

- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



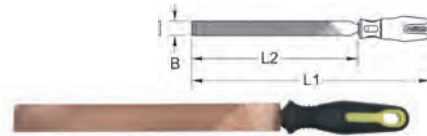
	D mm	H mm	L mm	g
963.9597	85,0	20,0	35,0	700



**LIMAS ANTI-FAISCENTES**

**BERYLLIUMplus Lima plana**

- em cumprimento da DIN 7261 Forma A
- com cabo de 2 componentes
- com furo para pendurar
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



	B mm	L1 mm	L2 mm	g	
962.7301	1	25,0	360,0	245,0	330
962.7302	3	25,0	360,0	245,0	330

**BERYLLIUMplus Lima de meia cana**

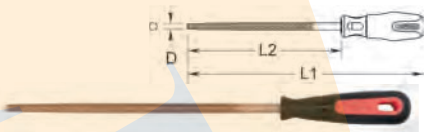
- em cumprimento da DIN 7261 Forma E
- com cabo de 2 componentes
- com furo para pendurar
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



	B mm	L1 mm	L2 mm	g	
962.7101	1	22,0	365,0	250,0	340
962.7102	3	22,0	365,0	250,0	340

**BERYLLIUMplus Lima redonda**

- em cumprimento da DIN 7261 Forma F
- com cabo de 2 componentes
- com furo para pendurar
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)

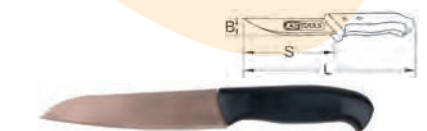


	D mm	L1 mm	L2 mm	g	
962.7201	1	8,0	360,0	250,0	180
962.7202	3	8,0	360,0	250,0	180

**FACAS ANTI-FAISCENTES**

**BERYLLIUMplus Faca**

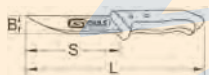
- lâmina robusta e fixa
- com cabo em plástico
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



	B mm	L mm	S mm	g
962.9030	30,0	180,0	80	60

**BRONZEplus Faca**

- lâmina robusta e fixa
- com cabo em madeira
- modelo reforçado
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)

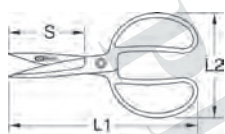


	B mm	L mm	S mm	g
963.9510	30,0	300,0	200	300

**TESOURAS ANTI-FAISCANTES**

**BERYLLIUMplus Tesoura para chapa**

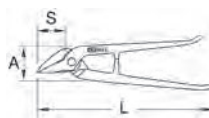
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



	L1 mm	L2 mm	S mm	g
962.9015	300,0	120,0	70,0	450

**BERYLLIUMplus Tesoura para metal**

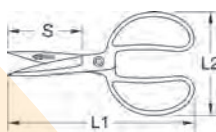
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



	A mm	L mm	S mm	g
962.9016	35,0	280,0	50	520

**BERYLLIUMplus Tesoura multiusos**

- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



	L1 mm	L2 mm	S mm	g
962.9017	210,0	110,0	80,0	300

**BERYLLIUMplus Tesoura de trabalho**

- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



	L1 mm	L2 mm	S mm	g
962.9018	220,0	90,0	100	450

**BERYLLIUMplus Corta-sebes**

- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



	L mm	S mm	g
962.9033	520,0	300	1,40

**FERRAMENTAS DE TRAÇÃO E CORTE ANTI-FAISCANTES**

**BRONZEplus Foice**

- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L1 mm	L2 mm	B mm	g
963.9651	380,0	220,0	200,0	800

**BRONZEplus Faca de puxar a duas mãos**

- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	A mm	g
963.5705	650,0	250,0	1,50

**RASPADORES ANTI-FAISCANTES**

**BRONZEplus Raspador angulado**

- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	B mm	g
963.9520	200,0	22,0	210
963.9521	255,0	40,0	480
963.9522	300,0	50,0	570

**BRONZEplus Raspador angulado com cabo**

- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)

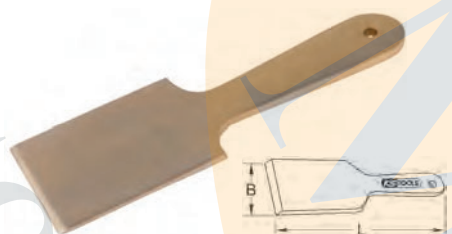


	L1 mm	L2 mm	B mm	g
963.9523	380,0	280,0	38,0	780



**BRONZEplus Raspador para cabina de pintura**

- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	B mm	G kg
963.9530	235,0	75,0	450

**BRONZEplus Raspador plano**

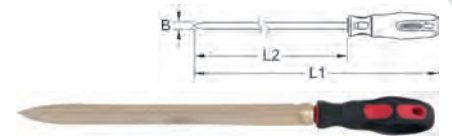
- em cumprimento da DIN 8350 Forma A
- áreas de trabalho afagadas
- com cabo de 2 componentes
- com furo para pendurar
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	B mm	D mm	L1 mm	L2 mm	G kg
963.9531	37,0	6,0	315,0	205,0	290

**BRONZEplus Raspador triangular**

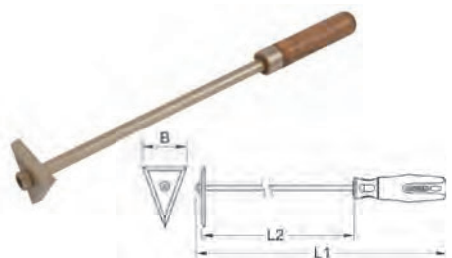
- em cumprimento da DIN 8350 Forma C
- áreas de trabalho afagadas
- com cabo de 2 componentes
- com furo para pendurar
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	B mm	L1 mm	L2 mm	G kg
963.9532	16,0	365,0	255,0	220

**BRONZEplus Raspador de placas triangular**

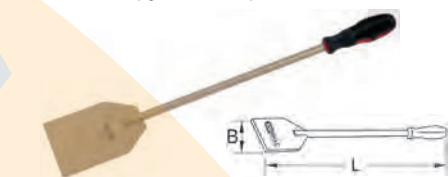
- em cumprimento da DIN 8350 Forma C
- áreas de trabalho afagadas
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L1 mm	L2 mm	B mm	G kg
963.9533	420,0	100,0	70,0	650

**BRONZEplus Raspador com cabo**

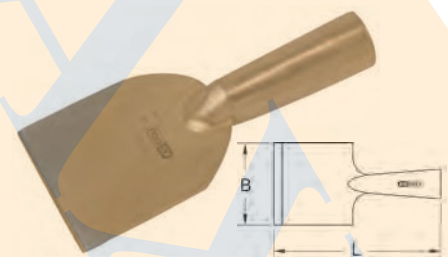
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	B mm	G kg
963.9534	480,0	95,0	620

**BRONZEplus Raspador**

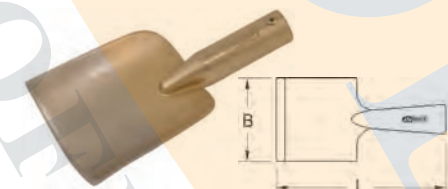
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	B mm	G kg
963.9535	220,0	75,0	0,58
963.9536	220,0	100,0	0,83
963.9537	220,0	125,0	0,88
963.9538	220,0	150,0	1,02

**BRONZEplus Raspador côncavo**

- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)

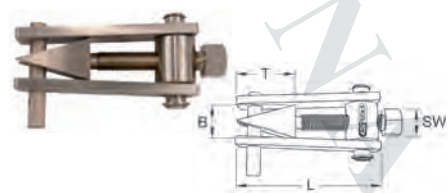


	L mm	B mm	G kg
963.9539	240,0	100,0	0,90
963.9540	240,0	150,0	1,35

**ABRE-FLANGES ANTI-FAÍSCANTES**

**BRONZEplus Abre-flanges**

- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)

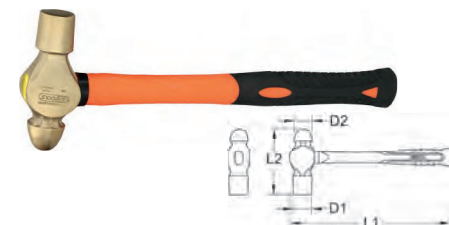


	G mm	L mm	B mm	T mm	G kg
963.5607	46	300,0	60,0	55,0	7,20

**MARTELOS ANTI-FAÍSCANTES**

**BRONZEplus Martelo de serralheiro**

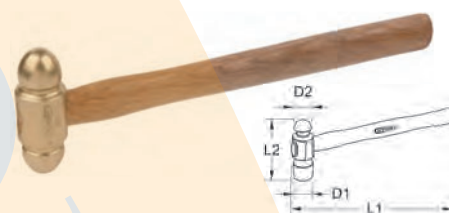
- com cabo em fibra de vidro
- forma inglesa
- base polida
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	G g	D1 mm	D2 mm	L1 mm	L2 mm	G kg
963.0323	200	23,0	23,0	270,0	80,0	0,23
963.0324	300	26,0	26,0	285,0	90,0	0,34
963.0325	350	29,0	28,0	310,0	101,0	0,45
963.0326	600	34,0	37,0	345,0	116,0	0,68
963.0327	750	38,0	34,0	355,0	127,0	0,91
963.0328	950	40,0	38,0	355,0	137,0	1,13
963.0329	1100	42,0	41,0	405,0	147,0	1,35

**BRONZEplus Martelo de serralheiro**

- com cabo em nogueira
- formato americano
- base polida
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	G g	D1 mm	D2 mm	L1 mm	L2 mm	G kg
963.2105	100	20,0	17,0	310,0	50,0	0,25
963.2106	150	24,0	20,0	310,0	55,0	0,30
963.2107	200	25,0	21,0	310,0	60,0	0,35
963.2108	300	30,0	25,0	310,0	65,0	0,45
963.2109	400	34,0	18,0	340,0	70,0	0,60
963.2110	500	36,0	30,0	340,0	75,0	0,66
963.2111	600	38,0	32,0	340,0	80,0	0,76
963.2112	700	40,0	34,0	340,0	85,0	0,86
963.2113	800	42,0	36,0	380,0	90,0	0,97
963.2114	900	44,0	38,0	380,0	95,0	1,06
963.2115	1000	45,0	40,0	380,0	100,0	1,17
963.2116	1300	50,0	42,0	400,0	110,0	1,47
963.2117	1500	52,0	44,0	400,0	120,0	1,67
963.2118	2000	54,0	46,0	400,0	130,0	2,20

**BRONZEplus Martelo de serralheiro**

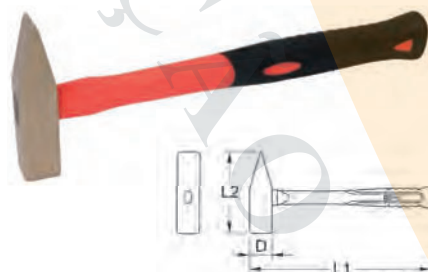
- em cumprimento da DIN 1041
- com cabo em nogueira
- base e ponta afagadas
- arestas arredondadas
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	g	D mm	L1 mm	L2 mm	kg
963.2005	100	15,0	260,0	82,0	0,17
963.2006	150	16,0	260,0	87,0	0,22
963.2007	200	19,0	280,0	95,0	0,27
963.2008	300	23,0	280,0	105,0	0,37
963.2009	400	25,0	310,0	112,0	0,47
963.2010	500	27,0	310,0	115,0	0,50
963.2011	600	29,0	310,0	120,0	0,72
963.2012	700	30,0	340,0	125,0	0,82
963.2013	800	33,0	340,0	128,0	0,93
963.2014	900	34,0	360,0	133,0	1,05
963.2015	1000	35,0	360,0	136,0	1,15
963.2016	1250	40,0	380,0	140,0	1,40
963.2017	1500	42,0	400,0	145,0	1,70
963.2018	2000	45,0	400,0	155,0	2,30

**BRONZEplus Martelo de serralheiro**

- em cumprimento da DIN 1041
- com cabo em fibra de vidro
- base e ponta afagadas
- arestas arredondadas
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	g	D mm	L1 mm	L2 mm	kg
963.2019	300	23,0	310,0	105,0	0,37
963.2020	400	25,0	310,0	112,0	0,47
963.2021	500	27,0	310,0	115,0	0,60
963.2022	800	33,0	340,0	130,0	0,90
963.2023	1000	35,0	340,0	135,0	1,13
963.2024	1500	42,0	400,0	145,0	1,70
963.2025	2000	45,0	400,0	155,0	2,40

**BRONZEplus Marreta**

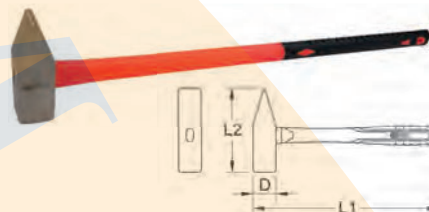
- em cumprimento da DIN 1042
- com cabo em nogueira
- base e ponta afagadas
- arestas arredondadas
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	g	D mm	L1 mm	L2 mm	kg
963.2030	2500	50,0	900,0	165,0	3,00
963.2031	3000	55,0	900,0	175,0	3,70
963.2032	4000	60,0	900,0	180,0	4,80
963.2033	5000	68,0	900,0	185,0	5,80
963.2034	6000	74,0	900,0	190,0	6,80
963.2035	8000	78,0	900,0	195,0	8,90
963.2036	9000	82,0	900,0	200,0	9,90
963.2037	10000	85,0	900,0	210,0	10,90
963.2038	12000	90,0	900,0	220,0	13,00
963.2039	15000	100,0	900,0	230,0	16,00

**BRONZEplus Marreta**

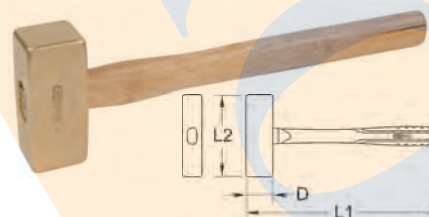
- em cumprimento da DIN 1041
- com cabo em fibra de vidro
- base e ponta afagadas
- arestas arredondadas
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	g	D mm	L1 mm	L2 mm	kg
963.2040	3000	55,0	900,0	175,0	4,05
963.2041	4000	60,0	900,0	180,0	5,10
963.2042	5000	68,0	900,0	185,0	6,10
963.2043	8000	78,0	900,0	195,0	9,10
963.2044	10000	85,0	900,0	210,0	11,15

**BRONZEplus Martelo**

- em cumprimento da DIN 6475
- com cabo em nogueira
- bases polidas
- arestas arredondadas
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)

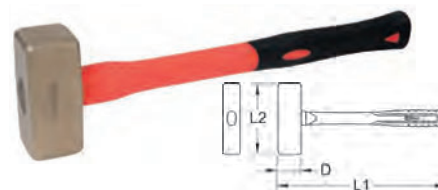


	g	D mm	L1 mm	L2 mm	kg
963.2050	1000	40,0	400,0	95,0	1,17
963.2051	1250	40,0	400,0	115,0	1,40
963.2052	1500	45,0	400,0	115,0	1,70
963.2053	2000	50,0	400,0	115,0	2,20
963.2054	2500	55,0	400,0	130,0	2,70
963.2055	3000	55,0	900,0	145,0	3,70
963.2056	4000	60,0	900,0	150,0	4,70
963.2057	5000	65,0	900,0	170,0	5,70
963.2058	6000	70,0	900,0	170,0	6,80
963.2059	8000	75,0	900,0	190,0	8,80
963.2060	10000	80,0	900,0	210,0	10,90



**BRONZEplus Martelo**

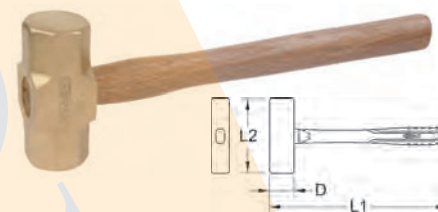
- em cumprimento da DIN 6475
- com cabo em fibra de vidro
- bases polidas
- arestas arredondadas
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	g	D mm	L1 mm	L2 mm	kg
963.2061	1000	40,0	400,0	105,0	1,30
963.2062	1250	42,0	400,0	110,0	1,60
963.2063	1500	44,0	400,0	115,0	1,90
963.2064	2000	48,0	400,0	130,0	2,40
963.2065	2500	52,0	400,0	150,0	2,90
963.2066	3000	54,0	900,0	155,0	4,00
963.2067	4000	58,0	900,0	160,0	5,10
963.2068	5000	64,0	900,0	165,0	6,10
963.2069	6000	67,0	900,0	175,0	7,10
963.2070	8000	75,0	900,0	190,0	9,10
963.2071	10000	78,0	900,0	205,0	10,10

**BRONZEplus Martelo de mineiro**

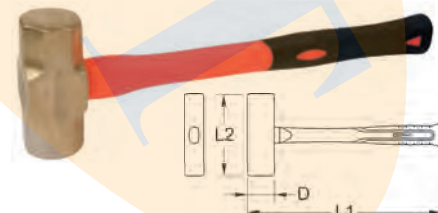
- em cumprimento da DIN 6475
- com cabo em nogueira
- bases polidas
- arestas arredondadas
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	g	D mm	L1 mm	L2 mm	kg
963.2080	1000	40,0	350,0	115,0	1,40
963.2081	1500	44,0	400,0	118,0	1,95
963.2082	2500	55,0	400,0	150,0	3,00
963.2083	3500	58,0	900,0	160,0	4,20
963.2084	5000	65,0	900,0	175,0	5,75
963.2085	8000	80,0	900,0	200,0	8,75

**BRONZEplus Martelo de mineiro**

- em cumprimento da DIN 6475
- com cabo em fibra de vidro
- bases polidas
- arestas arredondadas
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)

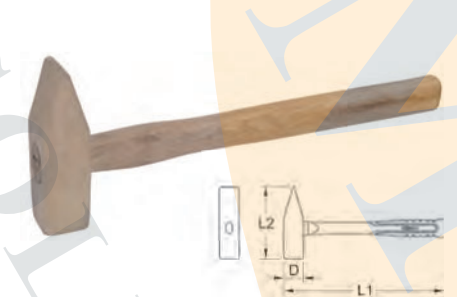


	g	D mm	L1 mm	L2 mm	kg
963.2086	1000	40,0	350,0	115,0	1,50
963.2087	1500	44,0	400,0	118,0	2,05
963.2088	2500	55,0	400,0	150,0	3,10
963.2089	3500	58,0	900,0	160,0	4,60
963.2090	5000	65,0	900,0	175,0	6,10
963.2091	8000	80,0	900,0	200,0	8,10

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### BRONZEplus Maço de pedreiro

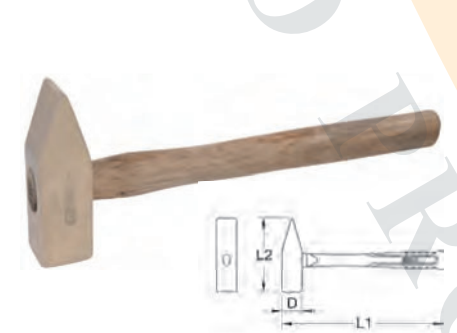
- em cumprimento da DIN 1041
- com cabo em nogueira
- formato americano
- base polida
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	g	D mm	L1 mm	L2 mm	kg
963.2120	700	30,0	310,0	115,0	0,90
963.2121	1200	40,0	400,0	135,0	1,40
963.2122	1600	40,0	400,0	140,0	1,85

### BRONZEplus Marreta de mineiro

- em cumprimento da DIN 1041
- com cabo em nogueira
- base e ponta afagadas
- arestas arredondadas
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	g	D mm	L1 mm	L2 mm	kg
963.2125	1500	42,0	395,0	145,0	1,70

### BRONZEplus Perfurador/punção

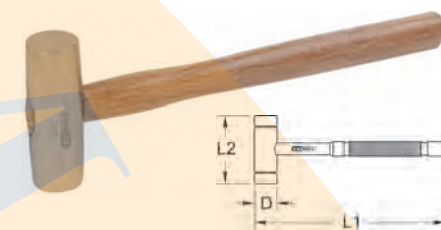
- com cabo em nogueira
- base e ponta afagadas
- arestas arredondadas
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	g	D mm	L1 mm	L2 mm	kg
963.2130	1000	32,0	400,0	140,0	1,15
963.2131	2000	45,0	600,0	160,0	2,15
963.2132	3000	50,0	900,0	180,0	3,80
963.2133	5000	60,0	900,0	220,0	5,80

### BRONZEplus Martelo de maquinista

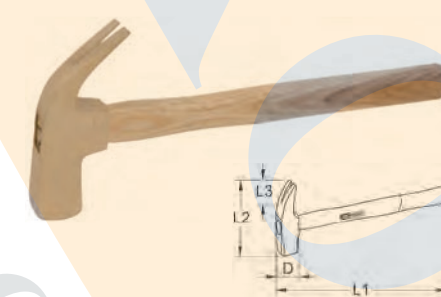
- com cabo em nogueira
- formato americano
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	g	D mm	L1 mm	L2 mm	kg
963.2140	100	20,0	310,0	50,0	0,24
963.2141	300	28,0	310,0	65,0	0,44
963.2142	500	32,0	310,0	80,0	0,64
963.2143	600	33,0	340,0	90,0	0,74
963.2144	800	36,0	340,0	100,0	0,95
963.2145	900	37,0	380,0	110,0	1,10
963.2146	1100	38,0	380,0	120,0	1,25

### BRONZEplus Martelo de orelhas

- com cabo em nogueira
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	g	D mm	L1 mm	L2 mm	L3 mm	kg
963.2150	300	24,0	310,0	110,0	25,0	440
963.2151	400	29,0	340,0	120,0	30,0	540
963.2152	500	32,0	340,0	125,0	30,0	640
963.2153	600	35,0	340,0	135,0	30,0	740

### BRONZEplus Martelo de pedreiro

- em cumprimento da DIN 5108
- com cabo em nogueira
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	g	D mm	L1 mm	L2 mm	S mm	kg
963.2160	600	27,0	310,0	120,0	40,0	0,70
963.2161	800	35,0	310,0	135,0	45,0	0,90
963.2162	1000	40,0	400,0	145,0	48,0	1,15

### BRONZEplus Martelo de pedreiro

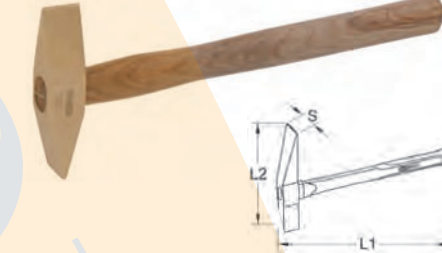
- com cabo em nogueira
- formato americano
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	g	D mm	L1 mm	L2 mm	S mm	kg
963.2163	700	22,0	360,0	170,0	34,0	840

### BRONZEplus Martelo para remoção de calcário/ferrugem

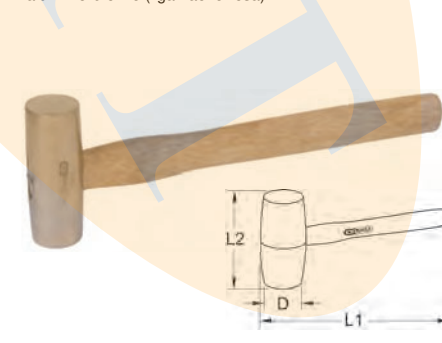
- com cabo em nogueira
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	g	L1 mm	L2 mm	S mm	kg
963.2170	200	280,0	115,0	19,0	0,25
963.2171	400	310,0	125,0	27,0	0,50
963.2172	500	310,0	140,0	30,0	0,62
963.2173	600	310,0	145,0	32,0	0,75
963.2174	800	340,0	150,0	35,0	0,95
963.2175	900	340,0	155,0	38,0	1,10
963.2176	1400	380,0	160,0	45,0	1,60

### BRONZEplus Maceta

- com cabo em nogueira
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)

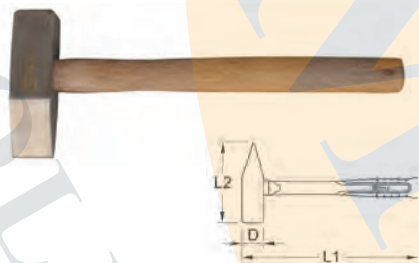


	g	D mm	L1 mm	L2 mm	kg
963.2180	900	45,0	380,0	75,0	1,10
963.2181	1800	60,0	380,0	85,0	2,00
963.2182	2700	70,0	790,0	90,0	3,00



**BRONZEplus Escopro de ferro**

- com cabo em noqueira
- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	g	D mm	L1 mm	L2 mm	kg
963.2595	1300	40,0	400,0	140,0	1,53
963.2596	2100	45,0	400,0	155,0	2,62

**BRONZEplus Punção passador**

- com cabo em noqueira
- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	g	D mm	L1 mm	L2 mm	kg
963.2405	800	8,0	340,0	140,0	0,95
963.2406	800	10,0	340,0	140,0	0,95
963.2407	1200	12,0	380,0	160,0	1,40
963.2408	1200	16,0	380,0	160,0	1,40

**BRONZEplus Freio para martelo**

- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



		kg
963.5602	até 2 kg	80
963.5603	2 - 6 kg	140

**MACHADINHAS ANTI-FAISCANTES**

**BRONZEplus Sacho**

- com cabo em faia
- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	S mm	L mm	kg
963.9605	120,0	950,0	2,30

**BRONZEplus Machadinha**

- com cabo em noqueira
- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	D mm	L1 mm	L2 mm	L3 mm	kg
963.9606	50,0	480,0	155,0	110,0	1,45
963.9607	70,0	610,0	185,0	110,0	1,50

**BRONZEplus Machado**

- com cabo em noqueira
- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	D mm	L1 mm	L2 mm	L3 mm	kg
963.9608	60,0	750,0	185,0	130,0	1,60
963.9609	60,0	900,0	185,0	130,0	2,20

**BRONZEplus Machado de bombeiro**

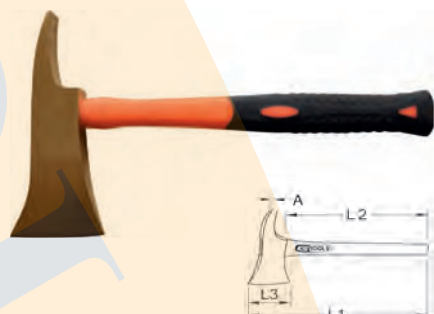
- em cumprimento da DIN 14900
- com cabo em noqueira
- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L1 mm	L2 mm	L3 mm	kg
963.9610	800,0	240,0	100,0	2,60

**BERYLLIUMplus Machadinha de bombeiro**

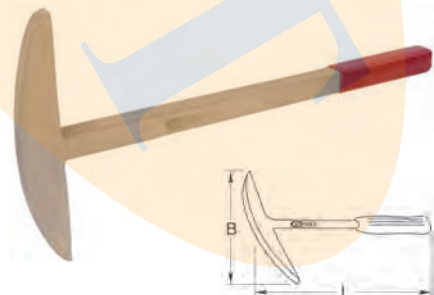
- com cabo em fibra de vidro
- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



	A mm	L1 mm	L2 mm	L3 mm	kg
962.9032	27,0	400,0	200,0	85,0	900

**BRONZEplus Picareta de mão**

- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



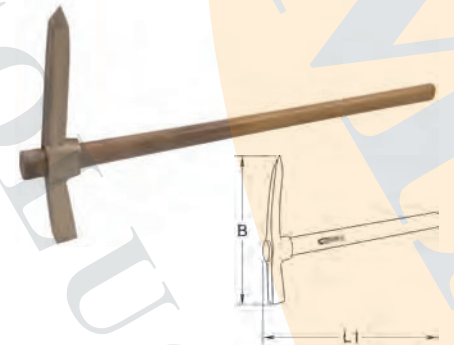
	L mm	B mm	kg
963.9611	420,0	220,0	2,15

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**GANCHOS ANTI-FAISCANTES**

**BRONZEplus Picareta**

- sem cabo
- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	B mm	kg
963.9612	890,0	400,0	2,20

**BRONZEplus Arpão de bombeiro**

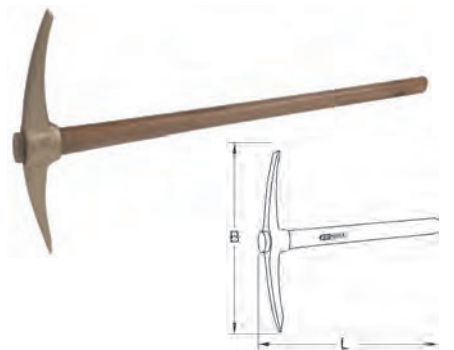
- em cumprimento da DIN 14851
- sem cabo
- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	Largura em mm	kg
963.9613	380,0	176,0	1,80

**BRONZEplus Picareta**

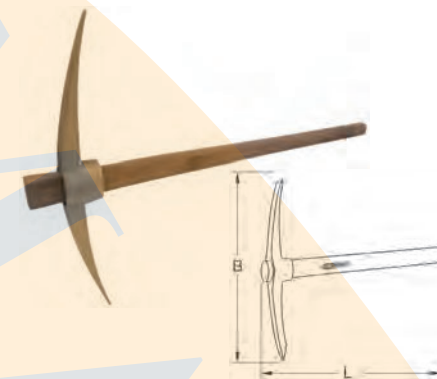
- em cumprimento da DIN 20109
- com cabo em faixa
- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	B mm	kg
963.9620	800,0	400,0	2,15
963.9621	950,0	500,0	3,50
963.9622	950,0	550,0	4,00

**BRONZEplus Picareta**

- com cabo em faixa
- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)

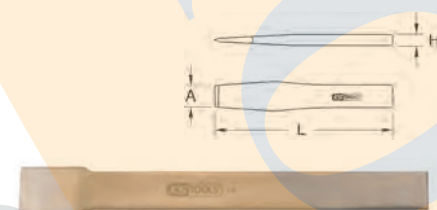


	L mm	B mm	kg
963.9623	950,0	650,0	4,10

**ESCOPROS ANTI-FAISCANTES**

**BRONZEplus Cinzel plano**

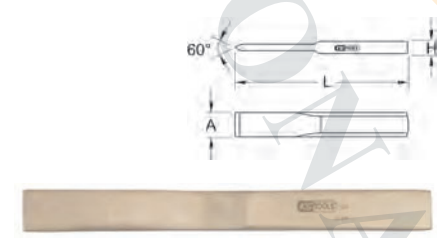
- em cumprimento da DIN 6453
- em formato plano oval
- gumes sem rebarbas
- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	A mm	H mm	kg
963.2415	150,0	20,0	8,0	200
963.2416	200,0	25,0	8,0	320
963.2417	250,0	25,0	10,0	550
963.2418	300,0	25,0	10,0	560
963.2419	400,0	30,0	12,0	630
963.2420	450,0	30,0	12,0	750
963.2421	500,0	30,0	12,0	920

**BRONZEplus Cinzel para ranhuras**

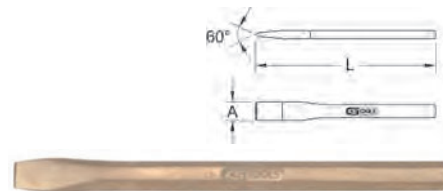
- em formato plano oval
- gumes sem rebarbas
- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	A mm	H mm	kg
963.2430	200,0	25,0	5,0	360
963.2431	250,0	25,0	5,0	460
963.2432	300,0	25,0	5,0	550

**BRONZEplus Escopro de pedreiro**

- em cumprimento da DIN 7254
- gumes sem rebarbas
- sextavado
- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)

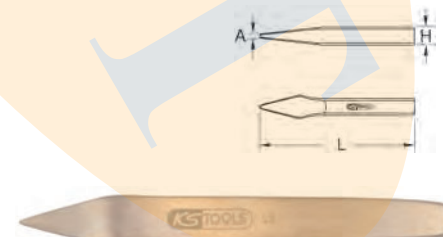


	L mm	A mm	kg
963.2440	200,0	6,0	0,15
963.2441	150,0	8,0	0,04
963.2442	150,0	10,0	0,12
963.2443	150,0	14,0	0,20
963.2444	200,0	14,0	0,25
963.2445	250,0	14,0	0,30
963.2446	300,0	14,0	0,40
963.2447	150,0	17,0	0,30
963.2448	250,0	17,0	0,45
963.2449	300,0	17,0	0,55
963.2450	200,0	19,0	0,50
963.2451	250,0	19,0	0,60
963.2452	350,0	19,0	0,85
963.2453	400,0	19,0	1,00
963.2454	250,0	22,0	0,85
963.2455	300,0	22,0	1,00
963.2456	500,0	22,0	1,60
963.2457	600,0	22,0	2,00
963.2458	250,0	27,0	0,58
963.2459	300,0	32,0	0,85



**BRONZEplus Escopro transversal**

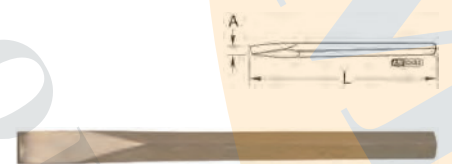
- em cumprimento da DIN 6451
- em formato plano oval
- gume sem rebarbas
- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	A mm	H mm	kg
963.2470	150,0	8,0	18,0	250
963.2471	200,0	8,0	20,0	340
963.2472	250,0	8,0	22,0	480
963.2473	300,0	10,0	25,0	640

**BRONZEplus Escopro transversal**

- em cumprimento da DIN 6451
- sextavado
- gume sem rebarbas
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	A mm	Ø	kg
963.2480	200,0	14,0	270	
963.2481	250,0	14,0	330	
963.2482	300,0	17,0	550	
963.2483	400,0	19,0	960	

**BRONZEplus Cinzel ponteiro**

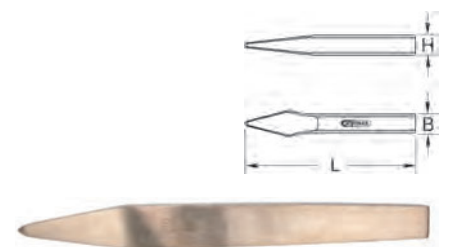
- em cumprimento da DIN 6451
- sextavado
- gume sem rebarbas
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	S mm	Ø	kg
963.2490	200,0	14,0	270	
963.2491	250,0	14,0	330	
963.2492	300,0	17,0	550	
963.2493	400,0	19,0	960	

**BRONZEplus Escopro de betão**

- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)

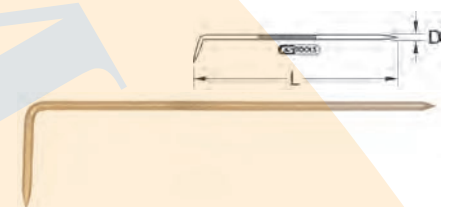


	L mm	H mm	B mm	Ø	kg
963.2505	380,0	33,0	33,0	5,00	

**PUNÇÕES PARA CAVILHAS E PASSADORES ANTI-FAÍSCANTES**

**BRONZEplus Riscador**

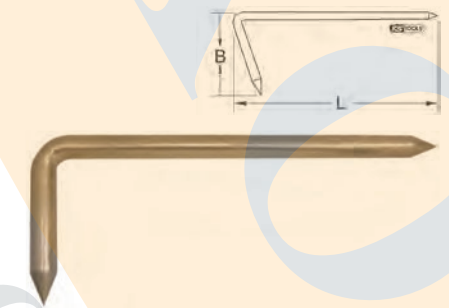
- para marcar peças de trabalho
- ponta direita e curvada em 70°
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	Ø mm	kg
963.2510	190,0	4,0	50
963.2511	225,0	6,0	50

**BRONZEplus Punção angulado**

- para marcar peças de trabalho
- ponta direita e curvada em 90°
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	B mm	Ø mm	kg
963.2515	300,0	100,0	13,0	0,20
963.2516	450,0	150,0	19,0	1,30
963.2517	450,0	150,0	16,0	0,93
963.2518	450,0	150,0	24,0	2,00
963.2519	450,0	150,0	27,0	2,30
963.2520	450,0	150,0	30,0	3,30
963.2521	500,0	150,0	16,0	1,30
963.2522	600,0	200,0	20,0	2,40
963.2523	800,0	200,0	22,0	3,40

**BRONZEplus Soveira quadrada**

- para perfurar e alargar furos
- com cabo de 2 componentes
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L1 mm	L2 mm	Ø mm	kg
963.2525	180,0	100,0	5,0	80

**BRONZEplus Kit de punções passadores**

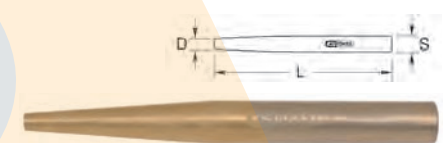
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)
- em bolsa de enrolar



	6 peças	BRONZEplus Kit de punções passadores	kg
963.2560			310
1 x		4 mm	
5 x		1 - 2 - 3 - 4 - 5 mm	

**BRONZEplus Punção passador**

- em cumprimento da DIN 6458
- formato cónico
- modelo forte
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	D mm	S mm	kg
963.2561	120,0	1,0	8,0	40
963.2562	120,0	2,0	8,0	40
963.2563	120,0	3,0	8,0	40
963.2564	120,0	4,0	8,0	40
963.2565	120,0	5,0	10,0	60
963.2530	150,0	6,0	13,0	100
963.2531	150,0	7,0	17,0	100
963.2532	200,0	8,0	21,0	320
963.2533	250,0	12,0	24,0	450
963.2534	250,0	13,0	30,0	600

**BRONZEplus Punção passador**

- em cumprimento da DIN 6458
- formato cónico
- modelo extraforte
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



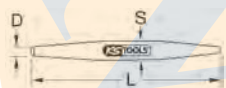
	L mm	D mm	S mm	kg
963.2535	220,0	5,0	16,0	280
963.2536	230,0	10,0	19,0	420
963.2537	250,0	13,0	24,0	880

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### BRONZEplus Punção passador

- Formato do fuso
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	D mm	S mm	Ø
963.2540	200,0	8,0	17,0	230
963.2541	200,0	8,0	21,0	360
963.2542	200,0	10,0	24,0	270
963.2543	200,0	13,0	27,0	630
963.2544	200,0	18,0	30,0	880
963.2545	200,0	22,0	32,0	1050

### BRONZEplus Punção marcador

- em cumprimento da DIN 7250
- haste ranhurada
- cônico
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	D mm	Ø
963.2550	100,0	3,0	30
963.2551	110,0	4,0	60
963.2552	125,0	5,0	100
963.2553	150,0	6,0	200

### BRONZEplus Kit de punções para cavilhas

- em cumprimento da DIN 6450
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)
- em bolsa de enrolar



	6 peças	3 - 4 - 5 - 6 - 8 - 10 mm	Ø
963.2590			440

### BRONZEplus Punção para cavilhas

- em cumprimento da DIN 6450
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	D mm	S mm	Ø
963.2591	110,0	3,0	9,0	35
963.2592	110,0	4,0	10,0	40
963.2593	120,0	5,0	11,0	78
963.2594	120,0	6,0	12,0	86
963.2597	130,0	8,0	14,0	178
963.2598	140,0	10,0	16,0	205

### BRONZEplus Ponta de montagem

- quadrado
- em cumprimento da DIN 6450
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	D mm	S mm	Ø
963.2566	500,0	5,0	20,0	1,20

### BRONZEplus Punção de tração

- em cumprimento da DIN 6451
- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	D mm	S mm	Ø
963.2570	85,0	8,0	12,0	40
963.2571	90,0	10,0	14,0	50
963.2572	100,0	13,0	16,0	70
963.2573	110,0	16,0	20,0	100
963.2574	140,0	19,0	25,0	180
963.2575	160,0	21,0	28,0	270
963.2576	200,0	25,0	30,0	450
963.2577	240,0	29,0	35,0	630

### BRONZEplus Cavilha de montagem

- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	D mm	S mm	Ø
963.2580	180,0	5,0	12,0	110
963.2581	200,0	6,0	13,0	150
963.2582	200,0	8,0	16,0	220
963.2583	200,0	9,0	20,0	340
963.2584	230,0	10,0	22,0	460
963.2585	250,0	11,0	25,0	620
963.2586	280,0	12,0	27,0	870
963.2587	320,0	14,0	30,0	1260
963.2588	350,0	15,0	32,0	1570
963.2589	380,0	16,0	36,0	2230

### BRONZEplus Pino para limpeza de roscas

- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	Ø mm	L mm	Ø
963.9505	6,0	300,0	20
963.9506	10,0	300,0	180
963.9507	13,0	300,0	350

### BERYLLIUMplus Caça-corda / ferramenta de urdir

- anti-faíscentes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)

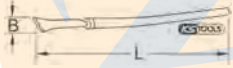


	B mm	L mm	Ø
962.0202	2,0	150,0	370
962.0203	3,0	160,0	410
962.0204	4,0	180,0	390
962.0205	5,0	200,0	520
962.0206	6,0	200,0	420
962.0207	7,0	220,0	500
962.0208	8,0	220,0	520
962.0209	9,0	220,0	520
962.0210	10,0	250,0	600
962.0212	12,0	250,0	540

**FERRAMENTAS DE CONSTRUÇÃO CIVIL ANTI-FAISCANTES**

**BRONZEplus Picador de ferrugem**

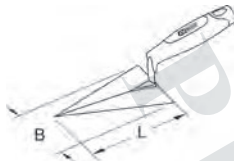
- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	B mm	kg
963.9545	600,0	75,0	0,53
963.9546	800,0	75,0	0,62
963.9547	1000,0	75,0	0,74
963.9548	1200,0	75,0	1,16

**BRONZEplus Colher de pedreiro**

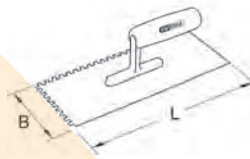
- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	B mm	kg
963.9550	215,0	130,0	350
963.9551	240,0	135,0	540

**BRONZEplus Colher de pedreiro**

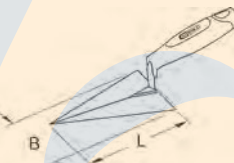
- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	B mm	kg
963.9552	280,0	120,0	810

**BRONZEplus Colher de pedreiro**

- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	B mm	kg
963.9553	180,0	92,0	180

**BRONZEplus Espátula pontiaguda**

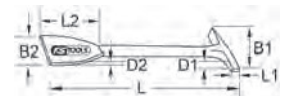
- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	B mm	kg
963.9554	100,0	10,0	100

**BRONZEplus Ferramenta de limpeza**

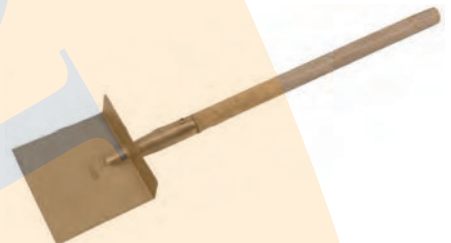
- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	B1 mm	B2 mm	D1 mm	D2 mm	L1 mm	L2 mm	kg
963.9565	480,0	110,0	70,0	20,0	10,0	40,0	125,0	1,20

**BRONZEplus Raspador de piso**

- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)

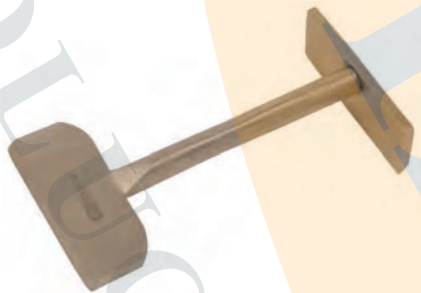


	L mm	B mm	kg
963.9570	170,0	150,0	720



### BRONZEplus Raspador de placas

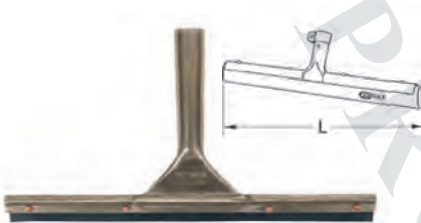
- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	B mm	g
963.9575	150,0	75,0	500
963.9576	235,0	125,0	800

### BRONZEplus Rodo de borracha

- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	g
963.9592	300,0	300

### Balde anti-faíscantes

- com punho rotativo
- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste

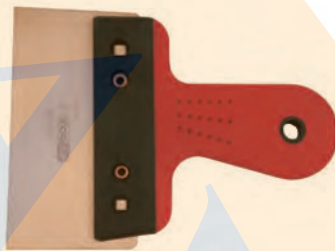
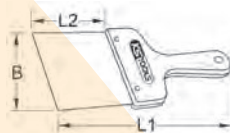


	Material	H mm	D mm	g
963.5505	Latão	270,0	185,0	1,46
963.5506	alumínio	290,0	200,0	0,74

### ESPÁTULA ANTI-FAISCANTE

#### BRONZEplus Espátula larga, folha rígida

- com cabo em madeira
- com furo para pendurar
- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)

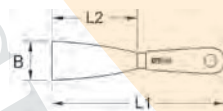


	L1 mm	L2 mm	B mm	g
963.9560	195,0	80,0	120,0	250
963.9561	195,0	80,0	140,0	270
963.9562	205,0	90,0	160,0	300
963.9563	205,0	90,0	180,0	350



#### BERYLLIUMplus Espátula raspadora dobrável

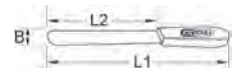
- com cabo em madeira
- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



	L1 mm	L2 mm	B mm	g
962.0301	200,0	95,0	25,0	75
962.0302	200,0	95,0	30,0	85
962.0303	200,0	95,0	40,0	95
962.0304	200,0	95,0	50,0	105
962.0305	200,0	95,0	60,0	115
962.9031	200,0	95,0	75,0	130
962.0306	200,0	95,0	100,0	145

### BRONZEplus Espátula estreita

- com cabo em madeira
- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)

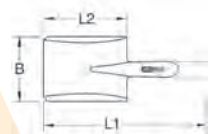


	L1 mm	L2 mm	B mm	g
963.9515	260,0	150,0	25,0	350
963.9516	350,0	230,0	40,0	800
963.9517	490,0	355,0	50,0	1750

### PÁS E FORQUILHAS ANTI-FAISCANTES

#### BRONZEplus Pás

- com cabo em madeira
- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



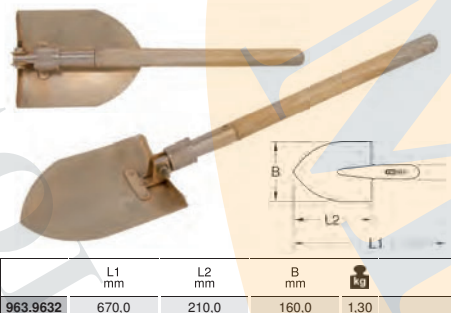
	L1 mm	L2 mm	B mm	g
963.9630	1250,0	260,0	180,0	direito 3,50
963.9631	1250,0	260,0	180,0	cabo em D 3,65





**BRONZEplus Pá articulada**

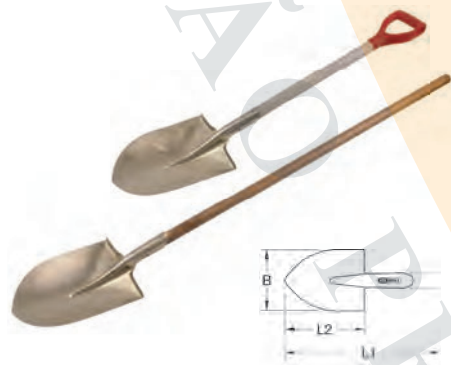
- com cabo em faia
- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L1 mm	L2 mm	B mm	
963.9632	670,0	210,0	160,0	1,30

**BRONZEplus Pá tipo Frankfurt**

- com cabo em faia
- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L1 mm	L2 mm	B mm		
963.9635	1400,0	340,0	260,0	direito	1,85
963.9636	1000,0	340,0	260,0	cabo em D	1,85

**BRONZEplus Pá com bordos**

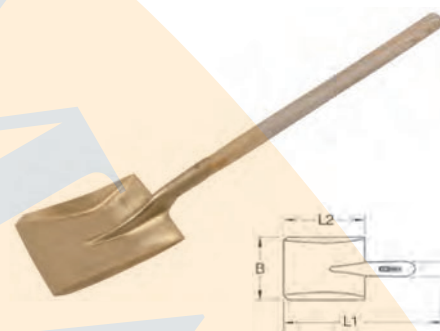
- com cabo em faia
- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L1 mm	L2 mm	B mm		
963.9637	1400,0	400,0	270,0	direito	1,95
963.9638	1000,0	400,0	270,0	cabo em D	1,95

**BRONZEplus Pá de mão**

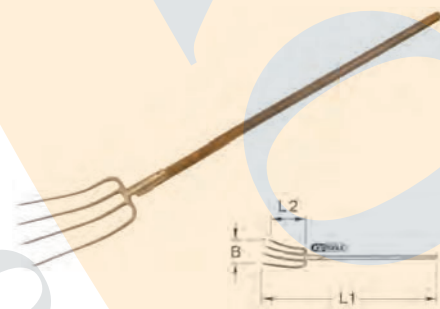
- com cabo em faia
- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L1 mm	L2 mm	B mm	
963.9639	540,0	220,0	180,0	720

**BRONZEplus Forquilha de estreme**

- com cabo em faia
- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L1 mm	L2 mm	B mm	
963.9645	1600,0	330,0	230,0	1,64

**BRONZEplus Forquilha**

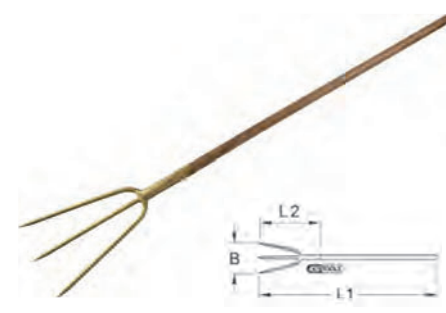
- com cabo em faia
- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L1 mm	L2 mm	B mm	
963.9646	1000,0	290,0	180,0	2,10

**BRONZEplus Forquilha**

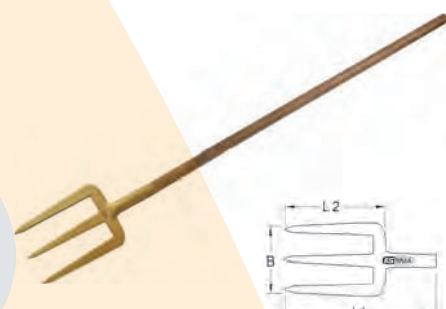
- com cabo em faia
- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L1 mm	L2 mm	B mm	
963.9647	1600,0	290,0	180,0	1,28

**BRONZEplus Forquilha para algodão-pólvora**

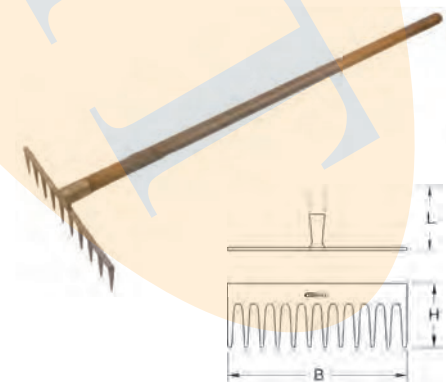
- sem cabo
- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L1 mm	L2 mm	B mm	
963.9648	200,0	140,0	90,0	0,60
963.9649	370,0	250,0	150,0	1,80

**BRONZEplus Ancinho**

- com cabo em faia
- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



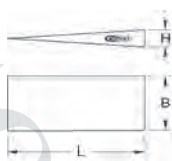
	L mm	B mm	H mm	
963.9650	1600,0	360,0	90,0	1,53

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## CUNHAS ANTI-FAISCANTES

### BRONZEplus Cunha de flange

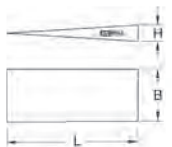
- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	B mm	H mm	kg
963.2205	80,0	15,0	6,0	0,04
963.2206	90,0	50,0	10,0	0,20
963.2207	100,0	50,0	10,0	0,21
963.2208	105,0	19,0	13,0	0,10
963.2209	150,0	25,0	13,0	0,25
963.2210	150,0	30,0	13,0	0,28
963.2211	150,0	38,0	19,0	0,40
963.2212	150,0	40,0	13,0	0,35
963.2213	180,0	32,0	13,0	0,30
963.2214	180,0	50,0	10,0	0,40
963.2215	180,0	50,0	19,0	0,70
963.2216	200,0	38,0	25,0	0,90
963.2217	200,0	38,0	41,0	1,30
963.2218	200,0	40,0	40,0	1,38
963.2219	200,0	50,0	19,0	0,80
963.2220	215,0	50,0	32,0	1,40
963.2221	230,0	40,0	20,0	1,00

### BRONZEplus Cunha com furo

- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	B mm	H mm	Diâmetro de furo	kg
963.2225	100,0	30,0	15,0	6 mm	220

### BRONZEplus Ferro espaçador

- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	B mm	H mm	A mm	kg
963.2226	250,0	50,0	5,0	1,2	200

## BRONZEplus Chaveta com cabeça

- para ligação englobante do veio e do cubo
- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	B mm	H mm	kg
963.2230	340,0	20,0	40,0	2,60
963.2231	340,0	30,0	40,0	2,80
963.2232	400,0	30,0	40,0	3,50

### BRONZEplus Cunha de pedra

- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	B mm	H mm	kg
963.2235	120,0	50,0	44,0	1,10
963.2236	150,0	45,0	45,0	1,40
963.2237	190,0	55,0	47,0	2,00
963.2238	240,0	60,0	50,0	3,00

### BRONZEplus Cortador de flange direito com punção

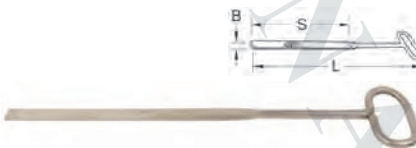
- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	B mm	S mm	kg
963.9655	400,0	25,0	220	300

### BRONZEplus Cortador de flange redondo

- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	B mm	S mm	kg
963.9656	690,0	30,0	400	1,20
963.9657	1240,0	40,0	800	2,00

## ARRANCA-PREGOS ANTI-FAISCANTES

### BRONZEplus Arranca-pregos/pé-de-cabra

- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	D mm	kg
963.9705	300,0	14,0	0,40
963.9706	450,0	9,0	1,10
963.9707	600,0	19,0	1,50
963.9708	750,0	22,0	2,50
963.9709	900,0	22,0	3,00

### BRONZEplus Pé-de-cabra

- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	D mm	kg
963.9715	300,0	14,0	0,40
963.9716	450,0	19,0	1,10
963.9717	600,0	19,0	1,50
963.9718	750,0	22,0	2,50
963.9719	900,0	22,0	3,00

## PÉS-DE-CABRA ANTI-FAISCANTES

### BRONZEplus Pé-de-cabra


- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	S mm	kg
963.9720	450,0	19,0	1,10
963.9721	600,0	19,0	1,50
963.9722	750,0	22,0	2,50
963.9723	900,0	22,0	3,00
963.9724	1000,0	22,0	3,30
963.9725	1250,0	27,0	6,10
963.9726	1500,0	27,0	7,30
963.9727	1800,0	30,0	11,10
963.9728	2000,0	30,0	12,30

**BRONZEplus Pé-de-cabra com bico e gume**


- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	Ø mm	g
963.9730	1000,0	30	6,15
963.9731	1250,0	30	7,70
963.9732	1500,0	30	9,25
963.9733	1800,0	30	11,10
963.9734	2000,0	30	12,30

**BRONZEplus Pé-de-cabra com bico e garra**


- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	Ø mm	g
963.9735	1000,0	30	6,15
963.9736	1250,0	30	7,70
963.9737	1500,0	30	9,25
963.9738	1800,0	30	11,10
963.9739	2000,0	30	12,30

**BRONZEplus Pé-de-cabra com gume e esfera**


- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	Ø mm	g
963.9745	1000,0	30	6,15
963.9746	1250,0	30	7,70
963.9747	1500,0	30	9,25
963.9748	1800,0	30	11,10
963.9749	2000,0	30	12,30

**BRONZEplus Pé-de-cabra com bico e esfera**


- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	Ø mm	g
963.9755	1000,0	30	6,15
963.9756	1250,0	30	7,70
963.9757	1500,0	30	9,25
963.9758	1800,0	30	11,10
963.9759	2000,0	30	12,30

**BRONZEplus Barra de levantamento**


- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	B mm	g
963.9765	650,0	20,0	2,00
963.9766	800,0	20,0	2,70
963.9767	1000,0	20,0	3,40
963.9768	1250,0	25,0	6,20
963.9769	1500,0	25,0	7,70

**BRONZEplus Ferro de montagem**


- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	A mm	Ø mm	g
963.9775	200,0	5,0	19	0,66
963.9776	300,0	5,0	19	1,00
963.9777	400,0	5,0	19	1,30
963.9778	500,0	5,0	19	1,60
963.9779	600,0	5,0	19	2,00

**BRONZEplus Alavanca de montagem**


- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	A mm	g
963.9785	200,0	20,0	350
963.9786	300,0	25,0	470
963.9787	400,0	30,0	600
963.9788	500,0	35,0	770
963.9789	600,0	38,0	900

**BRONZEplus Alavanca de montagem, pesada, modelo curvado**

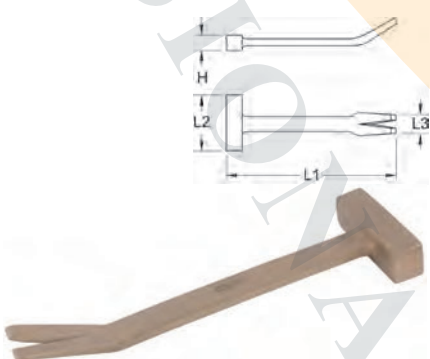
- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L mm	A mm	g
963.9790	600,0	25,0	1,00

**BRONZEplus Abre-grades**

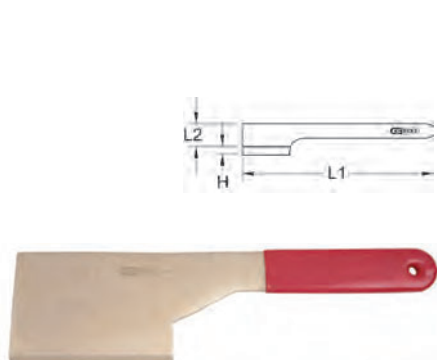
- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	H mm	L1 mm	L2 mm	L3 mm	g
963.5105	22,0	230,0	70,0	30,0	490

**BRONZEplus Abre-bidões**

- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)




	H mm	L1 mm	L2 mm	g
963.5106	10,0	300,0	75,0	750

**LEVANTA-BARRIS ANTI-FAISCANTES**

**BRONZEplus Levanta-barris**

- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)

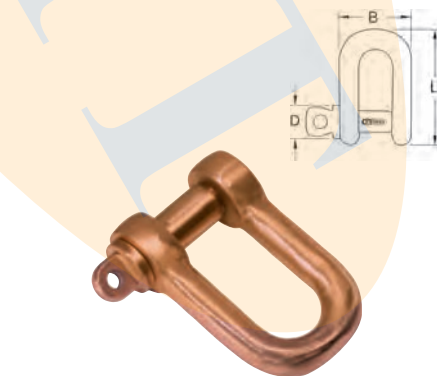


	L mm	max. Capacidade de carga kg	g
963.5107	1060,0	600	3,80

**MANILHAS ANTI-FAISCANTES**

**BERYLLIUMplus Manilha**

- formato direito
- anti-faíscantes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



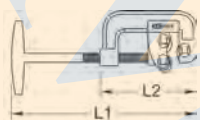
	D mm	L mm	B mm	g
962.9520	25,0	40,0	30,0	100
962.9521	28,0	78,0	37,0	150



**CORTA-TUBOS ANTI-FAISCANTES**

**BRONZEplus Corta-tubos**

- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)

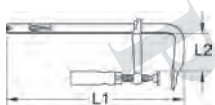


	Ø mm	L1 mm	kg
963.5109	50,0	340,0	2,50

**FERRAMENTAS DE APERTO ANTI-FAISCANTES**

**BRONZEplus Grampo de rosca de aperto**

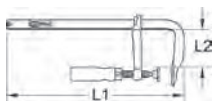
- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L1 mm	L2 mm	kg
963.5020	480,0	130,0	2,10

**BRONZEplus Grampo de rosca de aperto rebaixado**

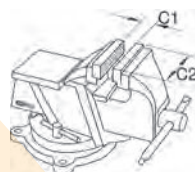
- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	L1 mm	L2 mm	kg
963.5021	480,0	250,0	3,70

**BRONZEplus Torno de bancada paralelo**

- com prato rotativo
- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	C1 mm	C2 mm	kg
963.5005	100,0	90,0	6,50
963.5006	130,0	125,0	15,50
963.5007	150,0	150,0	26,50
963.5008	170,0	170,0	27,40

**PREGOS ANTI-FAISCANTES**

**BERYLLIUMplus Agulha acústica**

- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



	L mm	Ø mm	kg
962.0220	250,0	6,0	70
962.0221	300,0	8,0	150
962.0222	400,0	7,0	160
962.0223	500,0	10,0	330

**BERYLLIUMplus Agulha acústica com cabeça esférica**

- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



	L mm	Ø mm	kg
962.0224	500,0	6,0	130

**BERYLLIUMplus Agulhas**

- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- muito resistente à quebra
- cobre-berílio (liga não ferrosa)



	L mm	Ø mm	kg
962.0225	180,0	3,0	20

**BOMBA DE ÓLEO ANTI-FAISCANTE**

**BRONZEplus bomba do óleo manual portátil,**

- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)

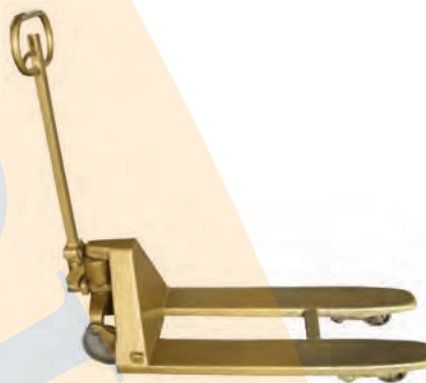


	L mm	kg
963.5805	1350,0	5,00

**FERRAMENTAS DE LEVANTAMENTO ANTI-FAISCANTES**

**BRONZEplus Porta-paletes**

- Força de levantamento da paleta 2,0 t
- Comprimento da forquilha aprox. 1.100 mm
- Comprimento aprox. da barra guia 1.250 mm
- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



	Capacidade de carga kg	Comprimento total mm	Largura em mm	Altura total mm	kg
963.5905	2000	1.100,0	470,0	1250,0	120,00

**BRONZEplus Talha**

- anti-faiscantes
- protegido contra explosão
- resistente à corrosão
- resistente ao desgaste
- alumínio-bronze (liga não ferrosa)



		Comprimento de cadeia	máx. carga de elevação t	kg
963.9905	2 correntes	à 2,5 m	0,5 t	10,20
963.9906	2 correntes	à 2,5 m	1,0 t	13,60
963.9907	2 correntes	à 2,5 m	1,5 t	15,60
963.9908	2 correntes	à 2,5 m	2,0 t	22,00
963.9909	2 correntes	à 3 m	3,0 t	23,60
963.9910	2 correntes	à 3 m	5,0 t	36,00
963.9911	2 correntes	à 3 m	10,0 t	68,50
963.9912	2 correntes	à 3 m	16,0 t	187,00



**KS TOOLS**

A inovação é a  
nossa missão!

**FERRAMENTAS ANTI-  
-FAISCANTES**

**BRONZE *plus***  
**BERYLLIUM *plus***

- Indústria química
- Petroquímica
- Prospeção de petróleo e gás
- Instalações de oleodutos
- Plataformas petrolíferas
- Manutenção de cisternas (limpeza, etc.)
- Centrais de gás e elétricas
- Oficinas de pintura
- Forças militares, exércitos
- Proteção civil e contra catástrofes naturais
- Bombeiros

Em qualquer lugar em que centelhas representem um perigo de incêndio ou de explosão. Para atividades, que exijam a utilização de ferramentas totalmente antimagnéticas e de resistência extrema à corrosão.

