

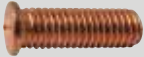









# Indice perni a saldare

Welding studs index

## Perni a saldare filettati | Threaded welding studs

	<b>PFR</b>	Acciaio ramato Copper plated steel	<b>443</b>
	<b>PFX</b>	Acciaio inox Stainless steel	<b>445</b>
	<b>PFA</b>	Alluminio Aluminium	<b>447</b>
	<b>PFO</b>	Ottone Brass	<b>448</b>




## Perni a saldare con filetto passo grosso | Large thread welding stud

	<b>PERCP</b>	Acciaio ramato - Con piolino Copper plated steel - With weld tip	<b>449</b>
	<b>PERSP</b>	Acciaio ramato - Senza piolino Copper plated steel - Without weld tip	<b>449</b>

## Perni automaschianti | Self-tapping welding studs

	<b>PFRA</b>	Acciaio ramato Copper plated steel	<b>450</b>
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## Perni a saldare lisci | Unthreaded welding studs

	<b>PLR</b>	Acciaio ramato Copper plated steel	<b>451</b>
	<b>PLX</b>	Acciaio inox Stainless steel	<b>452</b>
	<b>PLA</b>	Alluminio Aluminium	<b>453</b>

## Indice perni a saldare

Welding studs index

### Boccole filettate a saldare | Threaded welding bush

	<b>BFR</b>	Acciaio ramato Copper plated steel	<b>454</b>
	<b>BFX</b>	Acciaio inox Stainless steel	<b>455</b>
	<b>BFA</b>	Alluminio Aluminium	<b>456</b>

### Faston a saldare | Welding faston

	<b>F1R</b>	Acciaio ramato - 1 aletta Copper plated steel - 1 contact	<b>457</b>
	<b>F1X</b>	Acciaio inox - 1 aletta Stainless steel - 1 contact	<b>457</b>
	<b>F1A</b>	Alluminio - 1 aletta Aluminium - 1 contact	<b>457</b>
	<b>F1O</b>	Ottone - 1 aletta Brass - 1 contact	<b>457</b>
	<b>F2R</b>	Acciaio ramato - 2 alette Copper plated steel - 2 contacts	<b>457</b>
	<b>F2X</b>	Acciaio inox - 2 alette Stainless steel - 2 contacts	<b>457</b>

### Perni per isolamento | Insulation pins

	<b>IPL</b>	Perno per isolamento liscio - Acciaio ramato Plain insulation pin - Copper plated steel	<b>458</b>
	<b>IPZ</b>	Perno per isolamento zigrinato - Acciaio ramato Knurled insulation pin - Copper plated steel	<b>458</b>

### Perni per autoriparazioni | Car repair pins

	<b>IPS</b>	Perno per autoriparazioni liscio - Acciaio ramato Plain car repairs pin - Copper plated steel	<b>458</b>
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## Indice perni a saldare

Welding studs index

### Rondelle per chiodo isolamento | Washers for insulation pin

	<b>RR</b>	Acciaio ramato Copper plated steel	<b>459</b>
	<b>RZ</b>	Acciaio Steel	<b>459</b>
	<b>RP</b>	Polipropilene Polypropylene	<b>459</b>

### Saldatrici a scarica di condensatori | Studwelding tools

	<b>RIVST80E</b>	Per saldare prigionieri in acciaio, acciaio inox A2, ottone da M3-M8 e alluminio fino a M6 con l'utilizzo dell'apposita pistola. For welding of steel, stainless steel A2, M3-M8 brass and aluminum up to M6 studs with the use of the appropriate gun.	<b>460</b>
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# INFORMAZIONI GENERALI

## GENERAL INFORMATION

### Come ordinare

#### How to make an order


Indicare il codice breve e la descrizione composta da tipo, misura, lunghezza L e materiale.  
Always state the item code and the description including model, size, length (L) and material.

Esempio:  
Example:

<b>Codice</b> Item code	<b>Tipo</b> Model	<b>Filetto</b> Thread	<b>Lunghezza (L)</b> + 0.6	<b>Materiale</b> Material
1123000	PFR03006	M3	6.0	Acciaio ramato

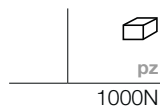
### Legenda

#### Legend

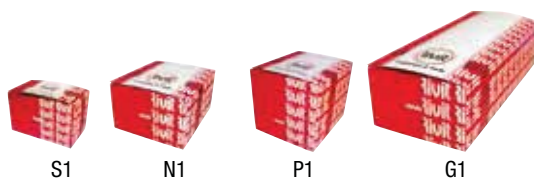
<b>d</b>	Passo del perno Stud pitch	<b>∅</b>	Diametro del perno Stud diameter	<b>Codice</b> Item code	Codice del prodotto Product code
<b>L</b>	Lunghezza del perno Stud length	<b>f</b>	Lunghezza foro della boccola Bush hole length		Quantità indicativa confezione rivendita Indicative quantity for each retail box
<b>T</b>	Larghezza della testa Head width	<b>Tipo</b> Model	Sigla del prodotto Product abbreviation		

### Confezioni

#### Packaging



La lettera a fianco della quantità "imballo minimo" indica il tipo di confezione (vedi sotto).  
The letter near the quantity "minimal packaging" indicates the kind of the packaging (see below).



### Precisazioni

#### Specifications

I disegni sono indicativi rispetto alle informazioni e illustrano l'impiego dei prodotti.  
I valori inseriti nelle tabelle tecniche possono essere soggetti a modifiche, per i dati aggiornati consultare il portale.  
I colori relativi ai prodotti e alle loro applicazioni sono approssimativi e possono non corrispondere alle tonalità dei prodotti.  
Rivit si riserva la possibilità di cambiare, modificare o eliminare prodotti da questo catalogo senza preavviso.  
The pictures are connected to the information texts and they explain the use of the products.  
The data in the technical tables are subject to changes, for up to date data refer to the website.  
The colours of the illustrated products are similar to the real ones, therefore they could not correspond perfectly.  
Rivit can change or remove products from this catalogue without any notice.



# INFORMAZIONI GENERALI

## GENERAL INFORMATION

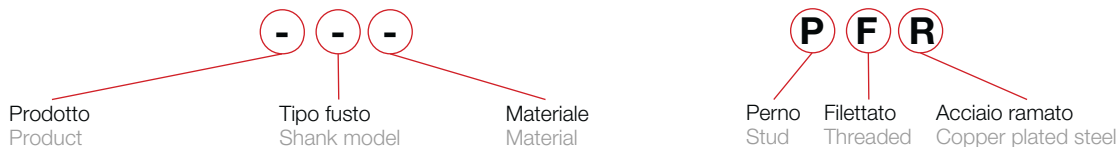
### Come si legge la sigla del perno a saldare

### How to read the welding stud abbreviation

La sigla è composta da:  
The abbreviation is made up of:

### Legenda







### Legend



<b>P</b> Perno a saldare Welding stud	<b>F</b> Filettato Threaded	<b>R</b> Acciaio ramato Copper plated steel
<b>B</b> Boccola a saldare Welding bush	<b>L</b> Liscio Unthreaded	<b>X</b> Acciaio inox Stainless steel
<b>F</b> Faston Faston		<b>A</b> Alluminio Aluminium
<b>R</b> Rondella Washer		<b>O</b> Ottone Brass

### Legenda colori materiale

### List of material colours

 Alluminio Aluminium	 Ottone Brass	 Acciaio inox A4 (Aisi 316) Stainless steel A4 (Aisi 316)
 Acciaio Steel	 Acciaio inox A2 (Aisi 304) Stainless steel A2 (Aisi 304)	 Acciaio ramato Copper plated steel

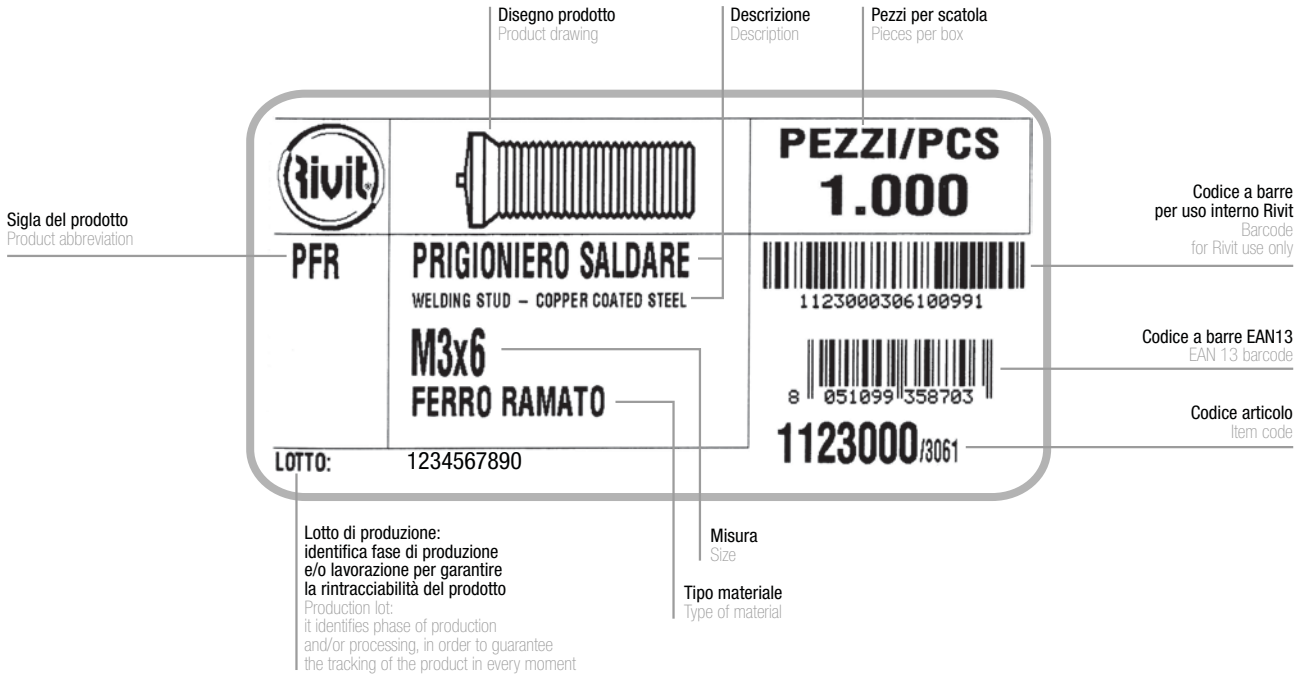
### QR Code



Il simbolo del QR CODE segnala la presenza di contenuti extra, che si possono visualizzare con smartphone o tablet. Se si è in possesso dell'apposita applicazione, puntare la fotocamera del tablet o dello smartphone in modo da inquadrare il QR CODE. Immediatamente verrà riconosciuto dall'applicazione che aprirà il video del prodotto.

The symbol of the QR CODE indicates the presence of extra content that can be viewed with a smartphone or tablet. If you have the application, point the camera of the tablet or smartphone to frame the QR CODE. This will be immediately recognized by the application and the video of the product will start.

# ETICHETTA PRODOTTI PRODUCT LABELLING



**NB. In caso di difetto del prodotto comunicare a Rivot lotto e codice articolo.**  
NB. In case of product defect please communicate to Rivot production lot and item code.



## Legenda del codice a barre Legend of the bar code

L'insieme delle cifre che compongono il codice sono successivamente riservate:

- I primi 2 numeri identificano la nazione.
- I successivi 5 numeri identificano il proprietario del marchio.
- I 5 numeri seguenti identificano il codice del prodotto.
- L'ultimo numero identifica la cifra di controllo.

The numbers in the bar code are so divided:

- The first 2 digits identify the country.
- The following 5 digits identify the brand owner.
- The next 5 digits identify the product item code.
- The last digit is a control number.

Il codice a barre utilizzato "EAN13" è il sistema di numerazione per identificare i prodotti nelle transazioni commerciali tra aziende.

Ha una validità internazionale e contraddistingue uno ed un solo prodotto. Questo significa che ogni prodotto viene identificato da un solo codice e ad ogni codice corrisponde un solo prodotto in tutto il mondo.

EAN 13 bar code is used to identify products in commercial transactions among companies.

It is internationally accepted and it identifies one single product, that means that each product corresponds to one single code and each code corresponds to one single product all over the world.





# DATI TECNICI

## TECHNICAL DATA

Tipo perno, sigla, materiale, norma, caratteristiche meccaniche secondo la EN ISO 13918  
Stud model, abbrev., material, regulation, mechanical properties according to EN ISO 13918

	<b>Tipo di perno</b> Stud model	<b>Sigla Rivit</b> Rivit abbreviation		<b>Materiale</b> Material	<b>Norma</b> Regulation	<b>Caratt. meccaniche</b> Mechanical properties
Perno a saldare con piolino d'innescò a scarica di condensatore Weld stud for capacitor discharge with weld tip	Perno filettato Threaded stud	PF	R	Ferro (4.8)* ramato Copper plated steel (4.8)*	EN 20898-1	$R_m \geq 420 \text{ N/mm}^2$ $R_{\text{sh}} \geq 340 \text{ N/mm}^2$ $A_5 \geq 14 \%$
	Perno liscio Unthreaded stud	PL	X	Aisi 304 (A2-50)*	EN ISO 3506-3	$R_m \geq 500 \text{ N/mm}^2$ $R_{p0.2} \geq 210 \text{ N/mm}^2$ $A_L \geq 0.6d$
	Boccola Bush	BF	O	CuZn37 (Ms 63)	ISO 426-1 ISO 1638	$R_m \geq 370 \text{ N/mm}^2$
* Adatto alla saldatura   Suitable for welding Altri materiali su richiesta   Other materials on request			A	EN AW-AI99,5	EN 573-3	$R_m \geq 100 \text{ N/mm}^2$
			A	EN AW-AIMg3	EN 573-3	$R_m \geq 180 \text{ N/mm}^2$

## Forza di trazione e momento di trazione

### Tensile strenght and moment of tensile

#### Materiale | Material

Filetto Thread	Fe (4.8)* $\mu=0.18$ $R_{p0.2}=340 \text{ N/mm}^2$		Aisi 304 (A2-50)* $\mu=0.18$ $R_{p0.2}=210 \text{ N/mm}^2$		AlMg3 F23 $\mu=0.18$ $R_{p0.2}=170 \text{ N/mm}^2$		CuZn37 (Ms63) $\mu=0.18$ $R_{p0.2}=250 \text{ N/mm}^2$	
	FT KN	MT Nm	FT KN	MT Nm	FT KN	MT Nm	FT KN	MT Nm
M3	1.1	0.8	0.7	0.5	0.5	0.4	0.8	0.6
M4	1.8	1.8	1.1	1.1	1.0	0.9	1.4	1.3
M5	3.0	3.6	1.9	2.3	1.6	1.9	2.3	2.7
M6	4.3	6.1	2.7	3.8	2.2	3.1	3.2	4.5
M8	8.0	15.0	4.9	9.5	4.0	7.5	6.0	11.0
M10	13.0	30.0	7.8	19.0	-	-	-	-

\* Adatto alla saldatura | Suitable for welding

**FT:** Forza di trazione | Tensile strenght

**MT:** Momento di trazione | Moment of tensile

## Combinazioni di materiali in base alla EN ISO 14555

### Combinations of materials according to EN ISO 14555

#### Materiale lamiera | Sheet metal material

Materiale perno Stud material	EN 288-3/Gruppo 1, 2, 3, 4 e ferro fino a 0,30% di C contenuto EN 288-3/Group 1, 2, 3, 4 and iron up to 0,30% of C content	EN 288-3/Gruppo 1, 2, 3, 4 e lamiere zincate o con riv. metallico, max spessore int. 25 $\mu\text{m}$ EN 288-3/Group 1, 2, 3, 4 and zinc plated or with metal coating sheets, max int. thickness 25 $\mu\text{m}$	EN 288-3/ Gruppo 9 EN 288-3/ Group 9	Rame e leghe senza rame, es. CuZn37, ottone (Ms63) Copper and alloys without copper, e.g. CuZn37, brass (Ms63)	EN 288-4/ Gruppo 21 e 22.1 EN 288-4/ Group 21 and 22.1
Fe (4.8)* ramato	1	2	1	2	--
1.4301/03 (A2-50)*	1	2	1	2	--
CuZn37 (Ms63)	2	2	2	1	--
EN A W-AI99,5	--	--	--	--	2
EN A W-AIMg3	--	--	--	--	1

\* Adatto alla saldatura | Suitable for welding

**1:** Buona combinazione per ogni applicazione | Good combination for every application

**2:** Saldabile con limitazioni | Weldable with limitations

**--:** Non saldabile | Not weldable

Altre combinazioni di materiali su richiesta e dopo aver effettuato test di saldatura.  
More combinations of materials on request and after welding test.



# DATI TECNICI E INFORMAZIONI

## TECHNICAL DATA AND INFORMATION

### Flangia (testa) del perno

#### Stud flange

Le flange dei perni sono eseguite a norma EN ISO 13918.

La flangia è un componente integrante del perno saldato. Il suo diametro è maggiore del diametro esterno del perno. Durante la saldatura, essa impedisce che l'arco voltaico invada la parte cilindrica o filettata del perno, aumentando contemporaneamente la superficie di saldatura. Ne risulta così una qualità più elevata della saldatura. La flangia serve anche per l'alimentazione automatica con gli alimentatori HBS. Si sconsiglia l'utilizzo dei perni senza flangia.

The stud flanges are made in accordance with EN ISO 13918.

The flange is an integral component of the welding stud. Its diameter is always bigger than the outer diameter of the stud. During welding, it prevents the electric arc to flash over the cylindrical part of the stud, simultaneously increasing the welding surface. Thanks to this, a higher quality of the weld is achieved. The flange works also for the automatic feeding with power supplies HBS. We do not recommend the use of studs without flange.

### Filettature

#### Threads

Tutte le viti sono dotate di filettature a norma ISO 724, EN ISO 4759-1, classe di prodotto A, tolleranza 6g. Le viti sono sottoposte a trattamento galvanico secondo la EN ISO 4042, tolleranza 6h.

Attraverso la rullatura a freddo del filetto, si ottengono i seguenti vantaggi:

- nessuna rottura delle fibre;
- aumento della resistenza della superficie fino al 100%;
- riduzione ruvidezza della superficie e da questo una maggiore resistenza alla corrosione.

All screws have threads made according to ISO 724, EN ISO 4759-1, class of product A, tolerance 6g. The screws are galvanized according to norm EN ISO 4042, tolerance 6h.

Through cold rolling thread, you get the following benefits:

- no breakage of the fibers;
- increase in the resistance of the surface up to 100%;
- reduction in surface roughness and a higher resistance to corrosion.

### Protezione della superficie

#### Surface treatment

Normalmente i prigionieri, i perni lisci e le boccole sono in ferro (4.8) con rivestimento galvanico in rame (EN ISO 4042) contro la corrosione. Lo spessore è compreso tra 4 e 8 µm.

In certe quantità i perni possono essere forniti anche con trattamento galvanico al nichel.

Normally our welding studs, the unthreaded studs and the bushes are made of steel 4.8, with an electrolytic copper plating of 4-8 µm (according to EN ISO 4042) as corrosion protection. Over certain quantities weld studs with nickel galvanic treatment can be arranged on request.

### Variazione di qualità nelle consegne

#### Quality variation in orders

Gli articoli realizzati secondo campioni o disegni, che richiedono una produzione speciale, non sono per noi vincolati al rispetto preciso della quantità. Sono ammesse variazioni in più o in meno.

Articles made according to samples or draws, which require a special production, are not required to meet precisely the quantities. Variations are allowed.

### Stoccaggio

#### Storage

Consigliamo di conservare i perni fino al loro utilizzo nell'imballo originale. In questo modo eviterete irregolari risultati di saldatura causati dall'umidità, sporcizia o altro. Nel caso dei perni in alluminio si riduce al minimo la possibile ossidazione. Evitate di mescolare le diverse partite. We recommend to store the welding studs in the original packaging until their use. This will prevent irregular welding results caused by moisture, dirt or else. In case of aluminum studs the risk of oxidation is reduced to the minimum. Please avoid mixing different lots.

### Ordinazione

#### Orders

Per agevolare il caricamento dell'ordine, vi chiediamo di citare sempre il codice che trovate in questo catalogo.

In order to help carrying out the order, please always state the item code that you find in this catalogue.

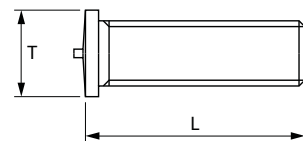
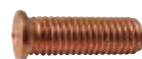


# Perni a saldare filettati in acciaio ramato


Threaded copper plated steel welding studs

PFR

96401



■ **Acciaio ramato**  
Copper plated steel

Filetto Thread	L +0.6	T ±0.2	Tipo Model	Codice Item code	 pz
<b>M3</b>	6.0	4.5	PFR03006	<b>1123000</b>	1000
	8.0	4.5	PFR03008	<b>1123100</b>	1000
	10.0	4.5	PFR03010	<b>1123200</b>	1000
	12.0	4.5	PFR03012	<b>1123300</b>	1000
	15.0	4.5	PFR03015	<b>1548900</b>	1000
	16.0	4.5	PFR03016	<b>1123400</b>	1000
	20.0	4.5	PFR03020	<b>1123500</b>	1000
	25.0	4.5	PFR03025	<b>1123600</b>	1000
	30.0	4.5	PFR03030	<b>1622700</b>	500
	35.0	4.5	PFR03035	<b>3505600</b>	500
<b>M4</b>	6.0	5.5	PFR04006	<b>1123700</b>	1000
	8.0	5.5	PFR04008	<b>1123800</b>	1000
	10.0	5.5	PFR04010	<b>1123900</b>	1000
	12.0	5.5	PFR04012	<b>1124000</b>	1000
	15.0	5.5	PFR04015	<b>1124100</b>	1000
	16.0	5.5	PFR04016	<b>1124200</b>	1000
	20.0	5.5	PFR04020	<b>1124300</b>	1000
	25.0	5.5	PFR04025	<b>1124400</b>	1000
	30.0	5.5	PFR04030	<b>1124500</b>	500
	35.0	5.5	PFR04035	<b>1124600</b>	500
	40.0	5.5	PFR04040	<b>1622800</b>	500
	45.0	5.5	PFR04045	<b>4755500</b>	500
	50.0	5.5	PFR04050	<b>5134200</b>	500
	<b>M5</b>	8.0	6.5	PFR05008	<b>1124700</b>
10.0		6.5	PFR05010	<b>1124800</b>	1000
12.0		7.0	PFR05012	<b>1124900</b>	1000
15.0		7.0	PFR05015	<b>1125000</b>	1000
16.0		7.0	PFR05016	<b>1125100</b>	1000
20.0		7.0	PFR05020	<b>1125200</b>	1000
25.0		6.5	PFR05025	<b>1125300</b>	500
30.0		6.5	PFR05030	<b>1125400</b>	500
35.0		6.5	PFR05035	<b>1125500</b>	500
40.0		6.5	PFR05040	<b>1125600</b>	250
45.0		6.5	PFR05045	<b>1699300</b>	250
50.0		6.5	PFR05050	<b>3769200</b>	100
<b>M6</b>	8.0	7.5	PFR06008	<b>1125700</b>	1000
	10.0	7.5	PFR06010	<b>1125800</b>	1000
	12.0	7.5	PFR06012	<b>1125900</b>	1000
	15.0	7.5	PFR06015	<b>1126000</b>	1000
	16.0	7.5	PFR06016	<b>1126100</b>	1000
	20.0	7.5	PFR06020	<b>1126200</b>	1000
	25.0	7.5	PFR06025	<b>1126300</b>	500
	30.0	7.5	PFR06030	<b>1126400</b>	500
	35.0	7.5	PFR06035	<b>1126500</b>	250
	40.0	7.5	PFR06040	<b>1126600</b>	250
	45.0	7.5	PFR06045	<b>1126700</b>	250
	50.0	7.5	PFR06050	<b>1126800</b>	250
	55.0	7.5	PFR06055	<b>1699400</b>	100
	60.0	7.5	PFR06060	<b>5014200</b>	100

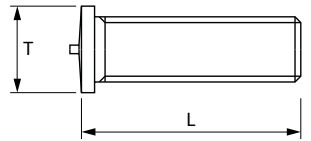


# Perni a saldare filettati in acciaio ramato


Threaded copper plated steel welding studs

PFR

96401



■ **Acciaio ramato**  
Copper plated steel

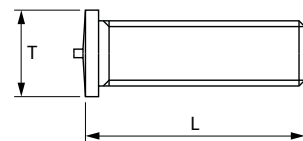
Filetto Thread	L +0.6	T ±0.2	Tipo Model	Codice Item code	 pz
<b>M8</b>	10.0	9.0	PFR08010	<b>1126900</b>	500
	12.0	9.0	PFR08012	<b>1527400</b>	500
	15.0	9.0	PFR08015	<b>1127000</b>	500
	16.0	9.0	PFR08016	<b>1127100</b>	500
	20.0	9.0	PFR08020	<b>1127200</b>	500
	25.0	9.0	PFR08025	<b>1127300</b>	250
	30.0	9.0	PFR08030	<b>1127400</b>	250
	35.0	9.0	PFR08035	<b>1127500</b>	250
	40.0	9.0	PFR08040	<b>1127600</b>	250
	45.0	9.0	PFR08045	<b>1127700</b>	250
	50.0	9.0	PFR08050	<b>1127800</b>	200
	55.0	9.0	PFR08055	<b>1699500</b>	100
	<b>M10</b>	20.0	-	PFR10020	<b>3160800</b>
25.0		-	PFR10025	<b>4664800</b>	250
30.0		-	PFR10030	<b>4202300</b>	200
35.0		-	PFR10035	<b>5043700</b>	200
45.0		-	PFR10045	<b>5813400</b>	100
50.0		-	PFR10050	<b>4165500</b>	100

# Perni a saldare filettati in acciaio inox


Threaded stainless steel welding studs

**PFX**

96401



**Acciaio inox**  
Stainless steel

Filetto Thread	L +0.6	T ±0.2	Tipo Model	Codice Item code	 pz
<b>M3</b>	6.0	4.5	PFX03006	<b>1130400</b>	1000
	8.0	4.5	PFX03008	<b>1130500</b>	1000
	10.0	4.5	PFX03010	<b>1130600</b>	1000
	12.0	4.5	PFX03012	<b>1130700</b>	1000
	15.0	4.5	PFX03015	<b>1527500</b>	1000
	16.0	4.5	PFX03016	<b>1130800</b>	1000
	20.0	4.5	PFX03020	<b>1130900</b>	1000
	25.0	4.5	PFX03025	<b>1131000</b>	1000
	30.0	4.5	PFX03030	<b>1623000</b>	500
	40.0	4.5	PFX03040	-	500
<b>M4</b>	6.0	5.5	PFX04006	<b>1131100</b>	1000
	8.0	5.5	PFX04008	<b>1131200</b>	1000
	10.0	5.5	PFX04010	<b>1131300</b>	1000
	12.0	5.5	PFX04012	<b>1131400</b>	500
	15.0	5.5	PFX04015	<b>1623100</b>	500
	16.0	5.5	PFX04016	<b>1131500</b>	500
	18.0	5.5	PFX04018	<b>1699700</b>	500
	20.0	5.5	PFX04020	<b>1131600</b>	500
	25.0	5.5	PFX04025	<b>1131700</b>	500
	30.0	5.5	PFX04030	<b>1131800</b>	500
	35.0	5.5	PFX04035	<b>1131900</b>	500
	40.0	5.5	PFX04040	<b>1623200</b>	500
	45.0	5.5	PFX04045	<b>1623300</b>	500
	<b>M5</b>	8.0	7.0	PFX05008	<b>1132000</b>
10.0		6.5	PFX05010	<b>1132100</b>	500
12.0		7.0	PFX05012	<b>1132200</b>	500
15.0		7.0	PFX05015	<b>1132300</b>	500
16.0		7.0	PFX05016	<b>1132400</b>	500
20.0		7.0	PFX05020	<b>1132500</b>	500
25.0		7.0	PFX05025	<b>1132600</b>	250
30.0		6.5	PFX05030	<b>1132700</b>	250
35.0		6.5	PFX05035	<b>1132800</b>	250
40.0		6.5	PFX05040	<b>1132900</b>	100
45.0	6.5	PFX05045	<b>1700000</b>	100	
<b>M6</b>	8.0	7.5	PFX06008	<b>1133000</b>	500
	10.0	7.5	PFX06010	<b>1133100</b>	500
	12.0	7.5	PFX06012	<b>1133200</b>	500
	15.0	7.5	PFX06015	<b>1058300</b>	500
	16.0	7.5	PFX06016	<b>1133300</b>	500
	18.0	7.5	PFX06018	<b>1700100</b>	500
	20.0	7.5	PFX06020	<b>1133400</b>	250
	25.0	7.5	PFX06025	<b>1133500</b>	250
	30.0	7.5	PFX06030	<b>1133600</b>	250
	35.0	7.5	PFX06035	<b>1133700</b>	250
	40.0	7.5	PFX06040	<b>1133800</b>	100
	45.0	7.5	PFX06045	<b>1133900</b>	100
	50.0	7.5	PFX06050	<b>1134000</b>	100
	55.0	7.5	PFX06055	<b>1700200</b>	100
60.0	7.5	PFX06060	<b>4299200</b>	100	

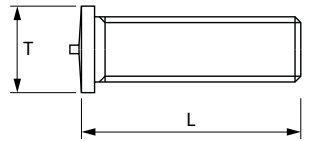


# Perni a saldare filettati in acciaio inox


Threaded stainless steel welding studs

PFX

96401



■ **Acciaio inox**  
Stainless steel

Filetto Thread	L +0.6	T ±0.2	Tipo Model	Codice Item code	 pz	
<b>M8</b>	10.0	9.0	PFX08010	<b>1134100</b>	250	
	12.0	9.0	PFX08012	<b>1623400</b>	250	
	15.0	9.0	PFX08015	<b>1134200</b>	250	
	16.0	9.0	PFX08016	<b>1134300</b>	250	
	20.0	9.0	PFX08020	<b>1134400</b>	250	
	25.0	9.0	PFX08025	<b>1134500</b>	250	
	30.0	9.0	PFX08030	<b>1134600</b>	250	
	35.0	9.0	PFX08035	<b>1134700</b>	250	
	40.0	9.0	PFX08040	<b>1134800</b>	100	
	45.0	9.0	PFX08045	<b>1134900</b>	100	
	50.0	9.0	PFX08050	<b>1700300</b>	100	
	55.0	9.0	PFX08055	<b>1700400</b>	100	
	<b>M10</b>	12.0	-	PFX10012	-	200
		16.0	-	PFX10016	<b>4713100</b>	200
20.0		-	PFX10020	<b>3411600</b>	200	
25.0		9.0	PFX10025	<b>3421300</b>	200	
30.0		-	PFX10030	<b>4713000</b>	100	
35.0		-	PFX10035	-	100	
40.0		-	PFX10040	<b>6202200</b>	100	
45.0		-	PFX10045	-	100	
50.0	-	PFX10050	-	100		

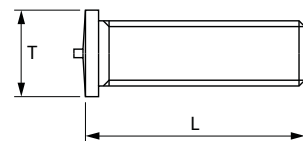
A richiesta si forniscono perni a saldare acciaio inox A4 1.4571.  
On request, A4 1.4571 stainless steel welding pins can be supplied.

# Perni a saldare filettati in alluminio Mg3


Threaded aluminium Mg3 welding studs

PFA

96401



■ Alluminio  
Aluminium

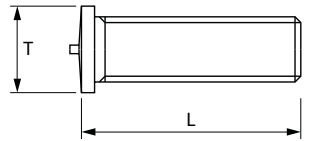
Filetto Thread	L +0.6	T ±0.2	Tipo Model	Codice Item code	 pz
<b>M3</b>	6.0	4.5	PFA03006	<b>1624500</b>	1000
	8.0	4.5	PFA03008	<b>1624600</b>	1000
	10.0	4.5	PFA03010	<b>1624400</b>	1000
	12.0	4.5	PFA03012	<b>1624200</b>	1000
	15.0	4.5	PFA03015	<b>1624700</b>	1000
	16.0	4.5	PFA03016	<b>1624800</b>	1000
	20.0	4.5	PFA03020	<b>1624900</b>	1000
	25.0	4.5	PFA03025	<b>1625000</b>	1000
<b>M4</b>	30.0	4.5	PFA03030	<b>1625100</b>	500
	6.0	5.5	PFA04006	<b>1625200</b>	1000
	8.0	5.5	PFA04008	<b>1625300</b>	1000
	10.0	5.5	PFA04010	<b>1625400</b>	1000
	12.0	5.5	PFA04012	<b>1625500</b>	500
	15.0	5.5	PFA04015	<b>1625600</b>	500
	16.0	5.5	PFA04016	<b>1625700</b>	500
	20.0	5.5	PFA04020	<b>1625800</b>	500
	25.0	5.5	PFA04025	<b>1625900</b>	500
	30.0	5.5	PFA04030	<b>1626000</b>	500
	35.0	5.5	PFA04035	<b>1626100</b>	500
40.0	5.5	PFA04040	<b>1626200</b>	500	
<b>M5</b>	8.0	7.0	PFA05008	<b>1128900</b>	500
	10.0	6.5	PFA05010	<b>1626400</b>	500
	12.0	7.0	PFA05012	<b>1626500</b>	500
	15.0	7.0	PFA05015	<b>1626600</b>	500
	16.0	7.0	PFA05016	<b>1626700</b>	500
	20.0	7.0	PFA05020	<b>1626800</b>	500
	25.0	7.0	PFA05025	<b>1626900</b>	250
	30.0	6.5	PFA05030	<b>1627000</b>	250
	35.0	6.5	PFA05035	<b>1627100</b>	250
	40.0	6.5	PFA05040	<b>1627200</b>	100
<b>M6</b>	10.0	7.5	PFA06010	<b>1627400</b>	500
	12.0	7.5	PFA06012	<b>1627500</b>	500
	15.0	7.5	PFA06015	<b>1627600</b>	500
	16.0	7.5	PFA06016	<b>1627700</b>	500
	20.0	7.5	PFA06020	<b>1627800</b>	250
	25.0	7.5	PFA06025	<b>1627900</b>	250
	30.0	7.5	PFA06030	<b>1628000</b>	250
	35.0	7.5	PFA06035	<b>1628100</b>	250
	40.0	7.5	PFA06040	<b>1628200</b>	100
	45.0	7.5	PFA06045	<b>1628300</b>	100
	50.0	7.5	PFA06050	<b>5653300</b>	100
	60.0	7.5	PFA06060	<b>4385000</b>	100
<b>M8</b>	10.0	9.0	PFA08010	<b>1628400</b>	250
	15.0	9.0	PFA08015	<b>1628600</b>	250
	20.0	9.0	PFA08020	<b>1628800</b>	250
	25.0	9.0	PFA08025	<b>1628900</b>	250
	30.0	9.0	PFA08030	<b>1629000</b>	250
	35.0	9.0	PFA08035	<b>1629100</b>	250
	40.0	9.0	PFA08040	<b>1629200</b>	100
	45.0	9.0	PFA08045	<b>1629300</b>	100

# Perni a saldare filettati in ottone


Threaded brass welding studs

PFO

96401



■ **Ottone**  
Brass

Filetto Thread	L +0.6	T ±0.2	Tipo Model	Codice Item code	 pz
<b>M3</b>	8.0	4.5	PFO03008	<b>4822000</b>	1000
	10.0	4.5	PFO03010	<b>5157600</b>	1000
	12.0	4.5	PFO03012	<b>2583800</b>	1000
	15.0	4.5	PFO03015	<b>4836600</b>	1000
	20.0	4.5	PFO03020	<b>3300000</b>	1000
	25.0	4.5	PFO03025	<b>4540400</b>	1000
<b>M4</b>	30.0	4.5	PFO03030	<b>3209400</b>	500
	6.0	5.5	PFO04006	<b>5667300</b>	1000
	8.0	5.5	PFO04008	<b>1130200</b>	1000
	10.0	5.5	PFO04010	<b>4254800</b>	1000
	12.0	5.5	PFO04012	<b>1051100</b>	1000
	16.0	5.5	PFO04016	-	1000
	20.0	5.5	PFO04020	<b>0067400</b>	1000
	25.0	5.5	PFO04025	-	1000
	30.0	5.5	PFO04030	<b>2462300</b>	500
	35.0	5.5	PFO04035	<b>3209500</b>	500
<b>M5</b>	50.0	5.5	PFO04050	-	500
	8.0	6.5	PFO05008	<b>5424300</b>	1000
	10.0	6.5	PFO05010	<b>4033300</b>	1000
	12.0	6.5	PFO05012	<b>4826100</b>	500
	15.0	6.5	PFO05015	-	1000
	16.0	6.5	PFO05016	-	1000
	20.0	6.5	PFO05020	<b>1047800</b>	1000
	30.0	6.5	PFO05030	<b>4831200</b>	1000
	40.0	6.5	PFO05040	<b>4831400</b>	1000
	<b>M6</b>	10.0	7.5	PFO06010	<b>3355600</b>
15.0		7.5	PFO06015	<b>1960000</b>	1000
20.0		7.5	PFO06020	<b>3087400</b>	1000
25.0		7.5	PFO06025	-	500
30.0		7.5	PFO06030	<b>4033400</b>	500
40.0		7.5	PFO06040	<b>4033600</b>	250
50.0	7.5	PFO06050	-	250	

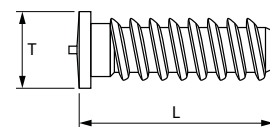


# Perni a saldare con filetto passo grosso in acciaio ramato

Large thread copper plated steel welding studs

**PERCP**

96401



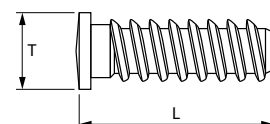
■ **Acciaio ramato**  
Copper plated steel

**Con piolino**  
With weld tip

Filetto Thread	L +0.6	T ±0.2	Tipo Model	Codice Item code	 pz
<b>M5</b>	<b>9.0</b>	6.5	PERCP050090	-	1000
	<b>12.0</b>	6.5	PERCP050012	-	1000
	<b>14.2</b>	6.5	PERCP050142	<b>4154300</b>	1000
	<b>16.5</b>	6.5	PERCP050165	<b>2750900</b>	1000
	<b>18.0</b>	6.5	PERCP050180	-	1000
	<b>25.0</b>	6.5	PERCP050250	-	500

**PERSP**

96401



■ **Acciaio ramato**  
Copper plated steel

**Senza piolino**  
Without weld tip

Filetto Thread	L +0.6	T ±0.2	Tipo Model	Codice Item code	 pz
<b>M5</b>	<b>9.0</b>	6.0	PERSP050090	-	1000
	<b>12.0</b>	6.0	PERSP050120	<b>2947100</b>	1000
	<b>14.2</b>	6.0	PERSP050142	-	1000
	<b>16.0</b>	6.0	PERSP050160	<b>2751000</b>	1000
	<b>18.0</b>	6.0	PERSP050180	<b>2947200</b>	1000
	<b>25.0</b>	6.0	PERSP050250	<b>2947400</b>	500

# Perni automaschianti in acciaio ramato

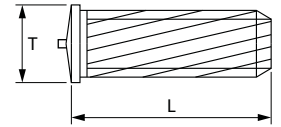
## Self-tapping copper plated steel welding studs


**PFRA**

96401



■ **Acciaio ramato**  
Copper plated steel



Filetto Thread	L +0.4	T ±0.2	Tipo Model	Codice Item code	 pz
<b>M6</b>	<b>10.0</b>	7.0	PFRA06010	<b>3439100</b>	1000
	<b>12.0</b>	7.0	PFRA06012	<b>4026200</b>	1000
	<b>15.0</b>	7.0	PFRA06015	<b>4014000</b>	1000
	<b>16.0</b>	7.0	PFRA06016	<b>5168600</b>	1000
<b>M8</b>	<b>20.0</b>	7.0	PFRA06020	<b>4487500</b>	1000
	<b>10.0</b>	9.0	PFRA08010	-	500
	<b>12.0</b>	9.0	PFRA08012	-	500
	<b>20.0</b>	9.0	PFRA08020	-	500

N.B.: Si consiglia di utilizzare il PFRA in presenza di vernice sul perno stesso.  
N.B.: It is recommended to use PFRA in presence of paint on the stud itself.

# Perni a saldare lisci in acciaio ramato

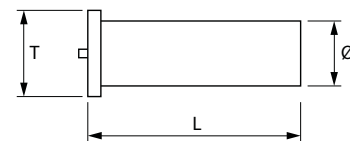
Unthreaded copper plated steel welding studs

PLR

96402



■ **Acciaio ramato**  
Copper plated steel



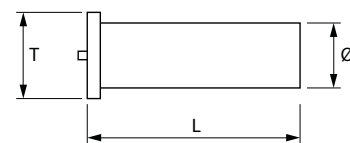
Ø mm	L +0.6	T ±0.2	Tipo	Codice	pz
			Model	Item code	
3.0	6.0	4.5	PLR03006	<b>5069500</b>	1000
	8.0	4.5	PLR03008	<b>4441300</b>	1000
	10.0	4.5	PLR03010	-	1000
	12.0	4.5	PLR03012	-	1000
	15.0	4.5	PLR03015	<b>3259600</b>	1000
	20.0	4.5	PLR03020	-	1000
4.0	25.0	4.5	PLR03025	-	1000
	8.0	5.5	PLR04008	<b>0862900</b>	1000
	10.0	5.5	PLR04010	<b>1721700</b>	1000
	12.0	5.5	PLR04012	<b>3747900</b>	1000
	15.0	5.5	PLR04015	<b>1961200</b>	1000
	16.0	5.5	PLR04016	-	1000
5.0	20.0	5.5	PLR04020	<b>2461100</b>	1000
	25.0	5.5	PLR04025	<b>2778800</b>	1000
	30.0	5.5	PLR04030	-	500
	35.0	5.5	PLR04035	<b>3743400</b>	500
	6.0	6.5	PLR05006	<b>5323300</b>	1000
	8.0	6.5	PLR05008	<b>1812600</b>	1000
6.0	10.0	6.5	PLR05010	<b>2560300</b>	1000
	12.0	6.5	PLR05012	<b>3254700</b>	1000
	15.0	6.5	PLR05015	<b>2398000</b>	1000
	16.0	6.5	PLR05016	<b>2961000</b>	1000
	20.0	6.5	PLR05020	<b>1801300</b>	1000
	25.0	6.5	PLR05025	<b>1789200</b>	500
7.1	30.0	6.5	PLR05030	-	500
	50.0	6.5	PLR05050	-	100
	8.0	7.5	PLR06008	<b>0326300</b>	1000
	10.0	7.5	PLR06010	<b>1646300</b>	1000
	12.0	7.5	PLR06012	<b>1667400</b>	1000
	15.0	7.5	PLR06015	<b>1690700</b>	1000
7.1	16.0	7.5	PLR06016	-	1000
	20.0	7.5	PLR06020	<b>2318100</b>	1000
	25.0	7.5	PLR06025	<b>3614000</b>	500
	30.0	7.5	PLR06030	<b>3689900</b>	500
	35.0	7.5	PLR06035	<b>3194800</b>	250
	40.0	7.5	PLR06040	-	250
7.1	45.0	7.5	PLR06045	<b>4077000</b>	250
	50.0	7.5	PLR06050	<b>1235600</b>	250
	55.0	7.5	PLR06055	<b>3730600</b>	100
	10.0	9.0	PLR07010	<b>0326200</b>	500
	12.0	9.0	PLR07012	<b>3335000</b>	500
	20.0	9.0	PLR07020	<b>2908000</b>	500
	25.0	9.0	PLR07025	<b>1711300</b>	250

# Perni a saldare lisci in acciaio inox

Unthreaded stainless steel welding studs

PLX

96402



■ **Acciaio inox**  
Stainless steel

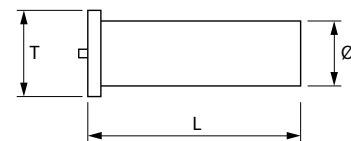
Ø mm	L +0.6	T ±0.2	Tipo	Codice	pz
			Model	Item code	
3.0	6.0	4.5	PLX03060	<b>2575800</b>	1000
	10.0	4.5	PLX03010	-	1000
	12.0	4.5	PLX03012	-	1000
	15.0	4.5	PLX03015	-	1000
	16.0	4.5	PLX03016	-	1000
	20.0	4.5	PLX03020	<b>4065500</b>	1000
	25.0	4.5	PLX03025	-	1000
4.0	6.0	5.5	PLX04006	<b>2893100</b>	1000
	8.0	5.5	PLX04008	<b>1948100</b>	1000
	10.0	5.5	PLX04010	<b>1135600</b>	1000
	12.0	5.5	PLX04012	-	500
	15.0	5.5	PLX04015	<b>1878000</b>	500
	20.0	5.5	PLX04020	-	500
	25.0	5.5	PLX04025	-	500
5.0	6.0	6.5	PLX05006	-	500
	8.0	6.5	PLX05008	<b>3767600</b>	500
	10.0	6.5	PLX05010	<b>3767300</b>	500
	12.0	6.5	PLX05012	<b>2294400</b>	500
	15.0	6.5	PLX05015	<b>1763600</b>	500
	16.0	6.5	PLX05016	<b>3692200</b>	500
	20.0	6.5	PLX05020	<b>1710200</b>	500
6.0	25.0	6.5	PLX05025	-	250
	30.0	6.5	PLX05030	<b>3371500</b>	250
	8.0	7.5	PLX06008	<b>2323800</b>	500
	10.0	7.5	PLX06010	<b>1760100</b>	500
	12.0	7.5	PLX06012	<b>0910500</b>	500
	15.0	7.5	PLX06015	<b>3596300</b>	500
	16.0	7.5	PLX06016	-	500
7.1	20.0	7.5	PLX06020	<b>0204300</b>	250
	25.0	7.5	PLX06025	-	250
	30.0	7.5	PLX06030	<b>2353500</b>	250
	35.0	7.5	PLX06035	-	250
	40.0	7.5	PLX06040	-	100
	50.0	7.5	PLX06050	<b>2630800</b>	100
	10.0	9.0	PLX07010	<b>4309200</b>	250
7.1	15.0	9.0	PLX07015	<b>5507900</b>	250
	20.0	9.0	PLX07020	<b>4329100</b>	250
	30.0	9.0	PLX07030	<b>4355900</b>	250

# Perni a saldare lisci in alluminio

## Unthreaded aluminium welding studs

PLA

96402



■ **Alluminio**  
Aluminium

Ø mm	L +0.6	T ±0.2	Tipo	Codice	pz
			Model	Item code	
3.0	10.0	4.5	PLA03010	<b>3245100</b>	1000
	12.0	4.5	PLA03012	-	1000
	15.0	4.5	PLA03015	-	1000
	25.0	4.5	PLA03025	-	1000
4.0	6.0	5.5	PLA04006	<b>3349300</b>	1000
	8.0	5.5	PLA04008	<b>5190300</b>	1000
	10.0	5.5	PLA04010	<b>3185300</b>	1000
	20.0	5.5	PLA04020	-	1000
	25.0	5.5	PLA04025	-	1000
5.0	30.0	5.5	PLA04030	-	500
	8.0	6.5	PLA05008	<b>1135000</b>	1000
	10.0	6.5	PLA05010	<b>1135100</b>	1000
	25.0	6.5	PLA05025	-	500
	30.0	6.5	PLA05030	-	500
6.0	35.0	6.5	PLA05035	-	500
	8.0	7.5	PLA06008	-	1000
	10.0	7.5	PLA06010	<b>5656800</b>	1000
	12.0	7.5	PLA06012	-	1000
	15.0	7.5	PLA06015	-	1000
	30.0	7.5	PLA06030	-	500
	35.0	7.5	PLA06035	-	250
40.0	7.5	PLA06040	-	250	
45.0	7.5	PLA06045	-	250	
50.0	7.5	PLA06050	-	250	

# Boccola filettata a saldare in acciaio ramato

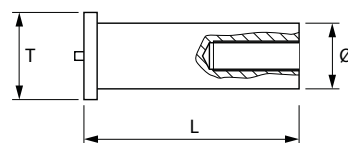
Threaded copper plated steel welding bush


BFR

96403



■ **Acciaio ramato**  
Copper plated steel



Filetto Thread	L +0.6	T ±0.2	Ø -0.05	Tipo Model	Codice Item code	 pz
<b>M3</b>	6.0	7.0	5.0	BFR03006	<b>0948900</b>	1000
	8.0	7.0	5.0	BFR03008	<b>1129100</b>	1000
	10.0	7.0	5.0	BFR03010	<b>1129200</b>	1000
	12.0	7.0	5.0	BFR03012	<b>1129300</b>	1000
	15.0	7.0	5.0	BFR03015	<b>1129400</b>	1000
	16.0	7.0	5.0	BFR03016	-	1000
	20.0	7.0	5.0	BFR03020	<b>1129500</b>	1000
	25.0	7.0	5.0	BFR03025	<b>1129600</b>	1000
<b>M4</b>	30.0	7.0	5.0	BFR03030	-	500
	8.0	7.5	6.0	BFR04008	<b>1694400</b>	1000
	10.0	7.5	6.0	BFR04010	<b>1129700</b>	1000
	12.0	7.5	6.0	BFR04012	<b>1129800</b>	1000
	14.0	7.5	6.0	BFR04014	-	1000
	15.0	7.5	6.0	BFR04015	<b>1129900</b>	1000
	16.0	7.5	6.0	BFR04016	-	1000
	20.0	7.5	6.0	BFR04020	<b>1130000</b>	1000
<b>M5</b>	25.0	7.5	6.0	BFR04025	<b>1130100</b>	1000
	30.0	7.5	6.0	BFR04030	<b>1721800</b>	500
	10.0	8.0	7.1	BFR05010	<b>1728500</b>	1000
	12.0	8.0	7.1	BFR05012	<b>1832200</b>	1000
	15.0	8.0	7.1	BFR05015	<b>1593200</b>	1000
	16.0	8.0	7.1	BFR05016	-	1000
	20.0	8.0	7.1	BFR05020	<b>3433800</b>	1000
	25.0	8.0	7.1	BFR05025	<b>1760000</b>	500
<b>M6</b>	30.0	8.0	7.1	BFR05030	<b>2472600</b>	500
	35.0	8.0	7.1	BFR05035	-	500
	40.0	8.0	7.1	BFR05040	<b>4314100</b>	250
	10.0	9.0	8.0	BFR06010	<b>3730700</b>	1000
	12.0	9.0	8.0	BFR06012	<b>3486600</b>	1000
	15.0	9.0	8.0	BFR06015	<b>4825700</b>	1000
<b>M6</b>	16.0	9.0	8.0	BFR06016	-	1000
	20.0	9.0	8.0	BFR06020	<b>4580600</b>	1000
	25.0	9.0	8.0	BFR06025	-	500
	30.0	9.0	8.0	BFR06030	<b>3338100</b>	500



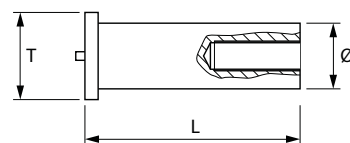
Particolare filetto interno  
Inside thread detail

# Boccola filettata a saldare in acciaio inox


Threaded stainless steel welding bush

**BFX**

96403



■ **Acciaio inox**  
Stainless steel

Filetto Thread	L +0.6	T ±0.2	Ø -0.05	Tipo Model	Codice Item code	 pz
<b>M3</b>	6.0	7.0	5.0	BFX03006	<b>4763600</b>	1000
	8.0	7.0	5.0	BFX03008	<b>4200800</b>	1000
	10.0	7.0	5.0	BFX03010	<b>4763700</b>	1000
	12.0	7.0	5.0	BFX03012	<b>3781100</b>	1000
	16.0	7.0	5.0	BFX03016	-	1000
	20.0	7.0	5.0	BFX03020	-	1000
	25.0	7.0	5.0	BFX03025	-	1000
<b>M4</b>	30.0	7.0	5.0	BFX03030	-	500
	6.0	7.5	6.0	BFX04006	<b>5399500</b>	1000
	8.0	7.5	6.0	BFX04008	<b>4537800</b>	1000
	10.0	7.5	6.0	BFX04010	<b>1740600</b>	1000
	12.0	7.5	6.0	BFX04012	<b>1547900</b>	500
	15.0	7.5	6.0	BFX04015	<b>1668000</b>	500
	16.0	7.5	6.0	BFX04016	-	500
	20.0	7.5	6.0	BFX04020	<b>5364700</b>	500
<b>M5</b>	25.0	7.5	6.0	BFX04025	-	500
	30.0	7.5	6.0	BFX04030	-	500
	10.0	8.0	7.1	BFX05010	<b>1862400</b>	500
	12.0	8.0	7.1	BFX05012	<b>3770800</b>	500
	15.0	8.0	7.1	BFX05015	<b>2689100</b>	500
	16.0	8.0	7.1	BFX05016	-	500
	20.0	8.0	7.1	BFX05020	<b>4596800</b>	500
	25.0	8.0	7.1	BFX05025	<b>3325100</b>	250
	30.0	8.0	7.1	BFX05030	<b>2701100</b>	250
	35.0	8.0	7.1	BFX05035	-	250
40.0	8.0	7.1	BFX05040	-	100	



Particolare filetto interno  
Inside thread detail

# Boccola filettata a saldare in alluminio

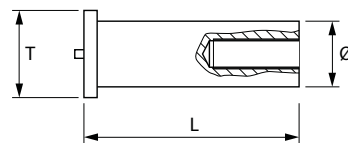
Threaded aluminium welding bush


**BFA**

96403



**Alluminio**  
Aluminium



Filetto Thread	L +0.6	T ±0.2	Ø -0.05	Tipo Model	Codice Item code	 pz
<b>M3</b>	6.0	7.0	5.0	BFA03006	<b>2375200</b>	1000
	8.0	7.0	5.0	BFA03008	<b>1135200</b>	1000
	10.0	7.0	5.0	BFA03010	<b>1764500</b>	1000
	12.0	7.0	5.0	BFA03012	<b>0467400</b>	1000
	15.0	7.0	5.0	BFA03015	<b>4828800</b>	1000
	16.0	7.0	5.0	BFA03016	-	1000
	20.0	7.0	5.0	BFA03020	<b>4829900</b>	1000
<b>M4</b>	25.0	7.0	5.0	BFA03025	-	1000
	8.0	7.5	6.0	BFA04008	<b>1951900</b>	1000
	10.0	7.5	6.0	BFA04010	<b>1877700</b>	1000
	12.0	7.5	6.0	BFA04012	<b>4536400</b>	1000
	15.0	7.5	6.0	BFA04015	<b>4830700</b>	1000
	16.0	7.5	6.0	BFA04016	<b>0034400</b>	1000
	20.0	7.5	6.0	BFA04020	<b>1833100</b>	1000
<b>M5</b>	25.0	7.5	6.0	BFA04025	-	1000
	30.0	7.5	6.0	BFA04030	-	500
	10.0	8.0	7.1	BFA05010	<b>1902500</b>	1000
	12.0	8.0	7.1	BFA05012	-	1000
	15.0	8.0	7.1	BFA05015	<b>5507800</b>	1000
	16.0	8.0	7.1	BFA05016	-	1000
	20.0	8.0	7.1	BFA05020	<b>4536500</b>	1000
<b>M5</b>	25.0	8.0	7.1	BFA05025	-	500
	30.0	8.0	7.1	BFA05030	-	500
	35.0	8.0	7.1	BFA05035	-	500
	40.0	8.0	7.1	BFA05040	-	250



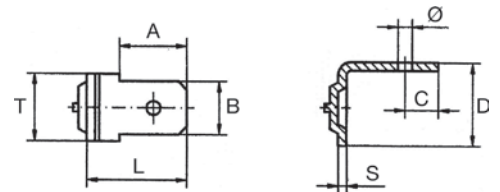
Particolare filetto interno  
Inside thread detail




## Faston a saldare con 1 aletta

Welding faston with 1 contact

- **Acciaio ramato**  
Copper plated steel
- **Acciaio inox**  
Stainless steel
- **Alluminio**  
Aluminium
- **Ottone**  
Brass

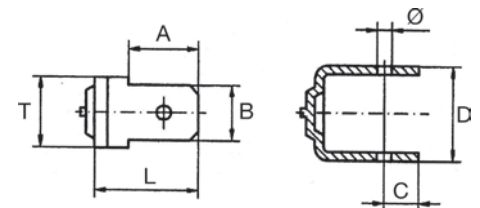



Materiale	A	B	C	D	L	S	T	Ø	Angolo	Tipo	Codice	
Material	mm	mm	mm	±0.5	±0.5	mm	mm	mm	Angle	Model	Item code	pz
<span style="color: #8B4513;">■</span>	8.0	6.3	4.0	9.8	11.8	1.0	8.0	1.65	90°	F1R	<b>0061800</b>	1000
<span style="color: #4682B4;">■</span>	8.0	6.3	4.0	9.8	11.8	1.0	8.0	1.65	90°	F1X	<b>1952300</b>	1000
<span style="color: #228B22;">■</span>	8.0	6.3	4.0	9.8	11.8	1.0	8.0	1.65	90°	F1A	<b>2962000</b>	1000
<span style="color: #FFD700;">■</span>	8.0	6.3	4.0	9.8	11.8	1.0	8.0	1.65	90°	F1O	<b>0113700</b>	1000

## Faston a saldare in ferro famato con 2 alette

Copper plated steel welding faston with 2 contacts

- **Acciaio ramato**  
Copper plated steel
- **Acciaio inox**  
Stainless steel



Materiale	A	B	C	D	L	T	Ø	Angolo	Tipo	Codice	
Material	mm	mm	mm	mm	mm	mm	mm	Angle	Model	Item code	pz
<span style="color: #8B4513;">■</span>	8.0	6.3	4.0	10.9	12.1	8.0	1.7	90°	F2R	<b>1565300</b>	1000
<span style="color: #4682B4;">■</span>	8.0	6.3	4.0	10.9	12.1	8.0	1.7	90°	F2X	<b>5105900</b>	1000

## Chiodo liscio in acciaio ramato per isolamento

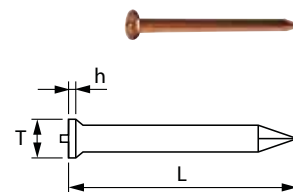
Plain copper plated steel insulation pin

IPL

96405

### Acciaio ramato

Copper plated steel



Ø	L	T	h	Tipo	Codice	
mm	mm	mm	mm	Model	Item code	pz
2.1	20.0	3.1	0.6	IPL021020	5579500	500
	30.0	3.1	0.6	IPL021030	1678100	500
	40.0	3.1	0.6	IPL021040	1678000	500
	50.0	3.1	0.6	IPL021050	-	500
	2.6	50.0	4.5	IPL026050	4555200	1000
3.0	12.0	5.0	0.7	IPL030012	5052800	1000
	20.0	5.0	0.7	IPL030020	-	1000
	25.0	5.0	0.7	IPL030025	5373800	1000
	30.0	5.0	0.7	IPL030030	-	1000
	35.0	5.0	0.7	IPL030035	-	1000
	40.0	5.0	0.7	IPL030040	5373900	1000
	50.0	5.0	0.7	IPL030050	1130300	1000
	60.0	5.0	0.7	IPL030060	5374000	1000
	70.0	5.0	0.7	IPL030070	5374100	1000
	80.0	5.0	0.7	IPL030080	5396400	1000
	90.0	5.0	0.7	IPL030090	-	1000
	100.0	5.0	0.7	IPL030100	-	1000
140.0	5.0	0.7	IPL030140	5533800		

## Chiodo zigrinato in acciaio ramato per isolamento

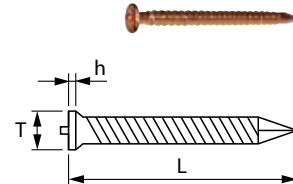
Knurled copper plated steel insulation pin

IPZ

96405

### Acciaio ramato

Copper plated steel



Ø	L	T	h	Tipo	Codice	
mm	mm	mm	mm	Model	Item code	pz
3.0	17.0			IPZ030017	1711000	1000
	25.0			IPZ030025	1135300	1000
	32.0			IPZ030032	1135400	1000

A richiesta si forniscono perni a saldare acciaio inox A2 per isolamento.

A2 stainless steel welding pins for insulation can be supplied on request.

## Perno liscio in acciaio ramato per autoriparazioni

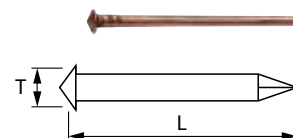
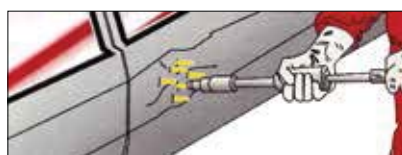
Plain copper plated steel pin for car repairs

IPS

96405

### Acciaio ramato

Copper plated steel



Ø	L	T	Tipo	Codice	
mm	mm	mm	Model	Item code	pz
2.0	50.0	4.0	IPS020050	4383700	500
2.5	50.0	5.0	IPS025050	4329200	500

# Rondelle per chiodo isolamento

Washers for insulation pin

**RR26**

96405



■ **Acciaio ramato**  
Copper plated steel


Per Ø chiodo For pin Ø	Ø esterno External Ø	Tipo Model	Codice Item code	 pz
2.6	38.0	RR26	4555400	1000

**RZ20/30/40**

96405



■ **Acciaio**  
Steel

Per Ø chiodo For pin Ø	Ø esterno External Ø	Tipo Model	Codice Item code	 pz
2.0	38.0	RZ20	5184100	1000
3.0	38.0	RZ30	4266800	1000
4.0	38.0	RZ40	5011800	1000

A richiesta si forniscono in acciaio inox.  
On request they can be supplied in stainless steel.

**RP50**

96405



**Polipropilene**  
Polypropylene

Per Ø chiodo For pin Ø	Ø esterno External Ø	Tipo Model	Codice Item code	 pz
2.1 - 3.0	50.0	RP50	1673200	1000

# Saldatrice a scarica di condensatori

## Capacitor discharge stud welding tool

RIVST80E

96490

Tipo	Codice
Model	Item code
RIVST80E	6096800

**RIVST80E idonea a saldare prigionieri in acciaio, acciaio inox A2, ottone da M3-M8 e alluminio fino a M6 con l'utilizzo dell'apposita pistola.**

RIVST80 is suitable for the welding of steel, stainless steel A2, M3-M8 brass and aluminum up to M6 studs with the use of the appropriate gun.

RIVST80E opera secondo il metodo di scarica di condensatori. Essendo completamente elettronica non è soggetta ad usura e stabilizza automaticamente le oscillazioni della tensione di rete.

**Peso saldatrice: 14.2 kg - Peso della pistola: 0.8 kg**

La pistola lavora secondo il metodo di saldatura a contatto.

RIVST80 operates according to the discharge of capacitor method. Since the machine is completely electronic, it isn't subject to usury because it automatically stabilizes the oscillation of the main voltage.

**Weight of welder: 14.20 kg - Weight of gun: 0.8 kg**

The gun works through the contact welding method.



### Prodotti per RIVST80E

Items for RIVST80E

Foto	Descrizione
Picture	Description
	Perni filettati Threaded studs
	Perni lisci Unthreaded studs
	Boccole Tapped studs
	Faston 1 aletta 1 contact faston
	Faston 2 alette 2 contacts faston
	Chiodi per isolamento Insulation nails
	Rondelle per chiodi isolamento Washer for insulation nails

**RIVST8E viene venduta con pinze per prigionieri da M3 a M8 e boccole da M3 a M4.**

RIVST80E is supplied with noses for studs M3 to M8 and for tapped studs M3 and M4

**Tensione di carica 220V per una potenza ancora maggiore**  
220V charging voltage for even more power

**Visualizzazione chiara con retroilluminazione**  
Clear display with backlight

**Contatore lavori per pieno controllo del lavoro**  
job counter for full job control



**Interruttore Easy Touch utilizzabile con i guanti**  
Easy Touch switch usable with gloves

### Accessori a richiesta

Optionals

Tipo	Utilizzo	Codice
Model	Use	Item code
	Posizionatore per perni a saldare con foro Ø 30 mm. Utile per quando si lavora con maschere di saldatura e non si ha la visuale per il corretto posizionamento del perno. Template positioned with Ø 30 mm hole: to be used with welding templates, as otherwise you cannot see stud positioning.	2957300
	Supporto angolare per pistola: necessario quando si deve posizionare il perno in angoli o vicino a pareti. Angular support for the gun: to be used when placing the stud in a corner or close to a wall.	1616000
	Pinza per faston a 1 o 2 alette: per l'installazione di faston per contatti elettrici o la messa a terra. Nose for 1 contact or 2 contacts fastons: to be used when placing fastons for electric contact or grounding.	1660400
	Pinza per perni lisci Ø 7.1 e boccole M5: per la saldatura di perni lisci aventi un Ø esterno di 7.1 e boccole filettate interamente di M5. Nose for unthreaded studs Ø 7.1 and tapped studs M5: to be used when placing unthreaded studs with external Ø 7.1 and tapped studs M5.	0326000
	* Pistola per perni a saldare in alluminio modello 1803D. Gun for aluminium soldering pins model 1803D.	2895600

\* La pistola standard modello 1802D va in contatto con il perno sulla lamiera prima della saldatura, con tempi di saldatura più lunghi.

**La pistola per alluminio modello 1803D serve a minimizzare i segni sul retro della lamiera in alluminio, cioè il perno si appoggia sulla lamiera solo nel momento della saldatura. Quando si inserisce è indispensabile che la centralina sia configurata.**

Per questo motivo la pistola standard viene considerata a pressione e invece quella per l'alluminio a sollevamento.

\* The standard gun model 1802D goes into contact with the pin on the plate before the welding, with longer welding times.

**The gun for aluminium model 1803D minimizes the signs on the back side of the aluminium sheet, because the pin lays on the sheet only in the moment of welding.**

When you plug the gun in it is essential that the unit is configured.

For this reason, the standard gun is a pressure one the aluminium gun is a lifting one.