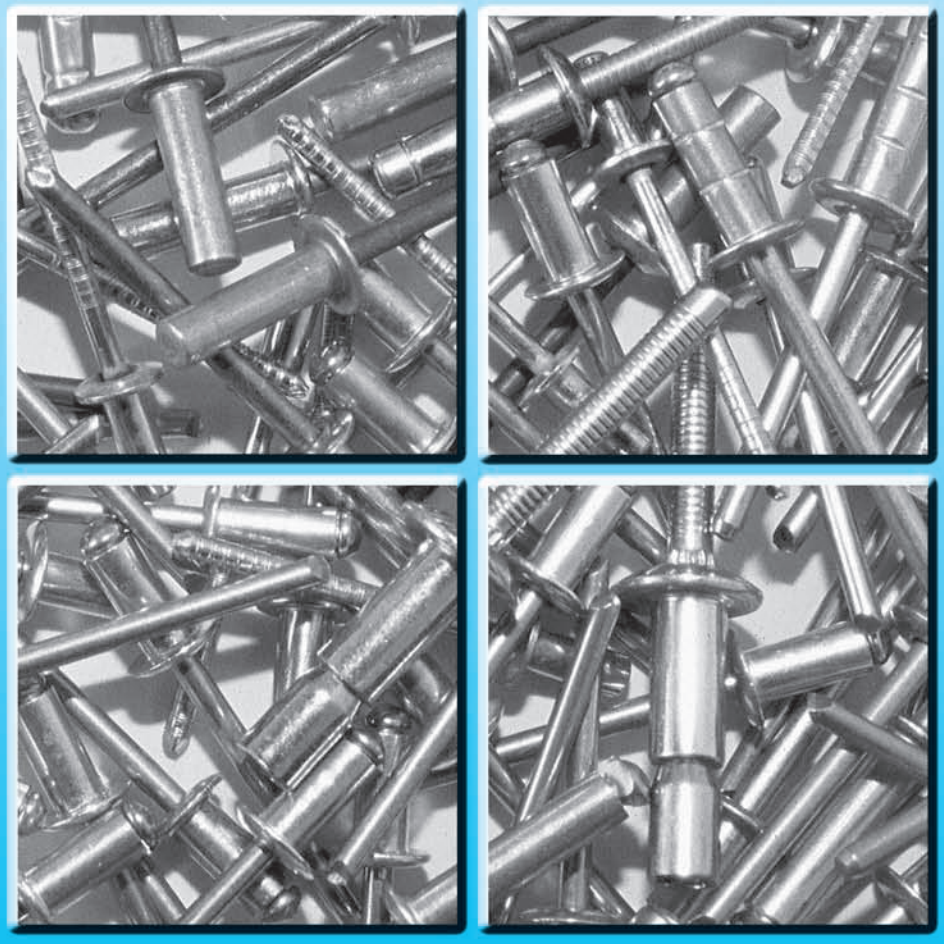
GRIV SRL

SOLUZIONI PER L'INDUSTRIA

1

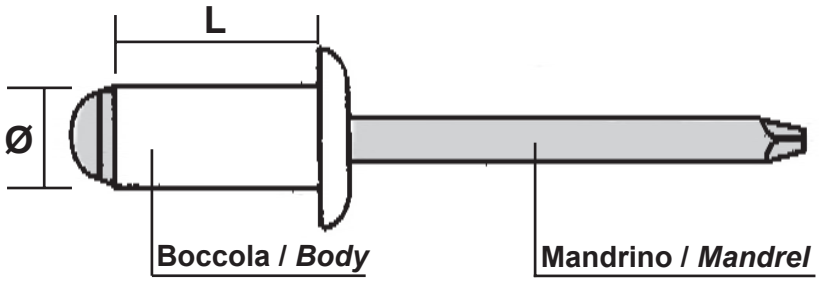


RIVETTI A STRAPPO
BLIND RIVETS

GRIV SRL
Sede Legale: via Giuseppe Mazzini, 4 - 80040 - Pollena Trocchia (Na)
Sede Operativa: via F.lli Bandiera, 1 - 80026 - Casoria (Na)

Tel/Fax: +39 081 8990496
Email: info@grivsrl.it
Web: www.grivsrl.it

RIVETTI A STRAPPO
BLIND RIVETS



! Scelta del diametro del foro = Ø boccola + 0,1

! Choice of hole diameter = Ø body + 0,1

ESEMPIO / *EXAMPLE*

Ø 4,8 + 0,1 = 4,9 mm.

!! Scelta della lunghezza del rivetto = spessore da serrare + Ø boccola

!! Choice of lenght of blind rivet = grip + Ø body

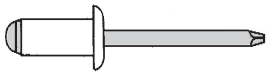
ESEMPIO / *EXAMPLE*

4 mm. + Ø 6 = 10 mm.

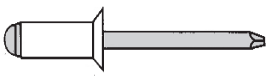
LEGENDA *SIMBOL LIST*

RIVETTI STANDARD *STANDARD RIVETS*

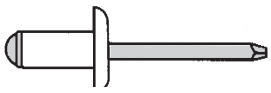
TT TESTA TONDA *DOME HEAD*



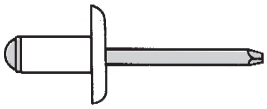
TS TESTA SVASATA *COUNTERSUNK HEAD*



TL TESTA LARGA *LARGE HEAD*

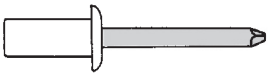


TXL TESTA EXTRA LARGA *EXTRA LARGE HEAD*

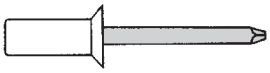


RIVETTI A TENUTA STAGNA *SEALED RIVETS*

TST TT TESTA TONDA *DOME HEAD*

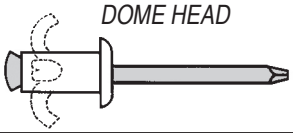


TST TS TESTA SVASATA *COUNTERSUNK HEAD*

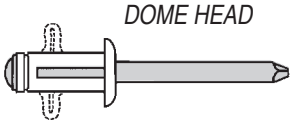


RIVETTI PER MATERIE PLASTICHE *PEEL RIVETS*

FA TT TESTA TONDA *DOME HEAD*

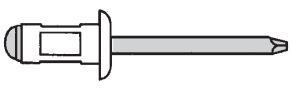


SOF TT TESTA TONDA *DOME HEAD*

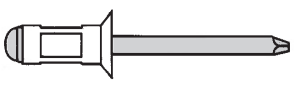


RIVETTI MULTIFIX *MULTIGRIP RIVETS*

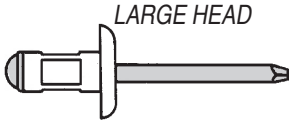
MX TT TESTA TONDA *DOME HEAD*



MX TS TESTA SVASATA *COUNTERSUNK HEAD*

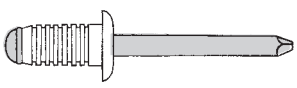


MX TL TESTA LARGA *LARGE HEAD*



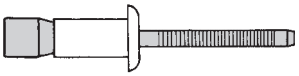
RIVETTI RULLATI *GROOVED RIVETS*

RUL TT TESTA TONDA *DOME HEAD*

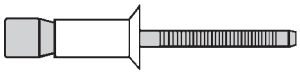


RIVETTI STRUTTURALI *STRUCTURAL RIVETS*

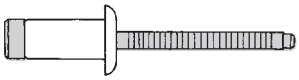
MFX TT TESTA TONDA *DOME HEAD*



MFX TS TESTA SVASATA *COUNTERSUNK HEAD*

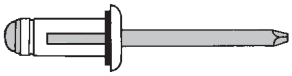


MBX TT TESTA TONDA *DOME HEAD*



RIVETTI PER FOTOVOLTAICO *PHOTOVOLTAIC RIVETS*

SOF TTO TESTA TONDA *DOME HEAD*



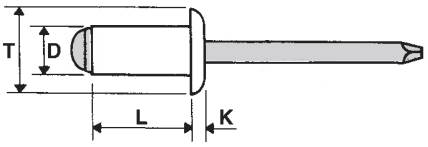
INDICE DEI RIVETTI
INDEX OF RIVETS

RIVETTI A STRAPPO STANDARD
STANDARD BLIND RIVETS

AL - TT

TESTA TONDA
DOME HEAD

boccola / *body*
alluminio / *aluminium*
mandrino / *mandrel*
acciaio zincato / *steel zinc plated*



RIVETTI VERNICIATI A RICHIESTA
PAINTED RIVETS ON REQUEST

D	L	T	K	ø foro/hole		CODICE *code*		
2,4	**4**	5	0,7	2,5	0,5 - 2	**AL2404TT**	800 N	500 N
	5				0,5 - 2,5	**AL2405TT**		
	6				2,5 - 4	**AL2406TT**		
	8				4 - 6	**AL2408TT**		
	10				6 - 8	**AL2410TT**		
	12				8 - 10	**AL2412TT**		
3,0	**4**	6	0,8	3,1	0,5 - 1,5	**AL3004TT**	900 N	550 N
	5				0,5 - 2	**AL3005TT**		
	6				1 - 3	**AL3006TT**		
	7				2 - 4	**AL3007TT**		
	8				3 - 5	**AL3008TT**		
	9				4 - 6	**AL3009TT**		
	10				5 - 7	**AL3010TT**		
	11				6 - 8	**AL3011TT**		
	12				7 - 9	**AL3012TT**		
	14				9 - 11	**AL3014TT**		
	16				11 - 13	**AL3016TT**		
	18				13 - 15	**AL3018TT**		
	20				15 - 17	**AL3020TT**		
3,2	**5**	6,5	0,8	3,3	0,5 - 2	**AL3205TT**	1100 N	800 N
	6				1 - 3	**AL3206TT**		
	7				2 - 4	**AL3207TT**		
	8				3 - 5	**AL3208TT**		
	9				4 - 6	**AL3209TT**		
	10				5 - 7	**AL3210TT**		
	11				6 - 8	**AL3211TT**		
	12				7 - 9	**AL3212TT**		
	14				9 - 11	**AL3214TT**		
	16				11 - 13	**AL3216TT**		
	18				13 - 15	**AL3218TT**		
	20				14 - 17	**AL3220TT**		
	25				17 - 22	**AL3225TT**		
3,4	**5**	7	0,8	3,5	0,5 - 2	**AL3405TT**	1200 N	800 N
	7				2 - 4	**AL3407TT**		
	9				4 - 6	**AL3409TT**		
	11				6 - 8	**AL3411TT**		
	14				9 - 11	**AL3414TT**		
	16				11 - 13	**AL3416TT**		
	18				13 - 15	**AL3418TT**		
4,0	**5**	8	1,0	4,1	0,5 - 1,5	**AL4005TT**	2050 N	1300 N
	6				1 - 2,5	**AL4006TT**		
	7				2 - 3,5	**AL4007TT**		
	8				3 - 4,5	**AL4008TT**		
	9				4 - 5,5	**AL4009TT**		
	10				5 - 6,5	**AL4010TT**		
	11				6 - 7,5	**AL4011TT**		
	12				7 - 8,5	**AL4012TT**		
	14				8 - 10,5	**AL4014TT**		
	16				10 - 12,5	**AL4016TT**		
	18				12 - 14,5	**AL4018TT**		
	20				14 - 16,5	**AL4020TT**		
	22				16 - 18,5	**AL4022TT**		
	24				18 - 20,5	**AL4024TT**		
	26				20 - 22,5	**AL4026TT**		
	28				22 - 24,5	**AL4028TT**		
	30				24 - 26,5	**AL4030TT**		
	35				27 - 31,5	**AL4035TT**		

RIVETTI A STRAPPO STANDARD
STANDARD BLIND RIVETS

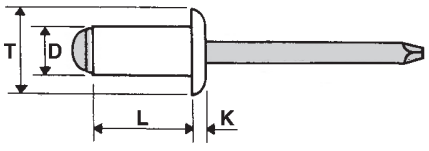
D	L	T	K	ø foro/hole		CODICE *code*		
	6				0,5 - 2	**AL4806TT**		
	7				1,5 - 3	**AL4807TT**		
	8				2,5 - 4	**AL4808TT**		
	9				3,5 - 5	**AL4809TT**		
	10				4,5 - 6	**AL4810TT**		
	11				5,5 - 7	**AL4811TT**		
	12				6,5 - 8	**AL4812TT**		
	14				7,5 - 10	**AL4814TT**		
	16				9,5 - 12	**AL4816TT**		
	18				11,5 - 14	**AL4818TT**		
	20				13,5 - 16	**AL4820TT**		
4,8	**22**	10	1,1	5,0	15,5 - 18	**AL4822TT**	2800 N	2050 N
	24				17,5 - 20	**AL4824TT**		
	26				19,5 - 22	**AL4826TT**		
	28				21,5 - 24	**AL4828TT**		
	30				23,5 - 26	**AL4830TT**		
	35				25,5 - 28	**AL4835TT**		
	40				30,5 - 36	**AL4840TT**		
	45				35,5 - 40	**AL4845TT**		
	50				39,5 - 45	**AL4850TT**		
	55				45 - 50	**AL4855TT**		
	60				50 - 55	**AL4860TT**		
	65				55 - 60	**AL4865TT**		
	70				60 - 65	**AL4870TT**		
	8				2 - 4	**AL6008TT**		
	10				2,5 - 5	**AL6010TT**		
	12				4,5 - 7	**AL6012TT**		
	14				5,5 - 9	**AL6014TT**		
	16				6,5 - 10	**AL6016TT**		
	18				9,5 - 13	**AL6018TT**		
6,0	**20**	12	1,5	6,1	11 - 14	**AL6020TT**	4350 N	3200 N
	22				12,5 - 17	**AL6022TT**		
	26				16,5 - 21	**AL6026TT**		
	30				20,5 - 25	**AL6030TT**		
	35				24,5 - 30	**AL6035TT**		
	40				29,5 - 35	**AL6040TT**		
	10				2,5 - 5	**AL6410TT**		
	12				4,5 - 7	**AL6412TT**		
	16				6,5 - 10	**AL6416TT**		
	18				9,5 - 13	**AL6418TT**		
6,4	**22**	13	1,8	6,6	12,5 - 17	**AL6422TT**	5100 N	3250 N
	26				16,5-21	**AL6426TT**		
	30				20,5 - 25	**AL6430TT**		
	35				24,5 - 30	**AL6435TT**		
	40				29,5 - 35	**AL6440TT**		

AL - TT

TESTA TONDA
DOME HEAD

boccola / *body*
alluminio / *aluminium*

mandrino / *mandrel*
acciaio zincato / *steel zinc plated*



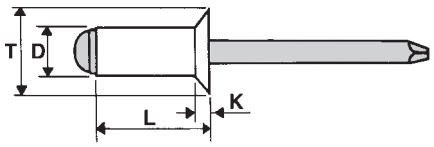
RIVETTI VERNICIATI A RICHIESTA
PAINTED RIVETS ON REQUEST

RIVETTI A STRAPPO STANDARD
STANDARD BLIND RIVETS

AL - TS

TESTA SVASATA
COUNTERSUNK HEAD

boccola / *body*
alluminio / *aluminium*
mandrino / *mandrel*
acciaio zincato / *steel zinc plated*



D	L	T	K	ø foro/hole		CODICE *code*		
2,4	**6** **8** **10**	5	-	2,5	2 - 4 4 - 6 6 - 8	**AL2406TS** **AL2408TS** **AL2410TS**	900 N	500 N
3,0	**6** **7** **8** **9** **10** **11** **12** **14**	6	-	3,1	1,5 - 3,5 2 - 4 3,5 - 5,5 4 - 6 5,5 - 7 6 - 8 7 - 9 9 - 12	**AL3006TS** **AL3007TS** **AL3008TS** **AL3009TS** **AL3010TS** **AL3011TS** **AL3012TS** **AL3014TS**	900 N	550 N
3,2	**6** **7** **8** **9** **10** **11** **12** **14** **16**	6,5	-	3,3	1,5 - 3,5 2 - 4 2 - 5 4 - 6 5 - 7 6 - 8 7 - 9 8 - 11 10,5 - 13	**AL3206TS** **AL3207TS** **AL3208TS** **AL3209TS** **AL3210TS** **AL3211TS** **AL3212TS** **AL3214TS** **AL3216TS**	1100 N	800 N
4,0	**6** **7** **8** **9** **10** **11** **12** **14** **16** **18** **20**	8	-	4,1	1,5 - 3 2,5 - 4 3 - 5 3,5 - 6 5 - 7 5,5 - 8 7,5 - 9 8,5 - 11 10,5 - 13 12,5 - 15 14,5 - 17	**AL4006TS** **AL4007TS** **AL4008TS** **AL4009TS** **AL4010TS** **AL4011TS** **AL4012TS** **AL4014TS** **AL4016TS** **AL4018TS** **AL4020TS**	2050 N	1300 N
4,8	**7** **8** **9** **10** **11** **12** **14** **16** **18** **20** **26** **30** **35**	10	-	5	2,5 - 4 3 - 4 3,5 - 5 4 - 6 4,5 - 7 6,5 - 8 7,5 - 10 9,5 - 12 11,5 - 14 13,5 - 16 19,5 - 22 23,5 - 26 25 - 30	**AL4807TS** **AL4808TS** **AL4809TS** **AL4810TS** **AL4811TS** **AL4812TS** **AL4814TS** **AL4816TS** **AL4818TS** **AL4820TS** **AL4826TS** **AL4830TS** **AL4835TS**	2800 N	2050 N

RIVETTI A STRAPPO STANDARD
STANDARD BLIND RIVETS

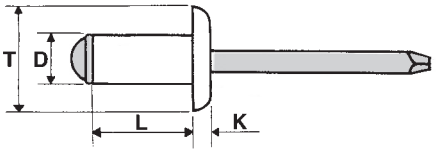
D	L	T	K	ø foro/hole		CODICE *code*		
3,2	**6**	10	2	3,3	1 - 3,5	**AL3206TL**	1100 N	800 N
	8				3 - 5	**AL3208TL**		
	10				5 - 7	**AL3210TL**		
	12				7 - 9	**AL3212TL**		
	14				9 - 11	**AL3214TL**		
	16				11 - 13	**AL3216TL**		
4,0	**6**	10	2,5	4,1	0,5 - 3	**AL4006TL**	2050 N	1300 N
	8				3 - 4,5	**AL4008TL**		
	10				5 - 6,5	**AL4010TL**		
	12				7 - 8,5	**AL4012TL**		
	14				8 - 10,5	**AL4014TL**		
	16				10 - 12,5	**AL4016TL**		
	20				13 - 16,5	**AL4020TL**		
4,8	**8**	14	2,5	5,0	2,5 - 4	**AL4808TL**	2800 N	2050 N
	10				4,5 - 6	**AL4810TL**		
	12				5,5 - 8	**AL4812TL**		
	14				7,5 - 10	**AL4814TL**		
	16				9,5 - 12	**AL4816TL**		
	18				11,5 - 14	**AL4818TL**		
	20				13,5 - 16	**AL4820TL**		
	24				17,5 - 20	**AL4824TL**		
	26				19,5 - 22	**AL4826TL**		
	30				22 - 26	**AL4830TL**		
	35				25,5 - 31	**AL4835TL**		
	40				29,5 - 36	**AL4840TL**		

AL - TL

TESTA LARGA
LARGE HEAD

boccola / *body*
alluminio / *aluminium*

mandrino / *mandrel*
acciaio zincato / *steel zinc plated*



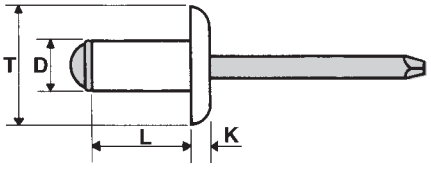
D	L	T	K	ø foro/hole		CODICE *code*		
4,0	**8**	12	2	4,1	3 - 4,5	**AL4008TXL**	2050 N	1300 N
	10				5 - 6,5	**AL4010TXL**		
	12				7 - 8,5	**AL4012TXL**		
	14				8 - 10,5	**AL4014TXL**		
	16				10 - 12,5	**AL4016TXL**		
	20				13 - 16,5	**AL4020TXL**		
4,8	**8**	16	2,5	5,0	3 - 4,5	**AL4808TXL**	2800 N	2050 N
	10				4,5 - 6	**AL4810TXL**		
	12				5,5 - 8	**AL4812TXL**		
	14				7,5 - 10	**AL4814TXL**		
	16				9,5 - 12	**AL4816TXL**		
	18				11,5 - 14	**AL4818TXL**		
	20				13,5 - 16	**AL4820TXL**		
	24				15,5 - 18	**AL4824TXL**		
	26				17,5 - 20	**AL4826TXL**		
	30				20 - 26	**AL4830TXL**		
	35				25,5 - 31	**AL4835TXL**		
	40				30,5 - 36	**AL4840TXL**		

AL - TXL

TESTA EXTRA LARGA
EXTRA LARGE HEAD

boccola / *body*
alluminio / *aluminium*

mandrino / *mandrel*
acciaio zincato / *steel zinc plated*



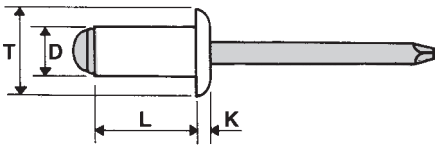
RIVETTI A STRAPPO STANDARD
STANDARD BLIND RIVETS

ALAL - TT

TESTA TONDA
DOME HEAD

boccola / *body*
alluminio / *aluminium*

mandrino / *mandrel*
alluminio / *aluminium*



D	L	T	K	ø foro/hole		CODICE *code*		
3,2	**6**	6,5	0,8	3,3	1,5 - 3,5	**ALAL3206TT**	670 N	540 N
	8				3,5 - 5	**ALAL3208TT**		
	10				5 - 7	**ALAL3210TT**		
	12				7 - 8,5	**ALAL3212TT**		
	14				8,5 - 10,5	**ALAL3214TT**		
	16				10,5 - 13	**ALAL3216TT**		
4,0	**6**	8	1,0	4,1	1,5 - 3,5	**ALAL4006TT**	1020 N	850 N
	8				3,5 - 5	**ALAL4008TT**		
	10				5 - 6,5	**ALAL4010TT**		
	12				6,5 - 8,5	**ALAL4012TT**		
	14				8,5 -10,5	**ALAL4014TT**		
	16				10,5 -12,5	**ALAL4016TT**		
	18				12,5 -14,5	**ALAL4018TT**		
	20				14,5 -16,5	**ALAL4020TT**		
4,8	**8**	9,5	1,1	5,0	3 - 4,5	**ALAL4808TT**	1400 N	1150 N
	10				4,5 - 6	**ALAL4810TT**		
	12				6 - 7,5	**ALAL4812TT**		
	14				7,5 - 9	**ALAL4814TT**		
	16				9 - 11,5	**ALAL4816TT**		
	18				11,5 - 13	**ALAL4818TT**		
	20				13 - 15	**ALAL4820TT**		
	25				15 - 20	**ALAL4825TT**		
	30				20 - 25	**ALAL4830TT**		

RIVETTI A STRAPPO STANDARD
STANDARD BLIND RIVETS

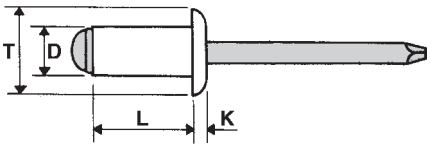
D	L	T	K	ø foro/hole		CODICE *code*		
3,0	**6**	6	0,8	3,1	1 - 3	**ALX3006TT**	950 N	750 N
	8				3 - 5	**ALX3008TT**		
	10				5 - 7	**ALX3010TT**		
	12				7 - 9	**ALX3012TT**		
	14				9 - 11	**ALX3014TT**		
3,2	**6**	6,5	0,8	3,3	1 - 3	**ALX3206TT**	1200 N	750 N
	8				3 - 5	**ALX3208TT**		
	10				5 - 7	**ALX3210TT**		
	12				7 - 9	**ALX3212TT**		
4,0	**6**	8	1,0	4,1	1 - 2,5	**ALX4006TT**	2150 N	1300 N
	8				3 - 4,5	**ALX4008TT**		
	10				5 - 6,5	**ALX4010TT**		
	12				7 - 8,5	**ALX4012TT**		
	14				8 - 10,5	**ALX4014TT**		
	16				10 - 12,5	**ALX4016TT**		
	20				14 - 16,5	**ALX4020TT**		
4,8	**6**	10	1,1	5,0	0,5 - 2	**ALX4806TT**	2500 N	2100 N
	8				2,5 - 4	**ALX4808TT**		
	10				4,5 - 6	**ALX4810TT**		
	12				6,5 - 8	**ALX4812TT**		
	14				7,5 - 10	**ALX4814TT**		
	16				9,5 - 12	**ALX4816TT**		
	18				11,5 - 14	**ALX4818TT**		
	20				13,5 - 16	**ALX4820TT**		
	26				19,5 - 22	**ALX4826TT**		
	30				23,5 - 26	**ALX4830TT**		

ALX - TT

TESTA TONDA
DOME HEAD

boccola / *body*
alluminio / *aluminium*

mandrino / *mandrel*
acciaio inox A2 / *stainless steel A2*



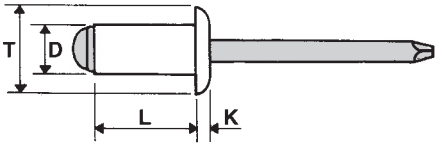
RIVETTI A STRAPPO STANDARD
STANDARD BLIND RIVETS

AOZ - TT

TESTA TONDA
DOME HEAD

boccola / *body*
acciaio zincato / *steel zinc plated*

mandrino / *mandrel*
acciaio zincato / *steel zinc plated*



D	L	T	K	ø foro/hole		CODICE *code*		
3,0	5	6	0,8	3,1	0,5 - 1,5	AOZ3005TT	1300 N	950 N
	6				0,5 - 3	AOZ3006TT		
	7				3 - 4	AOZ3007TT		
	8				4 - 5	AOZ3008TT		
	9				5 - 6	AOZ3009TT		
	10				6 - 7	AOZ3010TT		
	11				7 - 8	AOZ3011TT		
	12				8 - 9	AOZ3012TT		
	14				9 - 11	AOZ3014TT		
3,2	6	6,5	0,8	3,3	0,5 - 3	AOZ3206TT	1500 N	1000 N
	7				3 - 4	AOZ3207TT		
	8				4 - 5	AOZ3208TT		
	9				5 - 6	AOZ3209TT		
	10				6 - 7	AOZ3210TT		
	11				7 - 8	AOZ3211TT		
	12				8 - 9	AOZ3212TT		
	14				9 - 11	AOZ3214TT		
	16				11 - 13	AOZ3216TT		
4,0	6	8	1,0	4,1	0,5 - 2,5	AOZ4006TT	2350 N	1800 N
	7				2 - 3,5	AOZ4007TT		
	8				3 - 4,5	AOZ4008TT		
	9				4 - 5,5	AOZ4009TT		
	10				5 - 6,5	AOZ4010TT		
	11				6 - 7,5	AOZ4011TT		
	12				7 - 8,5	AOZ4012TT		
	14				8 - 10,5	AOZ4014TT		
	16				10 - 12,5	AOZ4016TT		
	18				12- 14,5	AOZ4018TT		
	20				14 - 16,5	AOZ4020TT		
	24				16 - 20,5	AOZ4024TT		
	30				20 - 26,5	AOZ4030TT		
4,8	6	9	1,1	5	0,5 - 2	AOZ4806TT	3900 N	3050 N
	7				1,5 - 3	AOZ4807TT		
	8				2,5 - 4	AOZ4808TT		
	9				3,5 - 5	AOZ4809TT		
	10				4,5 - 6	AOZ4810TT		
	11				5,5 - 7	AOZ4811TT		
	12				6,5 - 8	AOZ4812TT		
	14				7,5 - 10	AOZ4814TT		
	16				9,5 - 12	AOZ4816TT		
	18				11,5 - 14	AOZ4818TT		
	20				13,5 - 16	AOZ4820TT		
	24				15,5 - 20	AOZ4824TT		
	26				17,5 - 22	AOZ4826TT		
	30				19,5 - 26	AOZ4830TT		
6,0	10	12	1,5	6,1	3 - 4	AOZ6010TT	5450 N	4250 N
	12				3,5 - 7	AOZ6012TT		
	15				6,5 - 10	AOZ6015TT		
	18				9,5 - 13	AOZ6018TT		
	22				12,5 -17	AOZ6022TT		
	26				16,5 - 21	AOZ6026TT		
	30				20,5 - 25	AOZ6030TT		
6,4	12	12	1,8	6,6	3,5 - 7	AOZ6412TT	6800 N	5250 N
	15				6,5 - 10	AOZ6415TT		
	18				9,5 - 13	AOZ6418TT		
	22				12,5 - 17	AOZ6422TT		
	26				16,5 - 21	AOZ6426TT		
	30				20,5 - 25	AOZ6430TT		

RIVETTI A STRAPPO STANDARD
STANDARD BLIND RIVETS

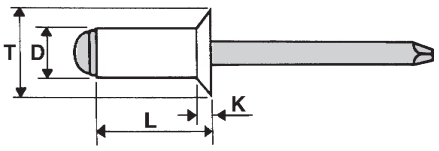
D	L	T	K	ø foro/hole		CODICE *code*		
3,0	**6** **8** **10** **12**	6	-	3,1	1,5 - 3 3 - 5 5 - 7 7 - 9	**AOZ3006TS** **AOZ3008TS** **AOZ3010TS** **AOZ3012TS**	1125 N	950 N
3,2	**6** **8** **10** **12** **14**	6,5	-	3,3	1,5 - 3 3 - 5 5 - 7 7 - 9 8 - 11	**AOZ3206TS** **AOZ3208TS** **AOZ3210TS** **AOZ3212TS** **AOZ3214TS**	1500 N	1000 N
4,0	**6** **8** **10** **12** **14** **16**	8	-	4,1	1,5 - 2,5 2,5 - 4,5 4,5 - 6,5 6,5 - 8,5 8,5 - 10,5 10,5 - 12,5	**AOZ4006TS** **AOZ4008TS** **AOZ4010TS** **AOZ4012TS** **AOZ4014TS** **AOZ4016TS**	2350 N	1800 N
4,8	**8** **10** **12** **14** **16** **20** **22**	10	-	5,0	1,5 - 4 4 - 6 6 - 8 7 - 9 8,5 - 11 11 - 15 15,5 - 17,5	**AOZ4808TS** **AOZ4810TS** **AOZ4812TS** **AOZ4814TS** **AOZ4816TS** **AOZ4820TS** **AOZ4822TS**	3900 N	3050 N

AOZ - TS

TESTA SVASATA
COUNTERSUNK HEAD

boccola / *body*
acciaio zincato / *steel zinc plated*

mandrino / *mandrel*
acciaio zincato / *steel zinc plated*



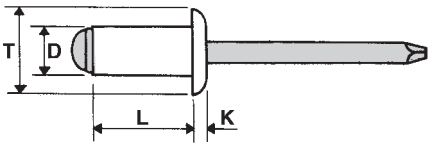
RIVETTI A STRAPPO STANDARD
STANDARD BLIND RIVETS

TUX - TT

TESTA TONDA
DOME HEAD

boccola / *body*
lega cupro nichel / *copper nickel*

mandrino / *mandrel*
acciaio inox A2 / *stainless steel A2*



D	L	T	K	ø foro/hole		CODICE *code*		
3,2	**6**	6,5	0,8	3,3	0,5 - 3	**TUX3206TT**	1050 N	950 N
	7				3 - 4	**TUX3207TT**		
	9				4 - 6	**TUX3209TT**		
	11				6 - 8	**TUX3211TT**		
	12				8 - 9	**TUX3212TT**		
4,0	**7**	8	1,0	4,1	2 - 3,5	**TUX4007TT**	3200 N	2400 N
	9				3 - 5,5	**TUX4009TT**		
	11				5 - 7,5	**TUX4011TT**		
	12				7 - 8,5	**TUX4012TT**		
	14				8 - 10,5	**TUX4014TT**		
	16				10 - 12,5	**TUX4016TT**		
	18				12 - 14,5	**TUX4018TT**		
4,8	**7**	9	1,1	5,0	0,5 - 3	**TUX4807TT**	5550 N	3500 N
	9				2,5 - 5	**TUX4809TT**		
	11				4,5 - 7	**TUX4811TT**		
	12				5,5 - 8	**TUX4812TT**		
	14				7,5 -10	**TUX4814TT**		
	16				9,5 -12	**TUX4816TT**		
	18				11,5 -14	**TUX4818TT**		
	20				13,5 -16	**TUX4820TT**		

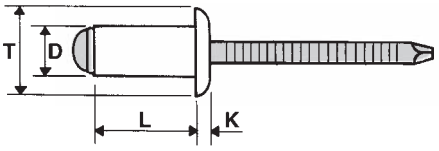
RIVETTI A STRAPPO STANDARD
STANDARD BLIND RIVETS

D	L	T	K	ø foro/hole		CODICE *code*		
3,0	**6**	6,5	0,8	3,1	1,5 - 2,5	**IXA23006TT**	2000 N	1600 N
	8				2,5 - 4,5	**IXA23008TT**		
	10				4,5 - 6,5	**IXA23010TT**		
	12				6,5 - 8,5	**IXA23012TT**		
3,2	**6**	6,5	0,8	3,3	1,5 - 2,5	**IXA23206TT**	2500 N	1800 N
	8				2,5 - 4,5	**IXA23208TT**		
	10				4,5 - 6,5	**IXA23210TT**		
	12				6,5 - 8,5	**IXA23212TT**		
	14				8,5 - 12	**IXA23215TT**		
	16				12 - 15	**IXA23218TT**		
4,0	**6**	8	1,0	4,1	1 - 2	**IXA24006TT**	3800 N	3100 N
	8				2 - 4	**IXA24008TT**		
	10				4 - 6	**IXA24010TT**		
	12				6 - 8	**IXA24012TT**		
	14				8 -10	**IXA24014TT**		
	16				10 -12,5	**IXA24016TT**		
	18				12 - 14	**IXA24018TT**		
	20				14 -16	**IXA24020TT**		
	25				16 - 20	**IXA24025TT**		
4,8	**8**	9,5	1,1	5,0	1,5 - 3	**IXA24808TT**	6000 N	4500 N
	10				3 - 5	**IXA24810TT**		
	12				5 - 7	**IXA24812TT**		
	14				7 - 9	**IXA24814TT**		
	16				9 - 11	**IXA24816TT**		
	18				11 - 13	**IXA24818TT**		
	20				13 - 15	**IXA24820TT**		
	22				15 - 17	**IXA24823TT**		
	25				17 - 20	**IXA24825TT**		
	30				20 - 25	**IXA24830TT**		
6,0	**10**	12	1,5	6,1	2 - 4	**IXA26010TT**	8800 N	6500 N
	12				4 - 6	**IXA26012TT**		
	15				6 - 9	**IXA26015TT**		
	18				9 - 12	**IXA26018TT**		
	20				12 - 14	**IXA26020TT**		
6,4	**10**	13	1,8	6,5	2 - 4	**IXA26410TT**	8800 N	6500 N
	12				2,5 - 4,5	**IXA26412TT**		
	15				6 - 9	**IXA26415TT**		
	18				9 - 13	**IXA26418TT**		
	20				13 - 16	**IXA26420TT**		
	25				16 - 20	**IXA26425TT**		
3,2	**6**	6	-	3,3	1,5 - 2,5	**IXA23206TS**	2500 N	1800 N
	8				2,5 - 4,5	**IXA23208TS**		
	10				4,5 - 6,5	**IXA23210TS**		
	12				6,5 - 8,5	**IXA23212TS**		
4,0	**6**	7,5	-	4,1	1 - 2	**IXA24006TS**	3800 N	3100 N
	8				2 - 4	**IXA24008TS**		
	10				4 - 6	**IXA24010TS**		
	12				6 - 8	**IXA24012TS**		
	14				8 - 10	**IXA24014TS**		
	16				10 - 12	**IXA24016TS**		
4,8	**8**	9	-	4,9	1,5 - 3	**IXA24808TS**	6000 N	4500 N
	10				3 - 5	**IXA24810TS**		
	12				5 - 7	**IXA24812TS**		
	16				9 - 11	**IXA24815TS**		
	18				11 - 13	**IXA24818TS**		
	20				13 - 15	**IXA24821TS**		

IX-A2 - TT

TESTA TONDA
DOME HEAD

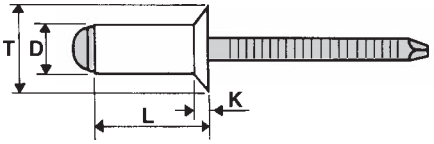
boccola / *body*
acciaio inox A2 / *stainless steel A2*
mandrino / *mandrel*
acciaio inox A2 / *stainless steel A2*



IX-A2 - TS

TESTA SVASATA
COUNTERSUNK HEAD

boccola / *body*
acciaio inox A2 / *stainless steel A2*
mandrino / *mandrel*
acciaio inox A2 / *stainless steel A2*

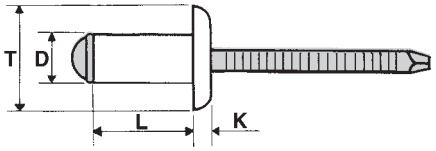


RIVETTI A STRAPPO STANDARD
STANDARD BLIND RIVETS

IX-A2 - TL

TESTA LARGA
LARGE HEAD

boccola / *body*
acciaio inox A2 / *stainless steel A2*
mandrino / *mandrel*
acciaio inox A2 / *stainless steel A2*

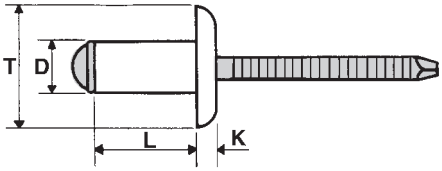


D	L	T	K	ø foro/hole		CODICE *code*		
3,2	**6**	9,5	1,3	3,3	1,5 - 2,5	**IXA23206TL**	2300 N	1800 N
	8				2,5 - 4,5	**IXA23208TL**		
	10				4,5 - 6,5	**IXA23210TL**		
	12				6,5 - 8,5	**IXA23212TL**		
	14				8,5 - 12	**IXA23214TL**		
4,0	**6**	12	1,6	4,1	1 - 2	**IXA24006TL**	3600 N	2800 N
	8				2 - 4	**IXA24008TL**		
	10				4 - 6	**IXA24010TL**		
	12				6 - 8	**IXA24012TL**		
	14				8 - 10	**IXA24014TL**		
	16				10 - 12	**IXA24016TL**		
4,8	**8**	14	1,8	4,9	1,5 - 3	**IXA24808TL**	5300 N	4200 N
	10				3 - 5	**IXA24810TL**		
	12				5 - 7	**IXA24812TL**		
	14				7 - 9	**IXA24814TL**		
	16				9 - 11	**IXA24816TL**		
	18				11 - 13	**IXA24818TL**		
	20				13 - 15	**IXA24820TL**		

IX-A2 - TXL

TESTA EXTRA LARGA
EXTRA LARGE HEAD

boccola / *body*
acciaio inox A2 / *stainless steel A2*
mandrino / *mandrel*
acciaio inox A2 / *stainless steel A2*



4,8	**8**	16	1,8	4,9	1,5 - 3	**IXA24808TXL**	5300 N	4200 N
	10				3 - 5	**IXA24810TXL**		
	12				5 - 7	**IXA24812TXL**		
	14				7 - 9	**IXA24814TXL**		
	16				9 - 11	**IXA24816TXL**		
	18				11 - 13	**IXA24818TXL**		
	20				13 - 15	**IXA24820TXL**		
	22				16 - 18	**IXA24822TXL**		
	25				18 - 20	**IXA24825TXL**		
	30				20 - 25	**IXA24830TXL**		

RIVETTI A STRAPPO STANDARD
STANDARD BLIND RIVETS

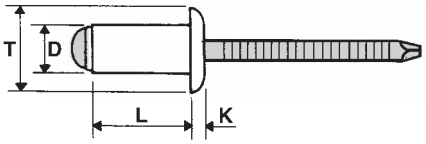
D	L	T	K	ø foro/hole		CODICE *code*		
3,0	**6** **8** **10**	6,5	0,8	3,1	1,5 - 2,5 2,5 - 4,5 4,5 - 6,5	**IXA43006TT** **IXA43008TT** **IXA43010TT**	2000 N	1600 N
3,2	**6** **8** **10** **12** **14** **16**	6,5	0,8	3,3	1,5 - 2,5 2,5 - 4,5 4,5 - 6,5 6,5 - 8,5 8,5 - 12 12 - 15	**IXA43206TT** **IXA43208TT** **IXA43210TT** **IXA43212TT** **IXA43214TT** **IXA43216TT**	2500 N	1800 N
4,0	**6** **8** **10** **12** **14** **16**	8,0	1,0	4,1	1 - 2 2 - 4 4 - 6 6 - 8 8 - 10 10 - 12	**IXA44006TT** **IXA44008TT** **IXA44010TT** **IXA44012TT** **IXA44014TT** **IXA44016TT**	3800 N	3100 N
4,8	**8** **10** **12** **14** **16** **18**	9,5	1,1	4,9	1,5 - 3 3 - 5 5 - 7 7 - 9 9 - 11 11 - 13	**IXA44808TT** **IXA44810TT** **IXA44812TT** **IXA44814TT** **IXA44816TT** **IXA44818TT**	6000 N	4500 N

IX-A4 - TT

TESTA TONDA
DOME HEAD

boccola / *body*
acciaio inox A4 / *stainless steel A4*

mandrino / *mandrel*
acciaio inox A4 / *stainless steel A4*



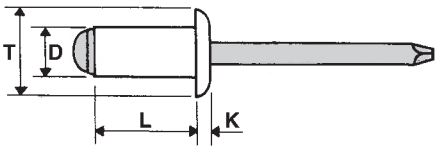
RIVETTI A STRAPPO STANDARD
STANDARD BLIND RIVETS

CU - TT

TESTA TONDA
DOME HEAD

boccola / *body*
rame / *copper*

mandrino / *mandrel*
acciaio zincato / *steel zinc plated*



D	L	T	K	ø foro/hole		CODICE *code*		
3,0	**5**	6	0,8	3,1	0,5 - 2	**CU3005TT**	950 N	650 N
	6				1 - 3	**CU3006TT**		
	7				2 - 4	**CU3007TT**		
	9				4 - 6	**CU3009TT**		
	11				6 - 8	**CU3011TT**		
	12				7 - 9	**CU3012TT**		
3,2	**6**	6,5	0,8	3,3	1 - 3	**CU3206TT**	950 N	650 N
	7				2 - 4	**CU3207TT**		
	9				4 - 6	**CU3209TT**		
	11				6 - 8	**CU3211TT**		
	12				7 - 9	**CU3212TT**		
3,4	**7**	7	0,8	3,5	2 - 4	**CU3407TT**	1100 N	800 N
	9				4 - 6	**CU3409TT**		
	11				6 - 8	**CU3411TT**		
	12				7 - 9	**CU3412TT**		
	14				9 - 11	**CU3414TT**		
4,0	**6**	8	1,0	4,1	1 - 2	**CU4006TT**	1900 N	1300 N
	7				2 - 3,5	**CU4007TT**		
	9				4 - 5,5	**CU4009TT**		
	11				6 - 7,5	**CU4011TT**		
	12				7 - 8,5	**CU4012TT**		
	14				8 - 10,5	**CU4014TT**		
	16				10 - 12,5	**CU4016TT**		
4,8	**8**	9,5	1,1	5,0	1,5 - 3,5	**CU4808TT**	2000 N	1500 N
	10				3,5 - 5,5	**CU4810TT**		
	12				5,5 - 7,5	**CU4812TT**		
	14				7,5 - 9,5	**CU4814TT**		
	16				9,5 - 11,5	**CU4816TT**		
	18				11,5 - 13,5	**CU4818TT**		
	20				13,5 - 15,5	**CU4820TT**		

RIVETTI A STRAPPO STANDARD
STANDARD BLIND RIVETS

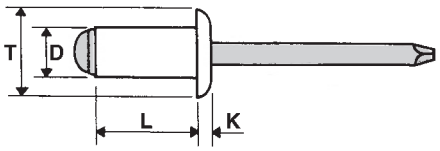
D	L	T	K	Ø foro/hole		CODICE *code*		
3,2	**6** **7** **9** **11** **12**	6,5	0,8	3,3	1 - 3 2 - 4 4 - 6 6 - 8 7 - 9	**CUO3206TT** **CUO3207TT** **CUO3209TT** **CUO3211TT** **CUO3212TT**	1200 N	900 N
3,4	**7** **9** **11** **12** **14**	7	0,8	3,5	2 - 4 4 - 6 6 - 8 7 - 9 9 - 11	**CUO3407TT** **CUO3409TT** **CUO3411TT** **CUO3412TT** **CUO3414TT**	1400 N	1000 N
4,0	**6** **7** **9** **11** **12** **14** **16**	8	1,0	4,1	1 - 2 2 - 3,5 4 - 5,5 6 - 7,5 7 - 8,5 8 - 10,5 10 - 12,5	**CUO4006TT** **CUO4007TT** **CUO4009TT** **CUO4011TT** **CUO4012TT** **CUO4014TT** **CUO4016TT**	2200 N	1650 N

CUO - TT

TESTA TONDA
DOME HEAD

boccola / *body*
rame / *copper*

mandrino / *mandrel*
ottone / *brass*

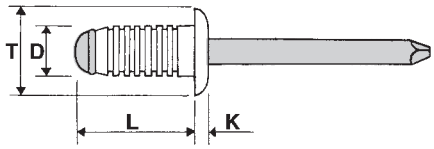


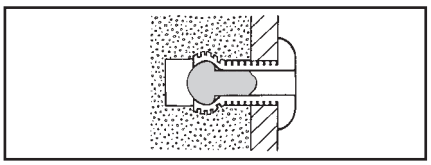
RIVETTI A STRAPPO RULLATI
GROOVED RIVETS

AL-RUL - TT

TESTA TONDA
DOME HEAD

boccola / *body*
alluminio / *aluminium*
mandrino / *mandrel*
acciaio zincato / *steel zinc plated*

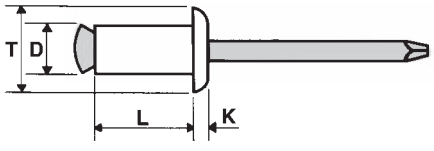


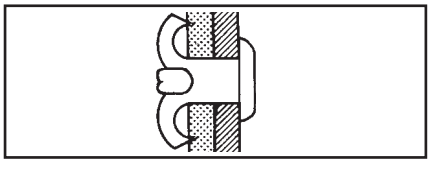


D	L	T	K	ø foro/hole		CODICE *code*		
3,2	10 14	6	1,4	3,4	MAX 6 MAX10	ALRUL3210TT ALRUL3214TT	930 N	525 N
4,0	8 10 12 16	8	1,7	4,3	MAX 4 MAX 6 MAX 8 MAX 12	ALRUL4008TT ALRUL4010TT ALRUL4012TT ALRUL4016TT	1410 N	885 N
4,8	8 10 11 12 14 16 18 20 25 30	9,5	2,0	5,1	MAX 4 MAX 6 MAX 7 MAX 8 MAX 10 MAX 12 MAX 14 MAX 16 MAX 21 MAX26	ALRUL4808TT ALRUL4810TT ALRUL4811TT ALRUL4812TT ALRUL4814TT ALRUL4816TT ALRUL4818TT ALRUL4820TT ALRUL4825TT ALRUL4830TT	1575 N	1185 N

FA - TT

TESTA TONDA
DOME HEAD
boccola / *body*
alluminio / *aluminium*
mandrino / *mandrel*
acciaio zincato / *steel zinc plated*





D	L	T	K	ø foro/hole		CODICE *code*		
3,2	8 10 12	6	0,8	3,5	0,5 - 1 1 - 3 3 - 5	FA3208TT FA3210TT FA3212TT	700 N	765 N
4,0	10 12 16 20 24 30	8	1,2	4,3	1,5 - 5 3 - 6 6 - 10 10 - 14 14 - 18 18 - 24	FA4010TT FA4012TT FA4016TT FA4020TT FA4024TT FA4030TT	1150 N	1260 N
4,8	10 12 14 16 20 24 30 35 40 45 50	10	1,3	5,2	0,5 - 4 2 - 6 4 - 8 5 - 10 10 - 14 14 - 18 18 - 22 22 - 27 27 - 32 32 - 37 37 - 42	FA4810TT FA4812TT FA4814TT FA4816TT FA4820TT FA4824TT FA4830TT FA4835TT FA4840TT FA4845TT FA4850TT	2400 N	2200 N

RIVETTI PER MATERIE PLASTICHE
BLIND RIVETS FOR PLASTIC

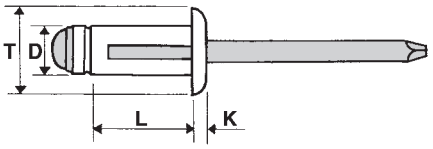
D	L	T	K	ø foro/hole		CODICE *code*		
4,0	**13,6** **18,8**	8	1,4	4,3	1 - 3 3 - 7	**ALSOF4014TT** **ALSOF4019TT**	800 N	500 N
4,8	**15,3** **20,5** **24,5**	9,6	1,6	5,1	1 - 3 3 - 9 5 - 12	**ALSOF4815TT** **ALSOF4821TT** **ALSOF4825TT**	1100 N	900 N

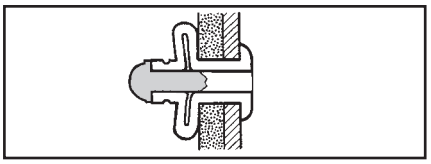
AL-SOF - TT

TESTA TONDA
DOME HEAD

boccola / *body*
alluminio / *aluminium*

mandrino / *mandrel*
alluminio / *aluminium*





D	L	T	K	ø foro/hole		CODICE *code*		
5,2	**17,5** **22,2** **25,4** **28,6** **31,8**	11,7	2,2	5,3	0,5 - 4,8 4,8 - 9,5 7,9 - 12,7 11,1 - 15,9 14,3 - 19,1	**ALSOF5218TTO** **ALSOF5222TTO** **ALSOF5225TTO** **ALSOF5229TTO** **ALSOF5232TTO**	3200 N	2000 N

AL-SOF - TTO

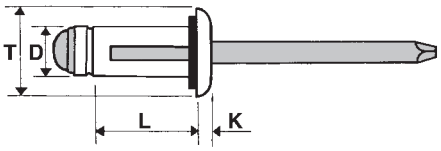
TESTA TONDA
DOME HEAD

boccola / *body*
alluminio / *aluminium*

mandrino / *mandrel*
alluminio / *aluminium*

La rondella in neoprene garantisce la tenuta stagna

Good seal thanks to neoprene washer

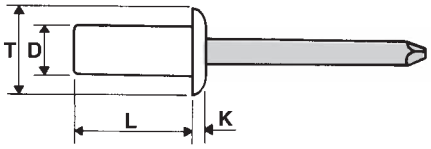


RIVETTI A STRAPPO TENUTA STAGNA
SEALED BLIND RIVETS

TST-AL - TT

TESTA TONDA
DOME HEAD

boccola / *body*
alluminio / *aluminium*
mandrino / *mandrel*
acciaio / *steel*

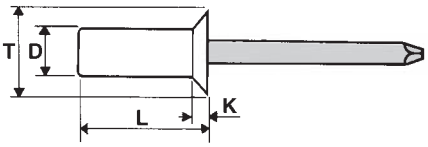


D	L	T	K	ø foro/hole		CODICE *code*		
3,2	**6,5** **8** **9,5** **10,7** **12,5**	6	1,4	3,3	0,5 - 2 2 - 3,5 3,5 - 5 5 - 6,5 6,5 - 8	**TSTAL3206TT** **TSTAL3208TT** **TSTAL3210TT** **TSTAL3211TT** **TSTAL3212TT**	1250 N	1070 N
4,0	**8** **9,5** **11** **12,5** **15**	8	1,7	4,1	1 - 3,5 3,5 - 4,5 4,5 - 6,5 6,5 - 8 8 - 10,5	**TSTAL4008TT** **TSTAL4010TT** **TSTAL4011TT** **TSTAL4012TT** **TSTAL4014TT**	2240 N	1700 N
4,8	**8** **9,5** **11** **12,5** **14** **16** **18** **21** **25**	9	2,0	4,9	1 - 3 3 - 4,5 4,5 - 6 6 - 7,5 7,5 - 9 9 - 11 11 -13 13 -16 16 - 20	**TSTAL4808TT** **TSTAL4810TT** **TSTAL4811TT** **TSTAL4812TT** **TSTAL4814TT** **TSTAL4816TT** **TSTAL4818TT** **TSTAL4821TT** **TSTAL4825TT**	3100 N	2200 N
6,4	**12,5** **16**	12,7	2,5	6,5	4 - 6 6 - 8	**TSTAL6413TT** **TSTAL6416TT**	4900 N	3950 N

TST-AL - TS

TESTA SVASATA
COUNTERSUNK HEAD

boccola / *body*
alluminio / *aluminium*
mandrino / *mandrel*
acciaio / *steel*



3,2	**7,5** **9** **10,5** **12** **13**	6	-	3,3	1,5 - 3,5 3,5 - 4,5 4,5 - 6,5 5,5 - 7,5 7,5 - 9	**TSTAL3207TS** **TSTAL3209TS** **TSTAL3211TS** **TSTAL3212TS** **TSTAL3213TS**	1250 N	1070 N
4,0	**9,5** **11** **12,5** **14**	8	-	4,1	2 - 5 5 - 6,5 6 - 8 7,5 - 9	**TSTAL4009TS** **TSTAL4011TS** **TSTAL4013TS** **TSTAL4014TS**	2240 N	1700 N
4,8	**9,5** **11** **12,5** **14** **15,5** **17** **19** **24**	9,5	-	4,9	2,5 - 4,5 4,5 - 6 6 - 7,5 7,5 - 9 9 - 10,5 10,5 - 12 12 - 14 14 - 18,5	**TSTAL4810TS** **TSTAL4811TS** **TSTAL4812TS** **TSTAL4814TS** **TSTAL4816TS** **TSTAL4817TS** **TSTAL4819TS** **TSTAL4824TS**	3100 N	2200 N

RIVETTI A STRAPPO TENUTA STAGNA
SEALED BLIND RIVETS

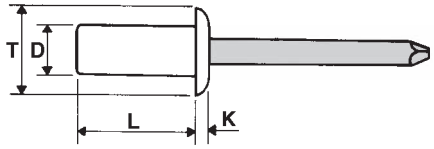
D	L	T	K	ø foro/hole		CODICE *code*		
3,2	**6,5** **8** **9,5** **10,7** **12,5**	6	1,4	3,3	0,5 - 2 2 - 3,5 3,5 - 5 5 - 6,5 6,5 - 8	**TSTALX3207TT** **TSTALX3208TT** **TSTALX3210TT** **TSTALX3211TT** **TSTALX3213TT**	1250 N	1070 N
4,0	**8** **9,5** **11** **12,5** **15**	8	1,7	4,1	1 - 3,5 3,5 - 4,5 4,5 - 6,5 6,5 - 8 8 - 10,5	**TSTALX4008TT** **TSTALX4010TT** **TSTALX4011TT** **TSTALX4013TT** **TSTALX4015TT**	2240 N	1700 N
4,8	**8** **9,5** **11** **12,5** **14** **16** **18** **21** **25**	9	2,0	4,9	1 - 3 3 - 4,5 4,5 - 6 6 - 7,5 7,5 - 9 9 - 11 11 - 13 13 - 16 16 - 20	**TSTALX4808TT** **TSTALX4810TT** **TSTALX4811TT** **TSTALX4813TT** **TSTALX4814TT** **TSTALX4816TT** **TSTALX4818TT** **TSTALX4821TT** **TSTALX4825TT**	3100 N	2200 N

TST-ALX - TT

TESTA TONDA
DOME HEAD

boccola / *body*
alluminio / *aluminium*

mandrino / *mandrel*
acciaio inox A2 / *stainless steel A2*



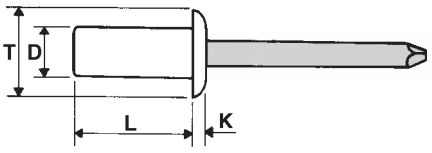
D	L	T	K	ø foro/hole		CODICE *code*		
3,2	**6** **8** **9,5** **12**	6	1	3,3	0,5 - 1,5 1,5 - 3 3 - 5 5 - 6,5	**TSTAOZ3206TT** **TSTAOZ3208TT** **TSTAOZ3209TT** **TSTAOZ3212TT**	2200 N	1600 N
4,0	**6** **8** **10** **12** **15**	8	1,4	4,1	0,5 - 1,5 1,5 - 3 3 - 5 5 - 6,5 6,5 - 10,5	**TSTAOZ4006TT** **TSTAOZ4008TT** **TSTAOZ4010TT** **TSTAOZ4012TT** **TSTAOZ4015TT**	2500 N	2300 N
4,8	**8** **9,5** **12** **16**	9,5	1,7	4,9	1 - 3 3 - 4,5 4,5 - 6 6 - 10,5	**TSTAOZ4808TT** **TSTAOZ4809TT** **TSTAOZ4812TT** **TSTAOZ4816TT**	3800 N	2900 N

TST-AOZ - TT

TESTA TONDA
DOME HEAD

boccola / *body*
acciaio zincato / *steel zinc plated*

mandrino / *mandrel*
acciaio zincato / *steel zinc plated*



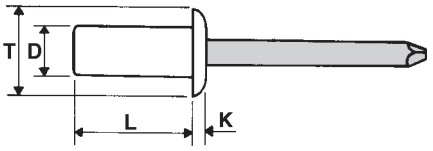
RIVETTI A STRAPPO TENUTA STAGNA
SEALED BLIND RIVETS

TST-CU - TT

TESTA TONDA
DOME HEAD

boccola / *body*
rame / *copper*

mandrino / *mandrel*
acciaio / *steel zinc plated*



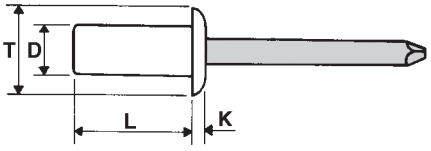
D	L	T	K	ø foro/hole		CODICE *code*		
3,2	**6** **7,5** **9** **12**	6	1,4	3,3	1 - 1,6 1,6 - 3,2 3,2 - 4,8 4,8 - 8	**TSTCU3206TT** **TSTCU3207TT** **TSTCU3209TT** **TSTCU3212TT**	1420 N	1020 N
4,0	**8** **9,5** **12,5**	8	1,7	4,1	0,5 - 3,5 3 - 4,8 4,8 - 8	**TSTCU4008TT** **TSTCU4009TT** **TSTCU4012TT**	2260 N	1550 N
4,8	**8,5** **11,5**	9,5	2,0	5,0	2 - 3,2 3,2 - 6,4	**TSTCU4808TT** **TSTCU4811TT**	3110 N	2130 N

TST-CUX - TT

TESTA TONDA
DOME HEAD

boccola / *body*
rame / *copper*

mandrino / *mandrel*
acciaio inox A2 / *stainless steel A2*



3,2	**6** **7,5** **9** **12**	6	1,4	3,3	1 - 1,6 1,6 - 3,2 3,2 - 4,8 4,8 - 8	**TSTCUX3206TT** **TSTCUX3207TT** **TSTCUX3209TT** **TSTCUX3212TT**	1300 N	850 N
4,0	**8** **9,5**	8	1,7	4,1	0,5 - 3,5 3 - 4,8	**TSTCUX4008TT** **TSTCUX4009TT**	2000 N	1350 N

RIVETTI A STRAPPO TENUTA STAGNA
SEALED BLIND RIVETS

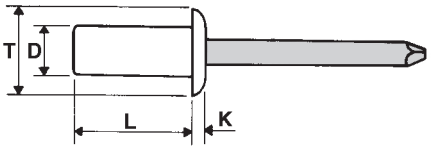
D	L	T	K	ø foro/hole		CODICE *code*		
3,2	**6** **8** **9,5** **12**	6	1,4	3,3	0,5 - 1,5 1,5 - 3 3 - 5 5 - 7	**TSTIX3206TT** **TSTIX3208TT** **TSTIX3210TT** **TSTIX3212TT**	2500 N	2000 N
4,0	**6** **8** **10** **12** **15**	8	1,7	4,1	0,5 - 1,5 1,5 - 3 3 - 5 5 - 6,5 6,5 -10,5	**TSTIX4006TT** **TSTIX4008TT** **TSTIX4010TT** **TSTIX4012TT** **TSTIX4015TT**	4000 N	3000 N
4,8	**8** **9,5** **12** **16** **20**	9,5	2	4,9	1 - 3 3 - 4,5 4,5 - 6 6 - 10,5 10,5 - 14	**TSTIX4808TT** **TSTIX4810TT** **TSTIX4812TT** **TSTIX4816TT** **TSTIX4820TT**	5500 N	4500 N
6,4	**14** **15,5** **20**	12,5	-	6,5	3,5 - 6,5 6,5 - 8 8 - 12,8	**TSTIX6414TT** **TSTIX6415TT** **TSTIX6420TT**	8700 N	6800 N

TST-IX - TT

TESTA TONDA
DOME HEAD

boccola / *body*
acciaio inox 304 / *stainless steel 304*

mandrino / *mandrel*
acciaio inox 420 / *stainless steel 420*

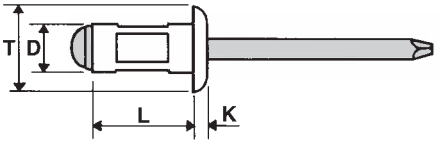


RIVETTI A STRAPPO MULTIFIX
MULTIGRIP BLIND RIVETS

MX-AL - TT

TESTA TONDA
DOME HEAD

boccola / *body*
alluminio Mg. 2,5 / *aluminium Mg. 2,5*
mandrino / *mandrel*
acciaio zincato / *steel zinc plated*

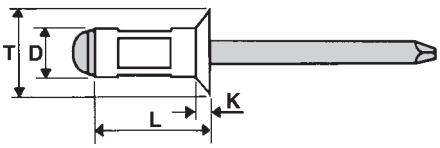


D	L	T	K	ø foro/hole		CODICE *code*		
3,0	**6**	6	1,4	3,1	1 - 3	**MXAL3006TT**	810 N	620 N
	8				0,5 - 5	**MXAL3008TT**		
	10				2 - 6,5	**MXAL3010TT**		
	12				5 - 9,5	**MXAL3012TT**		
3,2	**6**	6	1,4	3,3	0,5 - 4	**MXAL3206TT**	980 N	760 N
	8				0,5 - 5	**MXAL3208TT**		
	9,5				2 - 6,5	**MXAL3210TT**		
	11				4 - 9	**MXAL3211TT**		
	12,5				5 - 9,5	**MXAL3212TT**		
	14				6,5 - 11	**MXAL3214TT**		
	16				8,5 -13	**MXAL3216TT**		
4,0	**8**	8	1,7	4,1	1 - 5	**MXAL4008TT**	1600 N	1200 N
	9,5				1 - 6	**MXAL4010TT**		
	12,5				4 - 9	**MXAL4012TT**		
	17				8,5 - 13,5	**MXAL4017TT**		
	18				9,5 - 14,5	**MXAL4018TT**		
	20				11,5 - 16,5	**MXAL4020TT**		
4,8	**11**	9,5	2,0	4,9	1 - 5	**MXAL4811TT**	2350 N	1690 N
	12,5				3 - 7,5	**MXAL4813TT**		
	15				5 - 10	**MXAL4815TT**		
	17				7 - 12	**MXAL4817TT**		
	20				10 - 15	**MXAL4820TT**		
	24,8				14,5 - 19,5	**MXAL4825TT**		
	27				17 - 23	**MXAL4827TT**		
	30				20 - 25	**MXAL4830TT**		

MX-AL - TS

TESTA SVASATA
COUNTERSUNK HEAD

boccola / *body*
alluminio Mg. 2,5 / *aluminium Mg. 2,5*
mandrino / *mandrel*
acciaio zincato / *steel zinc plated*



3,2	**8**	6	-	3,3	1,5 - 5	**MXAL3208TS**	980 N	760 N
	9,5				2,5 - 6,5	**MXAL3210TS**		
	12,5				5 - 9,5	**MXAL3212TS**		
	14				6,5 - 11	**MXAL3214TS**		
	16				8,5 - 13	**MXAL3216TS**		
4,0	**8**	8	-	4,1	1,5 - 5	**MXAL4008TS**	1600 N	1200 N
	9,5				2,5 - 6,5	**MXAL4010TS**		
	12,5				4 - 9	**MXAL4012TS**		
	14				5 - 10,5	**MXAL4014TS**		
	17				8,5 - 13,5	**MXAL4017TS**		
	18				9 - 14,5	**MXAL4018TS**		
	20				11 - 16,5	**MXAL4020TS**		
4,8	**10**	9,5	-	4,9	2,5 - 5	**MXAL4810TS**	2350 N	1690 N
	12,5				3 - 7,5	**MXAL4812TS**		
	15				5 - 10	**MXAL4815TS**		
	17				7 - 12	**MXAL4817TS**		
	20				10 - 15	**MXAL4820TS**		
	22				12 - 18	**MXAL4822TS**		
	24				14 - 20	**MXAL4824TS**		
	27				17 - 23	**MXAL4827TS**		
	30				20 - 25	**MXAL4830TS**		

RIVETTI A STRAPPO MULTIFIX
MULTIGRIP BLIND RIVETS

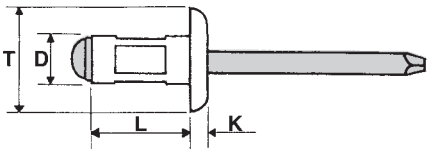
D	L	T	K	ø foro/hole		CODICE *code*		
3,2	**8** **9,5** **12,5** **14** **16**	9,5	2,0	3,3	0,5 - 5 2 - 6,5 5 - 9,5 6,5 - 11 8,5 - 13	**MXAL3208TL** **MXAL3210TL** **MXAL3212TL** **MXAL3214TL** **MXAL3216TL**	980 N	760 N
4,0	**9,5** **12,5** **14** **17** **18** **20**	12,0	2,5	4,1	1 - 6 4 - 9 5,5 - 10,5 8,5 - 13,5 9,5 - 15,5 11,5 - 16,5	**MXAL4010TL** **MXAL4012TL** **MXAL4014TL** **MXAL4017TL** **MXAL4018TL** **MXAL4020TL**	1600 N	1200 N
4,8	**10** **12,5** **15** **17** **20**	14	2,5	4,9	1 - 5 3 - 7,5 5 - 10 7 - 12 10 -15	**MXAL4810TL** **MXAL4812TL** **MXAL4815TL** **MXAL4817TL** **MXAL4820TL**	2350 N	1690 N

MX-AL - TL

TESTA LARGA
LARGE HEAD

boccola / *body*
alluminio Mg. 2,5 / *aluminium Mg. 2,5*

mandrino / *mandrel*
acciaio zincato / steel zinc plated



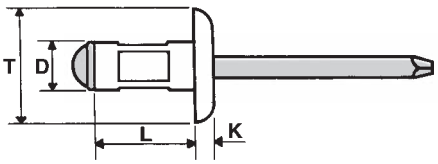
D	L	T	K	ø foro/hole		CODICE *code*		
4,8	**10** **12,5** **15** **17** **20** **24,8** **27**	16	2,5	4,9	1 - 5 3 - 7,5 5 - 10 7 - 12 10 - 15 14,5 - 19,5 15 - 23	**MXAL4810TXL** **MXAL4812TXL** **MXAL4815TXL** **MXAL4817TXL** **MXAL4820TXL** **MXAL4824TXL** **MXAL4827TXL**	2350 N	1690 N

MX-AL - TXL

TESTA EXTRA LARGA
EXTRA LARGE HEAD

boccola / *body*
alluminio Mg. 2,5 / *aluminium Mg. 2,5*

mandrino / *mandrel*
acciaio zincato / steel zinc plated

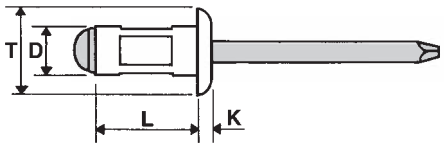


RIVETTI A STRAPPO MULTIFIX
MULTIGRIP BLIND RIVETS

MX-ALX - TT

TESTA TONDA
DOME HEAD

boccola / *body*
alluminio Mg. 2,5 / *aluminium Mg. 2,5*
mandrino / *mandrel*
acciaio inox A2 / *stainless steel A2*

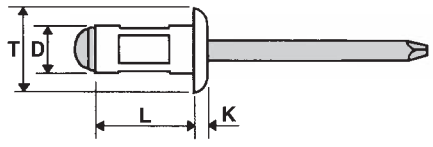


D	L	T	K	ø foro/hole		CODICE *code*		
3,0	**8** **9,5** **12,5**	6	1,4	3,1	0,5 - 5 2 - 6,5 5 - 9,5	**MXALX3008TT** **MXALX3010TT** **MXALX3013TT**	810 N	620 N
3,2	**8** **9,5** **12,5**	6	1,4	3,3	0,5 - 5 2 - 6,5 5 - 9,5	**MXALX3208TT** **MXALX3210TT** **MXALX3213TT**	980 N	760 N
4,0	**9,5** **12,5** **16,9**	8	1,7	4,1	1 - 6 4 - 9 8,5 - 13,5	**MXALX4009TT** **MXALX4012TT** **MXALX4016TT**	1600 N	1200 N
4,8	**10** **12,5** **15** **16,9** **20** **24,8**	9,5	2	5,0	1 - 5 3 - 7,5 5,1 - 10 6,9 - 12 10 - 15 14,5 - 19,5	**MXALX4810TT** **MXALX4813TT** **MXALX4815TT** **MXALX4816TT** **MXALX4820TT** **MXALX4824TT**	2350 N	1690 N

MX-AOZ - TT

TESTA TONDA
DOME HEAD

boccola / *body*
acciaio zincato / *steel zinc plated*
mandrino / *mandrel*
acciaio zincato / *steel zinc plated*



D	L	T	K	ø foro/hole		CODICE *code*		
3,2	**7** **9** **11**	7,2	1	3,3	1 - 3,5 2 - 5,5 4 - 7	**MXAOZ3207TT** **MXAOZ3209TT** **MXAOZ3211TT**	1700 N	1500 N
4,0	**10,8** **12,5** **15**	8,1	1,2	4,1	1,5 - 4,5 3 - 6,5 5,5 - 8,5	**MXAOZ4011TT** **MXAOZ4013TT** **MXAOZ4015TT**	2350 N	1955 N
4,8	**10,2** **12,7** **13,5** **17,5**	9,8	1,75	4,9	1,5 - 4,5 3,5 - 7,5 6 - 8,5 8 - 12	**MXAOZ4810TT** **MXAOZ4813TT** **MXAOZ4814TT** **MXAOZ4818TT**	3600 N	3335 N

RIVETTI STRUTTURALI AD ALTA TENUTA
STRUCTURAL RIVETS

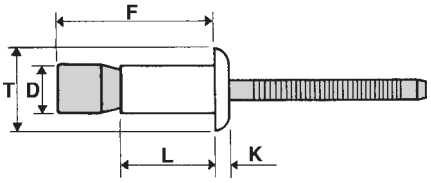
- **Elevata resistenza alle vibrazioni e buona tenuta ermetica**
- ***High resistance to vibrations and good seal***

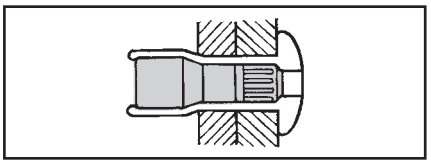
D	L	T	K	F	ø		CODICE code		
4,8	**10** **14**	9,6	2,4	18,3 25,5	4,9	1,6 - 6,4 1,6 - 11,1	**MFX4810TT** **MFX4814TT**	4800 N	6000 N
6,4	**14** **20**	13	3,1	25,0 35,0	6,6	2 - 9,5 2 - 15,9	**MFX6414TT** **MFX6420TT**	8240 N	10690 N

MFX - TT

TESTA TONDA
DOME HEAD

boccola / *body*
acciaio zincato / *steel zinc plated*
mandrino / *mandrel*
acciaio zincato / *steel zinc plated*



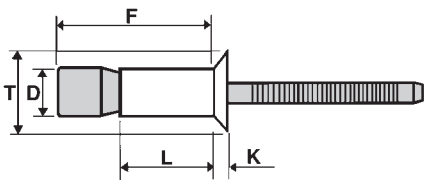


D	L	T	K	F	ø		CODICE code		
4,8	**13** **16**	8,5	1,9	20 26	4,9	3,6 - 7,9 3,6 - 12,7	**MFX4813TS** **MFX4816TS**	4800 N	6000 N
6,4	**17** **22**	10,2	2,2	27	6,6	5 - 11,1 5- 17,5	**MFX6417TS** **MFX6422TS**	8240 N	10690 N

MFX - TS

TESTA SVASATA
COUNTERSUNK HEAD

boccola / *body*
acciaio zincato / *steel zinc plated*
mandrino / *mandrel*
acciaio zincato / *steel zinc plated*



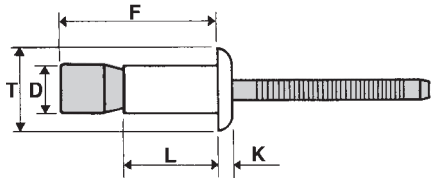
RIVETTI STRUTTURALI AD ALTA TENUTA
STRUCTURAL RIVETS

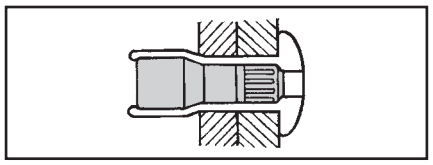
- **Elevata resistenza alle vibrazioni e buona tenuta ermetica**
- ***High resistance to vibrations and good seal***

MFX - TT AL

TESTA TONDA
DOME HEAD

boccola / *body*
alluminio / *aluminium*
mandrino / *mandrel*
alluminio / *aluminium*



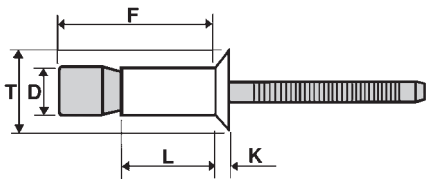


D	L	T	K	F	ø		CODICE code		
4,8	**10,9** **14,2**	10	2,0	18,3 24	5,0	1,6 - 6,9 1,6 - 11,1	**MFX4810TTAL** **MFX4814TTAL**	2200 N	3000 N
6,4	**14,6** **19,7**	13	2,5	24,5 34,7	6,6	2 - 9,5 2 - 15,9	**MFX6414TTAL** **MFX6420TTAL**	4200 N	6000 N

MFX - TS AL

TESTA SVASATA
COUNTERSUNK HEAD

boccola / *body*
alluminio / *aluminium*
mandrino / *mandrel*
alluminio / *aluminium*



D	L	T	K	F	ø		CODICE code		
4,8	**12,7** **15,9**	8,25	2	20 26,2	5,0	3,2 - 8,4 1,6 - 11,1	**MFX4813TSAL** **MFX4816TSAL**	2100 N	2800 N
6,4	**17,2**	10	2,2	27,2	6,6	3,2- 12,1	**MFX6417TSAL**	4200 N	6000 N

RIVETTI STRUTTURALI AD ALTA TENUTA
STRUCTURAL RIVETS

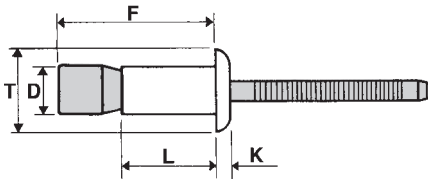
- **Elevata resistenza alle vibrazioni e buona tenuta ermetica**
- ***High resistance to vibrations and good seal***

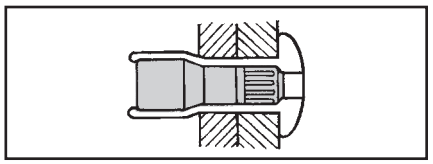
MFX - TT IX

TESTA TONDA
DOME HEAD

boccola / *body*
acciaio inox 304 / *stainless steel 304*
mandrino / *mandrel*
acciaio inox 304 / *stainless steel 304*

D	L	T	K	F	ø		CODICE code		
4,8	**10** **14**	9,6	2,4	18 25	4,9	1,6 - 6,4 1,6 - 11,1	**MFX4810TTIX** **MFX4814TTIX**	5700 N	6700 N
6,4	**14** **20**	13	3,1	24 33	6,6	2 - 9,5 2 - 15,9	**MFX6414TTIX** **MFX6420TTIX**	8700 N	10700 N



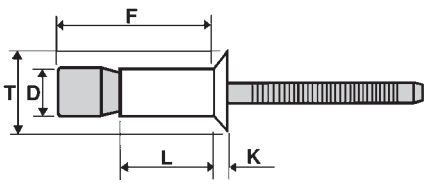


MFX - TS IX

TESTA SVASATA
COUNTERSUNK HEAD

boccola / *body*
acciaio inox 304 / *stainless steel 304*
mandrino / *mandrel*
acciaio inox 304 / *stainless steel 304*

D	L	T	K	F	ø		CODICE code		
4,8	**12** **16**	8,5	1,9	18 25	4,9	3,6 - 7,9 3,6 - 12,7	**MFX4812TSIX** **MFX4816TSIX**	5700 N	6700 N
6,4	**16** **22**	10,2	2,2	18 25	6.6	5 - 11,1 5 - 17,5	**MFX6416TSIX** **MFX6422TSIX**	8700 N	10700 N



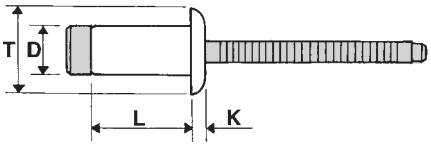
RIVETTI STRUTTURALI AD ALTA TENUTA
STRUCTURAL RIVETS

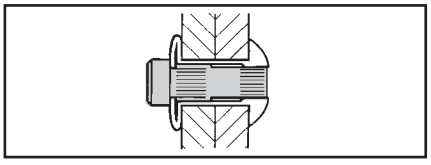
- **La controtesta più larga garantisce maggiore tenuta e non deforma i materiali a lastra sottile**
  For thin sheet applications
- **E' resistente all'acqua ed alle vibrazioni**
  Good resistance to vibrations and good seal

MBX - TT

TESTA TONDA
DOME HEAD

boccola / *body*
acciaio zincato / *steel zinc plated*
mandrino / *mandrel*
acciaio zincato / *steel zinc plated*





D	L	T	K	ø		CODICE *code*	N	N
	7				1 - 3	**MBX3207TT**		
3,2	9	6,5	1,4	3,3	3 - 5	**MBX3209TT**	1300	1600
	11				5 - 7	**MBX3211TT**		
	7,5				1 - 3	**MBX4008TT**		
4,0	**9,5**	8	1,7	4,1	3 - 5	**MBX4010TT**	2800	3500
	12,5				5 - 7	**MBX4012TT**		
	10				1,5 - 3,5	**MBX4810TT**		
4,8	**12**	9,5	2	4,9	3,5 - 6	**MBX4812TT**	3800	4200
	14				6 - 8,5	**MBX4814TT**		
	10				1,5 - 4	**MBX6010TT**		4200
6,0	**13**	12	1,8	6,1	3 - 6	**MBX6013TT**	5400	5400
	16				6 - 9	**MBX6016TT**		8500
	19				9 - 12	**MBX6019TT**		8500
	9				1,5 -3,5	**MBX6409TT**		8900
	10				2,8 - 4,8	**MBX6410TT**		10200
	11				3,4 - 5,4	**MBX6411TT**		10600
6,4	**12**	13	3	6,6	4,8 - 6,8	**MBX6412TT**	7100	10600
	14				6,8 -8,8	**MBX6414TT**		12700
	16				8,8 -10,8	**MBX6416TT**		13600
	18				10,8 -12,8	**MBX6418TT**		13600

RIVETTI STRUTTURALI AD ALTA TENUTA
STRUCTURAL RIVETS

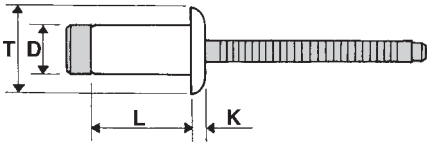
- **La controtesta più larga garantisce maggiore tenuta e non deforma i materiali a lastra sottile**
  For thin sheet applications
- **E' resistente all'acqua ed alle vibrazioni**
  Good resistance to vibrations and good seal

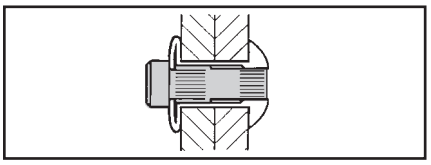
D	L	T	K	ø		CODICE *code*	N	N
	6,6				1 - 3	**MBX3207TTIX**		
3,2	**9,2**	6,5	1,4	3,3	3 - 5	**MBX3209TTIX**	2000	1600
	11,5				5 - 7	**MBX3211TTIX**		
	8				1 - 3	**MBX4008TTIX**		
4,0	**10**	8	1,7	4,1	3 - 5	**MBX4010TTIX**	3800	4200
	12				5 - 7	**MBX4012TTIX**		
	10				1,5 - 3,5	**MBX4810TTIX**		
4,8	**12**	9,5	2	4,9	3,5 - 6	**MBX4812TTIX**	5000	5500
	14,3				6 - 8,5	**MBX4814TTIX**		
	9				1,5 -3,5	**MBX6409TTIX**		
	10				2,8 - 4,8	**MBX6410TTIX**		
	11				3,4 - 5,4	**MBX6411TTIX**		
6,4	**12**	13	3	6,6	4,8 - 6,8	**MBX6412TTIX**	8000	10000
	14				6,8 -8,8	**MBX6414TTIX**		
	16				8,8 -10,8	**MBX6416TTIX**		
	18				10,8 -12,8	**MBX6418TTIX**		

MBX - TT IX

TESTA TONDA
DOME HEAD

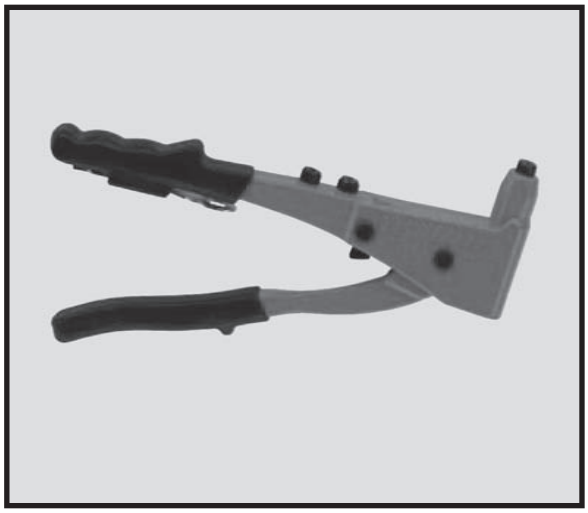
boccola / *body*
acciaio inox A2 /
stainless *steel A2*
mandrino / *mandrel*
acciaio inox A2 /
stainless *steel A2*





RIVETTATRICI MANUALI PER RIVETTI A STRAPPO
HAND TOOLS FOR BLIND RIVETS

ATTREZZATURE
TOOLS



150

UTILIZZO *CAPACITY* — **ø 2,4 - 5 mm.**

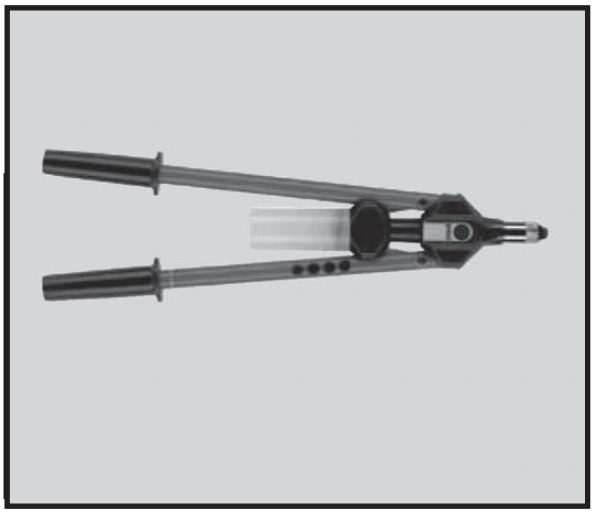
LUNGHEZZA *LENGHT* — **255 mm.**

EQUIPAGGIAMENTO *EQUIPMENT*
UGELLI *NOSE PIECES* — **ø 2,4 - 5 mm.**

MATERIALE DEL CORPO *BODY MATERIAL*
ALLUMINIO */ ALUMINIUM*

MATERIALE DELLA LEVA *LEVER MATERIAL*
FERRO */ STEEL*

PESO *WEIGHT* — **0,7 Kg.**



260

UTILIZZO *CAPACITY* — **ø 3 - 6,4 mm.**

LUNGHEZZA *LENGHT* — **500 mm.**

EQUIPAGGIAMENTO *EQUIPMENT*
UGELLI *NOSE PIECES* — **ø 3 - 6,4 mm.**

MATERIALE DEL CORPO *BODY MATERIAL*
PLASTICA CON PARTI IN ACCIAIO
PLASTIC WITH STEEL PARTS

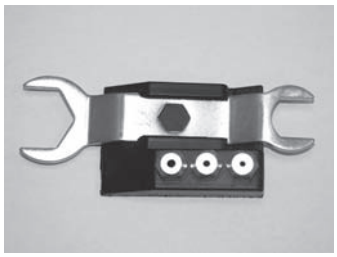
MATERIALE DELLA LEVA *LEVER MATERIAL*
FERRO */ STEEL*

PESO *WEIGHT* — **1,8 Kg.**

RIVETTATRICE A BATTERIA
BLIND RIVET BATTERY TOOL

DATI TECNICI:
TECHNICAL SPECIFICATION:

alluminio,rame	
aluminium, copper:	2,8 - 3,2 - 4,0 - 4,8 - 5,2 mm
acciaio,inox	
steel, stainless steel:	2,8 - 3,2- 4,0 - 4,8 mm
tensione della batteria	
battery power:	14,4 V (Li-ion) 3.0 Ah
forza di trazione	
traction power:	8500 N
corsa	
stroke:	20 mm
peso con batteria	
total weight:	2,1 Kg
caricabatteria intelligente	
fast charger:	14.4 V VDC
tensione in entrata	
power surce:	220V VAC, 50 Hz
tensione in uscita	
charging voltage:	14.4 V VDC
tempo di ricarica	
charging time:	60 min. at 20°



ACCESSORI E RICAMBI IN DOTAZIONE:
SPARE PARTS:

Seconda Batteria in dotazione Li-Ion	
Second Battery	14.4 V, 3 Ah
Caricabatteria intelligente	
Charger intelligent	
Ugelli	2,8 mm - 3,2 mm
Nose pieces	4,0 mm - 4,8 mm

ACCESSORI E RICAMBI A RICHIESTA:
SPARE PART ON REQUEST

Morsetti di ricambio
Jaws (2 pieces)
Spazzole di ricambio (2 pzi)
Brushes (2 pieces)
Corpo in nylon dx
Housing dx
Corpo in nylon sx
Housing sx
Prolunga
Extension

RIVETTATRICI PNEUMATICHE PER RIVETTI A STRAPPO
PNEUMATIC TOOLS FOR BLIND RIVETS

ATTREZZATURE
TOOLS

AP 1

UTILIZZO *CAPACITY*	**ø 2,4 - 5 mm.**
PRESSIONE DI UTILIZZO *PRESSURE REQUIRED*	**5 -7 BAR**
DIMENSIONI *DIMENSIONS*	**272 x 264mm.**
EQUIPAGGIAMENTO *EQUIPMENT* UGELLI *NOSE PIECES*	**ø 2,4-5 mm**
CORSA *STROKE*	**17 mm.**
FORZA (6 BAR) *TRACTION POWER (6 BAR)*	**7,3 KN**
PESO *WEIGHT*	**1.25 Kg.**

AP 2

UTILIZZO *CAPACITY*	**ø 4 - 6,4 mm.**
PRESSIONE DI UTILIZZO *PRESSURE REQUIRED*	**5-7 BAR**
DIMENSIONI *DIMENSIONS*	**272 x 275mm**
EQUIPAGGIAMENTO *EQUIPMENT* UGELLI *NOSE PIECES*	**ø 4 - 6,4 mm**
CORSA *STROKE*	**21 mm.**
FORZA (6 BAR) *TRACTION POWER (6 BAR)*	**12,5 KN**
PESO *WEIGHT*	**1.65 Kg.**

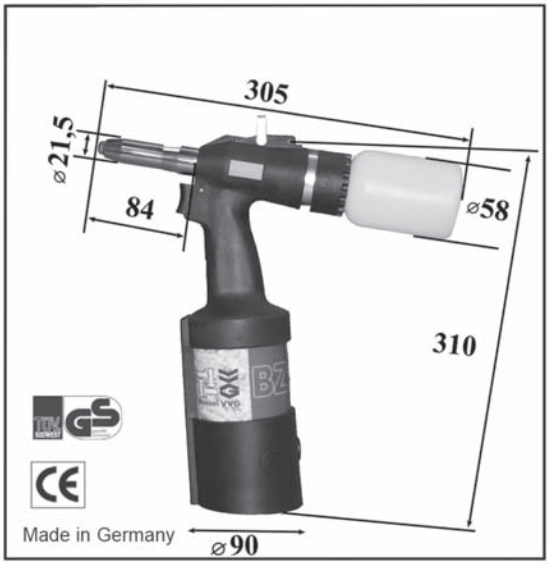
AP 3

UTILIZZO *CAPACITY*	**ø 4,0 - 6,4 mm.**
RIVETTI STRUTTURALI *STRUCTURAL RIVETS*	**ø 4,8 - 6,4 mm**
PRESSIONE DI UTILIZZO *PRESSURE REQUIRED*	**5-7 BAR**
DIMENSIONI *DIMENSIONS*	**292 x 290 x 125mm**
EQUIPAGGIAMENTO *EQUIPMENT* UGELLI *NOSE PIECES*	**ø 4,8 - 6,4 mm**
CORSA *STROKE*	**25 mm.**
FORZA (6 BAR) *TRACTION POWER (6 BAR)*	**16 KN**
PESO *WEIGHT*	**1.8 Kg.**

RIVETTATRICI PNEUMATICHE PER RIVETTI A STRAPPO

PNEUMATIC TOOLS FOR BLIND RIVETS

ATTREZZATURE
TOOLS



BZ 103

UTILIZZO *CAPACITY*	**ø 2,4 - 5 mm.**
PRESSIONE DI UTILIZZO *PRESSURE REQUIRED*	**5 -7 BAR**
DIMENSIONI *DIMENSIONS*	**305 x 310 mm.**
EQUIPAGGIAMENTO *EQUIPMENT* UGELLI *NOSE PIECES*	**ø 2,4-5 mm**
CORSA *STROKE*	**18 mm.**
FORZA *TRACTION POWER*	**11.750 N**
PESO *WEIGHT*	**1,86 Kg.**
VIBRAZIONI *VIBRATIONS*	**0,62 m/s2**

BZ 123

UTILIZZO *CAPACITY*	**ø 4,0 - 6,4 mm.**
RIVETTI STRUTTURALI *STRUCTURAL RIVETS*	**ø 4,8 - 6,4 mm**
PRESSIONE DI UTILIZZO *PRESSURE REQUIRED*	**5-7 BAR**
DIMENSIONI *DIMENSIONS*	**310 x 350 mm**
EQUIPAGGIAMENTO *EQUIPMENT* UGELLI *NOSE PIECES*	**ø 4 - 6,4 mm**
CORSA *STROKE*	**25 mm.**
FORZA *TRACTION POWER*	**17.730 N**
PESO *WEIGHT*	**2,41 Kg.**
VIBRAZIONI *VIBRATIONS*	**1,1 m/s2**

GRIV SRL

SOLUZIONI PER L'INDUSTRIA

2

INSERTI FILETTATI

THREADED INSERTS

BLINDNIETMUTTERN

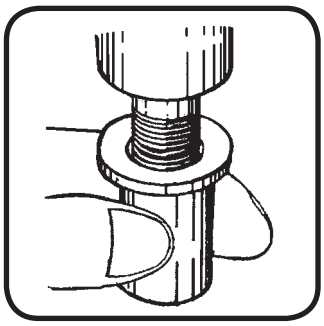
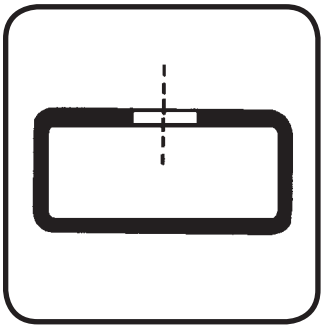
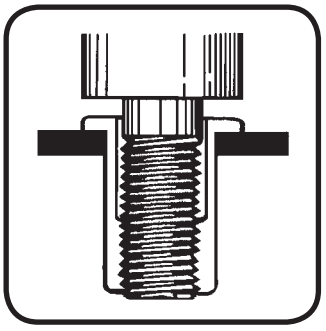
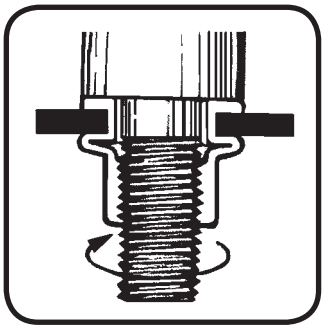
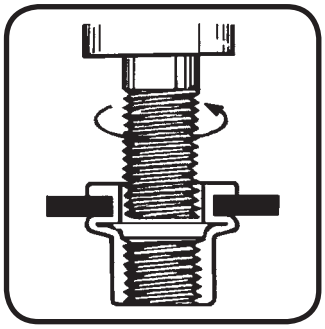
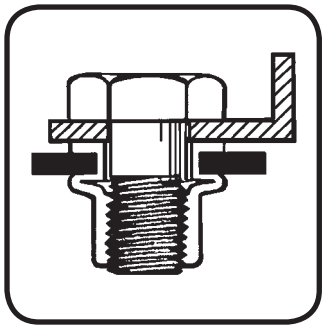
INSERTS FILETÉS

GRIV SRL
Sede Legale: via Giuseppe Mazzini, 4 - 80040 - Pollena Trocchia (Na)
Sede Operativa: via F.lli Bandiera, 1 - 80026 - Casoria (Na)

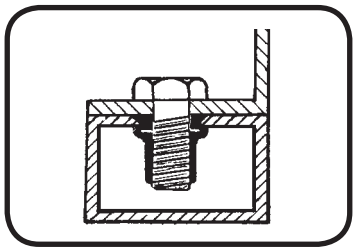
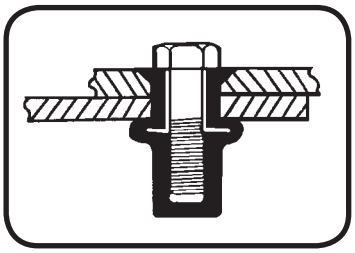
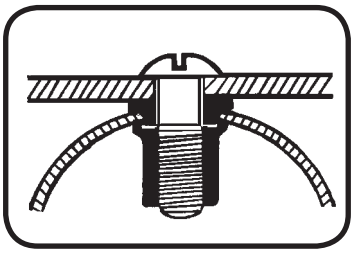
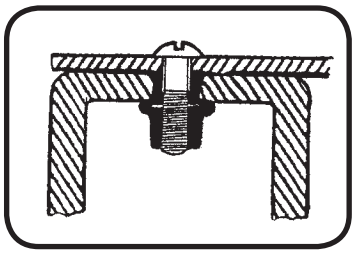
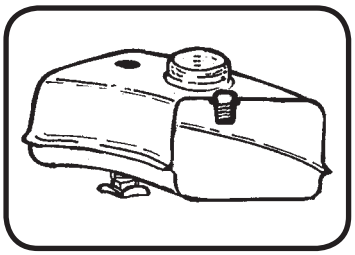
Tel/Fax: +39 081 8990496
Email: info@grivsrl.it
Web: www.grivsrl.it

2

INSTALLATION
ANWENDUNGSPRINZIP
PRINCIPE D' APPLICATION
INSTALLAZIONE

APPLICATIONS
ANWENDUNG
APPLICATIONS
APPLICAZIONI

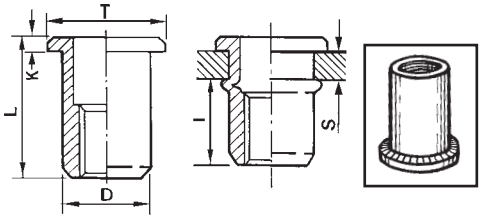
GENERAL INDEX
INHALTSWERZEICHNIS
SOMMAIRE GÉNÉRAL
INDICE

STEEL WHITE ZINC PLATED Cr III
STAHL VERZINKT Cr III
ACIER ZINGUÉ Cr III
ACCIAIO Z. B. CROMO III

CYLINDRICAL THREADED INSERTS
BLINDNIETMUTTERN RUNDSCHAFT
INSERTS FILETÉS CYLINDRIQUE
INSERTI FILETTATI CILINDRICI

ITT

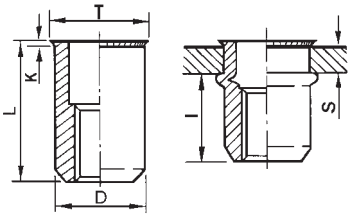
TESTA TONDA - CORTO
FLAT HEAD - SHORT TYPE
FLACHKOPF - KURZ
TÊTE CYLINDRIQUE - COURT



CODICE CODE		S	D		T	K	L		Nm
AC-ITT M03-C	M3	0,5 - 1,5	4,9	5	7,2	0,8	8,5	4,7	1
AC-ITT M04-C	M4	0,5 - 2	5,9	6	8,5	0,8	10,5	6	5
AC-ITT M05-C	M5	0,5 - 2,5	6,9	7	10	1	13	7,5	9
AC-ITT M06-C	M6	0,5 - 3	8,9	9	12,3	1,3	15,5	9,2	14
AC-ITT M08-C	M8	1 - 3,5	10,9	11	15	1,5	18,5	11,5	25
AC-ITT M10-C12	M10	1 - 3,5	11,9	12	16	1,5	19	11	45
AC-ITT M10-C13		1 - 2,5	12,9	13	16,3	1,6	17	11,5	45
AC-ITT M12-C15	M12	1 - 4	14,9	15	18	1,7	22	13,5	70
AC-ITT M12-C16		1 - 4	15,9	16	22	2	25	16	70

ITR

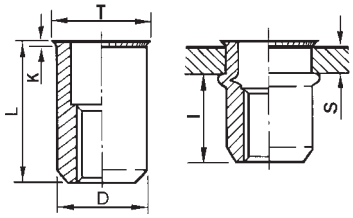
TESTA RIDOTTA - CORTO
REDUCED COUNTERSUNK HEAD - SHORT TYPE
KLEINER SENKKOPF - KURZ
TÊTE RÉDUITE - COURT



AC-ITR M03-C	M3	0,5 - 2	4,9	5	6	0,5	8,5	6,2	1
AC-ITR M04-C	M4	0,5 - 2	5,9	6	7	0,5	10,5	6,5	5
AC-ITR M05-C	M5	0,5 - 2	6,9	7	8	0,5	11,5	7	9
AC-ITR M06-C	M6	0,5 - 2,5	8,9	9	10	0,6	14	8,5	14
AC-ITR M08-C	M8	1 - 3	10,9	11	12	0,6	16,5	10	25
AC-ITR M10-C12	M10	0,5 - 3,5	11,9	12	13,5	0,85	19	13	45
AC-ITR M10-C13		1 - 3	12,9	13	14	0,7	17,5	12	45
AC-ITR M12-C15	M12	0,5 - 3,5	14,9	15	16,5	0,85	22,5	16	70
AC-ITR M12-C16		1 - 4	15,9	16	17,2	0,6	24	16	70

ITR - CP

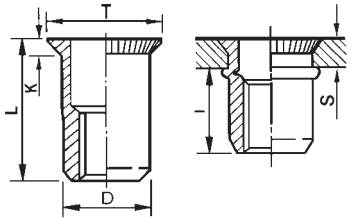
FORATURA SPECIALE
SPECIAL HOLE
VORBOHRUNG NOTWENIG
TROU SPÉCIAL



AC-ITR M03-CP	M3	0,5 - 1,5	4,7	4,8	5,4	0,4	9,0	5,5	1
AC-ITR M04-CP	M4	0,5 - 2,0	6,3	6,4	7,0	0,5	10,5	6,5	5
AC-ITR M05-CP	M5	0,5 - 2,5	7,1	7,2	7,8	0,5	12,0	7,5	9
AC-ITR M06-CP	M6	1,0 - 3,0	9,5	9,6	10,3	0,6	15,0	9,2	14
AC-ITR M08-CP	M8	1,0 - 3,5	10,5	10,6	11,4	0,6	16,0	10,5	25
AC-ITR M10-CP	M10	1,0 - 4,0	12,7	12,8	13,8	0,6	20,0	12,8	45

ITS

TESTA SVASATA - CORTO
COUNTERSUNK HEAD - SHORT TYPE
SENKKOPF - KURZ
TÊTE FRAISÉE- COURT



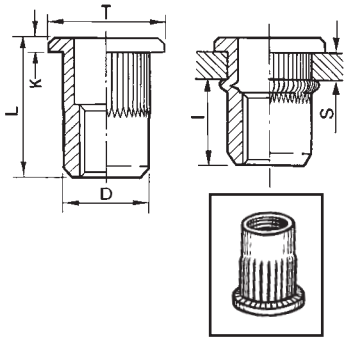
AC-ITS M03-C	M3	1,6 - 3,5	4,9	5	7,8	1,5	9,5	4,5	1
AC-ITS M04-C	M4	1,5 - 3	5,9	6	9	1,5	12	6,5	4
AC-ITS M05-C	M5	1,5 - 3,5	6,9	7	10	1,5	13	7,5	7
AC-ITS M06-C	M6	1,5 - 4	8,9	9	12	1,5	15,5	9	15
AC-ITS M08-C	M8	1,6 - 5	10,9	11	14	1,5	18,5	10	26
AC-ITS M10-C12	M10	1,6 - 5	11,9	12	15	1,5	19	11,5	45
AC-ITS M10-C13		1,6 - 5	12,9	13	16	1,5		11,5	45
AC-ITS M12-C15	M12	1,6 - 5	14,9	15	18	1,5	22,5	14,5	70
AC-ITS M12-C16		1,7 - 4,5	15,9	16	19	1,9	26	17,5	70

KNURLED CYLINDRICAL THREADED INSERTS
BLINDNIETMUTTERN RUNDSCHAFT GERÄNDELT
INSERTS FILETÉS CRANTÉS CYLINDRIQUE
INSERTI FILETTATI CILINDRICI GODRONATI

STEEL WHITE ZINC PLATED Cr III
STAHL VERZINKT Cr III
ACIER ZINGUÉ Cr III
ACCIAIO Z. B. CROMO III

ITTG

TESTA TONDA
FLAT HEAD
FLACHKOPF
TÊTE CYLINDRIQUE



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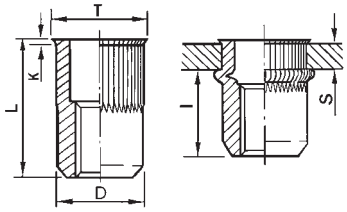
AC-ITTG M03-C AC-ITTG M03-L	M3	0,5 - 1,5 2 - 4,5	4,9	5	8 7	0,8	10 12	6 4,5	1
AC-ITTG M04-C AC-ITTG M04-L	M4	0,5 - 2 2,5 - 3,5	5,9	6	9	0,8	10,5 12	6 6	5
AC-ITTG M05-C AC-ITTG M05-L	M5	0,5 - 2,5 2,5 - 5	6,9	7	10 10	1 1	13 16,5	7,5 8,5	9
AC-ITTG M06-C AC-ITTG M06-L	M6	0,5 - 3 3 - 5,5	8,9	9	12,3 12,3	1,3 1,3	15,5 19,5	9,2 10,5	14
AC-ITTG M08-C AC-ITTG M08-L	M8	1 - 3,5 3,5 - 6	10,9	11	14,5 14,5	1,5 1,5	18,5 21	11,5	25
AC-ITTG M10-C12 AC-ITTG M10-L12 AC-ITTG M10-C13 AC-ITTG M10-L13	M10	0,5 - 3,5 4 - 6,5 1 - 4 4 - 6,5	11,9 11,9 12,9 12,9	12 12 13 13	16 16 17 17	1,7 1,8 1,7 1,7	18,3 25 21,5 24	12,5 12,5 13,5 13,5	45
AC-ITTG M12-C15 AC-ITTG M12-C16 AC-ITTG M12-L16	M12	1 - 4 1 - 3,5 3,5 - 6	14,9 15,9 15,9	15 16 16	18 22 22	1,7 2 2	22 25 28	13,5 15 16,5	82

ITRG

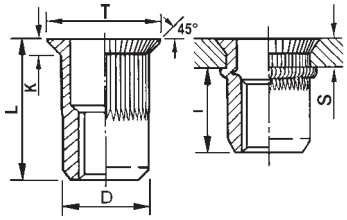
TESTA RIDOTTA
REDUCED COUNTERSUNK HEAD
KLEINER SENKKOPF
TÊTE RÉDUITE



AC-ITRG M03-C AC-ITRG M03-L	M3	0,5 - 2 2,5 - 4,5	4,9	5	6 5,5	0,5 0,35	9 11,5	6,5 5,5	1
AC-ITRG M04-C AC-ITRG M04-L	M4	0,5 - 2 2 - 4	5,9	6	7 7	0,5	11,2 13	7 7	5
AC-ITRG M05-C AC-ITRG M05-L	M5	0,5 - 2,5 2 - 4	6,9	7	8	0,5 0,5	11,5 13	7 7	9
AC-ITRG M06-C AC-ITRG M06-L	M6	0,5 - 2,5 2,5 - 4,5	8,9	9	10	0,6	14 16	8,5 8,5	14
AC-ITRG M08-C AC-ITRG M08-L	M8	1 - 3 3 - 5	10,9	11	12 12	0,6	16,5 18,5	10 10	25
AC-ITRG M10-C12 AC-ITRG M10-L12 AC-ITRG M10-C13 AC-ITRG M10-L13	M10	1 - 3,5 4 - 6,5 1 - 3,5 3,5 - 6	11,9 11,9 12,9 12,9	12 12 13 13	13 13,3 14 14	0,7 0,85 0,7 0,7	19 24 19,5 22	13 12,5 12,5 12,5	45
AC-ITRG M12-C15 AC-ITRG M12-C16 AC-ITRG M12-L16	M12	0,5 - 3,5 1 - 4 3,5 - 7,5	14,9 15,9 15,9	15 16 16	16,5 17,6 17,2	0,85 0,75 0,6	22,5 23,5 27,5	16 16 16	82

ITSG

TESTA SVASATA
COUNTERSUNK HEAD
SENKKOPF
TÊTE FRAISÉE



AC-ITSG M03-C AC-ITSG M03-L	M3	1,6 - 3,5 3,5 - 5	4,9	5	7,8	1,5	9,5 12	4,5	1
AC-ITSG M04-C AC-ITSG M04-L	M4	1,5 - 3 3,5 - 6	5,9	6	9	1,5	12 14	6,5 6	5
AC-ITSG M05-C AC-ITSG M05-L	M5	1,5 - 3,5 4 - 7	6,9	7	10	1,5	13 16,5	7,5 8,5	9
AC-ITSG M06-C AC-ITSG M06-L	M6	1,5 - 4 4 - 7	8,9	9	12	1,5	15,5 19	9	14
AC-ITSG M08-C AC-ITSG M08-L	M8	1,6 - 5 4,5 - 7,5	10,9	11	14	1,5	16,5 20	10	25
AC-ITSG M10-C12 AC-ITSG M10-L12 AC-ITSG M10-C13 AC-ITSG M10-L13	M10	1,6 - 5 4,5 - 7,5 1,6 - 5 4,5 - 7,5	11,9 11,9 12,9 12,9	12 12 13 13	15 15 16 16	1,5	19 24 19 24	11,5	45
AC-ITSG M12-C15 AC-ITSG M12-C16 AC-ITSG M12-L16	M12	1,6 - 5 1,7 - 4,5 4 - 7,5	14,9 15,9 15,9	15 16 16	18 19 19	1,5 1,9 1,9	22,5 26 29	14,5 17,5 17,5	82

STEEL WHITE ZINC PLATED Cr III
STAHL VERZINKT Cr III
ACIER ZINGUÉ Cr III
ACCIAIO Z. B. CROMO III

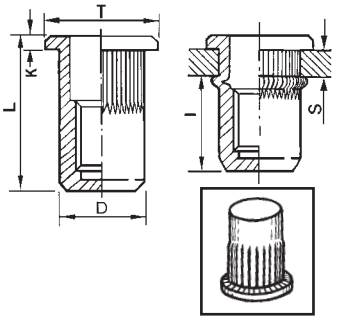
KNURLED CYLINDRICAL THREADED INSERTS, CLOSED END TYPE
BLINDNIETMUTTERN RUNDSCHAFT GERÄNDELT SCHAFTENDE GESCHLOSSEN
INSERTS FILÉTES CRANTÉS CYLINDRIQUE BORGNES

INSERTI CILINDRICI GODRONATI CIECHI

ITTCG

TESTA TONDA - CORTO

FLAT HEAD - SHORT TYPE
FLACHKOPF - KURZ
TÊTE CYLINDRIQUE - COURT

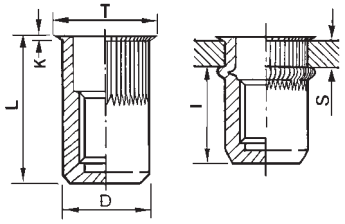


CODICE CODE		S	D		T	K	L	I	Nm
AC-ITTCG M04-C	M4	0,5 - 2	5,9	6	9	0,8	16	11,3	3
AC-ITTCG M05-C	M5	0,5 - 3	6,9	7	10	1	17	11,5	6
AC-ITTCG M06-C	M6	0,5 - 3	8,9	9	12,3	1,3	19	12,7	10
AC-ITTCG M08-C	M8	0,5 - 3	10,9	11	15	1,5	21,5	14,8	24
AC-ITTCG M10-C13	M10	1 - 4	12,9	13	17	1,6	27	19,2	48

ITRCG

TESTA RIDOTTA - CORTO

REDUCED COUNTERSUNK HEAD - SHORT TYPE
KLEINER SENKKOPF – KURZ
TÊTE RÉDUITE - COURT

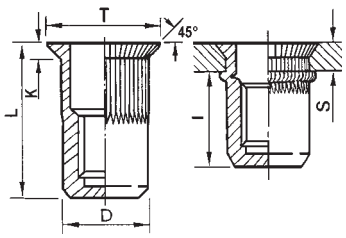


CODICE CODE		S	D		T	K	L	I	Nm
AC-ITRCG M04-C	M4	0,5 - 2	5,9	6	7	0,5	15	11	-
AC-ITRCG M05-C	M5	0,5 - 2	6,9	7	8	0,5	16,5	12,5	-
AC-ITRCG M06-C	M6	0,5 - 3	8,9	9	10	0,6	20,5	15,5	-
AC-ITRCG M08-C	M8	1 - 3	10,9	11	12	0,6	23	17	-
AC-ITRCG M10-C13	M10	1 - 3	12,9	13	14,5	0,7	24,5	18,2	-

ITSCG

TESTA SVASATA - CORTO

COUNTERSUNK HEAD – SHORT TYPE
SENKKOPF – KURZ
TÊTE FRAISÉE- COURT



CODICE CODE		S	D		T	K	L	I	Nm
AC-ITSCG M04-C	M4	1,6 - 3,5	5,9	6	9	1,5	17,3	12,3	-
AC-ITSCG M05-C	M5	1,6 - 4	6,9	7	10	1,5	19,5	14	-
AC-ITSCG M06-C	M6	1,6 - 4,5	8,9	9	12	1,5	23,5	17,5	-
AC-ITSCG M08-C	M8	1,6 - 5	10,9	11	14	1,5	26,5	20	-
AC-ITSCG M10-C13	M10	1,6 - 5	12,9	13	16	1,5	33	21,5	-

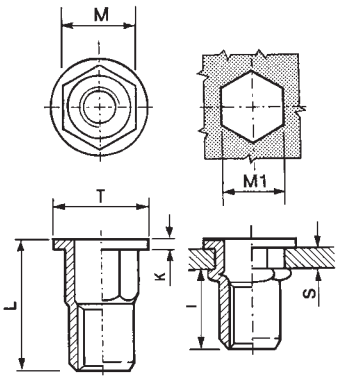
THREADED INSERTS SEMI – HEXAGONAL
BLINDNIETMUTTERN TEILSECHSKANTSCHAFT
INSERTS FILÉTES SEMI – HEXAGONALS

INSERTI FILETTATI SEMIESAGONALI

STEEL WHITE ZINC PLATED Cr III
STAHL VERZINKT Cr III
ACIER ZINGUÉ Cr III
ACCIAIO Z. B. CROMO III

ITTSE

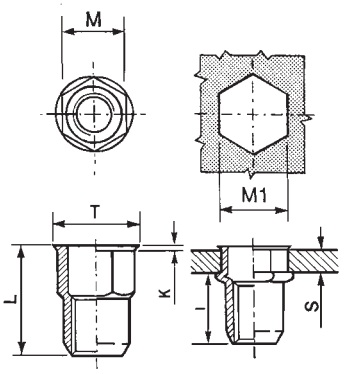
TESTA TONDA
FLAT HEAD
FLACHKOPF
TÊTE CYLINDRIQUE



CODICE CODE		S	M	M1	T	K	L	I ≈	Nm
AC-ITTSE M03-C	M3	0,3 - 1,8	4,9	5	8	0,75	9	5,5	-
AC-ITTSE M04-C	M4	0,5 - 2	5,9	6	9	0,8	11	6,5	5
AC-ITTSE M05-C	M5	0,5 - 2,5	6,9	7	10	1	13	8	9
AC-ITTSE M06-C	M6	0,5 - 3	8,9	9	12,7	1,3	15	8,5	14
AC-ITTSE M08-C	M8	1 - 3,5	10,9	11	16	1,5	18	10,5	28
AC-ITTSE M10-C12	M10	0,5 - 3,5	11,9	12	16,5	1,8	20,3	12	50
AC-ITTSE M10-C13		0,5 - 3,5	12,9	13	17	1,8	20,3	12	
AC-ITTSE M12-C16	M12	2 - 5	15,9	16	23	2,2	27,5	16,5	-

IERSE

TESTA RIDOTTA
REDUCED COUNTERSUNK HEAD
KLEINER SENKKOPF
TÊTE RÉDUITE



CODICE CODE		S	M	M1	T	K	L	I ≈	Nm
AC-IERSE M03-C	M3	0,3 - 1,5	4,9	5	5,6	0,35	8,5	5,5	-
AC-IERSE M04-C	M4	0,5 - 2	5,9	6	7	0,5	12	7,5	5
AC-IERSE M05-C	M5	0,5 - 2,5	6,9	7	8	0,5	13	8	9
AC-IERSE M06-C	M6	1 - 3,5	8,9	9	10	0,6	16	9,2	14
AC-IERSE M08-C	M8	1 - 4	10,9	11	12	0,6	17,5	10,2	28
AC-IERSE M10-C12	M10	0,5 - 3,5	11,9	12	13	0,85	18,7	12,5	50
AC-IERSE M10-C13		0,5 - 3,5	12,9	13	14,3	0,85	23	12,5	
AC-IERSE M12-C16	M12	1 - 4	15,9	16	17,2	0,6	24	16	-

ITRSE

TESTA RIDOTTA - FORATURA SPECIALE
REDUCED COUNTERSUNK HEAD - SPECIAL HOLE
KLEINER SENKKOPF - VORBOHRUNG NOTWENIG
TÊTE RÉDUITE - TROU SPÉCIAL

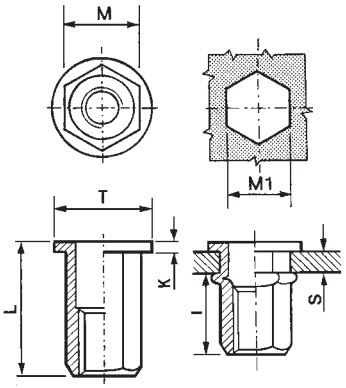
AC-ITRSE M04-C	M4	0,5 - 2	6,3	6,4	7,4	0,5	10,5	6,5	-
AC-ITRSE M05-C	M5	0,5 - 2,5	7,1	7,2	8,2	0,5	12	7,5	-
AC-ITRSE M06-C	M6	1 - 3	9,5	9,6	10,6	0,6	15	9,2	-
AC-ITRSE M08-C	M8	1 - 3,5	10,5	10,6	11,6	0,6	16,5	10,5	-

STEEL WHITE ZINC PLATED Cr III
STAHL VERZINKT Cr III
ACIER ZINGUÉ Cr III
ACCIAIO Z. B. CROMO III

THREADED INSERTS HEXAGONAL
SECHSKANTSCHAFT
INSERTS FILÉTES HEXAGONALS
INSERTI FILETTATI ESAGONALI

ITTE

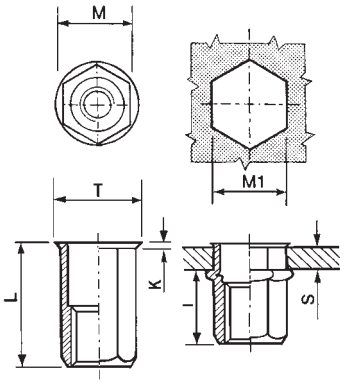
TESTA TONDA
FLAT HEAD
FLACHKOPF
TÊTE CYLINDRIQUE



CODICE CODE		S	M	M1	T	K	L	I	Nm
AC-ITTE M04-C AC-ITTE M04-L	M4	0,5 - 2 2,5 - 5	5,9	6	9	0,8	11 13,5	6,5 6,5	5
AC-ITTE M05-C AC-ITTE M05-L	M5	0,5 - 2,5 3 - 6	6,9	7	10	1	14 16,5	8	9
AC-ITTE M06-C AC-ITTE M06-L	M6	0,5 - 3 3,5 - 6	8,9	9	13	1,2 1,5	16 19,5	9,5 8,5	14
AC-ITTE M08-C AC-ITTE M08-L	M8	1 - 3,5 4 - 6	10,9	11	16 15	1,5	17 21,5	9,5 10,5	26
AC-ITTE M10-C12 AC-ITTE M10-C13 AC-ITTE M10-L13	M10	0,5 - 3,5 0,5 - 3,5 4 - 6,5	11,9 12,9 12,9	12 13 13	17	1,8 1,8 1,5	20,3 20,3 24	12 12 11,5	45
AC-ITTE M12-C15 AC-ITTE M12-C16	M12	1 - 3,5 1 - 4	14,9 15,9	15 16	19 23	1,8 2	24,3 27	16 -	115

IER

TESTA RIDOTTA
REDUCED COUNTERSUNK HEAD
KLEINER SENKKOPF
TÊTE RÉDUITE



AC-IER M04-C AC-IER M04-L	M4	0,5 - 2,5 3 - 5	5,9	6	7 7,6	0,5 0,8	11 13,5	6,7 6,5	5
AC-IER M05-C AC-IER M05-L	M5	0,5 - 3 3,5 - 5	6,9	7	8 8,9	0,5 0,8	14,5 15,5	9 8	9
AC-IER M06-C AC-IER M06-L	M6	1 - 3,5 3 - 6	8,9	9	10 10	0,6 0,6	16 18	10 8,5	15
AC-IER M08-C AC-IER M08-L	M8	1 - 4 3 - 6	10,9	11	12 12	0,6 0,6	18 20	11,5 10,5	26
AC-IER M10-C12 AC-IER M10-C13 AC-IER M10-L13	M10	0,5 - 3,5 0,5 - 3,5 4 - 6	11,9 12,9 12,9	12 13 13	14,5 14,5 14,5	1 1 1,1	19 19 22,5	12,5 12,5 12	- - -
AC-IER M12-C15 AC-IER M12-C16	M12	1 - 4 1 - 4	14,9 15,9	15 16	17,5 17,5	1,1 1,1	22,5 25	- -	- -

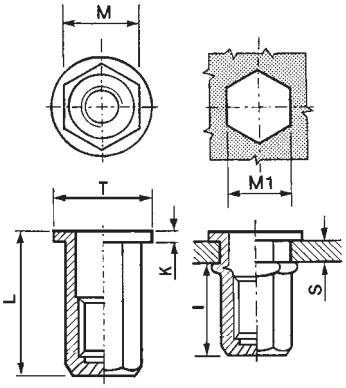
THREADED INSERTS HEXAGONAL – CLOSED END TYPE
BLINDNIETMUTTERN SECHSKANTSCHAFT SCHAFTENDE GESCHLOSSEN
INSERTS FILÉTES HEXAGONALS BORGNE

INSERTI FILETTATI ESAGONALI CIECHI

STEEL WHITE ZINC PLATED Cr III
STAHL VERZINKT Cr III
ACIER ZINGUÉ Cr III
ACCIAIO Z. B. CROMO III

ITTEC

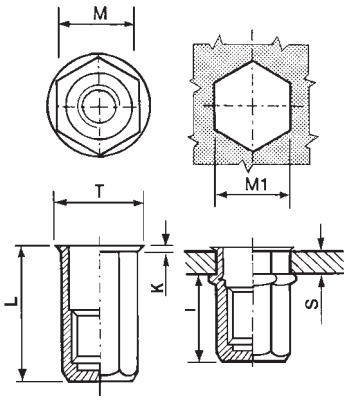
TESTA TONDA - CORTO
FLAT HEAD - SHORT TYPE
FLACHKOPF - KURZ
TÊTE CYLINDRIQUE - COURT



CODICE CODE		S	M	M1	T	K	L	I ≈	Nm
AC-ITTEC M04-C	M4	0,5 - 2	5,9	6	9	1	15	11	5
AC-ITTEC M05-C	M5	0,5 - 2,5	6,9	7	10	1	18	13,5	9
AC-ITTEC M06-C	M6	0,5 - 3	8,9	9	12,7	1,5	23	17	16
AC-ITTEC M08-C	M8	1 - 3,5	10,9	11	16	1,5	26	19	26
AC-ITTEC M10-C13	M10	1 - 4	12,9	13	19	2	33	25	

IERC

TESTA RIDOTTA-CORTO
REDUCED COUNTERSUNK HEAD – SHORT TYPE
KLEINER SENKKOPF – KURZ
TÊTE RÉDUITE – COURT

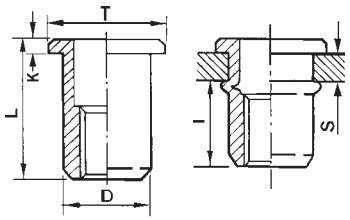


AC-IERC M04-C	M4	0,5 - 2,5	5,9	6	7	0,5	16	11,7	5
AC-IERC M05-C	M5	0,5 - 3	6,9	7	8	0,5	20	14,2	9
AC-IERC M06-C	M6	1 - 3,5	8,9	9	10,9	0,6	20,5	14,5	16
AC-IERC M08-C	M8	1 - 4	10,9	11	12	0,6	23	21	26
AC-IERC M10-C13	M10	1,5 - 4,5	12,9	13	14,5	0,7	28,5	21	

CYLINDRICAL THREADED INSERTS
BLINDNIETMUTTERN RUNDSCHAFT
INSERTS FILETÉS CYLINDRIQUE
INSERTI FILETTATI CILINDRICI

ITT

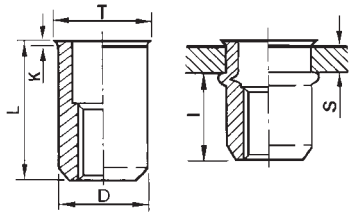
TESTA TONDA
FLAT HEAD
FLACHKOPF
TÊTE CYLINDRIQUE



CODICE CODE		S	D		T	K	L	I ~	Nm
IX-ITT M03-C	M3	0,3 - 1,8	4,9	5	8	0,75	9	5,5	-
IX-ITT M04-C	M4	0,3 - 2,5	5,9	6	9	1	11	6	-
IX-ITT M05-C	M5	0,3 - 3	6,9	7	10	1	13	8	-
IX-ITT M06-C	M6	0,5 - 3	8,9	9	12	1,5	16	9	-
IX-ITT M08-C	M8	0,5 - 3	10,9	11	15	1,5	17,5	10	-
IX-ITT M10- C12	M10	0,8 - 3	11,9	12	16	1,7	19	10,5	-
IX-ITT M10- C13		0,5 - 3	12,9	13	16	2	19	14,5	-

ITR

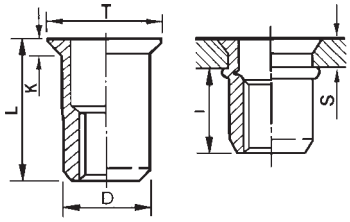
TESTA RIDOTTA
REDUCED COUNTERSUNK HEAD
KLEINER SENKKOPF
TÊTE RÉDUITE



IX-ITR M03-C	M3	0,3 - 1,5	4,9	5	5,6	0,35	8,5	5,5	-
IX-ITR M04-C	M4	0,5 - 2,5	5,9	6	7	0,6	10	6	-
IX-ITR M05-C	M5	0,5 - 3	6,9	7	8	0,6	11,5	6,3	-
IX-ITR M06-C	M6	0,5 - 3	8,9	9	10	0,6	14	8,6	-
IX-ITR M08-C	M8	0,5 - 3	10,9	11	12	0,6	15,5	10	-
IX-ITR M10- C12	M10	0,8 - 3	11,9	12	13,5	0,8	18	11,2	-
IX-ITR M10- C13		0,8 - 3,5	12,9	13	14,5	0,8	19,5	12	-

ITS

TESTA SVASATA
COUNTERSUNK HEAD
SENKKOPF
TÊTE FRAISÉE



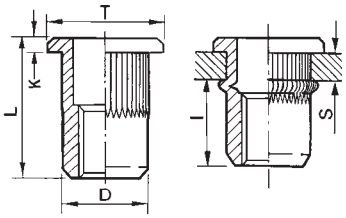
IX-ITS M03-C	M3	1,7 - 3	4,9	5	8	1,5	11,5	5,5	-
IX-ITS M04-C	M4	2 - 3,5	5,9	6	9	1,5	11,5	6,5	-
IX-ITS M05-C	M5	2 - 4	6,9	7	10	1,5	13,5	7	-
IX-ITS M06-C	M6	2 - 4,5	8,9	9	12	1,5	16	9,5	-
IX-ITS M08-C	M8	2 - 4,5	10,9	11	14	1,5	19	11	-
IX-ITS M10- C12	M10	1 - 4	11,9	12	15	1,5	18	10,5	-
IX-ITS M10- C13		2 - 4,5	12,9	13	16	1,5	21	14,5	-

KNURLED CYLINDRICAL THREADED INSERTS
BLINDNIETMUTTERN RUNDSCHAFT GERÄNDELT
INSERTS FILETÉS CRANTÉS CYLINDRIQUE
INSERTI FILETTATI CILINDRICI GODRONATI

STAINLESS STEEL - A2 / A4
EDELSTAHL - A2 / A4
ACIER INOX - A2 / A4
ACCIAIO INOX - A2 / A4

ITTG

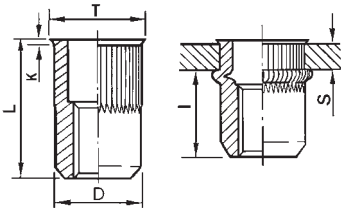
TESTA TONDA
FLAT HEAD
FLACHKOPF
TÊTE CYLINDRIQUE



CODICE CODE		S	D		T	K	L	I ≈	Nm
IX-ITTG M03-C	M3	0,3 - 1,8	4,9	5	8	0,8	9,5	5	-
IX-ITTG M03-L		1,8 - 3				0,75	10	5,5	-
IX-ITTG M04-C	M4	0,5 - 2	5,9	6	9	0,8	10,5	6,5	-
IX-ITTG M04-L		2,5 - 4				0,75	12,5		
IX-ITTG M05-C	M5	0,3 - 2,5	6,9	7	10	1	13	8	-
IX-ITTG M05-L		2 - 4					15		
IX-ITTG M06-C	M6	0,5 - 3	8,9	9	12	1,5	16	9,5	-
IX-ITTG M06-L		3,5 - 6			13	1,5	19	9	-
IX-ITTG M08-C	M8	0,5 - 3	10,9	11	15	1,5	17,5	10,5	-
IX-ITTG M08-L		3 - 6			16	1,5	20	10	-
IX-ITTG M10- C12	M10	0,8 - 3,5	11,9	12	16	1,7	19	10,5	-
IX-ITTG M10- L12		3,5 - 6	11,9	12	16	1,7	22	10,5	-
IX-ITTG M10- C13		0,5 - 3	12,9	13	16	2	19	12,5	-
IX-ITTG M10- L13		3 - 6	12,9	13	19	2	26	14,5	-

ITRG

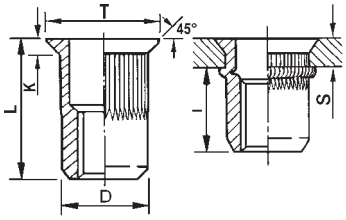
TESTA RIDOTTA
REDUCED COUNTERSUNK HEAD
KLEINER SENKKOPF
TÊTE RÉDUITE



IX-ITRG M03-C	M3	0,5 - 2	4,9	5	5,5	0,4	10	5,5	-
IX-ITRG M03-L		1,5 - 2,5			5,6	0,35			
IX-ITRG M04-C	M4	0,5 - 2,5	5,9	6	7	0,5	10	6	-
IX-ITRG M04-L		2,5 - 4			7	0,5	12,5		
IX-ITRG M05-C	M5	0,5 - 2,5	6,9	7	8	0,5	11,5	8	-
IX-ITRG M05-L		2,5 - 4,5					13	6,8	-
IX-ITRG M06-C	M6	0,5 - 3	8,9	9	10	0,6	14	9	-
IX-ITRG M06-L		3,5 - 6				0,5	17,5	8,6	-
IX-ITRG M08-C	M8	0,5 - 3	10,9	11	12	0,6	15,5	10,5	-
IX-ITRG M08-L		3 - 6				0,5	19,5	10	-
IX-ITRG M10- C12	M10	0,8 - 3	11,9	12	13,5	0,8	18	11,2	-
IX-ITRG M10- L12		2 - 4,5	11,9	12	13,5	0,8	19,5	11,2	-
IX-ITRG M10- C13		0,8 - 3,5	12,9	13	14,5	0,7	19,5	12,5	-
IX-ITRG M10- L13		3 - 6	12,9	13	14	0,5	23	13,3	-

ITSG

TESTA SVASATA
COUNTERSUNK HEAD
SENKKOPF
TÊTE FRAISÉE

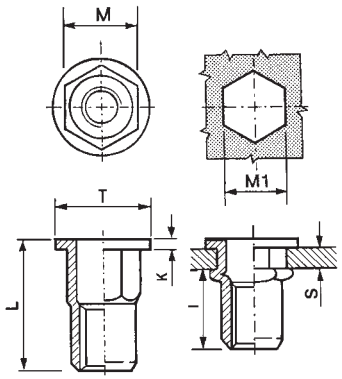


IX-ITSG M03-C	M3	1,7 - 3	4,9	5	8	1,5	11,5	5,5	-
IX-ITSG M03-L		3 - 4					12,5		
IX-ITSG M04-C	M4	2 - 3,5	5,9	6	9	1,5	11,5	6,5	-
IX-ITSG M04-L		3,5 - 5					13		
IX-ITSG M05-C	M5	2 - 4	6,9	7	10	1,5	13,5	7	-
IX-ITSG M05-L		4 - 6					15		
IX-ITSG M06-C	M6	2 - 4,5	8,9	9	12	1,5	16	9,5	-
IX-ITSG M06-L		4,5 - 6,5					19		
IX-ITSG M08-C	M8	2 - 4,5	10,9	11	14	1,5	19	11	-
IX-ITSG M08-L		3,5 - 6,5			13,7		21		
IX-ITSG M10- C12	M10	1,5 - 4	11,9	12	15	1,5	18	10,5	-
IX-ITSG M10- L12		3 - 6	11,9	12	15	1,5	20	10,5	-
IX-ITSG M10- C13		2 - 4,5	12,9	13	16	1,6	21	14,5	-
IX-ITSG M10- L13		3,5 - 6,5	12,9	13	15,7	1,6	25	14,5	-

THREADED INSERTS SEMI - HEXAGONAL
BLINDNIETMUTTERN TEILSECHSKANTSCHAFT
INSERTS FILÉTES SEMI - HEXAGONALS
INSERTI FILETTATI SEMIESAGONALI

ITTSE

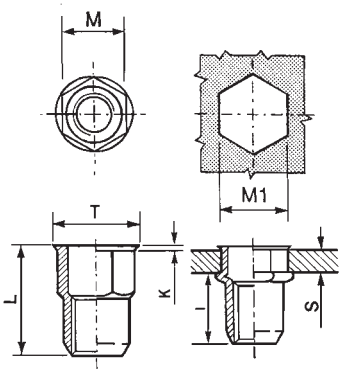
TESTA TONDA
FLAT HEAD
FLACHKOPF
TÊTE CYLINDRIQUE



CODICE CODE		S	M	M1	T	K	L	I ~	Nm
IX-ITTSE M03-C IX-ITTSE M03-L	M3	0,3 - 1,8 1,8 - 3	4,9	5	8	0,75	9 10	5,5	-
IX-ITTSE M04-C IX-ITTSE M04-L	M4	0,5 - 2 2,5 - 4	5,9	6	8,7 9	0,8 0,75	11 12,5	7,2 6	-
IX-ITTSE M05-C IX-ITTSE M05-L	M5	0,5 - 2,5 2 - 4	6,9	7	10 10	1	12 15	7,5 8	-
IX-ITTSE M06-C IX-ITTSE M06-L	M6	0,5 - 3 3,5 - 6	8,9	9	12,7 13	1,3 1,5	15,5 19	9	-
IX-ITTSE M08-C IX-ITTSE M08-L	M8	1 - 3,5 3 - 6	10,9	11	16 16	1,5	18 20	10	-
IX-ITTSE M10- C12	M10	0,8 - 3,5	11,9	12	16	1,7	19	10,5	-
IX-ITTSE M10- L12		3,5 - 6	11,9	12	16	1,7	22	10,5	-
IX-ITTSE M10- C13		1 - 3,5	12,9	13	18	1,7	21	13,2	-
IX-ITTSE M10- L13		3 - 6	12,9	13	19	2	26	14,5	-
IX-ITTSE M12-C16 IX-ITTSE M12-L16	M12	1,0 - 4,0 3,5 - 7,0	15,9	16	23	2	26 29	16,5	-

IERSE

TESTA RIDOTTA
REDUCED COUNTERSUNK HEAD
KLEINER SENKKOPF
TÊTE RÉDUITE



IX-IERSE M03-C IX-IERSE M03-L	M3	0,3 - 1,5 1,5 - 2,5	4,9	5	5,6	0,35 0,35	8,5 10	5,5	-
IX-IERSE M04-C IX-IERSE M04-L	M4	0,5 - 2 2,5 - 4	5,9	6	7 7	0,5 0,5	12 12,5	7,5 6	-
IX-IERSE M05-C IX-IERSE M05-L	M5	0,5 - 2,5 2,5 - 4,5	6,9	7	8 8	0,5 0,5	13 13	8 6,8	- -
IX-IERSE M06-C IX-IERSE M06-L	M6	1 - 3,5 3,5 - 6	8,9 8,9	9	10 10	0,6 0,5	16 17,5	9,2 8,6	-
IX-IERSE M08-C IX-IERSE M08-L	M8	1 - 4 3 - 6	10,9	11	12 12	0,6 0,5	17,5 19,5	10	-
IX-IERSE M10- C12	M10	0,8 - 3	11,9	12	13,5	0,8	18	11,2	-
IX-IERSE M10- L12		2 - 4,5	11,9	12	13,5	0,8	19,5	11,2	-
IX-IERSE M10- C13		1 - 4,5	12,9	13	14,5	0,7	21	13	-
IX-IERSE M10- L13		3 - 6	12,9	13	14	0,5	23	13,3	-
IX-IERSE M12-C16 IX-IERSE M12-L16	M12	1,0 - 4,0 3,5 - 7,5	15,9	16	17,2	0,6	24 27,5	16	-

CYLINDRICAL THREADED INSERTS, CLOSED END TYPE
BLINDNIETMUTTERN RUNDSCHAFT GESCHLOSSEN
INSERTS FILÉTES AVEUGLES BORGNES

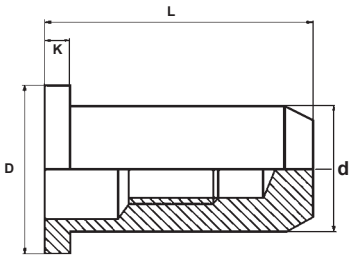
INSERTI CILINDRICI CIECHI

STAINLESS STEEL - A2 / A4
EDELSTAHL - A2 / A4
ACIER INOX - A2 / A4
ACCIAIO INOX - A2 / A4

CODICE CODE		GRIP		d	D	L	K	l ~	Nm
ITTC M4	**M4**	0,5 - 2	6,0	5,9	9,0	16,0	1,0	11,3	-
ITTC M5	**M5**	0,5 - 2,5	7,0	6,9	10,0	19,0	1,0	13,8	-
ITTC M6	**M6**	0,5 - 3,0	9,0	8,9	12,3	21,0	1,3	15	-
ITTC M8	**M8**	1 - 3,5	11,0	10,9	15,0	25	1,5	18,2	-
ITTC M10 C13	**M10**	1 - 4	13,0	12,9	17,0	27	1,7	19,4	-

ITTC

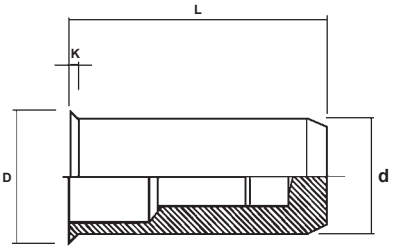
TESTA TONDA
FLAT HEAD
FLACHKOPF
TÊTE CYLINDRIQUE



ITRC M4	**M4**	0,5 - 2	6,0	5,9	7,0	15	0,5	11	-
ITRC M5	**M5**	0,5 - 2	7,0	6,9	8,0	16,5	0,5	12,5	-
ITRC M6	**M6**	0,5 - 2,5	9,0	8,9	10,0	20,5	0,6	15,5	-
ITRC M8	**M8**	1 - 3	11,0	10,9	12,0	23	0,6	17,6	-
ITRC M10 C13	**M10**	1,0 - 3,5	13,0	12,9	14	24,5	0,7	18,3	-

ITRC

TESTA RIDOTTA
REDUCED COUNTERSUNK HEAD
KLEINER SENKKOPF
TÊTE RÉDUITE



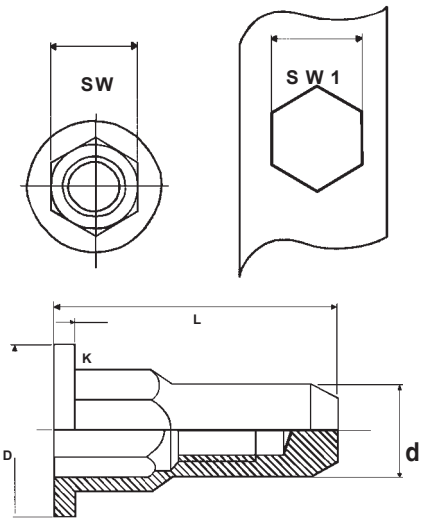
STAINLESS STEEL - A2 / A4
EDELSTAHL - A2 / A4
ACIER INOX - A2 / A4
ACCIAIO INOX - A2 / A4

SEMI HEXAGONAL THREADED INSERTS CLOSED END TYPE
BLINDNIETMUTTERN TEILSECHSKANTSCHAFT GESCHLOSSEN
INSERTS FILÉTES SEMI HEXAGONAL BORGNES

INSERTI SEMIESAGONALI CIECHI

ITTSEC

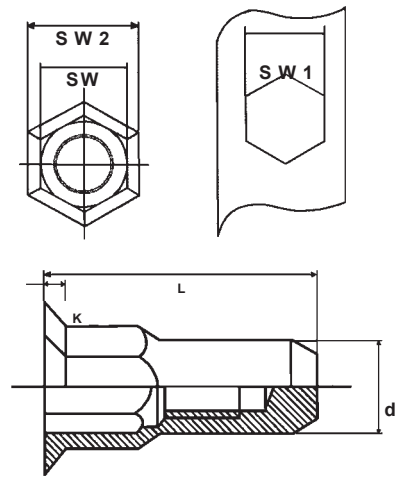
TESTA TONDA
FLAT HEAD
FLACHKOPF
TÊTE CYLINDRIQUE



CODICE CODE		GRIP	SW1	SW	d	D	L	K	Nm
ITTSEC M4	M4	0,5 - 2,5	6,1	6,0	-	9,0	16,0	1,0	-
ITTSEC M5	M5	0,5 - 3,0	7,1	7,0	-	10,0	18,0	1,0	-
ITTSEC M6	M6	0,5 - 3,0	9,1	9,0	-	12,0	21,0	1,5	-
ITTSEC M8	M8	0,5 - 3,0	11,1	11,0	-	14,5	23,5	1,5	-
ITTSEC M10 C13	M10	1,0 - 3,5	13,1	13,0	-	16,5	26,5	2,0	-

IERSEC

TESTA RIDOTTA
REDUCED COUNTERSUNK HEAD
KLEINER SENKKOPF
TÊTE RÉDUITE



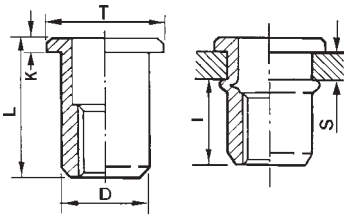
CODICE CODE		GRIP	SW1	SW	SW2	d	L	K	Nm
IERSEC M4	M4	0,5 - 2,5	6,1	6,0	7,0	-	16,0	0,5	-
IERSEC M5	M5	0,5 - 3,0	7,1	7,0	8,0	-	18,0	0,5	-
IERSEC M6	M6	0,5 - 3,0	9,1	9,0	10,0	-	21,0	0,5	-
IERSEC M8	M8	0,5 - 3,0	11,1	11,0	12,0	-	23,5	0,5	-
IERSEC M10 C13	M10	1,0 - 3,5	13,1	13,0	14,2	-	26,5	0,7	-

CYLINDRICAL THREADED INSERTS
BLINDNIETMUTTERN RUNDSCHAFT
INSERTS FILETÉS CYLINDRIQUE
INSERTI FILETTATI CILINDRICI

ALUMINIUM AlMg 5
ALUMINIUM AlMg 5
ALUMINIUM AlMg 5
ALLUMINIO AlMg 5

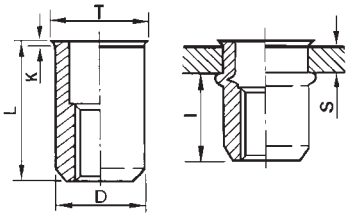
CODICE CODE		S	D		T	K	L	I ≈	Nm
AL-ITT M03-C	M3	0,3 - 1,8	4,9	5	8	0,75	9	5,5	-
AL-ITT M03-L		1,8 - 3			7	0,8	10,5	4,2	-
AL-ITT M04-C	M4	0,5 - 2	5,9	6	8,5	0,8	10,5	6	-
AL-ITT M04-L		2,5 - 4			9	1	13		
AL-ITT M05-C	M5	0,5 - 2,5	6,9	7	10	1	13	7,5	-
AL-ITT M05-L		3 - 5				1,2	15,5	7,7	-
AL-ITT M06-C	M6	0,5 - 2,5	8,9	9	12,3	1,4	15	9,2	-
AL-ITT M06-L		2,5 - 4			12	1,5	16	8	-
AL-ITT M08-C	M8	1 - 2,5	10,9	11	14,3	1,5	16,5	10,5	-
AL-ITT M08-L		3,5 - 6			15	1,5	20	10	-
AL-ITT M10-C12	M10	0,8 - 3,5	11,9	12	16	1,7	19	10,5	-
AL-ITT M10-L12		3,5 - 6	11,9	12	16	1,7	22	11	-
AL-ITT M10-C13		1 - 4	12,9	13	17	1,6	19,5	12,5	-
AL-ITT M10-L13		4,5 - 7,5	12,9	13	19	2	27,5	14,5	-
AL-ITT M12-C16	M12	1 - 4	15,9	16	23	2	26	16,5	-
AL-ITT M12-L16		3,5 - 7					29		

ITT
TESTA TONDA
FLAT HEAD
FLACHKOPF
TÊTE CYLINDRIQUE



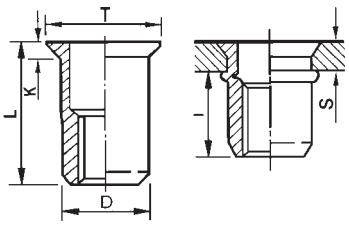
AL-ITR M03-C	M3	0,3 - 1,5	4,9	5	5,6	0,35	8,5	5,5	-
AL-ITR M03-L		1,5 - 2,5					10		
AL-ITR M04-C	M4	0,5 - 2	5,9	6	7	0,5	10,5	6,5	-
AL-ITR M04-L		2,5 - 4					13	6	-
AL-ITR M05-C	M5	0,5 - 2	6,9	7	8	0,5	11,5	7	-
AL-ITR M05-L		2 - 4,5					13	6,8	-
AL-ITR M06-C	M6	0,5 - 2,5	8,9	9	10	0,6	14	8,5	-
AL-ITR M06-L		2 - 4				0,5	16	8,6	-
AL-ITR M08-C	M8	1 - 2,5	10,9	11	12	0,6	15,5	10	-
AL-ITR M08-L		1,5 - 4,5				0,5	18		
AL-ITR M10-C12	M10	0,8 - 3	11,9	12	13,5	0,8	18	11,2	-
AL-ITR M10-L12		2 - 4,5	11,9	12	13,5	0,8	19,5	11,2	-
AL-ITR M10-C13		1 - 3	12,9	13	14	0,7	17,5	12	-
AL-ITR M10-L13		3 - 6	12,9	13	14	0,5	23	13,3	-
AL-ITR M12-C16	M12	1 - 4	15,9	16	17,2	0,6	24	16	-
AL-ITR M12-L16		3,5 - 7,5	15,9	16	17,2	0,6	27,5	16	-

ITR
TESTA RIDOTTA
REDUCED COUNTERSUNK HEAD
KLEINER SENKKOPF
TÊTE RÉDUITE



AL-ITS M03-C	M3	2 - 3	4,9	5	8	1,5	9,5	5	-
AL-ITS M03-L		3 - 4					10,5		
AL-ITS M04-C	M4	1,5 - 3	5,9	6	9	1,5	12	6	-
AL-ITS M04-L		3,5 - 5					13		
AL-ITS M05-C	M5	1,5 - 3	6,9	7	10	1,5	13	7	-
AL-ITS M05-L		4 - 6					15		
AL-ITS M06-C	M6	1,5 - 4	8,9	9	12	1,5	15,5	9	-
AL-ITS M06-L		4 - 6				1,5	17		
AL-ITS M08-C	M8	1,5 - 4	10,9	11	14	1,5	18,5	10	-
AL-ITS M08-L		4 - 6					19		
AL-ITS M10-C12	M10	2,5 - 4	11,9	12	15	1,5	18	11,5	-
AL-ITS M10-L12		4 - 6	11,9	12	15	1,5	20,5	11,5	-
AL-ITS M10-C13		1,5 - 4	12,9	13	15,7	1,6	22	14,5	-
AL-ITS M10-L13		3,5 - 6,5	12,9	13	15,7	1,6	25	14,5	-
AL-ITS M12-C16	M12	1,7 - 4,5	15,9	16	19	1,9	26	17,5	-
AL-ITS M12-L16		4 - 7,5	15,9	16	19	1,9	29	17,5	-

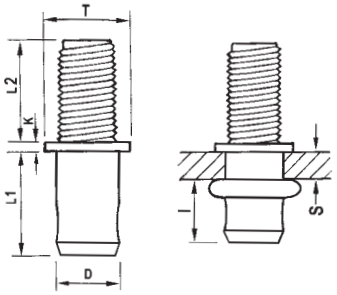
ITS
TESTA SVASATA
COUNTERSUNK HEAD
SENKKOPF
TÊTE FRAISÉE



STEEL WHITE ZINC PLATED Cr III
STAHL VERZINKT Cr III
ACIER ZINGUÉ Cr III
ACCIAIO Z. B. CROMO III

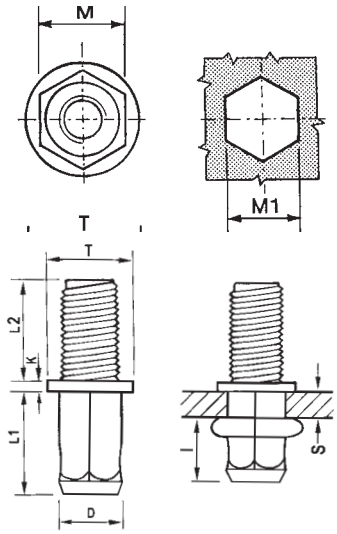
SPECIAL THREADED INSERTS
SONDERANFERTIGUNGEN
INSÉRTS FILETÉS SPÉCIALS
INSERTI FILETTATI SPECIALI

ITTM



CODICE CODE	S	D	T	K	L1	L2	I ~
AC-ITTM M04 10-C	0,5 - 2	5,4	8	0,8	8	10	3,5
AC-ITTM M04 10-L	2 - 3					10	4
AC-ITTM M04 15-C	0,5 - 2					15	3,5
AC-ITTM M04 15-L	2 - 3					15	4
AC-ITTM M05 15-C	0,5 - 3	6,9	10	1	12	15	-
AC-ITTM M05 20-C	0,5 - 3					20	6-7
AC-ITTM M05 25-C	0,5 - 3					25	-
AC-ITTM M06 15-C	0,5 - 3	8,9	13	1,5	14,5	15	-
AC-ITTM M06 20-C						20	8-9
AC-ITTM M06 25-C						25	-
AC-ITTM M08 20-C	0,5 - 3	10,9	16	1,5	15,5	20	9-10
AC-ITTM M08 25-C						25	-

ITTEM



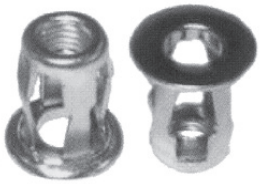
CODICE CODE	S	D	T	K	L1	L2	I ~
AC-ITTEM M05 25-C	0,5 - 3	6,9	10	1	12	25	5-5,5
AC-ITTEM M05 30-C						30	
AC-ITTEM M05 35-C						35	
AC-ITTEM M06 15-C	0,5 - 3	8,9	13	1,5	14,5	15	7-7,5
AC-ITTEM M06 20-C						20	
AC-ITTEM M06 25-C						25	
AC-ITTEM M08 20-C	0,5 - 3	10,9	16	1,5	15,5	20	8-8,5
AC-ITTEM M08 25-C						25	

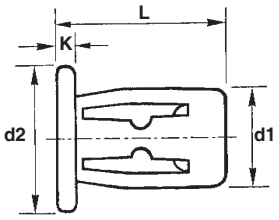
SPECIAL THREADED INSERTS
SONDERANFERTIGUNGEN
INSÉRTS FILETÉS SPÉCIALS
INSERTI FILETTATI SPECIALI

JACKFIX

TESTA TONDA
FLAT HEAD
FLACHKOPF
TÊTE CYLINDRIQUE

CODICE CODE		Spess. Serr. Grip range	d1	Ø foro/hole	d2	K	L
JF 4 C	M4	0,4 - 4,7	8,1	8,2	11,9	1,8	16,6
JF 4 L		4,7 - 9,5					21,4
JF 5 C	M5	0,4 - 4,7	9,7	9,8	13,5	1,8	18,2
JF 5 L		4,7 - 9,5					22,6
JF 6 C	M6	0,4 - 4,7	11,2	11,3	15,9	1,8	18,6
JF 6 M		4,7 - 9,5					23,4
JF 6 L		9,5 - 12,7					27,8

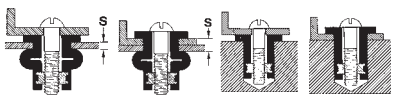




RN

NEOPRENE
NEOPRENE
NEOPREN
NÉOPRÈNE

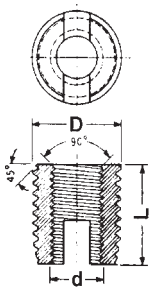
CODICE CODE		S	D		T	K	L	Nm
RN 314	M3	0,4 - 4	7,9	8 - 8,3	11	1,4	12,6	0,36
RN 414	M4	0,4 - 4	7,9	8 - 8,3	11	1,4	12,6	0,35
RN 515	M5	0,4 - 4,9	9,6	9,7 - 9,9	12,7	0,9	14,1	0,54
RN 527		7,9 - 16			14	1,3	26,1	0,35
RN 541		20,5 - 30			14	1,3	39,8	1,14
RN 617	M6	0,4 - 2,8	12,7	12,8 - 13	16	1,3	16	1,13
RN 626		0,8 - 4,7			17,5	4,7	21,1	1,69
RN 628		6,4 - 11,5			16,3	1,3	26,7	1,13
RN 822	M8	0,4 - 4,0	15,9		22,1	3,2	18,3	2,82
RN 834		3,9 - 9,5	15,9	16,0 - 16,2	22,1	5,7	27,9	-
RN 852		19,5 - 32,0	18,0	18,1 - 18,3	20	1,6	50	-



F 212

ACCIAIO TEMPRATO
STEEL HARDENED
STAHL EINSATZGEHÄRTET
ACIER CÉMENTÉ

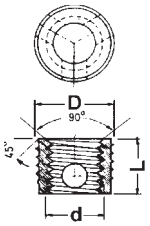
OTTONE
BRASS
MESSING
LAITON



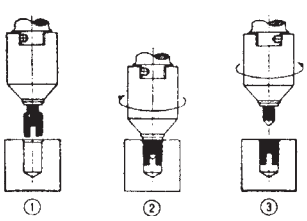
CODICE CODE	d	D			L
F212 M02,5	2,5 x 0,45	4,5 x 0,5	4,0 - 4,3	8	6
F212 M03	3,0 x 0,5	5,0 x 0,5	4,5 - 4,8	8	6
F212 M04	4,0 x 0,7	6,5 x 0,75	5,8 - 6,2	10	8
F212 M05	5,0 x 0,8	8,0 x 1,0	7,1 - 7,6	13	10
F212 M06A	6,0 x 1,0	9,0 x 1,0	8,1 - 8,6	15	12
F212 M06	6,0 x 1,0	10,0 x 1,5	8,6 - 9,4	17	14
F212 M08	8,0 x 1,25	12,0 x 1,25	10,6 - 11,4	18	15
F212 M10	10,0 x 1,5	14,0 x 1,5	12,6 - 13,4	22	18
F212 M12	12,0 x 1,75	16,0 x 1,5	14,6 - 15,4	26	22
F212 M14	14,0 x 2,0	18,0 x 1,5	16,6 - 17,4	28	24
F212 M16	16,0 x 2,0	20,0 x 1,5	18,6 - 19,4	27	22

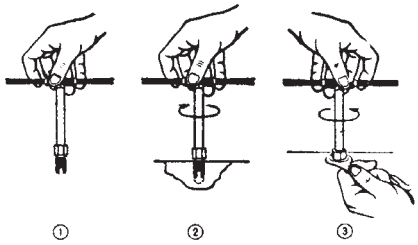
F 318

ACCIAIO TEMPRATO
STEEL HARDENED
STAHL EINSATZGEHÄRTET
ACIER CÉMENTÉ



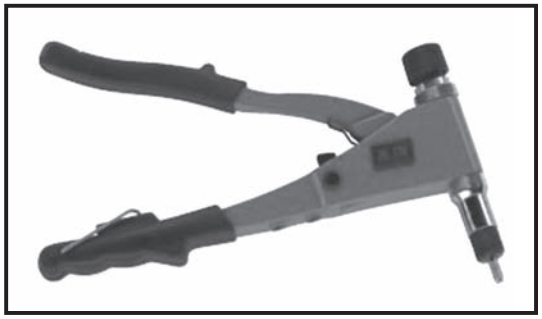
F318 M04 - C F318 M04 - L	4,0 x 0,7	6,5 x 0,8	6,0 - 6,2	8 10	6 8
F318 M05 - C F318 M05 - L	5,0 x 0,8	8,0 x 1,0	7,4 - 7,7	9 13	7 10
F318 M06 - C F318 M06 - L	6,0 x 1,0	10,0 x 1,25	9,3 - 9,6	10 15	8 12
F318 M08 - C F318 M08 - L	8,0 x 1,25	12,0 x 1,5	11,1 - 11,5	11 17	9 14
F318 M10 - C F318 M10 - L	10,0 x 1,5	14,0 x 1,5	13,1 - 13,5	13 22	10 18
F318 M12 - C F318 M12 - L	12,0 x 1,75	16,0 x 1,75	15,0 - 15,4	15 26	12 22
F318 M14 - C F318 M14 - L	14,0 x 2,0	18,0 x 2,0	17,0 - 17,4	17 28	14 24





TOOLS
WERKZEUGE
PINCES
ATTREZZATURE

TIRAINSERTI MANUALI PER INSERTI FILETTATI
HAND TOOLS FOR THREADED INSERTS
BLINDNIETMUTTERN HANDZANGEN
PINCES À MAIN POUR INSÉRTS FILETÉS

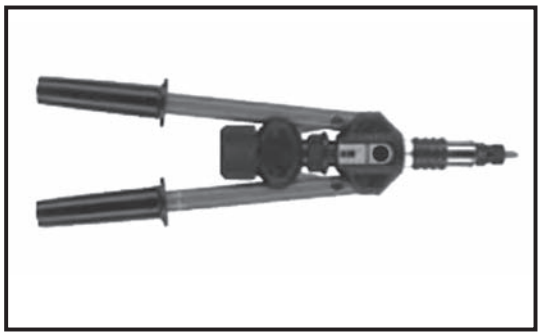


MFX 360

EQUIPAGGIAMENTO
EQUIPMENT
AUSRÜSTUNG
ÉQUIPMENT
M3 - M4 - M5 - M6

DIMENSIONI
DIMENSIONS
ABMESSUNG
DIMENSIONS
280 mm.

PESO
WEIGHT
GEWICHT
POIDS
0,8 Kg.



MFX 480QI

EQUIPAGGIAMENTO
EQUIPMENT
AUSRÜSTUNG
ÉQUIPMENT
M5 - M6 - M8 - M10

DIMENSIONI
DIMENSIONS
ABMESSUNG
DIMENSIONS
440 mm.

PESO
WEIGHT
GEWICHT
POIDS
1,8 Kg.

TIRAINSERTI OLEOPNEUMATICA PER INSERTI FILETTATI
HYDRO PNEUMATIC TOOL FOR THREADED INSERTS
PNEUMATISCHEN HYDRAULISCHES BLINDNIETMUTTERSETZGERÄT
PISTOLET OLEO-PNEUMATIQUE POUR INSÉRTS FILETÉS

AP 4

UTILIZZO
USE
GEBRAUCHEN
UTILISATION
M3 ÷ M12

CORSA
STROKE
HUB
COURSE
7 mm.

PRESSIONE DI UTILIZZO
PRESSURE REQUIRED
ARBEITSDRUCK
PRESSION D' UTILISATION
5-7 BAR

FORZA
TRACTION POWER
ZUGKRAFT
FORCE DE TRACTION
18.7 kN

DIMENSIONI
DIMENSIONS
ABMESSUNG
DIMENSIONS
270 x 285 x 99 mm.

PESO
WEIGHT
GEWICHT
POIDS
1.6 Kg.

GRIV SRL

SOLUZIONI PER L'INDUSTRIA

3

AUTOFISSANTI

SELF CLINCHING FASTENERS

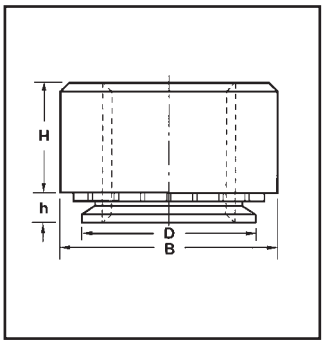
GRIV SRL
Sede Legale: via Giuseppe Mazzini, 4 - 80040 - Pollena Trocchia (Na)
Sede Operativa: via F.lli Bandiera, 1 - 80026 - Casoria (Na)

Tel/Fax: +39 081 8990496
Email: info@grivsrl.it
Web: www.grivsrl.it

DADI AUTOFISSANTI PER LAMIERA
SELF CLINCHING NUTS FOR THIN METAL

I dadi autofissanti C, CS e CSP garantiscono filettature resistenti a forti carichi di estrazione e di torsione su lamiere anche di minimo spessore (non inferiore a 0,8 mm). I dadi C e CS sono costruiti a norma delle specifiche militari MIL-N-45938/1.

C, CS and CSP nuts provide strong load-bearing thereads in sheet metal C, CS and nuts meet spec. features of MIL-N-45938/1.



C - **ACCIAIO ZINCATO** / ***STEEL WHITE ZINC***
per lamiere fino a 80 HRB / *sheet hardness max 80 HRB*

CS - **ACCIAIO INOX** / ***STAINLESS STEEL***
per lamiere fino a 70 HRB / *sheet hardness max 70 HRB*

CSP - **INOX INDURITO** / ***HARDENING STAINLESS STEEL***
per lamiere inox fino a 90 HRB / *sheet hardness max 90 HRB*

Filetto per Passo *Thread Size x Pitch*	**Tipo** */ Type*			**h** **Max**	**Spessore min. Lamiera** *Min. Sheet Thickness*	**H** **±0.25**	**B** **±0,25**	**D** **Max.**	**Foro** *Hole* **+0.08**	**Distanza Minima dal Bordo** *Min.Dist. to Edge*
	Acciaio Zincato *Steel white zinc*	**Acciaio Inox** *Stainless steel*	**Inox Indurito** *Hardening stainless steel*							
M2x0.4	**C M2 - 0**	**CS M2 - 0**	**-**	0.76	0.8	1.5	6.3	4.22	4.25	4.8
	C M2 - 1	**CS M2 - 1**	**-**	0.97	1					
	C M2 - 2	**CS M2 - 2**	**-**	1.37	1.4					
	C M2 - 3	**CS M2 - 3**	**-**	2.21	2.3					
M2.5x0.45	**C M2.5 - 0**	**CS M2.5 - 0**	**-**	0.76	0.8	1.5	6.3	4.22	4.25	4.8
	C M2.5 -1	**CS M2.5 - 1**	**-**	0.97	1					
	C M2.5 - 2	**CS M2.5 - 2**	**-**	1.37	1.4					
	C M2.5 - 3	**CS M2.5 - 3**	**-**	2.21	2.3					
M3x0.5	**C M3 - 0**	**CS M3 - 0**	**CSP M3 - 0**	0.76	0.8	1.5	6.3	4.22	4.25	4.8
	C M3 - 1	**CS M3 - 1**	**CSP M3 -1**	0.97	1					
	C M3 - 2	**CS M3 - 2**	**CSP M3 -2**	1.37	1.4					
	C M3 - 3	**CS M3 - 3**	**-**	2.21	2.3					
M3x0.5	**C 35M3 - 0**	**CS 35M3 - 0**	**-**	0.76	0.8	1.71	7.1	4.72	4.75	4.8
	C 35M3 - 1	**CS 35M3 - 1**	**-**	0.97	1					
	C 35M3 - 2	**CS 35M3 - 2**	**-**	1.37	1.4					
	C 35M3 - 3	**CS 35M3 - 3**	**-**	2.21	2.3					
M4x0.7	**C M4 - 0**	**CS M4 - 0**	**CSP M4 - 0**	**0.76**	**0.8**	2.0	7.9	5.38	5.4	6.9
	C M4 - 1	**CS M4 - 1**	**CSP M4 -1**	**0.97**	**1.0**					
	C M4 - 2	**CS M4 - 2**	**CSP M4 -2**	**1.37**	**1.4**					
	C M4 - 3	**CS M4 - 3**	**-**	**2.21**	**2.3**					

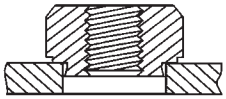
Filetto in pollici a richiesta
Dimension in inches available

DADI AUTOFISSANTI PER LAMIERA
SELF CLINCHING NUTS FOR THIN METAL

Filetto per Passo *Thread Size x Pitch*	Tipo / *Type*			h Max	Spessore min. Lamiera *Min. Sheet Thickness*	H ±0.25	B ±0,25	D Max.	Foro *Hole* +0.08	Distanza Minima dal Bordo *Min.Dist. to Edge*
	Acciaio Zincato *Steel white zinc*	Acciaio Inox *Stainless steel*	Inox Indurito *Hardening stainless steel*							
M5x0.8	C M5 - 0	CS M5 - 0	CSP M5 - 0	0.76	0.8	2.0	8.7	6.38	6.4	7.1
	C M5 - 1	CS M5 - 1	CSP M5 -1	0.97	1.0					
	C M5 - 2	CS M5 - 2	CSP M5 -2	1.37	1.4					
	C M5 - 3	CS M5 - 3	-	2.21	2.3					
M6x1.0	C M6 - 1	CS M6 - 1	CSP M6 -1	1.37	1.4	4.08	11.05	8.72	8.75	8.6
	C M6 - 2	CS M6 - 2	CSP M6 -2	2.21	2.3					
	C M6 - 3	CS M6 - 3	-	3.05	3.2					
M8x1.25	C M8 - 1	CS M8 - 1	CSP M8 -1	1.37	1.4	5.47	12.65	10.44	10.5	9.7
	C M8 - 2	CS M8 - 2	CSP M8 -2	2.21	2.3					
	C M8 - 3	CS M8 - 3	-	3.05	3.2					
M10x1.5	C M10 - 1	CS M10 - 1	-	2.21	2.3	7.5	17.35	13.9	14	11
	C M10 - 2	CS M10 - 2	-	3.05	3.1					
	C M10 - 3	CS M10 - 3	-	5.97	6.1					
M10x1.5	C 35M10 - 1	CS 35M10 - 1	-	2.21	2.3	6.72	14.3	12.65	12.7	11
	C 35M10 - 2	CS 35M10 - 2	-	3.05	3.1					
	C 35M10 - 3	CS 35M10 - 3	-	5.97	6.1					
M12x1.75	C M12 - 1	-	-	3.05	3.1	8.5	20.55	16.9	17	16
	C M12 - 2	-	-	5.97	6.1					

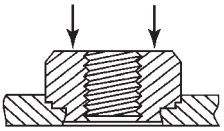
Filetto in pollici a richiesta
Dimension in inches available

DADI AUTOFISSANTI PER LAMIERA
SELF CLINCHING NUTS FOR THIN METAL



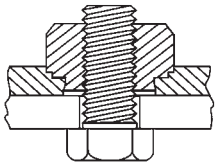
Il dado deve essere posizionato accuratamente nel foro.

Install nut squarely in the thru hole.



La pressione deve essere esercitata uniformemente sulla testa del dado.

With punch and nut parallel, apply squeezzing force.



Dati Tecnici *Performance Data*

Filetto *Thread code*	**Tipo** *Type*	**Codice** *Shank code*	**Tipi di Lamiera** *Sheet Material*	**Installazione** *Installation* **(kN)**	**Espulsione** *Pushout* **(N)**	**Avvitatura** *Torque-out* **(N• m)**
M2 **M2.5** **M3**	C / CS	0	5052-H34 Alluminio */Aluminum*	6.7-8.9	280	0.9
		1			400	1.13
		2			750	1.47
		0	Acciaio *Cold-rolled Steel*	11.2-15.6	470	1.47
		1			550	1.7
		2			1010	2.03
M4	C / CS	0	5052-H34 Alluminio */Aluminum*	11.2-13.4	300	2.37
		1			470	2.6
		2			970	4
		0	Acciaio *Cold-rolled Steel*	18-27	490	2.95
		1			645	4
		2			1250	5.1
M5	C CS	0	5052-H34 Alluminio */Aluminum*	11.2-15.6	300	3
		1			480	3.6
		2			845	5.7
		0	Acciaio *Cold-rolled Steel*	18-38	530	3.6
		1			800	4.5
		2			1112	6.8
M6	C CS	0	5052-H34 Alluminio */Aluminum*	18-32	970	7.9
		1			1580	10.2
		2				14.1
		0	Acciaio *Cold-rolled Steel*	27-36	1380	13
		1			1760	17
		2				
M8	C CS	1	5052-H34 Alluminio */Aluminum*	18-32	1570	13.6
		2				18.1
		1	Acciaio *Cold-rolled Steel*	27-36	1870	18.7
		2				20.3
M10	C CS	1	5052-H34 Alluminio */Aluminum*	22-36	1760	32.7
		2				
		1	Acciaio *Cold-rolled Steel*	32-50	2020	36.2
		2				

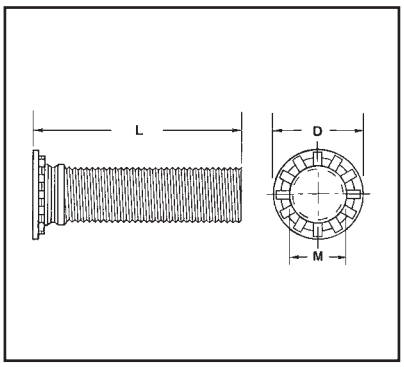
Filetto *Thread code*	**Tipo** *Type*	**Codice** *Shank code*	**Tipi di Lamiera** *Sheet Material*	**Installazione** *Installation* **(kN)**	**Espulsione** *Pushout* **(N)**	**Avvitatura** *Torque-out* **(N•m)**
M3	CSP	0	304 Acciaio inossidabile *Stainless Steel*	13-22	575	1.58
		1			725	1.92
		2			1290	2.03
M4	CSP	0	304 Acciaio inossidabile *Stainless Steel*	22-31	645	3.38
		1			800	4.18
		2			1600	5.08
M5	CSP	0	304 Acciaio inossidabile *Stainless Steel*	26-40	800	3.95
		1			1025	5.08
		2			1775	6.77
M6	CSP	1	304 Acciaio inossidabile *Stainless Steel*	40-48	2000	17

I valori di espulsione e avvitatura sono validi se vengono seguite con cura le specifiche di installazione.
Variazioni nel foro, nella lamiera e nelle procedure di installazione, modificano i valori.
Installation, pushout and torque-out values reported are averages when all installation specifications and procedures are followed.
Variations in mounting hole size, sheet material and installation procedure will affects this data.

PERNI AUTOFISSANTI PER LAMIERA
SELF CLINCHING STUDS FOR THIN METAL

I perni autofissanti CH / CHS / CHS4 / CHA a testa piatta permettono di creare filetti su lamiere sottili (spessore minimo 1 mm) con elevate garanzie di tenuta a torsione e trazione.

The studs CH / CHS / CHS4 / CHA provide a strong flush-head assembly in material as thin as 1 mm with high torque-out and puhout performance.



CH

CHS

CHS4

CHA

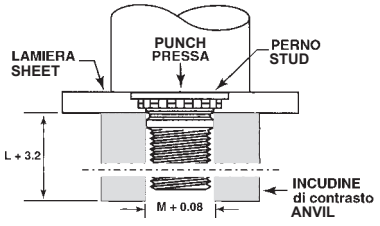
- **ACCIAIO ZINCATO** / ***STEEL WHITE Z INC***
  per lamiere fino a 80 HRB */sheet hard ness max 80 HRB*
- **ACCIAIO INOX** / ***STAINLESS STEEL***
  per lamiere fino a 70 HRB */sheet hardness max 70 HRB*
- **INOX 400** / ***STAINLESS STEEL 400***
  per lamiere inox fino a 92 HRB */sheet hardness max 92 HRB*
- **ALLUMINIO** / ***ALUMINIUM 2024 T4***
  per lamiere fino a 50 HRB */sheet hardness max 50 HRB*

Caratteristiche e Dimensioni
Specifications and Dimensions

Filetto *Thread code Iso 6H*	**Tipo** *Type*	**Lunghezza L** *Lenght* **±0.15**																**D** **±0.4**	**Foro** *Hole* **+0.08**	**Dist. Min.dal Bordo** *Min. Dist. to edge*
		6	8	10	12	15	16	18	20	22	25	28	30	35	38	40	50			
M2.5 x 0.45	CH M2.5 CHS M2.5 CHA M2.5	●	●	●	●	●	●	●	●	●	●							4.1	2.5	5.4
M3 x 0.5	CH M3 CHS M3 CHA M3 CHS4 M3	●	●	●	●	●	●	●	●	●	●	●	●					4.6	3.0	5.6
M4 x 0.7	CH M4 CHS M4 CHA M4 CHS4 M4	●	●	●	●	●	●	●	●	●	●	●	●	●	●			5.9	4.0	7.2
M5 x 0.8	CH M5 CHS M5 CHA M5 CHS4 M5	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		6.5	5.0	7.2
M6 x 01.0	CH M6 CHS M6 CHA M6 CHS4 M6		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	8.2	6.0	7.9
M8 x 1.25	CH M8 CHS M8 CHA M8			●	●	●	●	●	●	●	●	●	●	●	●	●		9.6	8.0	9.6

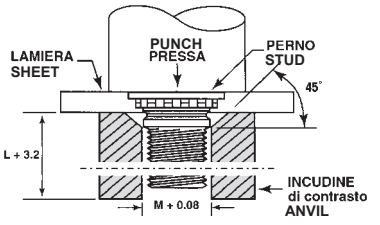
Filetto in pollici a richiesta
Dimension in inches available

PERNI AUTOFISSANTI PER LAMIERA
SELF CLINCHING STUDS FOR THIN METAL



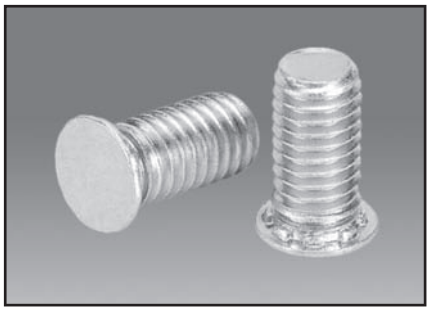
Esempio di installazione su lamiere minimo 1.5 mm e superiori, con filetto da M2.5 a M5 e per lamiere minimo 2.2 mm con filetto M6.

Tooling for sheet tichnesses 1,5 and greater with M3 - M5 threads and 2,4 and greater for M6 - M8 threads



Esempio di installazione su lamiere sino a 1.5 mm, con filetto da M2.5 a M5 e per lamiere fino a 2.2 mm con filetto M6.

Tooling for sheet thicknesses less than 1.5 mm with M3 - M5 threads and less then 2,4 mm for M6 threads



Dati Tecnici *Performance Data*

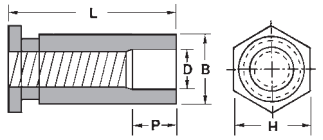
Filetto *Thread Code*	**Coppia Max di Serraggio Raccomandata** *Max. Nut Tightening Torque* **(N•m)**	**Tipo** *Type*	**Spessore e Materiale** *Sheet Thickness and Sheet Material*	**Durezza Lamiera** *Sheet Hardness* **HRB**	**Installazione** *Installation* **(kN)**	**Forza di Estrazione** *Pushout* **(N)**	**Coppia** *Torque-out* **(N•m)**
M2.5	0.41	CH	1.6 mm Alluminio */Aluminum*	29	8.9	625	1.1
		CHS	1.6 mm Alluminio */Aluminum*	29	11.6	625	0.9
		CH	1.5 mm Acciaio */Steel*	59	11.1	1025	1.1
		CHS	1.5 mm Acciaio */Steel*	59	13.8	1025	0.9
M3	0.74	CH	1.6 mm Alluminio */Aluminum*	29	12.9	890	1.7
		CHS	1.6 mm Alluminio */Aluminum*	29	12.9	890	1.3
		CH	1.5 mm Acciaio */Steel*	59	14.7	1250	1.7
		CHS	1.5 mm Acciaio */Steel*	59	14.7	1250	1.3
M4	1.7	CH	1.6 mm Alluminio */Aluminum*	29	20	1290	3.6
		CHS	1.6 mm Alluminio */Aluminum*	29	22.3	1290	3.4
		CH	1.5 mm Acciaio */Steel*	59	28.9	1780	5.1
		CHS	1.5 mm Acciaio */Steel*	59	26.7	1780	3.9
M5	3.5	CH	1.6 mm Alluminio */Aluminum*	29	24.5	1470	4.5
		CHS	1.6 mm Alluminio */Aluminum*	29	24.5	1470	4.5
		CH	1.5 mm Acciaio */Steel*	59	33.4	2440	7.3
		CHS	1.5 mm Acciaio */Steel*	59	32.5	2440	7.3
M6	5.9	CH	2.4 mm Alluminio */Aluminum*	28	28.9	2000	9
		CHS	2.4 mm Alluminio */Aluminum*	28	28.9	2000	8.4
		CH	2.2 mm Acciaio */Steel*	46	44.5	3110	13.6
		CHS	2.2 mm Acciaio */Steel*	46	44.5	3110	12.4
M8	14.2	CH	2.4 mm Alluminio */Aluminum*	28	29.8	2440	15.8
		CHS	2.4 mm Alluminio */Aluminum*	28	29.8	2440	15.8
		CH	2.4 mm Acciaio */Steel*	46	44.5	3780	21.5
		CHS	2.4 mm Acciaio */Steel*	46	49.8	3780	21.5
M3	0,9	CHS4	1,5 mm Inox*/Stainless steel*	92	40	3300	1,8
M4	2,1	CHS4	1,5 mm Inox*/Stainless steel*	92	50	4400	6,5
M5	4,3	CHS4	1,5 mm Inox*/Stainless steel*	92	53	4900	10,7

COLONNINE AUTOFISSANTI PER LAMIERA
SELF CLINCHING STANDOFFS

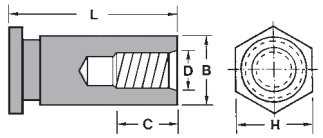
Le colonnine distanziali autofissanti CFSO / CFSOS - CFBSO / CFBSOS sono state progettate per una pratica e rapida installazione con qualsiasi normale attrezzatura pneumatica, idraulica o meccanica. I distanziali, sia con filetto passante sia con filetto cieco, sono utilizzati su lamiere di spessore non inferiore ad 1 mm. Non sono necessarie operazioni secondarie di alesatura o sbavatura prima dell'installazione.

CFSO / CFBSO / CFSOS / CFBSOS self clinching standoffs are designed for quick, easy istallation with any standard pneumatic, hydraulic or mechanical press through thereaded or blind standoffs are used in metal panels with thickness off 1 mm and up no secondary operation, such as reaming or deburring, is necessary prior to istallation.

Filetto PASSANTE
THRU-HOLE THEREADED



Filetto CIECO
BLIND THEREADED



CFSO - **ACCIAIO ZINCATO / *HEAT TREATED***
Filetto PASSANTE
Thru-hole thereaded
per lamiere fino a 80 HRB */carbon steel 80 or less HRB*

CFSOS - **ACCIAIO INOX / *303 STAINLESS***
Filetto PASSANTE
Thru-hole thereaded
per lamiere fino a 70 HRB / *steel 70 or less HRB*

CFBSO - **ACCIAIO ZINCATO / *HEAT TREATED***
Filetto CIECO
Blind thereaded
per lamiere fino a 80 HRB / *carbon steel 80 or less HRB*

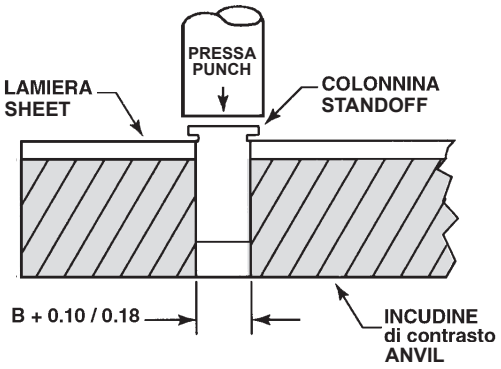
CFBSOS - **ACCIAIO INOX / *303 STAINLESS***
Filetto CIECO
Blind thereaded
per lamiere fino a 70 HRB / *steel 70 or less HRB*

Caratteristiche e Dimensioni
Specifications and Dimensions

Filetto *Thread code ISO 6H*	**Tipo** *Type*	**Lunghezza L** *Lenght* **+0.0,5 - 0,13**													**Foro** *Hole* **+0.08**	**B - 0.13**	**H**	**D ±0,13**	**Dist. Min.dal Bordo** *Min. Dist. to edge*
		3	4	5	6	8	10	12	14	16	18	20	22	25					
	P **±0,25**	0	0	0	0	0	4	4	4	8	8	8	11	11					
	C **±0,25**	0	0	0	3,2	4	4	5	6.5	6.5	9.5	9.5	9.5	9.5					
M2.5 x 0.45	CFSO CFSOS CFBSO CFBSOS		●	●	●	●	●	●							4.2	4.19	4.8	3.2	6.0
					●	●	●	●											
M3 x 0.5	CFSO CFSOS CFBSO CFBSOS	●	●	●	●	●	●	●	●	●	●	●	●	●	4.2	4.19	4.8	3.2	6.0
					●	●	●	●	●	●	●	●	●	●					
M3 x 0.5	CFSO CFSOS CFBSO CFBSOS	●	●	●	●	●	●	●	●	●	●	●	●	●	5.4	5. 38	6.4	3.2	7.0
					●	●	●	●	●	●	●	●	●	●					
M4 x 0.7	CFSO CFSOS CFBSO CFBSOS	●	●	●	●	●	●	●	●	●	●	●	●	●	7.2	7.11	7.9	4.8	8.0
					●	●	●	●	●	●	●	●	●	●					
M5 x 0.8	CFSO CFSOS CFBSO CFBSOS	●	●	●	●	●	●	●	●	●	●	●	●	●	7.2	7.11	7.9	5.2	8.0
					●	●	●	●	●	●	●	●	●	●					

Filetto in pollici a richiesta
Dimension in inches available

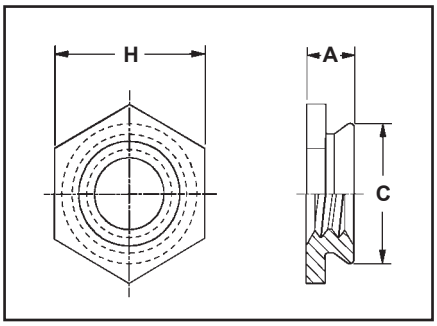
COLONNINE AUTOFISSANTI PER LAMIERA
SELF CLINCHING STANDOFFS



Dati Tecnici *Performance Data*

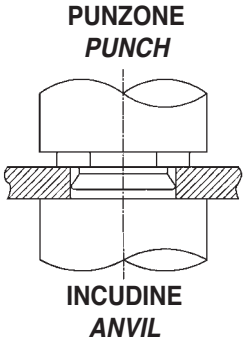
Filetto *Thread Code*	Materiale Colonnina *Standoff Material*	Coppia Max. Raccomandata *Max. Rec. Tightening Torque for Mating Screw* (N•m)	Materiale Lamiera / *Sheet Material*							
			1.5 mm 5052-H34 Alluminio / *Aluminum*				1.5 mm Lamiera di Ferro / *Cold-rolled Steel*			
			Installazione *Installation*	Espulsione *Pushout* (N)	coppia. Max *Torque out* (NM)	Strappo *Pull-thru* (N)	Installazione *Installation*	Espulsione *Pushout* (N)	Coppia. Max *Torque out* (NM)	Strappo *Pull-thru* (N)
M3	Acciaio *Steel*	0.55	4.9	710	1.24	1245	9.8	1000	2.15	1465
	Acciaio inoss. *Stainless Steel*	0.44	4.9	710	1.24	996	9.8	1000	2.15	1172
	Alluminio *Aluminum*	0.33	4.9	710	1.24	747	-	-	-	-
3.5M3	Acciaio *Steel*	0.55	7.6	1330	2.82	1375	14.7	1860	3.95	1690
	Acciaio inoss. *Stainless Steel*	0.44	7.6	1330	2.82	1100	14.7	1860	3.95	1352
	Alluminio *Aluminum*	0.33	7.6	1330	2.82	825	-	-	-	-
M4 M5	Acciaio *Steel*	2, 3.6	10.7	1780	5.08	2575	17.8	2490	8.47	3110
	Acciaio inoss. *Stainless Steel*	1.6, 2.88	10.7	1780	5.08	2060	17.8	2490	8.47	2488
	Alluminio *Aluminum*	1.2, 2.16	10.7	1780	5.08	1545	-	-	-	-

DADI AUTOFISSANTI FILO LAMIERA
SELF CLINCHING FLUS NUTS



CFL - ACCIAIO INOSSIDABILE
per lamiere fino a 70 HRB

STAINLESS STEEL
sheet hardness max 70 HRB



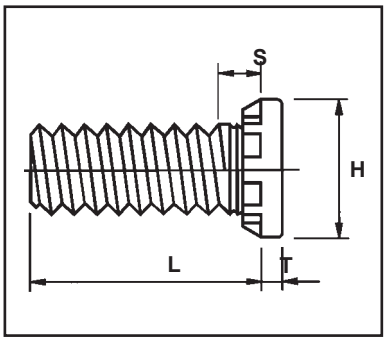
Filetto *Thread Size x Pitch*	**Articolo** *Type*	**Gambo** *Shank code*	**A max.**	**Spessore Lamiera** *Sheet Thickness*	**Foro** *Hole Size in Sheet* **+0.08**	**C max.**	**H max.**	**Dist. Min dal Bordo** *Min.Dist.Hole C/L to Edge*
M2x0.4	C F L M2	1	1.5	1.5-2.3	4.4	4.34	4.8	6
		2	2.3	2.32-oltre */up*				
M2.5x0.45	C F L M2.5	1	1.5	1.5-2.3	4.4	4.34	4.8	6
		2	2.3	2.32-oltre */up*				
M3x0.5	C F L M3	1	1.5	1.5-2.3	4.4	4.34	4.8	6
		2	2.3	2.32-oltre */up*				
M4x0.7	C F L M4	1	1.5	1.5-2.3	7.4	7.34	7.9	7.2
		2	2.3	2.32-oltre */up*				
M5x0.8	C F L M5	1	1.5	1.5-2.3	7.9	7.87	8.7	8
		2	2.3	2.32-oltre */up*				
M6x1	C F L M6	1	3.1	3.2-3.9	8.75	8.71	9.5	8.8
		2	3.9	4-4.7				
		3	4.7	4.72-oltre */up*				

Dati Tecnici *Performance Data*

Filetto *Thread Code*	**Gambo** *Shank Code*	**Max.Resist. Assiale** *Axial Tensile Strenght* **(kN)**	**Coppia** *Max. Screw Tightening Torque* **(N•m)**	**Materiale Lamiera** *Sheet Material*			
				5052-H34 Alluminio */ Aluminum*		**Ferro** */ Cold-rolled Steel*	
				Installazione */Installation* **(kN)**	**Espulsione** */Pushout* **(kN)**	**Installazione** */Installation* **(kN)**	**Espulsione** */Pushout* **(kN)**
M2	1	0.57	0.16	8.9	0.9	13.3	0.9
	2						
M2.5	1	0.68	0.23	8.9	0.9	13.3	0.9
	2						
M3	1	0.85	0.36	8.9	0.9	13.3	0.9
	2						
M4	1	1	0.58	8.9	1.1	17.8	1.1
	2						
M5	1	1.3	0.88	11.1	1.1	17.8	1.1
	2						
M6	1	4.5	3.7	15.6	2.8	20	3.7
	2						
	3						

Filetto in pollici a richiesta
Dimension in inches available

PERNI AUTOFISSANTI PER ALTE TENUTE DI COPPIA
SELF CLINCHING STUDS *FOR HIGH-STRENGHT APPLICATIONS*

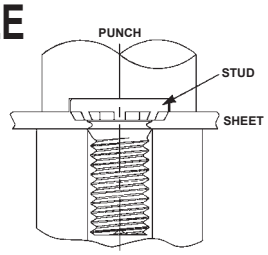


HCH - ACCIAIO ZINCATO BIANCO
per lamiere fino a 85 HRB

HEAT TREATED CARBON STEEL
sheet hardness max 85 HRB

HCHS - ACCIAIO INOSSIDABILE
per lamiere fino a 70 HRB

STAINLESS STEEL
sheet hardness max 70 HRB



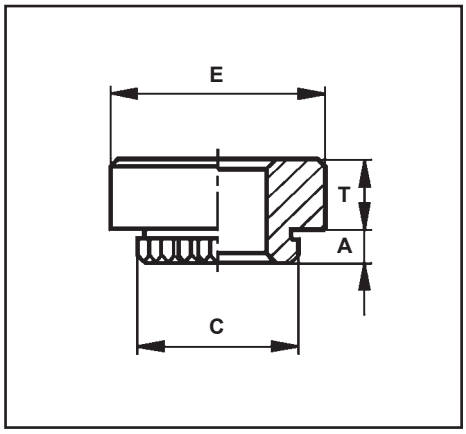
Filetto *Thread Size x Pitch*	**Tipo** */ Type*		**Filetto** *Thread Code*	**Lunghezza Filetto "L ±0.4** *Lenght code "L"* **±0.4** *(lenght code in millimeters)*							*Spessore Min. Lamiera Sheet Thick-ness*	**Foro** *Hole Size in Sheet* **+0.13**	*H* **±0.25**	*S Max.*	*T Max.*	**Distanza Min. dal Bordo** *Min.Dist. to Edge*
	Acciaio *Steel*	**Acciaio Inossidabile** *Stainless Steel*														
M5x0.8	HCH	HCHS	**M5**	15	20	25	30	35	40	50	1.3	5	7.8	2.7	1.14	10.7
M6x1	HCH	HCHS	**M6**	15	20	25	30	35	40	50	1.5	6	9.4	2.8	1.27	11.5
M8x1.25	HCH	HCHS	**M8**	15	20	25	30	35	40	50	2	8	12.5	3.5	1.78	12.7
M10x1.5	HCH	HCHS	**M10**	15	20	25	30	35	40	50	2.3	10	15.7	4.1	2.29	13.7

Dati Tecnici *Performance Data*

Filetto *Thread Code*	**Tipo** *Type*	**Coppia Max. Raccomandata** *Max. Nut Tightening Torque* **(N•m)**	**Spessore e Materiale** *Sheet Thickness and Sheet Material*	**Durezza Lamiera** *Sheet Hardness* **HRB**	**Installazione** *Installation* **(kN)**	**Forza di Estrazione** *Pushout* **(N)**	**Coppia Max.** *Torque-out* **(N•m)**
M5	HCH	4.4	1.5 mm Alluminio */ Aluminum*	15	13	778	5.4
	HCH	4.4	1.5 mm Acciaio */ Steel*	65	26	1556	8.1
	HCHS	4.4	1.62 mm Alluminio */ Aluminum*	35	12.4	1446	5.4
	HCHS	4.4	1.47 mm Acciaio */ Steel*	54	21.7	2026	8
M6	HCH	10	1.5 mm Alluminio */ Aluminum*	43	29	1620	16.3
	HCH	10	1.5 mm Acciaio */ Steel*	59	33	2020	16.4
	HCHS	10	1.62 mm Alluminio */ Aluminum*	35	15.4	1672	13.3
	HCHS	10	1.6 mm Acciaio */ Steel*	45	24.6	2019	14.2
M8	HCH	21.7	2.3 mm Alluminio */ Aluminum*	39	35.6	1780	31.2
	HCH	21.7	2.3 mm Acciaio */ Steel*	58	44.5	2890	36.6
	HCHS	21.7	2.23 mm Alluminio */ Aluminum*	44	24.4	1780	26.2
	HCHS	21.7	2.48 mm Acciaio */ Steel*	43	37.8	2890	32.6
M10	HCH	36.6	2.3 mm Alluminio */ Aluminum*	39	40	2445	38
	HCH	36.6	2.3 mm Acciaio */ Steel*	58	54	4000	48.8
	HCHS	36.6	2.3 mm Alluminio */ Aluminum*	44	33.3	2310	33.9
	HCHS	36.6	2.3 mm Acciaio */ Steel*	44	46.7	3870	43.3

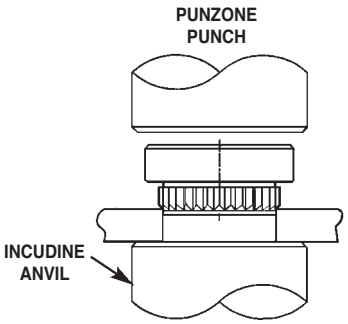
Filetto in pollici a richiesta
Dimension in inches available

DADI PER CIRCUITI STAMPATI
SELF CLINCHING NUTS *FOR PC BOARDS*



CKF2 - **ACCIAIO** *CARBON STEEL*

CKFS2 - **ACCIAIO INOX** *STAINLESS STEEL*



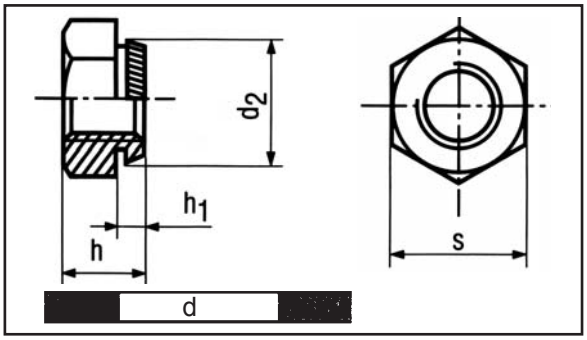
Filetto *Thread Size x Pitch*	**Tipo** */Type*		**Filetto** *Thread Code*	**A Max.**	**Min. Spessore Lamiera** *Min.Sheet Thickness*	**Foro** *Hole Size in Sheet +0.08*	**C ±0.08**	**E ±0.13**	**T ±0.13**	**Distanza min. dal Bordo** *Min.Dist to Edge*
	Acciaio *Carbon Steel*	**Acciaio Inox** *Stainless Steel*								
M2x0.4	CKF2	CKFS2	M2	1,5	1,5	3,7	4,19	5,56	1,5	4,2
M2,5x0.45	CKF2	CKFS2	M2,5	1,5	1,5	4,2	4,68	5,56	1,5	4,4
M3x0.5	CKF2	CKFS2	M3	1,5	1,5	4,2	4,68	5,56	1,5	4,4
M4x0.7	CKF2	CKFS2	M4	1,5	1,5	6,4	6,81	8,74	2	6,4
M5x0.8	CKF2	CKFS2	M5	1,5	1,5	6,9	7,37	9,53	3	7,1

Dati Tecnici *Performance Data*

Tipo /*Type*	**Filetto** *Thread Code*	**Coppia Max. Raccomandata** *Max. Nut Tightening Torque* **(N•m)**	**Spessore e Materiale** *Sheet Thickness & Sheet Material*	**Installazione** *Istallation (KN)*	**Forza di Estrazione** *Pushout (N)*	**Coppia Max.** *Torque out* **(N•m)**
CKF2 CKFS2	M3	-	1,5 mm FR-4 Fiberglass	2,2	200	1,35
	M4	-	1,5 mm FR-4 Fiberglass	2,2	330	3,73
	M5	-	1,5 mm FR-4 Fiberglass	2,9	350	4,52

Filetto in pollici a richiesta
Dimension in inches available

DADI ESAGONALI AUTOFISSANTI
HEXAGON SELF CLINCHING NUTS



- ACCIAIO CEMENTATO ZINCATO BIANCO
per lamiere fino a 80 HRB

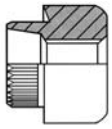
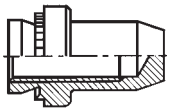
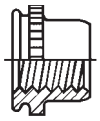
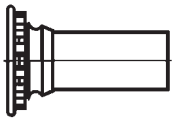
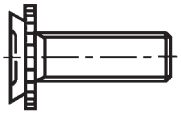
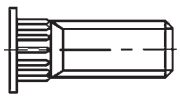
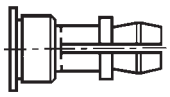
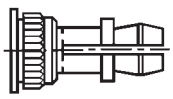
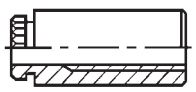
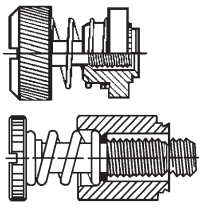
STEEL WHITE ZINC HARDENED
sheet hardness max 80 HRB

- ACCIAIO INOSSIDABILE
per lamiere fino a 70 HRB

STAINLESS STEEL *sheet hardness max 70 HRB*

Filetto per Passo *Thread Size x Pitch*	**Tipo** *Type*		**Spessore min. Lamiera** *Min. Sheet Thickness*	**S**	**d Foro** *Hole*	**d 2**	**h 1 altezza collare** *Collar height*	**h altezza totale** *Total height*
	Acciaio *Steel*	**Acciaio Inossidabile** *Stainless Steel*						
M 2	**K 02 - 09**	**KS 02 - 09**	1,0	5,5	4,5	4,70	**0,9**	3,0
M 2,5	**K 025 - 09**	**KS 025 - 09**	1,0	5,5	4,5	4,70	**0,9**	3,0
M 2,5	**K 025 - 14**	**KS 025 - 14**	1,5	5,5	4,5	4,70	**1,4**	3,0
M 2,5	**K 025 - 18**	**KS 025 - 18**	2,0	5,5	4,5	4,70	**1,8**	3,0
M 3	**K 03 - 09**	**KS 03 - 09**	1,0	5,5	4,5	4,70	**0,9**	3,0
M 3	**K 03 - 14**	**KS 03 - 14**	1,5	5,5	4,5	4,70	**1,4**	3,0
M 3	**K 03 - 18**	**KS 03 - 18**	2,0	5,5	4,5	4,70	**1,8**	3,0
M 4	**K 04 - 09**	**KS 04 - 09**	1,0	7,0	5,5	5,70	**0,9**	3,2
M 4	**K 04 - 14**	**KS 04 - 14**	1,5	7,0	5,5	5,70	**1,4**	3,2
M 4	**K 04 - 18**	**KS 04 - 18**	2,0	7,0	5,5	5,70	**1,8**	3,2
M 5	**K 05 - 09**	**KS 05 - 09**	1,0	8,0	6,5	6,75	**0,9**	4,0
M 5	**K 05 - 14**	**KS 05 - 14**	1,5	8,0	6,5	6,75	**1,4**	4,0
M 5	**K 05 - 18**	**KS 05 - 18**	2,0	8,0	6,5	6,75	**1,8**	4,0
M 6	**K 06 - 09**	**KS 06 - 09**	1,0	10,0	8,0	8,30	**0,9**	5,0
M 6	**K 06 - 14**	**KS 06 - 14**	1,5	10,0	8,0	8,30	**1,4**	5,0
M 6	**K 06 - 18**	**KS 06 - 18**	2,0	10,0	8,0	8,30	**1,8**	5,0
M 8	**K 08 - 18**	**KS 08 - 18**	2,0	13,0	10,0	10,30	**1,8**	6,5
M 10	**K 10 - 18**	**KS 10 - 18**	2,0	15,0	12,5	12,85	**1,8**	8,0
M 12	**K 12 - 28**	**KS 12 - 28**	3,0	17,0	14,5	14,85	**2,8**	10,0
M 16	**K 16 - 24**	**KS 16 - 24**	3,0	22,0	18,5	18,85	**2,4**	13,0
M 20	**K 20 - 38**	**KS 20 - 38**	4,0	27,0	23,0	23,40	**3,8**	16,0

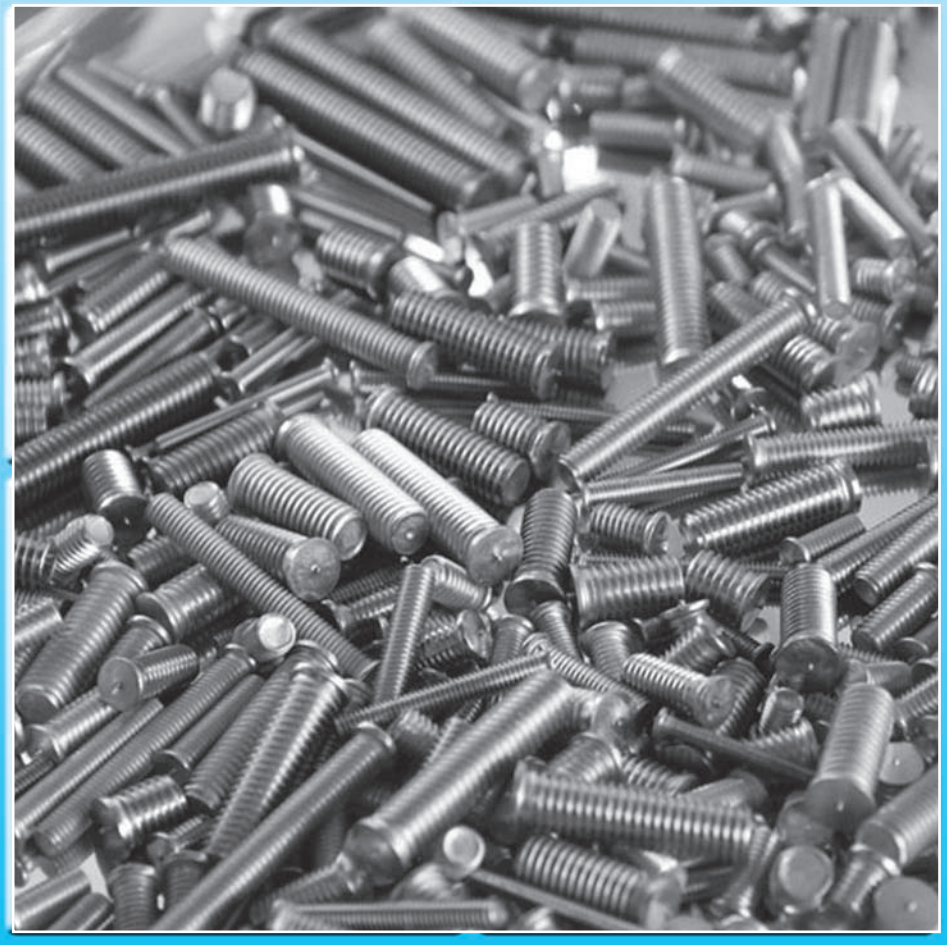
PRODOTTI DISPONIBILI A RICHIESTA
ITEMS AVAILABLE ON SPECIAL ORDER

	**DADI A RIBADIRE** ***RIVET BUSH***
	**DADO AUTOFISSANTE CIECO** ***SELF CLINCHING BLIND NUT***
	**DADO AUTOFISSANTE AUTOBLOCCANTE** ***SELF CLINCHING LOCKING NUT***
	**PERNO AUTOFISSANTE LISCIO** ***SELF CLINCHING PIN***
	**PERNO AUTOFISSANTE PER FORI CIECHI** ***SELF CLINCHING CONCEALED-HEAD STUD***
	**PERNO AUTOFISSANTE PER LAMIERE SOTTILI** ***SELF CLINCHING NON-FLUSH STUD***
	**PERNO AUTOFISSANTE PER CIRCUITI STAMPATI** ***BROACHING STUD***
	**DISTANZIALE AUTOFISSANTE** ***QUICK RELEASE STANDOFF***
	**DISTANZIALE AUTOFISSANTE PER CIRCUITO STAMPATO** ***QUICK RELEASE STANDOFF FOR PC BOARD***
	**DISTANZIALE AUTOFISSANTE PER CIRCUITO STAMPATO** ***BROACHING STANDOFF***
	**VITI IMPERDIBILI AUTOFISSANTI** ***PANEL FASTENERS ASSEMBLIES***

GRIV SRL

SOLUZIONI PER L'INDUSTRIA

4



PERNI A SALDARE
WELDING STUDS

GRIV SRL
Sede Legale: via Giuseppe Mazzini, 4 - 80040 - Pollena Trocchia (Na)
Sede Operativa: via F.lli Bandiera, 1 - 80026 - Casoria (Na)

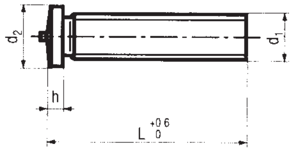
Tel/Fax: +39 081 8990496
Email: info@grivsrl.it
Web: www.grivsrl.it

ISTRUZIONI PER LA SALDATURA
WELDING INSTRUCTIONS

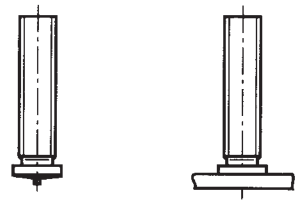
● **OK**
❍ **+ / -**
– **NO!**

MATERIALE DEL PRIGIONIERO *STUD MATERIAL*	**Materiale della base /** *Workpiece Material*								
	ACCIAIO fino a C35 *STEEL MAX C35*	**ACCIAIO fino a C60** *STEEL MAX C60*	**ACCIAIO ZINCATO** *STEEL ZINC PLATED*	**ACCIAIO INOX** *STAINLESS STEEL*	**OTTONE** *BRASS*	**RAME** *COPPER*	**Al 99,5**	**Al Mg3**	**Al Mg5**
ACCIAIO 4.8 RAMATO *STEEL 4.8 COPPER PLATED*	●	–	❍	❍	❍	❍	–	–	–
ACCIAIO INOX A2-50 *STAINLESS STEEL A2-50*	●	❍	❍	●	❍	❍	–	–	–
ALLUMINIO AlMg3 *ALUMINIUM AlMg3*	–	–	–	–	–	–	❍	●	❍
OTTONE *BRASS*	●	–	●	❍	●	●	–	–	–

PERNI FILETTATI A SALDARE A SCARICA DI CONDENSATORI
CAPACITOR DISCHARGE STUDS WITH EXTERNAL THREAD

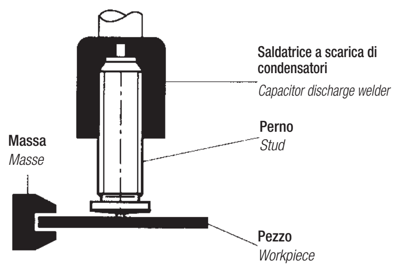


d1	M3	M4	M5	M6	M8
d2 +/- 0.2	4.5	5.5	6.5	7.5	9
h	0.7 - 1		0.8 - 1.4		

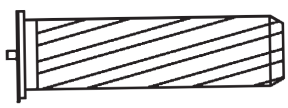


Prima della saldatura
Before welding

Dopo la saldatura
After welding

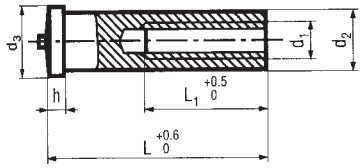


ACCIAIO 4.8 RAMATO *STEEL 4.8 COPPER PLATED*	**ACCIAIO INOX A2-50** *STAINLESS STEEL A2-50*	**ALLUMINIO AlMg3** *ALUMINIUM AlMg3*	**OTTONE** *BRASS*
M3 X 5 M3 X 6 M3 X 8 M3 X 10 M3 X 12 M3 X 14 M3 X 15 M3 X 16 M3 X 20 M3 X 25 M3 X 30 M3 x 35 M3 x 40 M3 x 45 M3 x 50	M3 X 6 M3 X 8 M3 X 10 M3 X 12 M3 X 15 M3 X 16 M3 X 20 M3 X 25 M3 X 30 M3 x 35 M3 x 40 M3 x 50	M3 X 6 M3 X 8 M3 X 10 M3 X 12 M3 X 15 M3 X 16 M3 X 20 M3 X 25 M3 X 30 M3 x 35 M3 x 40	M3 X 6 M3 X 8 M3 X 10 M3 X 12 M3 X 15 M3 X 16 M3 X 20 M3 X 25 M3 X 30 M3 x 35 M3 x 40
M4 X 6 M4 X 8 M4 X 10 M4 X 12 M4 X 15 M4 X 16 M4 X 20 M4 X 25 M4 X 30 M4 x 35 M4 x 40 M4 x 45	M4 X 6 M4 X 8 M4 X 10 M4 X 12 M4 X 15 M4 X 16 M4 X 20 M4 X 25 M4 X 30 M4 x 35 M4 x 40 M4 x 45 M4 x 50	M4 X 6 M4 X 8 M4 X 10 M4 X 12 M4 X 15 M4 X 16 M4 X 20 M4 X 25 M4 X 30 M4 x 35 M4 x 40 M4 x 45 M4 x 50	M4 X 6 M4 X 8 M4 X 10 M4 X 12 M4 X 15 M4 X 16 M4 X 20 M4 X 25 M4 X 30 M4 x 35 M4 x 40 M4 x 45 M4 x 50
M5 X 6 M5 X 8 M5 X 10 M5 X 12 M5 X 15 M5 X 16 M5 X 20 M5 X 25 M5 X 30 M5 x 35 M5 x 40 M5 x 45 M5 x 50	M5 X 6 M5 X 8 M5 X 10 M5 X 12 M5 X 15 M5 X 16 M5 X 20 M5 X 25 M5 X 30 M5 x 35 M5 x 40 M5 x 45 M5 x 50	M5 X 6 M5 X 8 M5 X 10 M5 X 12 M5 X 15 M5 X 16 M5 X 20 M5 X 25 M5 X 30 M5 x 35 M5 x 40 M5 x 45 M5 x 50	M5 X 6 M5 X 8 M5 X 10 M5 X 12 M5 X 15 M5 X 16 M5 X 20 M5 X 25 M5 X 30 M5 x 35 M5 x 40 M5 x 45 M5 x 50
M6 X 8 M6 X 10 M6 X 12 M6 X 15 M6 X 16 M6 X 20 M6 X 25 M6 X 30 M6 x 35 M6 x 40 M6 x 45 M6 x 50 M6 x 55	M6 X 8 M6 X 10 M6 X 12 M6 X 15 M6 X 16 M6 X 20 M6 X 25 M6 X 30 M6 x 35 M6 x 40 M6 x 45 M6 x 50 M6 x 55 M6 x 60	M6 X 8 M6 X 10 M6 X 12 M6 X 15 M6 X 16 M6 X 20 M6 X 25 M6 X 30 M6 x 35 M6 x 40 M6 x 45 M6 x 50 M6 x 55 M6 x 60	M6 X 8 M6 X 10 M6 X 12 M6 X 15 M6 X 16 M6 X 20 M6 X 25 M6 X 30 M6 x 35 M6 x 40 M6 x 45 M6 x 50 M6 x 55 M6 x 60
M8 X 10 M8 X 12 M8 X 15 M8 X 16 M8 X 20 M8 X 25 M8 X 30 M8 x 35 M8 x 40 M8 x 45 M8 x 50 M8 x 55 M8 x 60	M8 X 10 M8 X 12 M8 X 15 M8 X 16 M8 X 20 M8 X 25 M8 X 30 M8 x 35 M8 x 40 M8 x 45 M8 x 50 M8 x 55 M8 x 60		

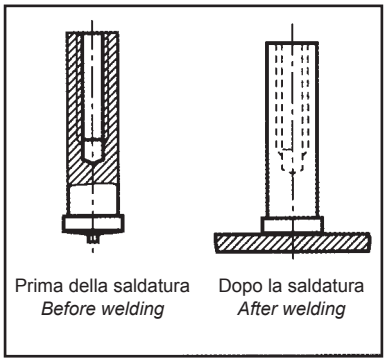


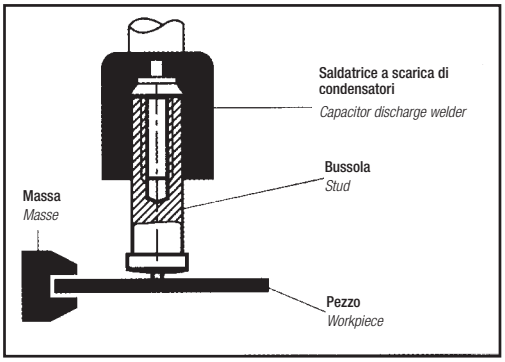
PERNO PER LA VERNICIATURA A RICHIESTA
STUD FOR PAINTING ON REQUEST

BUSSOLE FILETTATE A SALDARE A SCARICA DI CONDENSATORI
CAPACITOR DISCHARGE STUDS WITH INTERNAL THREAD



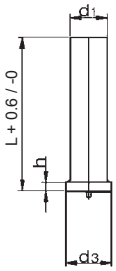
d1	M3	M4	M5	M6
d2	5	6	7.1	8
d3 +/- 0.2	6.5	7.5	9	9
L1	5	6	7.5	7.5
h	0.7 - 1.4			



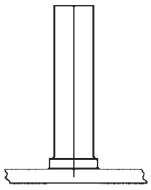


ACCIAIO 4.8 RAMATO *STEEL 4.8 COPPER PLATED*	**ACCIAIO INOX A2-50** *STAINLESS STEEL A2-50*	**ALLUMINIO AlMg3** *ALUMINIUM AlMg3*
M3 X 6 M3 X 8 M3 X 10 M3 X 12 M3 X 14 M3 X 15 M3 X 16 M3 X 20 M3 X 25 M3 X 30	M3 X 6 M3 X 8 M3 X 10 M3 X 12 M3 X 14 M3 X 15 M3 X 16 M3 X 20 M3 X 25 M3 X 30	M3 X 6 M3 X 8 M3 X 10 M3 X 12 M3 X 14 M3 X 15 M3 X 16 M3 X 20 M3 X 25 M3 X 30
M4 X 8 M4 X 10 M4 X 12 M4 X 15 M4 X 16 M4 X 20 M4 X 25 M4 X 30 M4 x 35 M4 x 40	M4 X 8 M4 X 10 M4 X 12 M4 X 15 M4 X 16 M4 X 20 M4 X 25 M4 X 30 M4 x 35 M4 x 40	M4 X 8 M4 X 10 M4 X 12 M4 X 15 M4 X 16 M4 X 20 M4 X 25 M4 X 30 M4 x 35 M4 x 40
M5 X 10 M5 X 12 M5 X 15 M5 X 16 M5 X 20 M5 X 25 M5 X 30	M5 X 10 M5 X 12 M5 X 15 M5 X 16 M5 X 20 M5 X 25 M5 X 30	M5 X 10 M5 X 12 M5 X 15 M5 X 16 M5 X 20
M6 X 15 M6 X 16 M6 X 20 M6 X 25 M6 X 30 M6 x 35 M6 x 40	M6 X 15 M6 X 16 M6 X 20 M6 X 25 M6 X 30 M6 x 35 M6 x 40	M6 X 12 M6 X 16 M6 X 20 M6 X 25

PERNI LISCI A SALDARE A SCARICA DI CONDENSATORI
CAPACITOR DISCHARGE STUDS NOT THREADED



Prima della saldatura
Before welding



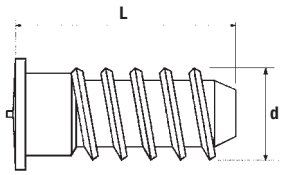
Dopo la saldatura
After welding

d1 +/- 0.1	3	4	5	6	7
d3 +/- 0.2	4.5	5.5	6.5	7.5	9
h	0.7-1.4		0.8-1.4		

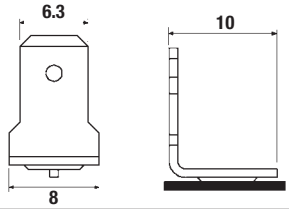
	ACCIAIO 4.8 RAMATO *STEEL 4.8 COPPER PLATED*			
3 X 6 3 X 8 3 X 10 3 X 12 3 X 15 3 X 16 3 X 20 3 X 25 3 X 30 3 x 35 3 x 40 3 x 45 3 x 50	4 X 6 4 X 8 4 X 10 4 X 12 4 X 15 4 X 16 4 X 20 4 X 25 4 X 30 4 x 35 4 x 40 4 x 45	5 X 6 5 X 8 5 X 10 5 X 12 5 X 15 5 X 16 5 X 20 5 X 25 5 X 30 5 x 35 5 x 40 5 x 45 5 x 50	6 X 8 6 X 10 6 X 12 6 X 15 6 X 16 6 X 20 6 X 25 6 X 30 6 x 35 6 x 40 6 x 45 6 x 50 6 x 55	7.1 X 10 7.1 X 12 7.1 X 15 7.1 X 16 7.1 X 20 7.1 X 25 7.1 X 30

	ACCIAIO INOX A2-50 *STAINLESS STEEL A2-50*			
3 X 6 3 X 8 3 X 10 3 X 12 3 X 15 3 X 16 3 X 20 3 X 25 3 X 30 3 x 35 3 x 40 3 x 45 3 x 50	4 X 6 4 X 8 4 X 10 4 X 12 4 X 15 4 X 16 4 X 20 4 X 25 4 X 30 4 x 35 4 x 40 4 x 45	5 X 6 5 X 8 5 X 10 5 X 12 5 X 15 5 X 16 5 X 20 5 X 25 5 X 30 5 x 35 5 x 40 5 x 45 5 x 50	6 X 8 6 X 10 6 X 12 6 X 15 6 X 16 6 X 20 6 X 25 6 X 30 6 x 35 6 x 40 6 x 45 6 x 50 6 x 55	7.1 X 10 7.1 X 12 7.1 X 15 7.1 X 16 7.1 X 20 7.1 X 25 7.1 X 30

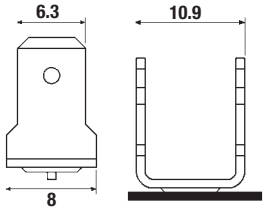
PERNO SPECIALE A SCARICA DI CONDENSATORI
SPECIAL CAPACITOR DISCHARGE STUD
MATERIALE
MATERIAL
ACCIAIO 4.8 RAMATO
STEEL 4.8 COPPER PLATED



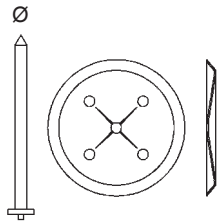
D x L
d. 5 x 9
d. 5 x 14,2
d. 5 x 18
d. 5 x 25



FASTON SINGOLO
SINGLE FASTON
ACCIAIO 4.8 RAMATO
STEEL 4.8 COPPER PLATED
ALLUMINIO AlMg3
ALUMINIUM AlMg3
ACCIAIO INOX A2-50
STAINLESS STEEL A2-50

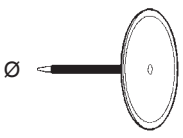


FASTON DOPPIO
DOUBLE FASTON
ACCIAIO 4.8 RAMATO
STEEL 4.8 COPPER PLATED
ALLUMINIO AlMg3
ALUMINIUM AlMg3
ACCIAIO INOX A2-50
STAINLESS STEEL A2-50



CHIODI PER ISOLAMENTO / *INSULATION PINS*

MAT.	L. mm.	Ø mm	rondella *washer*
Fe37	20 - 100	2	38
AISI 304	20 - 150	3	38



CHIODI PER ISOLAMENTO / *INSULATION PINS*

MAT.	L. mm.	Ø mm	rondella *washer*
Fe37	9.5 - 54	2	30
AISI 304	9.5 - 152	2.7	38

SALDATRICI A SCARICA DI CONDENSATORI
CAPACITOR DISCHARGE WELDERS

33

UTILIZZO
CAPACITY

M3 - M4 Alluminio
M3 - M4 Aluminium
M3 - M4 - M5 Ferro - Inox
M3 - M4 - M5 Steel - Stainless steel

PESO *WEIGHT* **10 Kg.**

66

UTILIZZO
CAPACITY

M3 - M8 Alluminio - Ferro - Inox
M3 - M8 Aluminium - Steel - Stainless steel

PESO *WEIGHT* **14 Kg.**

66 2T

UTILIZZO
CAPACITY

M3 - M8 Alluminio - Ferro - Inox
M3 - M8 Aluminium - Steel - Stainless steel

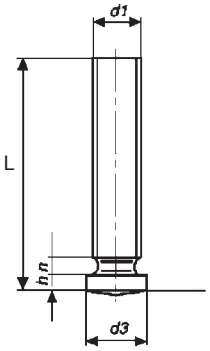
PESO *WEIGHT* **20.5 Kg.**

Saldatrice utilizzabile con 2 pistole
Welder usable with 2 guns

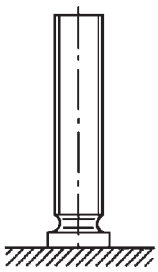
ACCESSORI / *ACCESSORIES*

Porta perni / *Chuck M3 - M10* 	**Porta perni per faston** *Chuck for faston* 	**Angolare /** *Corner cantilever* 

PERNI A SALDARE AD ARCO CORTO
DRAWN-ARC STUDS



Prima della saldatura
Before welding

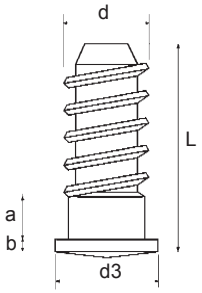


Dopo la saldatura
After welding

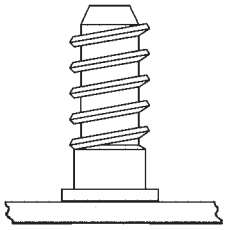
MATERIALE
MATERIAL
ACCIAIO 4.8 RAMATO
STEEL 4.8 COPPER PLATED
ACCIAIO INOX A2-50
STAINLESS STEEL A2-50

d1	M3	M4	M5	M6	M8	M10
d3 +/- 0.2	4	5	6	7	9	11
h	0.7 - 1.4		0.8 - 1.4			
n max	1.5		2			
L +0.6 /- 0	6 - 30 mm	6 - 40 mm	8 - 45 mm	8 - 55 mm	10 - 55 mm	16 - 60 mm

PERNI SPECIALI AD ARCO CORTO
DRAWN-ARC SPECIAL STUDS



Prima della saldatura
Before welding



Dopo la saldatura
After welding

MATERIALE
MATERIAL
ACCIAIO 4.8 RAMATO
STEEL 4.8 COPPER PLATED

d +/- 0.1	5	5	5	5	5	5
d3 +/- 0.3	6	6	6	6	6	6
b +/- 0.15	0.7					
a max	2.3	3				
L + /- 0.3	9.2	12	14.2	16.5	18.5	25

SALDATRICE AD ARCO CORTO
DRAWN-ARC WELDER

550

UTILIZZO
CAPACITY

M2 - M10 Alluminio - Ferro - Inox
M2 - M10 Aluminium - Steel - Stainless steel
Ø 2 - Ø 10 Alluminio - Ferro - Inox
Ø 2 - Ø 10 Aluminium - Steel - Stainless steel

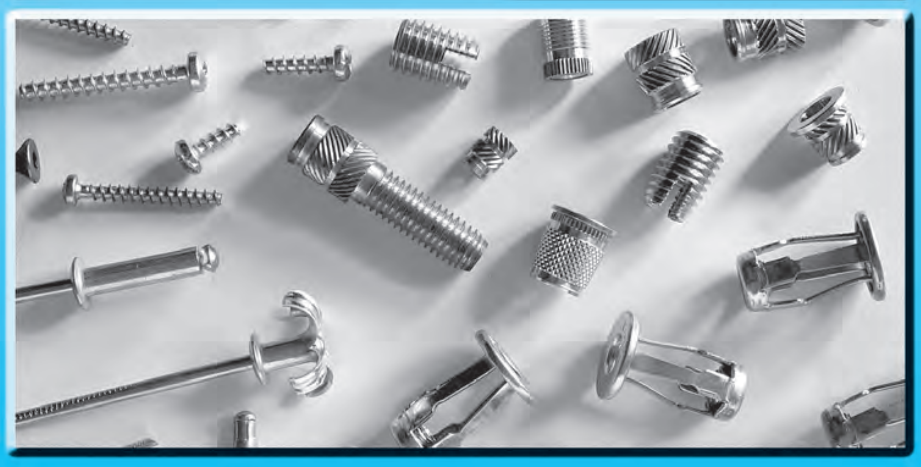
PESO
WEIGHT

41 Kg.

GRIV SRL

SOLUZIONI PER L'INDUSTRIA

5



FISSAGGI PER MATERIE PLASTICHE

FASTENERS FOR PLASTICS

GRIV SRL

Sede Legale: via Giuseppe Mazzini, 4 - 80040 - Pollena Trocchia (Na)

Sede Operativa: via F.lli Bandiera, 1 - 80026 - Casoria (Na)

Tel/Fax: +39 081 8990496

Email: info@grivsrl.it

Web: www.grivsrl.it

INDICE
GENERAL INDEX

INSERTI FILETTATI IN OTTONE TIPO FXSL
INSERIMENTO A CALDO O ULTRASUONI

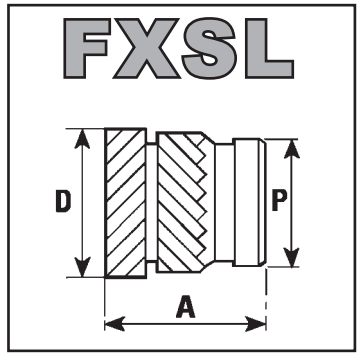
THREADED INSERTS IN BRASS FXSL TYPE
INSTALLATION USING HEAT OR ULTRASONICS

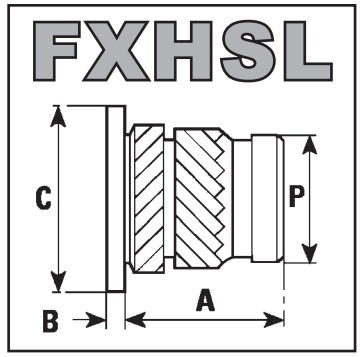
FXSL e FXHSL sono inserti in ottone, da utilizzare su materiali termoplastici. Le godronature invertite ne garantiscono un'ottima tenuta alla trazione ed alla rotazione. Possono anche essere inseriti in costampaggio.

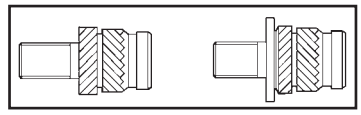
FXSL and FXHSL are brass inserts designed for thermoplastics materials. It features opposed helical knurl bands to provide a combination of high torque and pull out resistance. Can be moulded in.

Filetto interno *Internal Theread*	**A**	**B**	**C**	**D**	**P**	**Ø foro** *Ø hole* **- 0,00 + 0,10**	**Spess. minimo parete** *Min. wall thickness*
M 2	4,0*	0,53	4,8	3,6	3,1	3,2	1,3
M 2,5	5,7*	0,61	5,5	4,6	3,9	4,0	1,6
M 3	5,7*	0,61	5,5	4,6	3,9	4,0	1,6
M 4	8,1*	0,91	7,1	6,3	5,5	5,6	2,1
M 5	9,5*	1,09	7,9	7,1	6,3	6,4	2,6
M 6	12,7*	1,35	9,5	8,7	7,9	8,0	3,3
M 8	12,7	1,35	11,1	10,2	9,5	9,6	4,5
M 10	12,7	1,60	14,0	12,6	11,8	11,9	6,0
M 12	15,9	2,00	19,0	16,7	15,8	16,0	8,0

*** DISPONIBILI ALTEZZE RIDOTTE /** *AVAILABLE SHORTER LENGTHS*





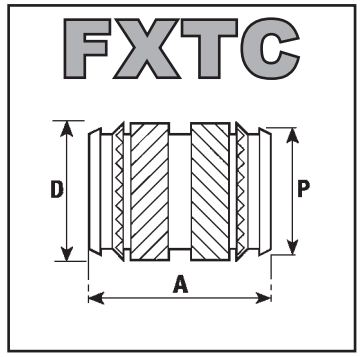


VERSIONE PRIGIONIERO A RICHIESTA
STUD VERSION ON REQUEST

FXTC é un inserto filettato in ottone con le stesse caratteristiche di tenuta del FXSL. La forma simmetrica permette l'utilizzo durante lo stampaggio della plastica ed è consigliato anche per l'inserimento in automatico.

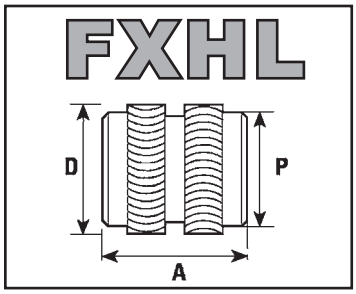
FXTC is a brass insert with the same performance or FXSL. Installation is simplified by the symmetrical nature or the insert, eliminating the need for orientation during automated or hand feeding.

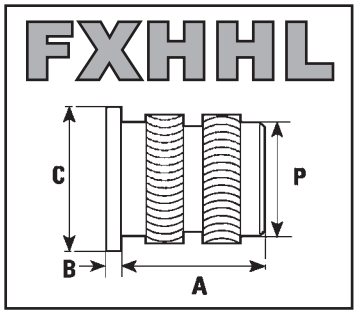
Filetto interno *Internal Theread*	**A**	**D**	**P**	**Ø foro** *Ø hole* **- 0,00 + 0,10**	**Spess. minimo parete** *Min. wall thickness*
M 2	4,0	3,5	3,1	3,2	1,3
M 2,5	5,7	4,4	3,9	4,0	1,6
M 3	5,7	4,4	3,9	4,0	1,6
M 4	8,1	6,1	5,5	5,6	2,1
M 5	9,5	6,8	6,3	6,4	2,6
M 6	12,7	8,5	7,9	8,0	3,3
M 8	12,7	10,0	9,5	9,6	4,5
M 10	12,7	12,3	11,8	11,9	6,0
M 12	15,9	16,3	15,8	16,0	8,0

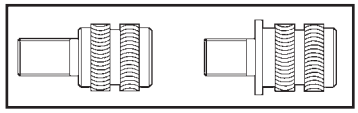


INSERIMENTO A CALDO
INSTALLATION USING HEAT

INSERTI FILETTATI IN OTTONE TIPO FXHL
INSERIMENTO A CALDO
THREADED INSERTS IN BRASS FXHL TYPE
INSTALLATION USING HEAT







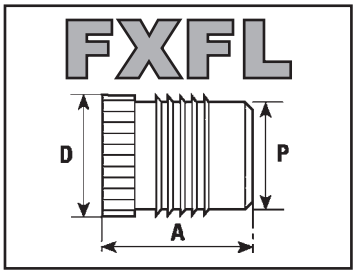
VERSIONE PRIGIONIERO A RICHIESTA
STUD VERSION ON REQUEST

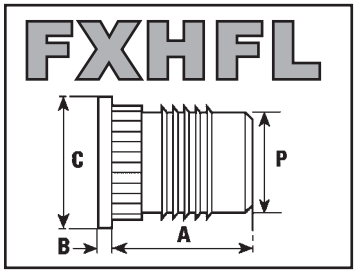
FXHL e FXHHL sono inserti in ottone, per l'installazione su materiali termoplastici amorfi, sensibili all'intaglio. Caratterizzati da zigrinature arrotondate e non taglienti. Possono anche essere inseriti in costampaggio.

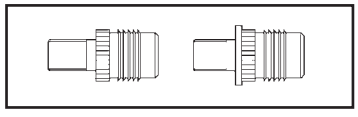
FXHL and FXHHL are brass inserts used in amorphous thermoplastics often sensitive to notch. Typical are the rounded knurls that doesn't cut the plastic.
Can be moulded in.

Filetto interno *Internal Theread*	**A**	**B**	**C**	**D**	**P**	**Ø foro** *Ø hole* **- 0,00 + 0,10**	**Spess. minimo parete** *Min. wall thickness*
M 2	3,9	0,51	4,8	3,5	3,1	3,2	1,4
M 2,5	5,8	0,58	5,5	4,4	3,9	4,0	1,8
M 3	5,8	0,58	5,5	4,4	3,9	4,0	1,8
M 4	8,1	0,89	7,1	6,1	5,5	5,6	2,4
M 5	9,5	1,07	7,9	6,9	6,3	6,4	2,8
M 6	12,7	1,32	9,5	8,5	7,9	8,0	3,6
M 8	12,7	1,32	11,1	10,0	9,5	9,6	5

INSERTI FILETTATI IN OTTONE TIPO FXFL
INSERIMENTO A PRESSIONE
THREADED INSERTS IN BRASS FXFL TYPE
INSTALLATION BY ACTION PRESS







VERSIONE PRIGIONIERO A RICHIESTA
STUD VERSION ON REQUEST

FXFL - FXHFL sono inserti in ottone, da installare a pressione su materiali termoplastici teneri e medi.

FXFL - FXHFL are press-in brass inserts which can be installed into soft and medium thermoplastics materials

Filetto interno *Internal Theread*	**A**	**B**	**C**	**D**	**P**	**Ø foro** *Ø hole* **- 0,00 + 0,10**	**Spess. minimo parete** *Min. wall thickness*
M 2	4,0	0,45	4,8	3,7	3,1	3,2	1,6
M 2,5	4,8	0,58	5,5	4,5	3,9	4,0	2,0
M 3	4,8	0,58	5,5	4,5	3,9	4,0	2,0
M 4	7,9	0,89	7,1	6,1	5,5	5,6	2,8
M 5	9,5	1,07	7,9	7,0	6,3	6,4	3,2
M 6	12,7	1,32	9,5	8,6	7,9	8,0	4,0
M 8	12,7	1,32	11,1	10,2	9,5	9,6	4,8

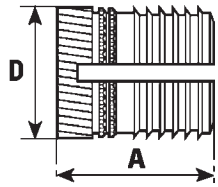
INSERTI FILETTATI IN OTTONE TIPO FXPLK
INSERIMENTO A PRESSIONE
THREADED INSERTS IN BRASS FXPLK TYPE
INSTALLATION BY ACTION PRESS

FXPLK é un inserto in ottone, per l'installazione rapida su materiali termoplastici teneri e medi.
Dopo l'inserimento ha un leggero effetto autofrenante sulla vite.

FXPLK is a press-in expansion brass insert, used in soft and medium thermoplastics. After installation it's a little bit self locking.

Filetto interno *Internal Theread*	**A**	**D**	**Ø foro** *Ø hole* **- 0,00 + 0,10**	**Spess. minimo parete** *Min. wall thickness*
M 2	4,0	3,5	3,2	1,6
M 2,5	5,8*	4,4	4,0	2,0
M 3	5,8*	4,4	4,0	2,0
M 4	8,2*	6,1	5,6	2,8
M 5	9,5*	6,8	6,4	3,2
M 6	12,7*	8,5	8,0	4,0
M 8	12,7	10,0	9,6	4,8

FXPLK



* **DISPONIBILI ALTEZZE RIDOTTE /** AVAILABLE SHORTER LENGTHS

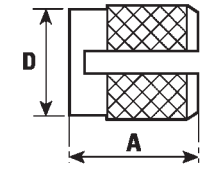
INSERTI FILETTATI IN OTTONE TIPO FXBL
INSERIMENTO A PRESSIONE
THREADED INSERTS IN BRASS FXBL TYPE
INSTALLATION BY ACTION PRESS

FXBL - FXHBL - FXHBLR sono inserti in ottone ad inserimeno a pressione con tenuta ad espansione. Ideale per termoindurenti.
Dopo l'inserimento ha un leggero effetto autofrenante sulla vite.

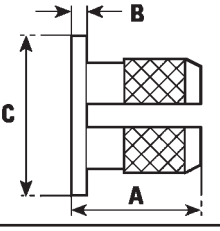
FXBL - FXHBL - FXHBLR are press-in expansion brass inserts used in hard thermosetting plastics. after installation it's a little bit self locking.

Filetto interno *Internal Theread*	**A**	**B**	**C**	**D**	**Ø foro** *Ø hole* **- 0,00 + 0,10**	**Spess. minimo parete** *Min. wall thickness*
M 2	3,9	0,43	4,8	3,2	3,2	2,4
M 2,5	4,7	0,51	5,5	4,0	4,0	3,2
M 3	4,7	0,51	5,5	4,0	4,0	3,2
M 4	7,9	0,82	7,1	5,5	5,6	4,0
M 5	9,4	0,99	7,9	6,3	6,4	4,8
M 6	12,6	1,25	9,5	7,9	8,0	6,0
M 8	12,6	1,25	11,1	9,5	9,6	7,0

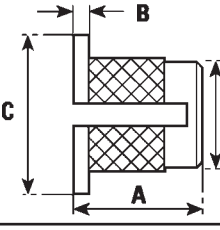
FXBL



FXHBL



FXHBLR

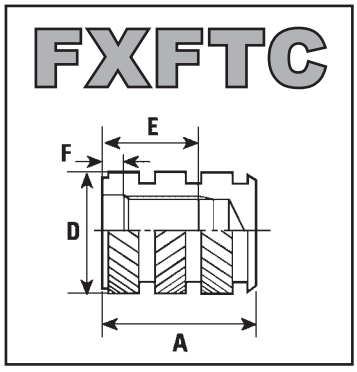


INSERTI FILETTATI IN OTTONE CIECHI TIPO FXFTC
INSERIMENTO COSTAMPAGGIO

BLIND ENDED THREADED BRASS INSERTS FXFTC TYPE
MOULD-IN INSTALLATION

FXFTC é un inserto in ottone, cieco studiato per il costampaggio.

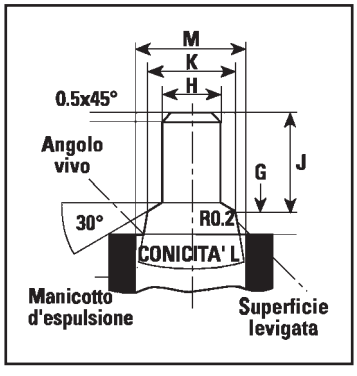
FXFTC is a blind ended threaded brass insert ideal for mould in.

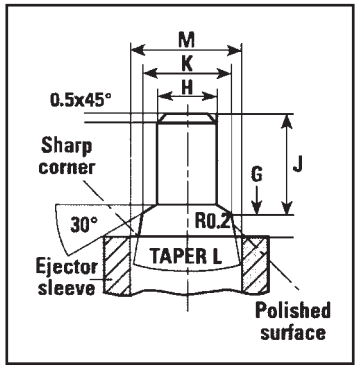


Filetto interno *Internal Theread*	A *	D	E min.	F
M 2	5,5	3,4	3,6	1,0
M 2,5	6,4	4,3	4,0	1,2
M 3	7,3	4,7	4,6	1,3
M 4	10,2	6,3	6,7	1,8
M 5	11,2	7,3	7,4	2,0
M 6	14,4	9,8	8,1	2,0
M 8	16,5	11,4	11,1	2,3
M 10	17,9	13,8	11,9	2,4

* **ALTEZZE SPECIALI SU RICHIESTA /** *AVAILABLE SPECIAL LENGTHS*

SPINA DI RIFERIMENTO SULLO STAMPO
LOCATING PIN





Filetto interno *Internal Theread*	G -020 +040 mm	H -025 +000 mm	J -100 +100 mm	K -0125 +0125 mm	L inclusi gradi inclusive degrees	M mm
M 2	0,80	1,55	2,65	2,300	6	3,00
M 2,5	0,90	2,00	3,00	2,800	5	3,50
M 3	1,05	2,45	3,40	3,125	4,5	4,00
M 4	1,55	3,25	5,00	4,425	4,5	5,40
M 5	1,70	4,15	5,55	5,125	5	6,00
M 6	1,80	4,95	6,15	6,500	5,5	8,00
M 8	2,00	6,70	9,00	8,500	6	10,00
M 10	2,10	8,40	9,70	10,500	6	12,00

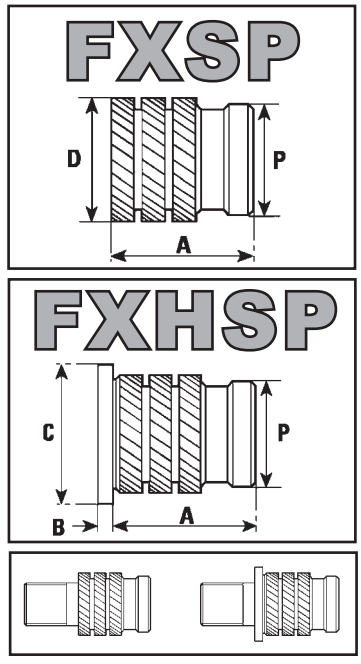
INSERTI FILETTATI IN OTTONE TIPO FXSP
INSERIMENTO A PRESSIONE

THREADED INSERTS IN BRASS FXSP TYPE
INSTALLATION BY ACTION PRESS

FXSP - FXHSP sono inserti in ottone, studiati per l'utilizzo nei termoindurenti.
Le zigrinature permettono una grande resistenza alla torsione.

FXSP - FXHSP are press-in brass inserts ideal for thermosetting materials.
Higt torque resistance.

Filetto interno *Internal Theread*	**A**	**B**	**C**	**D**	**P**	**Ø foro** *Ø hole* **- 0,00 + 0,10**	**Spess. minimo parete** *Min. wall thickness*
M 2	4,1	0,51	4,8	3,3	3	3,1	1,6
M 2,5	5,3	0,58	5,5	4,2	3,7	3,8	2,0
M 3	5,3	0,58	5,5	4,2	3,7	3,8	2,0
M 4	7,4	0,89	7,1	5,8	5,3	5,4	2,5
M 5	8,3	1,07	7,9	6,6	6,1	6,2	2,5
M 6	9,2	1,32	9,5	8,2	7,7	7,8	2,8
M 8	9,2	1,32	11,1	9,7	9,3	9,3	3,8
M 10	9,2	1,32	14,0	12,7	12,2	12,3	5,0



VERSIONE PRIGIONIERO A RICHIESTA
STUD VERSION ON REQUEST

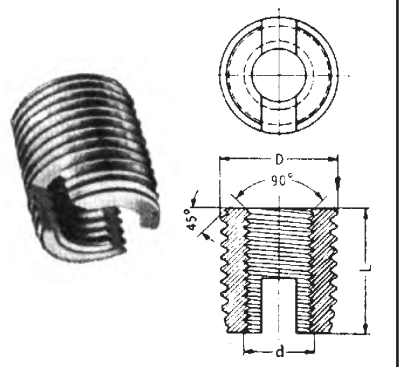
BUSSOLE AUTOFILETTANTI TIPO FXSCT
INSERIMENTO CON UTENSILE MANUALE O CON MASCHIATRICE

THREADED INSERTS SELF-TAPPING FXSCT TYPE
INSTALLATION WITH HAND TOOL OR TAPPING MACHINE

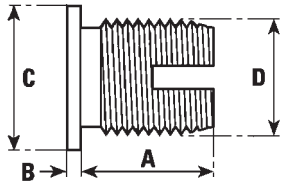
Le bussole autofilettanti FXSCT e FXHSCT vengono avvitate sia su termoplastici sia su termoindurenti.
E' ottima la loro tenuta al taglio ed alla trazione.
Disponibili in ottone, in acciaio temprato ed in inox.

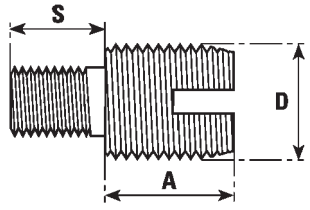
FXSCT and FXHSCT are self tapping inserts suitable for thermoplastics and thermosetting materials.
High pull-out resistance.
Available in brass, steel hardened or stainless steel.

FXSCT



FXHSCT





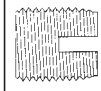
VERSIONE PRIGIONIERO A RICHIESTA
STUD VERSION ON REQUEST

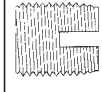
FILETTO INTERNO *Internal Theread*	**d Filetto int.** *Internal Theread*	**D Filetto est.** *External Theread*	**ø indicativi di foratura*** *Rec. hole size*	**Profondità min. del foro** *Min. depth hole*	**L**	**B**	**C**
M 2,5	2,5 x 0,45	4,5 x 0,5	4,0 - 4,3	8,0	6,0	0,58	6,0
M 3	3,0 x 0,5	5,0 x 0,5	4,5 - 4,8	8,0	6,0	0,58	6,5
M 4	4,0 x 0,7	6,5 x 0,75	5,8 - 6,2	10,0	8,0	0,89	8,0
M 5	5,0 x 0,8	8,0 x 1,0	7,1 - 7,6	13,0	10,0	1,06	9,5
M 6A	6,0 x 1,0	9,0 x 1,0	8,1 - 8,6	15,0	12,0	1,32	12,5
M 6	6,0 x 1,0	10,0 x 1,5	8,6 - 9,4	17,0	14,0	1,32	14,0
M 8	8,0 x 1,25	12,0 x 1,25	10,6 - 11,4	18,0	15,0	1,57	16,0
M 10	10,0 x 1,5	14,0 x 1,5	12,6 - 13,4	22,0	18,0	1,57	18,0
M 12	12,0 x 1,75	16,0 x 1,5	14,6 - 15,4	26,0	22,0	-	-
M 14	14,0 x 2,0	18,0 x 1,5	16,6 - 17,4	28,0	24,0	-	-
M 16	16,0 x 2,0	20,0 x 1,5	18,6 - 19,4	27,0	22,0	-	-

* La scelta del ø di foratura dipende dalla durezza del materiale di base.

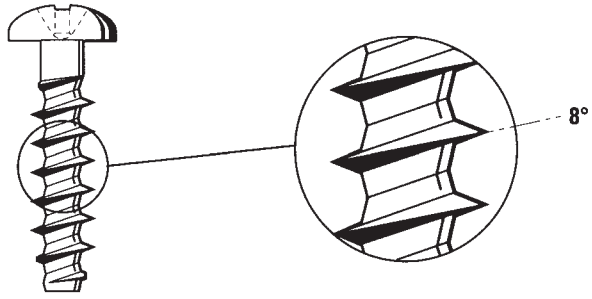
* Hole diameter will vary with the type of plastic material used.

GUIDA ALLA SCELTA DELL'INSERTO
INSERT SELECTOR CHART

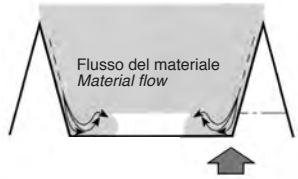
Caratteristiche del materiale **Material Characteristics**	**FXSL** 	**FXTC** 	**FXHL** 	**FXFL** 	**FXPLK** 	**FXBL** 	**FXFTC** 	**FXSP** 	**FXSCT** 
Termoplastici duri Hard Thermoplastics PA - PPS - PBT - PC/ABS	**OK**	**OK**	+/-	NO	NO	NO	**OK**	NO	+/-
Termoplastici medi Medium Thermoplastics ABS - PA - POM - PVC	**OK**	**OK**	+/-	**OK**	**OK**	NO	**OK**	NO	**OK**
Termoplastici teneri Soft Thermoplastics PP - PE - HDPE	**OK**	**OK**	NO	**OK**	**OK**	NO	**OK**	NO	**OK**
Termoplastici amorfi Amorphous Thermoplastics PPO - PC	**OK caldo** **OK heat** **No ultrasuoni** **No ultrasinics**	**OK caldo** **OK heat** **No ultrasuoni** **No ultrasinics**	**OK**	NO	NO	NO	**OK**	NO	NO
Termoindurenti Thermosetting	NO	NO	NO	NO	NO	**OK**	**OK**	**OK**	+/-
Poliesteri termoindurenti Thermosetting polyester SMC - DMC - BMC	NO	NO	NO	NO	NO	NO	**OK**	+/-	+/-
Schiume termoplastiche Foams thermoplastics	+/-	+/-	+/-	NO	NO	NO	**OK**	NO	**OK**
Schiume termoindurenti Foams thermosetting	NO	NO	NO	NO	NO	NO	**OK**	NO	**OK**

Dati tecnici **Performance data**	**FXSL** 	**FXTC** 	**FXHL** 	**FXFL** 	**FXPLK** 	**FXBL** 	**FXFTC** 	**FXSP** 	**FXSCT** 
Trazione Pull-out	**OK**	**OK**	**OK**	+/-	+/-	+/-	**OK**	+/-	**OK**
Coppia diretta Direct torque	**OK**	**OK**	**OK**	+/-	+/-	+/-	**OK**	**OK**	NO

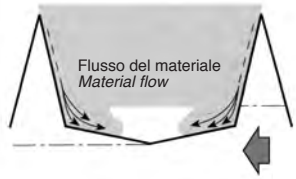
VITI PER PLASTICA TIPO FX
SCREWS FOR PLASTICS FX TYPE



Confronto tra il filetto standard ed il filetto FX
Standard thread Vs FX thread



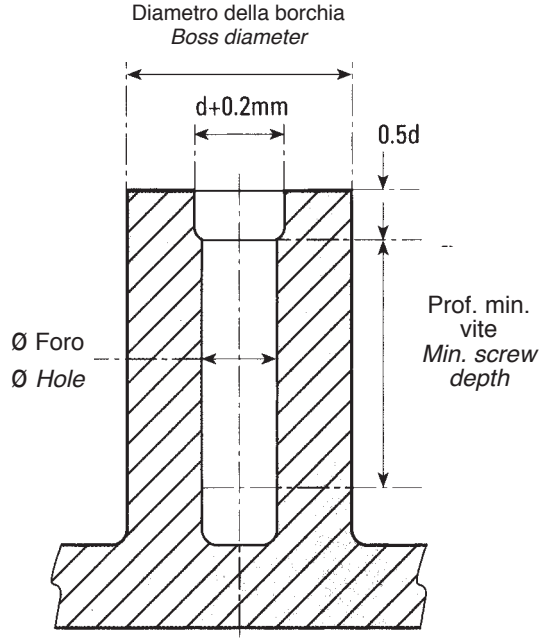
Il flusso del materiale è ostacolato
Material flow restricted



Il flusso del materiale è favorito
Helps material flow

GUIDA ALLA PROGETTAZIONE
DESIGN RECOMMENDATION

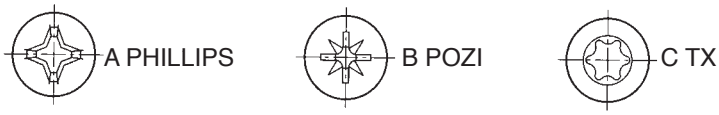
MATERIALE *MATERIAL*	Ø foro *Ø Hole*	Ø borchia *ø boss*	Prof. min. vite *Min. screw depth*
ABS	0,8 d	2 d	2 d
Miscela ABS / PC	0,8 d	2 d	2 d
ASA	0,78 d	2 d	2 d
PA 4.6	0,73 d	1,85 d	1,8 d
PA 4.6 - GF 30	0,78 d	1,85 d	1,8 d
PA 6	0,75 d	1,85 d	1,7 d
PA 6 - GF 30	0,8 d	2 d	1,9 d
PA 6.6	0,75 d	1,85 d	1,7 d
PA 6.6 - GF 30	0,82 d	2 d	1,8 d
PBT	0,75 d	1,85 d	1,7 d
PBT - GF 30	0,8 d	1,8 d	1,7 d
PC	0,85 d	2,5 d	2,2 d
PC - GF 30	0,85 d	2,2 d	2,0 d
LOPE	0,7 d	2 d	2 d
HDPE	0,75 d	1,8 d	1,8 d
PET	0,75 d	1,85 d	1,7 d
PET - GF 30	0,8 d	1,8 d	1,7 d
PMMA	0,85 d	2 d	2 d
POM	0,75 d	1,95 d	2 d
PP	0,7 d	2 d	2 d
PP - TF 20	0,72 d	2 d	2 d
PPO	0,85 d	2,5 d	2,2 d
PS	0,8 d	2 d	2 d
PVC (hard)	0,8 d	2 d	2 d
SAN	0,77 d	2 d	1,9 d
PPS	**contattare** *contact*	**FIXI** *FIXI*	



d = Diamerto nominale esterno del filetto compresa la conicità di 1° del foro
d = Nominal external thread dia. hole taper 1° inclusive

	DIAMETRO NOMINALE *NOMINAL DIAMETER*		1,8	2,2	2,5	3,0	3,5	4,0	5,0	6,0	7,0	10,0
		d	1,8	2,2	2,5	3,0	3,5	4,0	5,0	6,0	7,0	10,0
		R	1,04	1,25	1,40	1,66	1,91	2,17	2,68	3,19	3,70	5,23
		P	0,80	0,98	1,12	1,34	1,57	1,79	2,24	2,69	3,14	4,49
Testa tonda con flangia *Flange head*		HD		4,4	5,0	6,0	7,0	8,0	10,0	12,0	14,0	
		H		1,6	1,8	2,1	2,4	2,5	3,2	4,0	4,6	
		S		0,5	0,6	0,7	0,8	0,9	1,0	1,3	1,5	
	A PHILLIPS	N.		1	1	1	2	2	2	3	3	
	B POZI	N.		1	1	1	2	2	2	3	3	
		HD		4,5	5,0	6,0	7,0	8,0	10,0	12,0	14,0	20,0
		H		1,4	1,5	2,1	2,4	2,6	3,3	3,6	4,2	5,5
		S		0,5	0,5	0,6	0,7	0,8	1,0	1,2	1,4	2,0
	C TX	N.		T6	T6	T10	T10	T20	T20	T25	T30	T40
		X Max	0,9	1,1	1,3	1,5	1,8	2,0	2,5	3,0	3,5	5,0
Testa tonda *Pan head*		HD	3,6	3,9	4,4	5,3	6,1	7,0	8,8	10,5	12,3	
		H	1,5	1,5	1,7	2,0	2,5	2,7	3,4	4,0	4,5	
	A PHILLIPS	N.	0	1	1	1	2	2	2	3	3	
	B POZI	N.	0	1	1	1	2	2	2	3	3	
		HD	3,6	4,0	4,2	5,6	6,9	7,5	8,2	10,8	12,5	16,0
		H	1,3	1,4	1,6	2,1	2,3	2,6	2,9	3,8	4,4	6,0
	C TX	N.	T6	T6	T7	T10	T10	T20	T20	T25	T30	T40
		X Max	0,9	1,1	1,3	1,5	1,8	2,0	2,5	3,0	3,5	5,0
Testa svasata *Countersunk head*		HD	3,4	3,8	4,7	5,5	7,3	8,4	9,3	11,3	13,6	
		F	0,20	0,25	0,30	0,35	0,40	0,45	0,50	0,55	0,60	
		Y Max	0,5	0,6	0,7	0,75	1,00	1,00	1,25	1,50	1,75	
	A PHILLIPS	N.	0	1	1	1	2	2	2	2	3	
	B POZI	N.	0	1	1	1	2	2	2	2	3	
	C TX	N.	T6	T6	T8	T8	T15	T20	T20	T30	T40	

IMPRONTE STANDARD
STANDARD RECESS STYLES

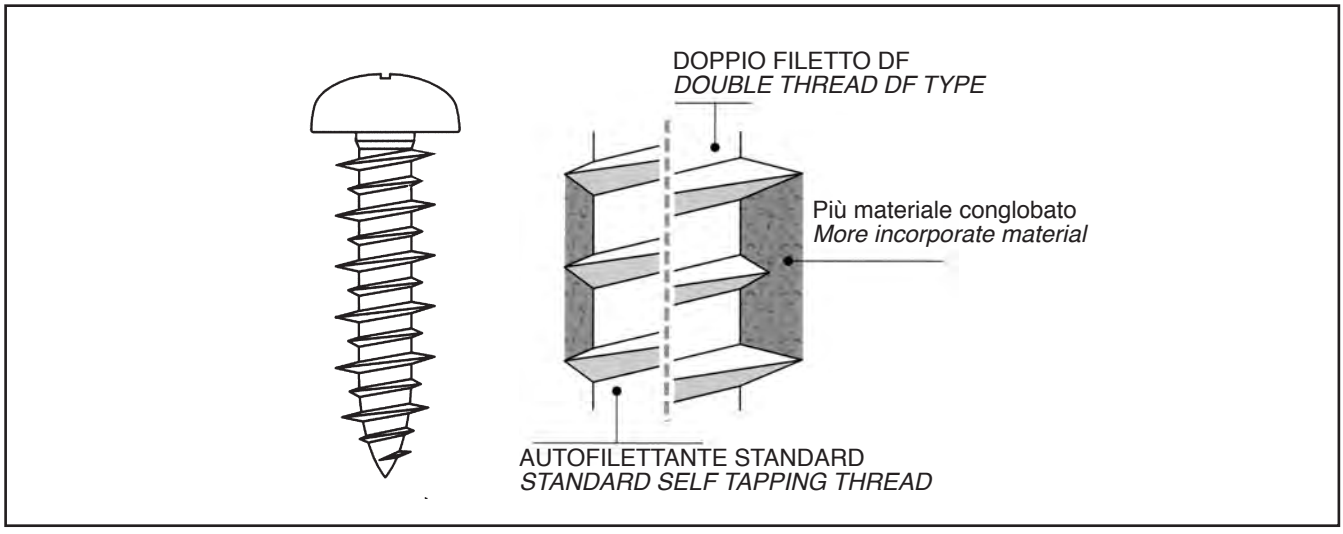


Diam. nominale "Ø" (mm) / Lunghezza "L" (mm)	**1,80**	**2,20**	**2,50**	**3,00**	**3,50**	**4,00**	**5,00**	**6,00**	**7,00**	**10,00**
4 ± 0,39		■	■	■	■	■	■	■	■	■
5 ± 0,38				■	■	■	■	■	■	■
6 ± 0,38					■	■	■	■	■	■
7 ± 0,45						■	■	■	■	■
8 ± 0,45								■	■	■
10 ± 0,45								■	■	■
12 ± 0,55									■	■
14 ± 0,55										■
16 ± 0,55										■
18 ± 0,55										■
20 ± 0,65	■									
25 ± 0,65	■									
30 ± 0,65	■	■								
35 ± 0,80	■	■	■	■						
40 ± 0,80	■	■	■	■	■					
50 ± 0,80	■	■	■	■	■	■				
60 ± 0,95	■	■	■	■	■	■	■			
70 ± 0,95	■	■	■	■	■	■	■	■		
80 ± 0,95	■	■	■	■	■	■	■	■	■	
90 ± 0,95	■	■	■	■	■	■	■	■	■	
100 ± 0,95	■	■	■	■	■	■	■	■	■	

■ Lunghezze non standard
Non standard lengths

□ Lunghezze standard
Standard lengths

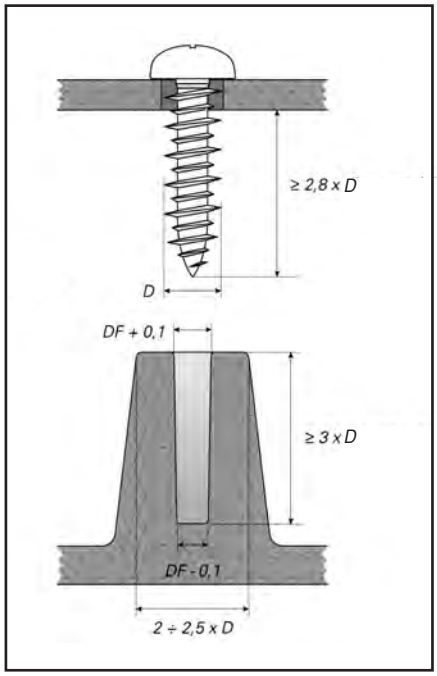
VITI PER PLASTICA TIPO DF
SCREWS FOR PLASTICS DF TYPE



Riduzione fino al 50% del tempo di avvitamento.
Ottima resistenza allo strappo.

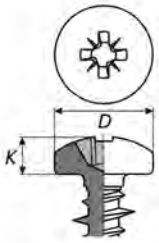
Reduction installation time until 50%.
High torque resistance.

GUIDA ALLA PROGETTAZIONE
DESIGN RECOMMENDATION



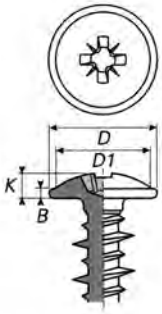
D	DF Materiali termoplastici *Thermoplastics materials*	DF Materiali termoindurenti *Thermosetting materials*	Nm
3	2,1 / 2,4	2,4 / 2,7	0,7
3,5	2,45 / 2,80	2,80 / 3,15	1
4	2,80 / 3,2	3,2 / 3,6	1,4
4,5	3,15 / 3,6	3,6 / 4,05	1,9
5	3,5 / 4	4 / 4,5	2,9
5,5	3,85 / 4,4	4,4 / 4,95	4,3
6	4,2 / 4,8	4,8 / 5,4	6
7	4,9 / 5,6	5,6 / 6,3	10,3

Diametro nominale / *Nominal diameter*	3,0	3,5	4,0	4,5	5,0	5,5	6,0	7,0
PZ / PH	1	1	2	2	2	2	3	3
TX	8	10	15	15	20	25	25	30
Lung. Max / Max Length	20	25	30	30	35	40	45	50



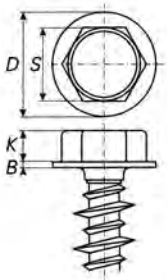
TESTA CILINDRICA / *PAN HEAD*

D	*max*	4.90	5.60	6.90	7.50	8.20	9.50	10.80	12.50
	min	4.60	5.30	6.54	7.14	7.84	9.14	10.37	12.07
K	*max*	2.00	2.20	2.60	2.80	3.05	3.55	3.95	4.55
	min	1.75	1.95	2.35	2.55	2.75	3.25	3.65	4.25



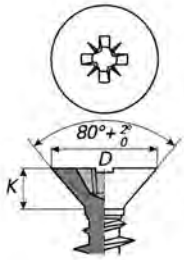
TESTA TONDA CON FLANGIA / *FLANGE HEAD*

D	*max*	6.60	7.40	8.80	9.50	10.30	11.50	13.00	15.00
	min	6.24	7.04	8.44	9.14	9.87	11.07	12.57	14.57
D1	*max*	4.90	5.60	6.90	7.50	8.20	9.50	10.80	12.50
	min	4.60	5.30	6.54	7.14	7.84	9.14	10.37	12.07
K	*max*	2.00	2.20	2.60	2.80	3.05	3.55	3.95	4.55
	min	1.75	1.95	2.35	2.55	2.75	3.25	3.65	4.25
B	*max*	0.72	0.82	0.92	1.02	1.12	1.22	1.32	1.52
	min	0.47	0.57	0.67	0.77	0.87	0.97	1.07	1.27



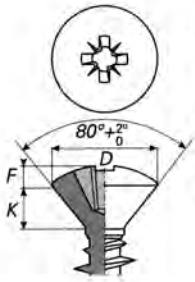
TESTA ESAGONALE CON FLANGIA / *HEXAGON FLANGE HEAD*

S	*max*	-	5.00	5.50	7.00	7.00	8.00	8.00	10.00
	min	-	4.82	5.32	6.78	6.78	7.78	7.78	9.78
D	*max*	-	6.50	7.21	9.18	9.73	10.61	11.08	13.66
	min	-	6.02	6.61	8.46	9.01	9.85	10.20	12.80
K	*max*	-	1.87	2.67	2.67	3.17	3.42	4.45	5.25
	min	-	1.62	2.42	2.42	2.92	3.12	4.15	4.95
B	*max*	-	0.50	0.54	0.80	0.78	0.78	0.99	1.33
	min	-	0.28	0.32	0.47	0.48	0.48	0.55	0.79



TESTA SVASATA PIANA / *COUNTERSUNK HEAD*

D	*max*	4.90	5.50	6.80	7.50	8.10	9.50	10.80	12.40
	min	4.60	5.20	6.44	7.14	7.74	9.14	10.37	11.97
K		1.5	1.7	2.1	2.3	2.5	3.0	3.4	3.8

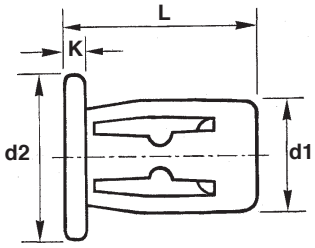


TESTA SVASATA A CALOTTA / *RAISED COUNTERSUNK HEAD*

D	*max*	4.90	5.50	6.80	7.50	8.10	9.50	10.80	12.40
	min	4.60	5.20	6.44	7.14	7.74	9.14	10.37	11.97
K		1.5	1.7	2.1	2.3	2.5	3.0	3.4	3.8
F		0.6	0.9	1.2	1.3	1.4	1.5	1.7	2.0

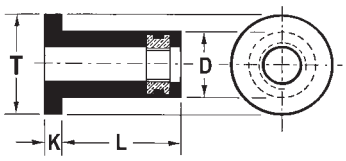
INSERTI FILETTATI SPECIALI
SPECIAL THREADED INSERTS

JACKFIX

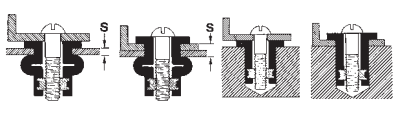


CODICE *Code*	Filetto	S Spess. Serr.	d1	Ø foro *Hole*	d2	K	L
JF 4 C	M4	0,4 - 4,7	8,1	8,2	11,9	1,8	16,6
JF 4 L		4,7 - 9,5					21,4
JF 5 C	M5	0,4 - 4,7	9,7	9,8	13,5	1,8	18,2
JF 5 L		4,7 - 9,5					22,6
JF 6 C	M6	0,4 - 4,7	11,2	11,3	15,9	1,8	18,6
JF 6 M		4,7 - 9,5					23,4
JF 6 L		9,5 - 12,7					27,8

RN



NEOPRENE
NEOPRENE



CODICE *Code*		S	D		T	K	L	Nm
RN 314	M3	0,4 - 4	7,9	8 - 8,3	11	1,4	12,6	0,36
RN 414	M4	0,4 - 4	7,9	8 - 8,3	11	1,4	12,6	0,35
RN 515	M5	0,4 - 4,9	9,6	9,7 - 9,9	12,7	0,9	14,1	0,54
RN 527		7,9 - 16			14	1,3	26,1	0,35
RN 541		20,5 - 30			14	1,3	39,8	1,14
RN 617	M6	0,4 - 2,8	12,7	12,8 - 13	16	1,3	16	1,13
RN 626		0,8 - 4,7			17,5	4,7	21,1	1,69
RN 628		6,4 - 11,5			16,3	1,3	26,7	1,13
RN 822	M8	0,4 - 4,0	15,9		22,1	3,2	18,3	2,82
RN 834		3,9 - 9,5	15,9	16,0 - 16,2	22,1	5,7	27,9	-
RN 852		19,5 - 32,0	18,0	18,1 - 18,3	20	1,6	50	-

RIVETTI PER MATERIE PLASTICHE
BLIND RIVETS FOR PLASTIC MATERIALS

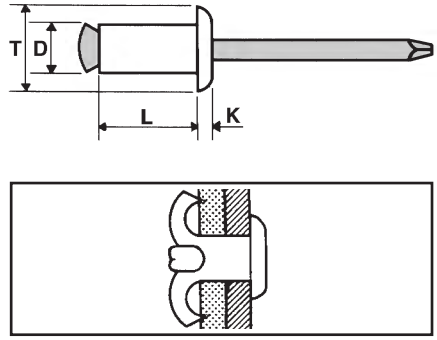
D	L	T	K	Ø foro *hole*		CODICE *Code*		
3,2	**8** **10** **12**	6	0,8	3,5	0,5 - 1 1 - 3 3 - 5	**FA3208TT** **FA3210TT** **FA3212TT**	700 N	765 N
4,0	**10** **12** **16** **20** **24** **30**	8	1,2	4,3	1,5 - 5 3 - 6 6 - 10 10 - 14 14 - 18 18 - 24	**FA4010TT** **FA4012TT** **FA4016TT** **FA4020TT** **FA4024TT** **FA4030TT**	1150 N	1260 N
4,8	**10** **12** **14** **16** **20** **24** **30** **35** **40** **45** **50**	10	1,3	5,2	0,5 - 4 2 - 6 4 - 8 5 - 10 10 - 14 14 - 18 18 - 22 22 - 27 27 - 32 32 - 37 37 - 42	**FA4810TT** **FA4812TT** **FA4814TT** **FA4816TT** **FA4820TT** **FA4824TT** **FA4830TT** **FA4835TT** **FA4840TT** **FA4845TT** **FA4850TT**	2400 N	2200 N

FA - TT

TESTA TONDA
DOME HEAD

boccola / *body*
alluminio / *aluminium*

mandrino / *mandrel*
acciaio zincato / *steel zinc plated*



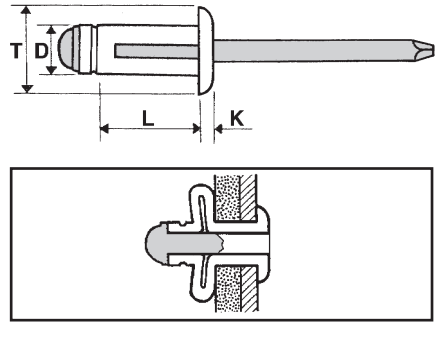
D	L	T	K	Ø foro *hole*		CODICE *Code*		
4,0	**13,6** **18,8**	8	1,4	4,3	1 - 3 3 - 7	**ALSOF4014TT** **ALSOF4019TT**	800 N	500 N
4,8	**15,3** **20,5** **24,5**	9,6	1,6	5,1	1 - 3 3 - 9 5 - 12	**ALSOF4815TT** **ALSOF4821TT** **ALSOF4825TT**	1100 N	900 N

AL-SOF - TT

TESTA TONDA
DOME HEAD

boccola / *body*
alluminio / *aluminium*

mandrino / *mandrel*
alluminio / *aluminium*



GRIV SRL

SOLUZIONI PER L'INDUSTRIA

6

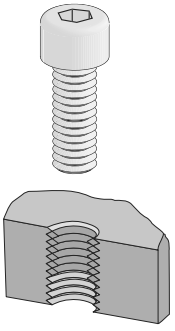
FILETTI RIPORTATI

WIRE INSERTS

GRIV SRL
Sede Legale: via Giuseppe Mazzini, 4 - 80040 - Pollena Trocchia (Na)
Sede Operativa: via F.lli Bandiera, 1 - 80026 - Casoria (Na)

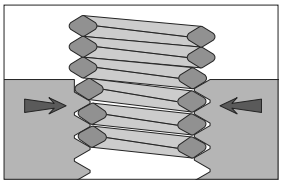
Tel/Fax: +39 081 8990496
Email: info@grivsrl.it
Web: www.grivsrl.it

FILETTI RIPORTATI
WIRE INSERTS



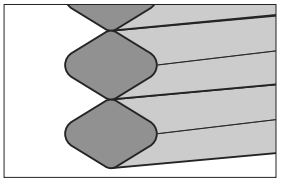
I filetti riportati sono costruiti in inox **(X 10 Cr Ni 18-8)** e vengono utilizzati per rinforzare o riparare tutti i tipi di foro. Particolarmente adatti per i materiali teneri (alluminio, magnesio), i filetti riportati sono resistenti al calore (fino a 425 °C per brevi periodi, oltre i 325° senza interruzioni), alla corrosione, agli agenti atmosferici e alle sollecitazioni meccaniche.
Vengono utilizzati in diversi settori (ferroviario, meccanico, militare, elettronico, automobilistico, aerospaziale). E' possibile trattare superficialmente i filetti riportati con lubrificanti a secco, zincature o argentature.
E' disponibile inoltre una versione colorata di verde che rende più visibile la presenza del filetto riportato all'interno dei fori delle basi di alluminio.
Compatibili con la DIN 8140.

*Wire inserts are made in stainless steel **(X 10 Cr Ni 18-8)** and are used to reinforce or repair all types of tappings.*
Particularly adapted for soft materials (aluminium, magnesium), wire inserts presents a high resistance to thermal (up to 425°C for a short period of time and up to 325° C without interruption), corrosive, atmospheric conditions and mechanical strain. They are used in different areas (railway, mechanics, armament, electronics, car industry, aerospace). Possible coatings: dried lubrification, zinc plating, silver plating. Wire insert can be delivered in green colour that makes the thread visible to the eye when it is inserted in aluminium tappings.
Comply with the DIN 8140.



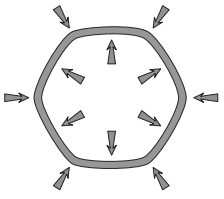
Siccome il diametro originale dei filetti riportati è più largo del foro nel quale viene inserito, **è impossibile svitarlo.**

As its original diameter is larger than the one of the tapping which receives it,
It is impossible to unscrew.



Il filo in inox di sezione diamantata ha una **resistenza alla trazione di 1400 N/mm².**

*Diamond-sectioned stainless steel rolled **wired with a 1400 N/mm² tensile strength.***



"Versione autobloccante"

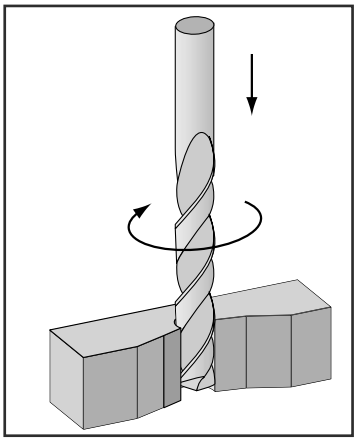
La versione autobloccante dei filetti riportati presenta una o più spire di forma poligonale che esercitando una pressione sulle pareti del foro filettato, rendono impossibile lo svitamento della vite.
La versione autobloccante viene fornita colorata di rosso.

"Self locking version"

Self locking version of thread insert presents one or more deformed polygon shaped turns which exert pressure on the thread walls thus it makes it impossible to unscrew.
The self locking version is in red color.

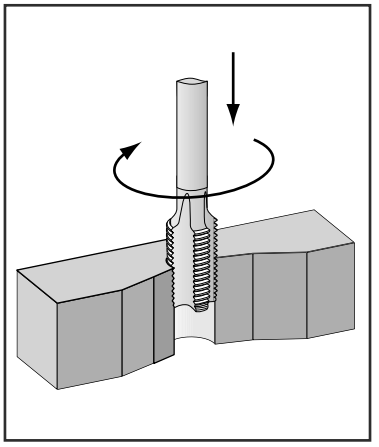
ISTRUZIONI PER L'ASSEMBLAGGIO
ASSEMBLY INSTRUCTIONS

1



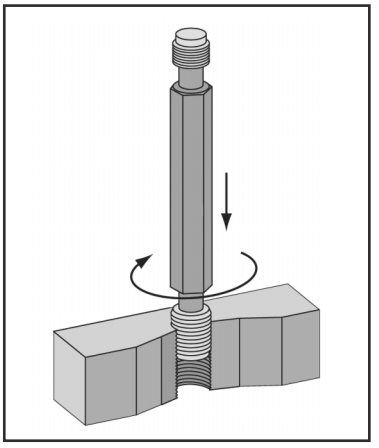
Forare
Drilling

2



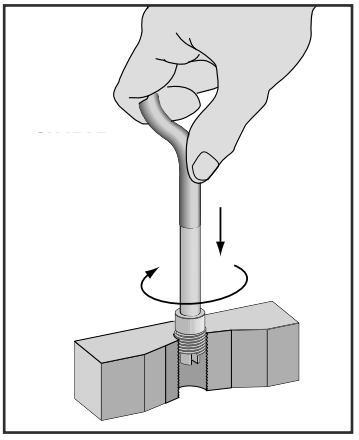
Maschiare
Tapping

3



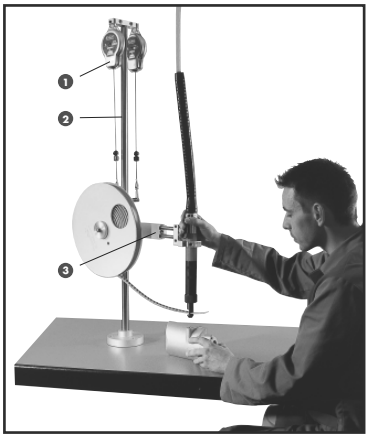
Controllo della maschiatura
Controlling the tapping

4



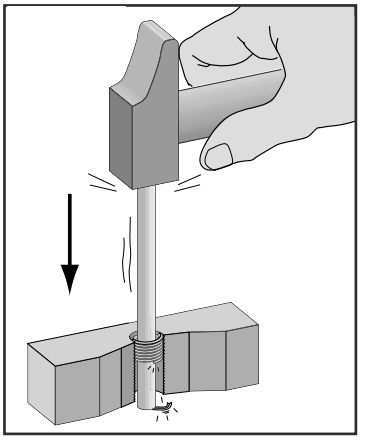
Inserire il filetto riportato
Installing wire insert

4 bis



Per un inserimento più veloce i filetti riportati possono essere montati in strisce di plastica arrotolate e montati in automatico.
For a faster directly use wire insert can be installed in a plastic strip rolled and fastened quickly.

5



Eliminare il codolo di trascinamento.
Break the tail off.

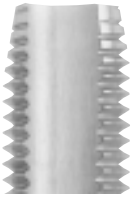
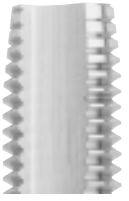
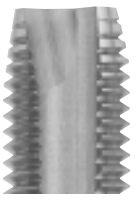
SCELTA DEL MASCHIO
TAP CHOICE

LEGENDA

OK = UTILIZZO OTTIMO
OPTIMUM USE

+/- = POSSIBILE UTILIZZO
POSSIBLE USE

NO = UTILIZZO NON CONSIGLIATO
NOT RECOMMENDED

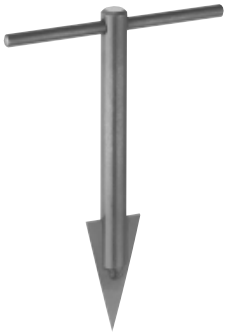
	 **MASCHIO STANDARD** *STANDARD TAP*	 **MASCHIO SGROSSATORE** *UNDERSIZED TAP*	 **MASCHIO FINITORE** *FINISHING TAP*	 **MASCHIO PER FORI APERTI** *OPEN HOLES TAP*	 **MASCHIO PER FORI CIECHI** *BLIND HOLES TAP*
VANTAGGI *ADVANTAGES*	E' il maschio più comune usato in particolare per maschiature eseguite manualmente. *Commonly used especially for manual tapping.*	Da usare prima del maschio finitore in materiali duri. *It must be used before finishing tap in hard materials.*	Da usare dopo il maschio sgrossatore. *It must be used after undersized tap.*	Ideale per fori aperti. *Ideal for open holes.*	Ideale per fori ciechi. *Ideal for blind holes.*
FORI APERTI *OPEN HOLES*	**+/-**	**+/-**	**+/-**	**OK**	**NO**
FORI CHIUSI *BLIND HOLES*	**+/-**	**+/-**	**+/-**	**NO**	**OK**
FORI MANUALI *MANUAL TAPPING*	**OK**	**+/-**	**+/-**	**OK**	**+/-**
FORI A MACCHINA *TOOL TAPPING*	**+/-**	**OK**	**OK**	**OK**	**OK**
MATERIALI TENERI *SOFT MATERIALS R < 80 Kg*	**OK**	**+/-**	**+/-**	**OK**	**OK**
MATERIALI DURI *HARD MATERIALS R > 80 Kg*	**NO**	**OK**	**OK**	**OK**	**+/-**

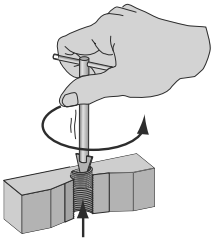
ACCESSORI
ACCESSORIES

Tampone di controllo
della maschiatura
Control plug gauge

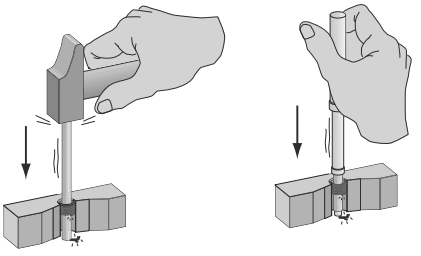
Attrezzo di posa
pneumatico
Pneumatic
inserting tool

Attrezzo di posa
manuale
Manual
inserting tool





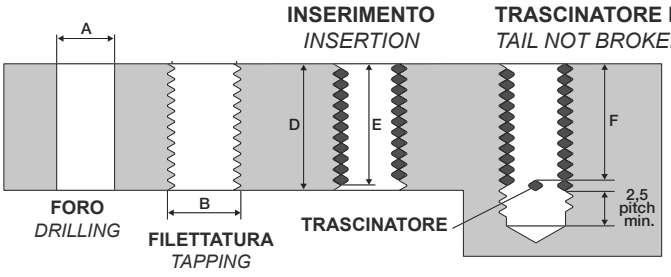
Estrattore
Extractor

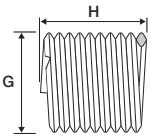


Troncatore manuale e automatico
Break- off tool manual and automatic

Blister e monokit

FILETTI RIPORTATI PASSO METRICO
WIRE INSERTS METRIC PITCH

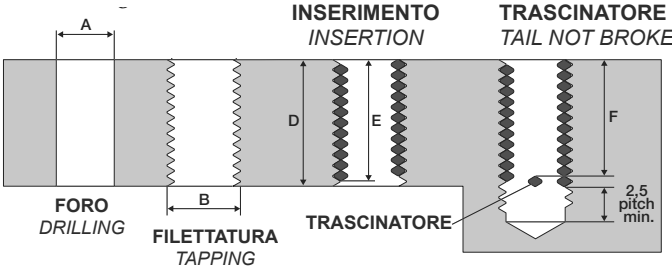


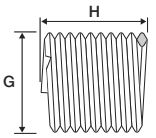


E = D - 0,75 x Passo
E = D - 0,75 x Pitch
F = D - 1,5 x Passo
F = D - 1,5 x Pitch

ø X PASSO *X PITCH*	X d	D LUNGHEZZA FILETTO *BASE TAPPING LENGHT*	H N. DELLE SPIRE ALLO STATO LIBERO *Nb. OF TURNS AT THE INITIAL STATE -0,25*	G ø INIZIALE *INITIAL STATE MIN - MAX*	A ø FORO *DRILLING* ø FORO *DRILL*	A ø FORO *DRILLING* TOLLERANZA *TOLERANCE MIN - MAX*	MASCHIO *TAP* B ø EST. MIN. *EXT . MIN*
M 2 x 0,40	1 d 1,5 d 2 d 2,5 d 3 d	2,00 3,00 4,00 5,00 6,00	2,90 4,90 6,90 8,90 10,90	2,60 2,75	2,10	2,090 + 0,090	2,520
M 2,5 x 0,45	1 d 1,25 d 1,5 d 2 d 2,5 d 3 d	2,50 3,12 3,75 5,00 6,25 7,50	3,60 4,75 6,00 8,20 10,60 13,10	3,15 3,30	2,60	2,597 + 0,100	3,084
M 3 x 0,50	1 d 1,25 d 1,5 d 2 d 2,5 d 3 d	3,00 3,75 4,50 6,00 7,50 9,00	3,95 4,95 6,35 8,80 11,25 13,65	3,70 3,90	3,20	3,108 + 0,112	3,650
M 3,5 x 0,60	1 d 1,5 d 2 d 2,5 d 3 d	3,50 5,25 7,00 8,75 10,50	3,90 6,60 9,15 11,80 14,00	4,35 4,45	3,70	3,630 + 0,125	4,280
M 4 x 0,70	1 d 1,25 d 1,5 d 2 d 2,5 d 3 d	4,00 5,00 6,00 8,00 10,00 12,00	3,80 5,05 6,25 8,65 11,20 13,60	5,00 5,15	4,20	4,152 + 0,140	4,910
M 5 x 0,80	1 d 1,25 d 1,5 d 2 d 2,5 d 3 d	5,00 6,25 7,50 10,00 12,50 15,00	4,45 5,70 7,15 10,10 12,80 15,40	6,10 6,30	5,20	5,174 + 0,160	6,040
M 6 x 1,00	1 d 1,25 d 1,5 d 2 d 2,5 d 3 d	6,00 7,50 9,00 12,00 15,00 18,00	4,30 5,55 7,10 9,85 12,60 15,00	7,40 7,65	6,30	6,217 + 0,190	7,300

FILETTI RIPORTATI PASSO METRICO
WIRE INSERTS METRIC PITCH

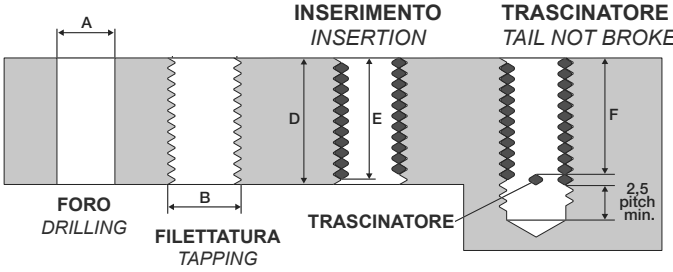


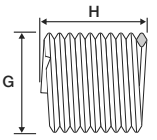


E = D - 0,75 x Passo
E = D - 0,75 x Pitch
F = D - 1,5 x Passo
F = D - 1,5 x Pitch

ø **X PASSO** *X PITCH*	**X d**	**D LUNGHEZZA FILETTO** *BASE TAPPING LENGHT*	**H N. DELLE SPIRE ALLO STATO LIBERO** *Nb. OF TURNS AT THE INITIAL STATE -0,25*	**G ø INIZIALE** *INITIAL STATE MIN - MAX*	**A ø FORO** *DRILLING*		**MASCHIO** *TAP*
					ø FORO *DRILL*	**TOLLERANZA** *TOLERANCE MIN - MAX*	**B ø EST. MIN.** *EXT . MIN*
M 7 x 1,00	1 d 1,5 d 2 d 2,5 d 3 d	7,00 10,50 14,00 17,50 21,00	5,45 8,45 11,40 14,75 17,90	8,40 8,65	7,30	7,217 + 0,190	8,300
M 8 x 1,00	1 d 1,5 d 2 d 2,5 d 3 d	8,00 12,00 16,00 20,00 24,00	6,30 9,80 13,30 17,00 20,50	9,45 9,75	8,30	8,217 + 0,190	9,300
M 8 x 1,25	1 d 1,25 d 1,5 d 2 d 2,5 d 3 d	8,00 10,00 12,00 16,00 20,00 24,00	4,80 6,10 7,50 10,75 13,70 16,65	9,70 9,90	8,40	8,271 + 0,212	9,624
M 9 x 1,25	1 d 1,5 d 2 d 2,5 d 3 d	9,00 13,50 18,00 22,50 27,00	5,40 8,70 12,10 15,50 18,35	10,70 10,90	9,40	9,271 + 0,212	10,624
M 10 x 1,00	1 d 1,5 d 2 d 2,5 d 3 d	10,00 15,00 20,00 25,00 30,00	7,90 12,60 17,00 21,55 26,05	11,60 11,90	10,30	10,217 + 0,190	11,300
M 10 x 1,25	1 d 1,5 d 2 d 2,5 d 3 d	10,00 15,00 20,00 25,00 30,00	6,15 10,00 13,50 17,00 20,70	11,75 12,00	10,40	10,271 + 0,212	11,624
M 10 x 1,50	1 d 1,25 d 1,5 d 2 d 2,5 d 3 d	10,00 12,50 15,00 20,00 25,00 30,00	5,00 6,50 8,10 11,25 14,25 17,25	12,05 12,35	10,50	10,324 + 0,236	11,948

FILETTI RIPORTATI PASSO METRICO
WIRE INSERTS METRIC PITCH

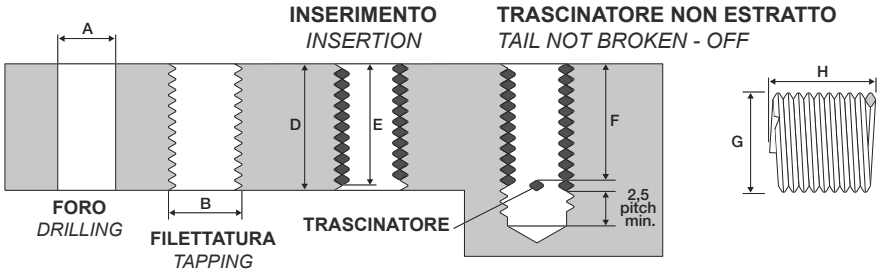




E = D - 0,75 x Passo
E = D - 0,75 x Pitch
F = D - 1,5 x Passo
F = D - 1,5 x Pitch

ø X PASSO *X PITCH*	X d	D LUNGHEZZA FILETTO *BASE TAPPING LENGHT*	H N. DELLE SPIRE ALLO STATO LIBERO *Nb. OF TURNS AT THE INITIAL STATE -0,25*	G ø INIZIALE *INITIAL STATE MIN - MAX*	A ø FORO *DRILLING* ø FORO *DRILL*	A ø FORO *DRILLING* TOLLERANZA *TOLERANCE MIN - MAX*	MASCHIO *TAP* B ø EST. MIN. *EXT . MIN*
M 11 x 1,50	1 d 1,5 d 2 d 2,5 d 3 d	11,00 16,50 22,00 27,50 33,00	5,60 9,00 12,35 15,75 18,95	13,05 13,35	11,50	11,324 + 0,236	12,948
M 12 x 1,00	1 d 1,5 d 2 d 2,5 d 3 d	12,00 18,00 24,00 30,00 36,00	9,75 15,20 20,50 25,95 31,30	13,70 14,10	12,30	12,217 + 0,190	13,300
M 12 x 1,25	1 d 1,5 d 2 d 2,5 d 3 d	12,00 18,00 24,00 30,00 36,00	7,75 12,15 16,65 21,15 25,65	13,75 14,05	12,40	12,271 + 0,212	13,624
M 12 x 1,50	1 d 1,5 d 2 d 2,5 d 3 d	12,00 18,00 24,00 30,00 36,00	6,30 10,00 13,80 16,00 21,25	14,10 14,40	12,50	12,324 + 0,236	13,948
M 12 x 1,75	0,75 d 1 d 1,25 d 1,5 d 2 d 2,5 d 3 d	9,00 12,00 15,00 18,00 24,00 30,00 36,00	3,70 5,20 6,90 8,40 11,75 14,75 18,05	14,35 14,60	12,50	12,379 + 0,265	14,274
M 14 x 1,50	0,75 d 1 d 1,5 d 2 d 2,5 d 3 d	10,50 14,00 21,00 28,00 35,00 42,00	5,40 7,50 11,85 16,15 20,10 24,55	16,25 16,65	14,50	14,324 + 0,236	15,948
M 14 x 2,00	0,75 d 1 d 1,25 d 1,5 d 2 d 2,5 d 3 d	10,50 14,00 17,50 21,00 28,00 35,00 42,00	4,00 5,60 7,20 8,80 12,00 15,20 18,40	16,80 17,15	14,50	14,433 + 0,300	16,598

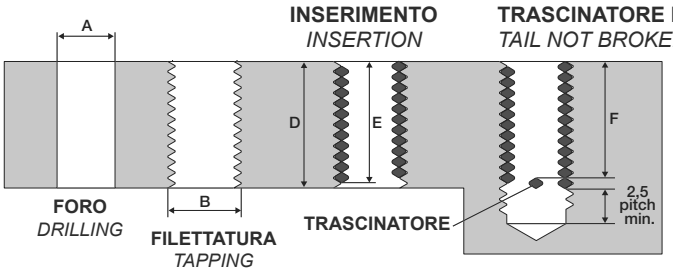
FILETTI RIPORTATI PASSO METRICO
WIRE INSERTS METRIC PITCH

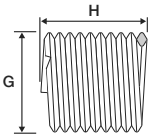


E = D - 0,75 x Passo
E = D - 0,75 x Pitch
F = D - 1,5 x Passo
F = D - 1,5 x Pitch

ø X PASSO *X PITCH*	X d	D LUNGHEZZA FILETTO *BASE TAPPING LENGHT*	H N. DELLE SPIRE ALLO STATO LIBERO *Nb. OF TURNS AT THE INITIAL STATE -0,25*	G ø INIZIALE *INITIAL STATE MIN - MAX*	A ø FORO *DRILLING*		MASCHIO *TAP*
					ø FORO *DRILL*	TOLLERANZA *TOLERANCE MIN - MAX*	B ø EST. MIN. *EXT . MIN*
M 16 x 1,50	0,75 d 1 d 1,25 d 1,5 d 2 d 2,5 d 3 d	12,00 16,00 20,00 24,00 32,00 40,00 48,00	6,50 9,00 11,35 13,85 18,70 23,65 28,50	18,40 18,80	16,50	16,324 + 0,236	17,948
M 16 x 2,00	0,75 d 1 d 1,25 d 1,5 d 2 d 2,5 d 3 d	12,00 16,00 20,00 24,00 32,00 40,00 48,00	4,65 6,55 8,40 10,20 13,95 17,70 21,40	18,80 19,10	16,50	16,433 + 0,300	18,598
M 18 x 1,50	0,75 d 1 d 1,25 d 1,5 d 2 d	13,50 18,00 22,50 27,00 36,00	7,30 9,90 12,70 15,55 21,05	20,60 21,00	18,50	18,324 + 0,236	19,948
M 18 x 2,00	0,75 d 1 d 1,25 d 1,5 d 2 d	13,50 18,00 22,50 27,00 36,00	5,20 7,25 9,10 11,45 15,45	21,00 21,40	18,50	18,433 + 0,300	20,598
M 18 x 2,50	0,75 d 1 d 1,25 d 1,5 d 2 d	13,50 18,00 22,50 27,00 36,00	3,80 5,60 6,40 9,05 12,35	21,35 21,70	18,75	18,541 + 0,355	21,248
M 20 x 1,50	0,75 d 1 d 1,25 d 1,5 d 2 d	15,00 20,00 25,00 30,00 40,00	8,15 11,05 13,80 17,20 23,10	23,00 23,50	20,50	20,433 + 0,300	22,598
M 20 x 2,00	0,75 d 1 d 1,25 d 1,5 d 2 d	15,00 20,00 25,00 30,00 40,00	6,00 8,25 10,45 12,90 17,35	22,90 23,40	20,50	20,433 + 0,300	22,598

FILETTI RIPORTATI PASSO METRICO
WIRE INSERTS METRIC PITCH

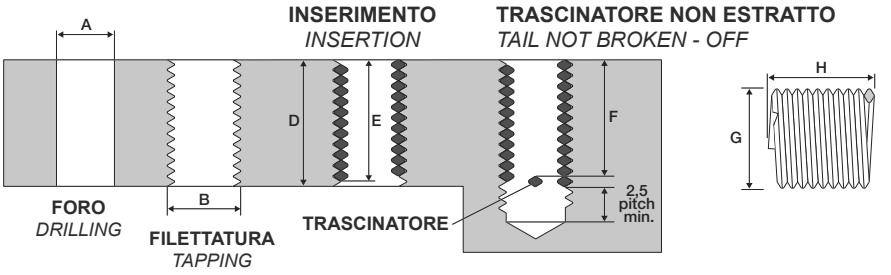




E = D - 0,75 x Passo
E = D - 0,75 x Pitch
F = D - 1,5 x Passo
F = D - 1,5 x Pitch

ø X PASSO *X PITCH*	X d	D LUNGHEZZA FILETTO *BASE TAPPING LENGHT*	H N. DELLE SPIRE ALLO STATO LIBERO *Nb. OF TURNS AT THE INITIAL STATE -0,25*	G ø INIZIALE *INITIAL STATE MIN - MAX*	A ø FORO *DRILLING* ø FORO *DRILL*	A ø FORO *DRILLING* TOLLERANZA *TOLERANCE MIN - MAX*	MASCHIO *TAP* B ø EST. MIN. *EXT . MIN*
M 20 x 2,50	0,75 d 1 d 1,25 d 1,5 d 2 d	15,00 20,00 25,00 30,00 40,00	4,55 6,40 8,10 10,15 13,90	23,35 23,75	20,75	20,541 + 0,355	23,248
M 22 x 1,50	0,5 d 0,75 d 1 d 1,25 d 1,5 d	11,00 16,50 22,00 27,50 33,00	5,75 9,05 12,30 15,55 19,00	25,00 25,50	22,50	22,324 + 0,236	23,948
M 22 x 2,00	0,75 d 1 d 1,25 d 1,5 d 2 d	16,50 22,00 27,50 33,00 44,00	6,70 9,15 11,55 14,30 19,35	25,00 25,50	22,50	22,433 + 0,300	24,598
M 22 x 2,50	0,75 d 1 d 1,25 d 1,5 d 2 d	16,50 22,00 27,50 33,00 44,00	5,15 7,10 9,10 11,25 15,50	25,40 25,80	22,75	22,541 + 0,355	25,248
M 24 x 1,50	0,5 d 0,75 d 1 d 1,25 d 1,5 d	12,00 18,00 24,00 30,00 36,00	6,35 10,05 13,65 17,15 20,95	27,00 27,50	24,50	24,325 + 0,236	25,948
M 24 x 3,00	0,75 d 1 d 1,25 d 1,5 d 2 d	18,00 24,00 30,00 36,00 48,00	4,55 6,25 8,15 10,10 14,15	28,30 28,80	24,75	24,649 + 0,400	27,897
M 26 x 1,50	0,5 d 0,75 d 1 d 1,25 d 1,5 d	13,00 19,50 26,00 32,50 39,00	6,80 10,80 14,70 18,45 22,70	29,50 30,00	26,50	26,325 + 0,236	27,948

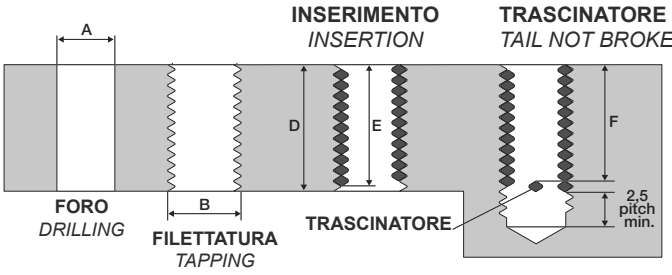
FILETTI RIPORTATI PASSO METRICO
WIRE INSERTS METRIC PITCH



E = D - 0,75 x Passo
E = D - 0,75 x Pitch
F = D - 1,5 x Passo
F = D - 1,5 x Pitch

ø **X PASSO** *X PITCH*	X d	D **LUNGHEZZA FILETTO** *BASE TAPPING LENGHT*	H **N. DELLE SPIRE ALLO STATO LIBERO** *Nb. OF TURNS AT THE INITIAL STATE -0,25*	G **ø INIZIALE** *INITIAL STATE MIN - MAX*	A ø FORO *DRILLING*		MASCHIO *TAP*
					ø FORO *DRILL*	TOLLERANZA *TOLERANCE MIN - MAX*	B ø **EST. MIN.** *EXT . MIN*
M 27 x 3,00	0,75 d 1 d 1,25 d 1,5 d 2 d	20,25 27,00 33,75 40,50 54,00	5,05 7,20 9,35 11,60 15,65	31,60 32,10	27,75	27,649 + 0,400	30,897
M 30 x 3,50	0,75 d 1 d 1,25 d 1,5 d 2 d	22,50 30,00 37,50 45,00 60,00	4,90 7,05 9,05 11,05 15,00	34,90 35,40	31,00	30,757 + 0,450	34,546

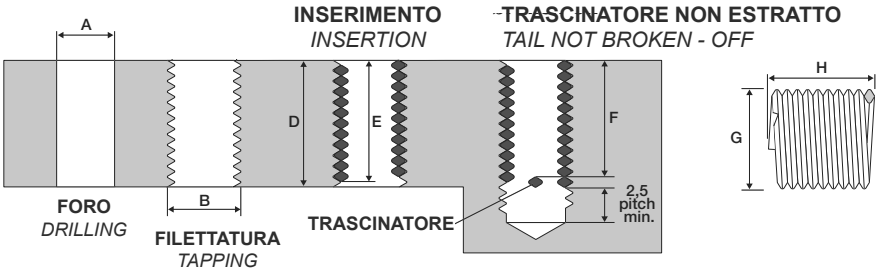
FILETTI RIPORTATI PASSO UNC
WIRE INSERTS UNC PITCH



E = D - 0,75 x Passo
E = D - 0,75 x Pitch
F = D - 1,5 x Passo
F = D - 1,5 x Pitch

ø X PASSO *X PITCH*	X d	D LUNGHEZZA FILETTO *BASE TAPPING LENGHT*	H N. DELLE SPIRE ALLO STATO LIBERO *Nb. OF TURNS AT THE INITIAL STATE -0,25*	G ø INIZIALE *INITIAL STATE MIN - MAX*	A ø FORO *DRILLING*		MASCHIO *TAP*
					ø FORO *DRILL*	TOLLERANZA *TOLERANCE MIN - MAX*	B ø ESTERNO MINIMO *EXT . MIN*
UNC	1 d	0,086 *2,2*	3,00				
	1,5 d	0,129 *3,3*	5,25				
2-56	2 d	0,172 *4,3*	7,40	0,110 0,116	0,0960	0,0899 0,0961	0,1118
2,18 x 0,453	2,5 d	0,215 *5,4*	9,60	2,80 2,95	2,4	2,31 2,44	2,84
	3 d	0,258 *6,5*	11,90				
	1 d	0,112 *2,9*	2,75				
	1,5 d	0,168 *4,3*	4,75				
4-40	2 d	0,224 *5,8*	6,75	0,142 0,154	0,1200	0,1175 0,1252	0,1445
2,84 x 0,635	2,5 d	0,280 *7,2*	8,90	3,60 3,90	3,1	3,00 3,15	3,67
	3 d	0,336 *8,5*	10,90				
	1 d	0,125 *3,2*	3,25				
	1,5 d	0,188 *4,8*	5,50				
5-40	2 d	0,250 *6,4*	7,75	0,157 0,167	0,1360	0,1305 0,1373	0,1575
3,17 x 0,635	2,5 d	0,312 *7,9*	10,00	4,00 4,25	3,4	3,33 3,48	4,00
	3 d	0,375 *9,5*	12,25				
	1 d	0,138 *3,5*	2,75				
	1,5 d	0,207 *5,3*	4,75				
6-32	2 d	0,276 *7,0*	6,90	0,177 0,187	0,1495	0,1448 0,1527	0,1787
3,51 x 0,794	2,5 d	0,345 *8,8*	8,90	4,50 4,75	3,8	3,68 3,89	4,54
	3 d	0,414 *10,5*	10,90				
	1 d	0,164 *4,2*	3,50				
	1,5 d	0,246 *6,3*	6,00				
8-32	2 d	0,328 *8,3*	8,40	0,205 0,215	0,1770	0,1708 0,1781	0,2047
4,17 x 0,794	2,5 d	0,410 *10,5*	10,75	5,20 5,45	4,5	4,34 4,52	5,20
	3 d	0,492 *12,5*	13,25				
	1 d	0,190 *4,8*	2,90				
	1,5 d	0,285 *7,2*	5,00				
10-24	2 d	0,380 *9,6*	7,10	0,244 0,256	0,2055	0,1990 0,2080	0,2441
4,83 x 1,058	2,5 d	0,475 *12,1*	9,25	6,20 6,50	5,2	5,06 5,28	6,20
	3 d	0,570 *14,5*	11,40				
	1 d	0,250 *6,4*	3,40				
	1,5 d	0,375 *9,5*	5,75				
1/4-20	2 d	0,500 *12,7*	8,00	0,315 0,329	0,2660	0,2608 0,2704	0,3150
6,35 x 1,270	2,5 d	0,625 *15,9*	10,40	8,00 8,35	6,8	6,62 6,86	8,00
	3 d	0,750 *19,0*	12,75				

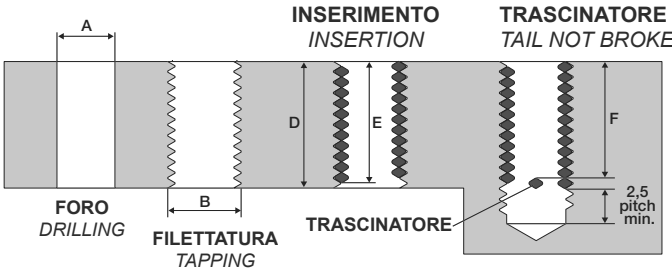
FILETTI RIPORTATI PASSO UNC
WIRE INSERTS UNC PITCH

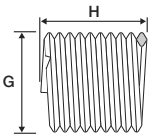


E = D - 0,75 x Passo
E = D - 0,75 x Pitch
F = D - 1,5 x Passo
F = D - 1,5 x Pitch

ø X PASSO *X PITCH*	X d	D LUNGHEZZA FILETTO *BASE TAPPING LENGHT*	H N. DELLE SPIRE ALLO STATO LIBERO *Nb. OF TURNS AT THE INITIAL STATE -0,25*	G Ø INIZIALE *INITIAL STATE MIN - MAX*		A ø FORO *DRILLING*			MASCHIO *TAP*
						ø FORO *DRILL*	TOLLERANZA *TOLERANCE MIN - MAX*		B ø ESTERNO MINIMO *EXT . MIN*
5/16-18 7,94 x 1,411	1 d 1,5 d 2 d 2,5 d 3 d	0,312 *7,9* 0,469 *11,9* 0,625 *15,9* 0,781 *19,8* 0,937 *23,8*	4,00 6,60 9,25 11,90 14,60	0,382 9,70	0,398 10,10	0,3320 8,4	0,3245 8,24	0,3342 8,49	0,3846 9,77
3/8-16 9,52 x 1,588	1 d 1,5 d 2 d 2,5 d 3 d	0,375 *9,5* 0,562 *14,3* 0,750 *19,1* 0,937 *23,8* 1,125 *28,6*	4,40 7,25 10,00 12,90 15,75	0,453 11,50	0,469 11,90	0,3970 10,1	0,3885 9,89	0,3987 10,12	0,4563 11,59
7/16-14 11,11 x 1,814	1 d 1,5 d 2 d 2,5 d 3 d	0,438 *11,1* 0,656 *16,7* 0,875 *22,2* 1,094 *27,8* 1,312 *33,3*	4,50 7,40 10,25 13,10 16,10	0,528 13,40	0,545 13,85	0,4531 11,7	0,4530 11,51	0,4639 11,78	0,5303 13,47
1/2-13 12,70 x 1,954	1 d 1,5 d 2 d 2,5 d 3 d	0,500 *12,7* 0,750 *19,1* 1,000 *25,4* 1,250 *31,8* 1,500 *38,1*	4,90 7,90 11,00 14,10 17,10	0,598 15,20	0,614 15,60	0,5312 13,2	0,5166 13,12	0,5273 13,40	0,6000 15,24
9/16-12 14,29 x 2,117	1 d 1,5 d 2 d 2,5 d 3 d	0,562 *14,3* 0,844 *21,5* 1,125 *28,6* 1,406 *35,7* 1,688 *42,9*	5,10 8,25 11,50 14,75 17,90	0,669 17,00	0,685 17,40	0,5938 15,0	0,5806 14,75	0,5918 15,03	0,6709 17,04
5/8-11 15,87 x 2,309	1 d 1,5 d 2 d 2,5 d 3 d	0,625 *15,9* 0,937 *23,8* 1,250 *31,8* 1,562 *39,7* 1,875 *47,6*	5,25 8,50 11,75 15,00 18,40	0,744 18,90	0,760 19,30	0,6562 16,6	0,6447 16,38	0,6564 16,68	0,7433 18,88
3/4-10 19,05 x 2,540	1 d 1,5 d 2 d 2,5 d 3 d	0,750 *19,1* 1,125 *28,6* 1,500 *38,1* 1,875 *47,6* 2,250 *57,2*	5,90 9,40 13,00 16,50 20,10	0,882 22,40	0,898 22,80	0,7812 19,8	0,7716 19,60	0,7838 19,91	0,8799 22,35

FILETTI RIPORTATI PASSO UNC
WIRE INSERTS UNC PITCH

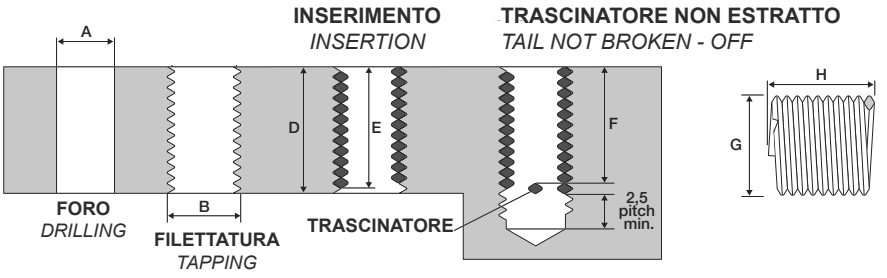




E = D - 0,75 x Passo
E = D - 0,75 x Pitch
F = D - 1,5 x Passo
F = D - 1,5 x Pitch

ø X PASSO *X PITCH*	X d	D LUNGHEZZA FILETTO *BASE TAPPING LENGHT*	H N. DELLE SPIRE ALLO STATO LIBERO *Nb. OF TURNS AT THE INITIAL STATE -0,25*	G Ø INIZIALE *INITIAL STATE MIN - MAX*		A ø FORO *DRILLING* ø FORO *DRILL*	A ø FORO *DRILLING* TOLLERANZA *TOLERANCE MIN - MAX*		MASCHIO *TAP* B ø ESTERNO MINIMO *EXT . MIN*
7/8-9 22,22 x 2,822	1 d 1,5 d 2 d 2,5 d 3 d	0,875 *22,2* 1,312 *33,3* 1,750 *44,5* 2,187 *55,6* 2,625 *66,7*	6,25 10,00 13,75 17,50 21,25	1,024 26,00	1,039 26,40	0,9062 23,0	0,8990 22,84	0,9119 23,18	1,0193 25,89
1"-8 25,40 x 3,175	1 d 1,5 d 2 d 2,5 d 3 d	1,000 *25,4* 1,500 *38,1* 2,000 *50,8* 2,500 *63,5* 3,000 *76,2*	6,40 10,10 14,00 17,75 21,60	1,165 29,60	1,185 30,10	1,0312 26,4	1,0271 26,09	1,0421 26,47	1,1626 29,53
1"1/8-7 28,57 x 3,629	1 d 1,5 d 2 d 2,5 d 3 d	1,125 *28,6* 1,687 *42,9* 2,250 *57,2* 2,812 *71,4* 3,375 *85,7*	6,10 9,90 13,60 17,50 21,25	1,315 33,40	1,339 34,00	1,1719 29,5	1,1559 29,36	1,1730 29,74	1,3106 33,29
1"1/4-7 31,75 x 3,629	1 d 1,5 d 2 d 2,5 d 3 d	1,250 *31,8* 1,875 *47,6* 2,500 *63,5* 3,125 *79,4* 3,750 *95,3*	7,00 11,25 15,40 19,55 23,80	1,441 36,60	1,465 37,20	1,2969 32,8	1,2809 32,54	1,2980 32,92	1,4354 36,46
1"3/8-6 34,92 x 4,234	1 d 1,5 d 2 d 2,5 d 3 d	1,375 *34,9* 2,062 *52,4* 2,750 *69,9* 3,437 *87,3* 4,125 *104,8*	6,50 10,50 14,40 18,45 22,30	1,594 40,50	1,622 41,20	1,4219 36,3	1,4110 35,84	1,4310 36,35	1,5913 40,42
1"1/2-6 38,10 x 4,234	1 d 1,5 d 2 d 2,5 d 3 d	1,500 *38,1* 2,250 *57,2* 3,000 *76,2* 3,750 *95,3* 4,500 *114,3*	7,20 11,50 15,90 20,15 24,55	1,724 43,80	1,748 44,40	1,5469 39,5	1,5360 39,02	1,5560 39,53	1,7165 43,60

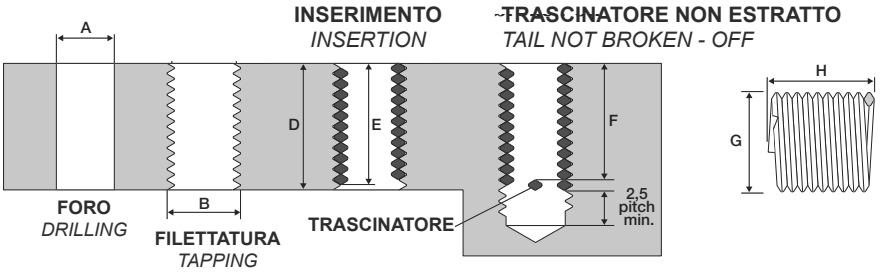
FILETTI RIPORTATI PASSO UNF
WIRE INSERTS UNF PITCH



E = D - 0,75 x Passo
E = D - 0,75 x Pitch
F = D - 1,5 x Passo
F = D - 1,5 x Pitch

ø X PASSO *X PITCH*	X d	D LUNGHEZZA FILETTO *BASE TAPPING LENGHT*	H N. DELLE SPIRE ALLO STATO LIBERO *Nb. OF TURNS AT THE INITIAL STATE -0,25*	G Ø INIZIALE *INITIAL STATE MIN - MAX*		A ø FORO *DRILLING* ø FORO *DRILL*	A ø FORO *DRILLING* TOLLERANZA *TOLERANCE MIN - MAX*		MASCHIO *TAP* B ø ESTERNO MINIMO *EXT . MIN*
UNF									
6-40 3,51 x 0,635	1 d 1,5 d 2 d 2,5 d 3 d	0,138 *3,5* 0,207 *5,3* 0,276 *7,0* 0,345 *8,8* 0,414 *10,5*	3,55 6,10 8,55 10,95 13,55	0,173 4,40	0,181 4,60	0,1495 3,7	0,1435 3,66	0,1503 3,81	0,1705 4,33
8-36 4,16 x 0,705	1 d 1,5 d 2 d 2,5 d 3 d	0,164 *4,2* 0,246 *6,3* 0,328 *8,3* 0,410 *10,5* 0,492 *12,5*	4,00 6,70 9,35 11,90 14,65	0,203 5,15	0,211 5,35	0,1770 4,4	0,1701 4,32	0,1771 4,47	0,2000 5,08
10-32 4,83 x 0,794	1 d 1,5 d 2 d 2,5 d 3 d	0,190 *4,8* 0,285 *7,2* 0,380 *9,6* 0,475 *12,1* 0,570 *14,5*	4,20 7,05 9,75 12,55 15,25	0,234 5,95	0,244 6,20	0,2031 5,1	0,1968 5,00	0,2041 5,16	0,2307 5,86
1/4-28 6,35 x 0,907	1 d 1,5 d 2 d 2,5 d 3 d	0,250 *6,4* 0,375 *9,5* 0,500 *12,7* 0,625 *15,9* 0,750 *19,0*	5,10 8,40 11,60 14,75 17,95	0,301 7,65	0,315 8,00	0,2638 6,7	0,2577 6,55	0,2646 6,72	0,3012 7,53
5/16-24 7,94 x 1,058	1 d 1,5 d 2 d 2,5 d 3 d	0,312 *7,9* 0,469 *11,9* 0,625 *15,9* 0,781 *19,8* 0,937 *23,8*	5,65 9,15 12,55 16,00 19,50	0,372 9,45	0,382 9,70	0,3281 8,2	0,3215 8,17	0,3288 8,35	0,3665 9,31
3/8-24 9,52 x 1,058	1 d 1,5 d 2 d 2,5 d 3 d	0,375 *9,5* 0,562 *14,3* 0,750 *19,1* 0,938 *23,8* 1,125 *28,6*	7,10 11,30 15,40 19,60 23,75	0,437 11,10	0,457 11,60	0,3906 9,8	0,3840 9,75	0,3910 9,93	0,4291 10,90

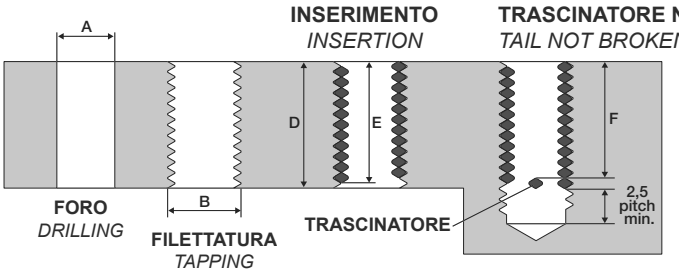
FILETTI RIPORTATI PASSO UNF
WIRE INSERTS UNF PITCH

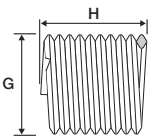


E = D - 0,75 x Passo
E = D - 0,75 x Pitch
F = D - 1,5 x Passo
F = D - 1,5 x Pitch

ø X PASSO *X PITCH*	X d	D LUNGHEZZA FILETTO *BASE TAPPING LENGHT*	H N. DELLE SPIRE ALLO STATO LIBERO *Nb. OF TURNS AT THE INITIAL STATE -0,25*	G Ø INIZIALE *INITIAL STATE MIN - MAX*		A ø FORO *DRILLING* ø FORO *DRILL*	A ø FORO *DRILLING* TOLLERANZA *TOLERANCE MIN - MAX*		MASCHIO *TAP* B ø ESTERNO MINIMO *EXT . MIN*
7/16-20 11,11 x 1,270	1 d 1,5 d 2 d 2,5 d 3 d	0,438 *11,1* 0,656 *16,7* 0,875 *22,2* 1,094 *27,8* 1,312 *33,3*	6,85 11,00 15,15 19,20 23,35	0,508 12,90	0,524 13,30	0,4531 11,5	0,4483 11,39	0,4561 11,59	0,5024 12,76
1/2-20 12,70 x 1,270	1 d 1,5 d 2 d 2,5 d 3 d	0,500 *12,7* 0,750 *19,1* 1,000 *25,4* 1,250 *31,8* 1,500 *38,1*	8,20 12,90 17,60 22,30 27,00	0,571 14,50	0,587 14,90	0,5156 13,1	0,5108 12,97	0,5186 13,17	0,5650 14,35
9/16-18 14,29 x 1,411	1 d 1,5 d 2 d 2,5 d 3 d	0,562 *14,3* 0,844 *21,5* 1,125 *28,6* 1,406 *35,7* 1,687 *42,9*	8,20 12,85 17,60 22,40 27,05	0,646 16,40	0,665 16,90	0,5781 14,7	0,5745 14,59	0,5826 14,79	0,6346 16,12
5/8-18 15,88 x 1,411	1 d 1,5 d 2 d 2,5 d 3 d	0,625 *15,9* 0,937 *23,8* 1,250 *31,8* 1,562 *39,7* 1,875 *47,6*	9,20 14,40 19,65 24,75 30,05	0,717 18,20	0,732 18,60	0,6406 16,3	0,6370 16,18	0,6451 16,38	0,6972 17,71
3/4-16 19,05 x 1,588	1 d 1,5 d 2 d 2,5 d 3 d	0,750 *19,1* 1,125 *28,6* 1,500 *38,1* 1,875 *47,7* 2,250 *57,2*	10,00 15,55 21,15 26,70 32,35	0,850 21,60	0,870 22,10	0,7656 19,5	0,7635 19,39	0,7720 19,60	0,8311 21,11
7/8-14 22,22 x 1,814	1 d 1,5 d 2 d 2,5 d 3 d	0,875 *22,2* 1,312 *33,3* 1,750 *44,5* 2,187 *55,6* 2,625 *66,7*	10,30 16,10 21,90 27,65 33,50	0,984 25,00	1,008 25,60	0,8906 22,7	0,8905 22,62	0,8994 22,84	0,9677 24,58

FILETTI RIPORTATI PASSO BSP
WIRE INSERTS BSP PITCH

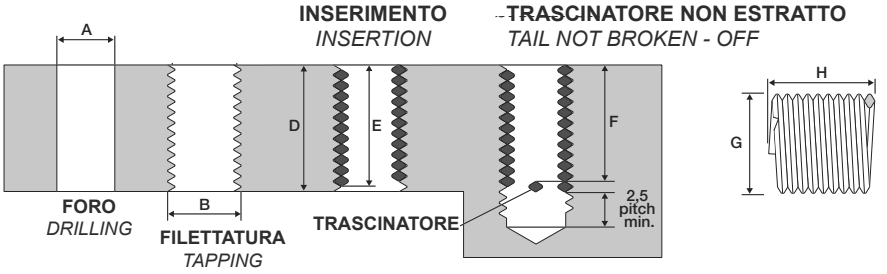




E = D - 0,75 x Passo
E = D - 0,75 x Pitch
F = D - 1,5 x Passo
F = D - 1,5 x Pitch

ø X PASSO *X PITCH*	D LUNGHEZZA FILETTO *BASE TAPPING LENGHT*	H N. DELLE SPIRE ALLO STATO LIBERO *Nb. OF TURNS AT THE INITIAL STATE -0,25*	G Ø INIZIALE *INITIAL STATE MIN - MAX*		A ø FORO *DRILLING* ø FORO *DRILL*	A ø FORO *DRILLING* TOLLERANZA *TOLERANCE MIN - MAX*		MASCHIO *TAP* B ø ESTERNO MINIMO *EXT . MIN*
1/8-28 9,728 x 0,907	4,8 6,4 7,9 9,5	3,70 5,20 6,85 8,40	11,2	11,6	10,1	9,91	10,16	10,82
1/4-19 13,157 x 1,337	9,5 12,7 15,9 19	5,45 7,60 9,90 12,15	15,2	15,7	13,7	13,46	13,72	14,74
3/8-19 16,662 x 1,337	9,5 14,3 19,1 23,8	5,40 8,70 12,10 15,35	19,0	19,5	17,2	17,02	17,27	18,25
1/2-14 20,955 x 1,814	12,7 19,1 25,4 31,8	5,40 8,70 12,00 15,35	23,7	24,3	21,5	21,34	21,59	23,09
5/8-14 22,911 x 1,814	15,9 23,8 31,8 39,7	7,05 11,25 15,40 19,60	25,6	26,3	23,5	23,24	23,55	25,05
3/4-14 26,441 x 1,814	19,1 28,6 38,1 47,6	8,70 13,60 18,80 23,80	29,3	30,0	27	26,75	27,08	28,59
7/8-14 30,201 x 1,814	22,2 33,3 44,5	10,35 16,20 22,10	33,3	34,0	30,7	30,48	30,81	32,35
1"-11 33,249 x 2,309	25,4 38,1 50,8	9,20 14,40 19,60	37,0	37,8	33,7	33,53	33,91	35,96

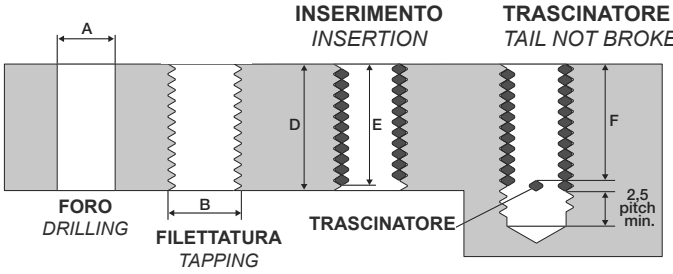
FILETTI RIPORTATI PASSO BSW
WIRE INSERTS BSW PITCH

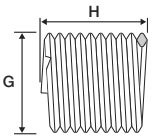


E = D - 0,75 x Passo
E = D - 0,75 x Pitch
F = D - 1,5 x Passo
F = D - 1,5 x Pitch

ø X PASSO *X PITCH*	X d	D LUNGHEZZA FILETTO *BASE TAPPING LENGHT*	H N. DELLE SPIRE ALLO STATO LIBERO *Nb. OF TURNS AT THE INITIAL STATE -0,25*	G Ø INIZIALE *INITIAL STATE MIN - MAX*		A ø FORO *DRILLING* ø FORO *DRILL*	A ø FORO *DRILLING* TOLLERANZA *TOLERANCE MIN - MAX*		MASCHIO *TAP* B ø ESTERNO MINIMO *EXT . MIN*
1/4-20 6,350 x 1,270	1 d 1,5 d 2 d 2,5 d	6,4 9,5 12,7 15,9	3,40 5,80 8,10 10,50	7,9	8,2	6,7	6,63	6,78	7,84
5-16-18 7,938 x 1,411	1 d 1,5 d 2 d 2,5 d	7,9 11,9 15,9 19,8	4,10 6,70 9,40 12,00	9,7	10,1	8,5	8,33	8,48	9,59
3/8-16 9,525 x 1,588	1 d 1,5 d 2 d 2,5 d	9,5 14,3 19,1 23,8	4,50 7,30 10,20 13,00	11,5	11,9	10,1	9,91	10,11	11,39
7/16-14 11,113 x 1,814	1 d 1,5 d 2 d 2,5 d	11,1 16,7 22,2 27,8	4,65 7,65 10,50 13,45	13,35	13,8	11,7	11,51	11,76	13,24
1/2-12 12,700 x 2,117	1 d 1,5 d 2 d 2,5 d	12,7 19,1 25,4 31,8	4,40 7,35 10,15 13,05	15,3	15,7	13,2	13,08	13,34	15,17
9/16-12 14,290 x 2,117	1 d 1,5 d 2 d 2,5 d	14,3 21,5 28,6 35,7	5,20 8,45 11,65 14,85	16,9	17,3	14,7	14,68	14,94	16,76
5/8-11 15,876 x 2,309	1 d 1,5 d 2 d 2,5 d	15,9 23,8 31,8 39,7	5,45 8,75 12,00 15,45	18,7	19,1	16,6	16,59	16,84	18,57
3/4-10 19,051 x 2,540	1 d 1,5 d 2 d 2,5 d	19,1 28,6 38,1 47,6	6,05 9,65 13,30 16,95	22,2	22,6	20	19,84	20,09	22,02
7/8-9 22,226 x 2,822	1 d 1,5 d 2 d 2,5 d	22,2 33,3 44,5 55,6	6,45 10,20 14,05 17,90	25,7	26,2	23	23,01	23,27	25,52
1"-8 25,400 x 3,175	1 d 1,5 d 2 d 2,5 d	25,4 38,1 50,8 63,5	6,55 10,30 14,20 18,05	29,3	29,8	26,5	26,19	26,52	29,10

FILETTI RIPORTATI PASSO BSF
WIRE INSERTS BSF PITCH





E = D - 0,75 x Passo
E = D - 0,75 x Pitch
F = D - 1,5 x Passo
F = D - 1,5 x Pitch

ø X PASSO *X PITCH*	X d	D LUNGHEZZA FILETTO *BASE TAPPING LENGHT*	H N. DELLE SPIRE ALLO STATO LIBERO *Nb. OF TURNS AT THE INITIAL STATE -0,25*	G Ø INIZIALE *INITIAL STATE MIN - MAX*		A ø FORO *DRILLING* ø FORO *DRILL*	A ø FORO *DRILLING* TOLLERANZA *TOLERANCE MIN - MAX*		MASCHIO *TAP* B ø ESTERNO MINIMO *EXT . MIN*
1/4-26 6,350 x 0,977	1 d 1,5 d 2 d 2,5 d	6,4 9,5 12,7 15,9	4,75 7,90 10,80 13,90	7,6	7,9	6,7	6,53	6,71	7,51
5/16-22 7,938 x 1,156	1 d 1,5 d 2 d 2,5 d	7,9 11,9 15,9 19,8	5,15 8,35 11,55 14,75	9,5	9,8	8,3	8,20	8,38	9,30
3/8-20 9,525 x 1,270	1 d 1,5 d 2 d 2,5 d	9,5 14,3 19,1 23,8	5,85 9,40 12,95 20,05	11,1	11,4	9,9	9,78	9,96	11,02
7/16-18 11,113 x 1,411	1 d 1,5 d 2 d 2,5 d	11,1 16,7 22,2 27,8	6,15 9,90 13,70 17,35	13,0	13,4	11,5	11,43	11,63	12,78
1/2-16 12,700 x 1,588	1 d 1,5 d 2 d 2,5 d	12,7 19,1 25,4 31,8	6,35 10,15 13,90 17,70	14,8	15,3	13,2	13,03	13,26	14,57
9/16-16 14,288 x 1,588	1 d 1,5 d 2 d 2,5 d	14,3 21,5 28,6 35,7	7,30 11,55 15,70 20,10	16,5	17,0	14,7	14,66	14,88	16,16
5/8-14 15,875 x 1,814	1 d 1,5 d 2 d 2,5 d	15,9 23,8 31,8 39,7	7,10 11,25 15,45 19,50	18,3	18,9	16,4	16,26	16,49	18,01
3/4-12 19,050 x 2,117	1 d 1,5 d 2 d 2,5 d	19,1 28,6 38,1 47,6	7,35 11,65 15,95 20,25	21,8	22,4	19,5	19,43	19,69	21,53
7/8-11 22,225 x 2,309	1 d 1,5 d 2 d 2,5 d	22,2 33,3 44,5 55,6	7,95 12,45 17,15 21,75	25,3	26,1	22,7	22,61	22,86	24,94
1"-10 25,400 x 2,540	1 d 1,5 d 2 d 2,5 d	25,4 38,1 50,8 63,5	8,30 13,20 18,05 22,80	28,6	29,4	26,5	26,19	26,52	28,38

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