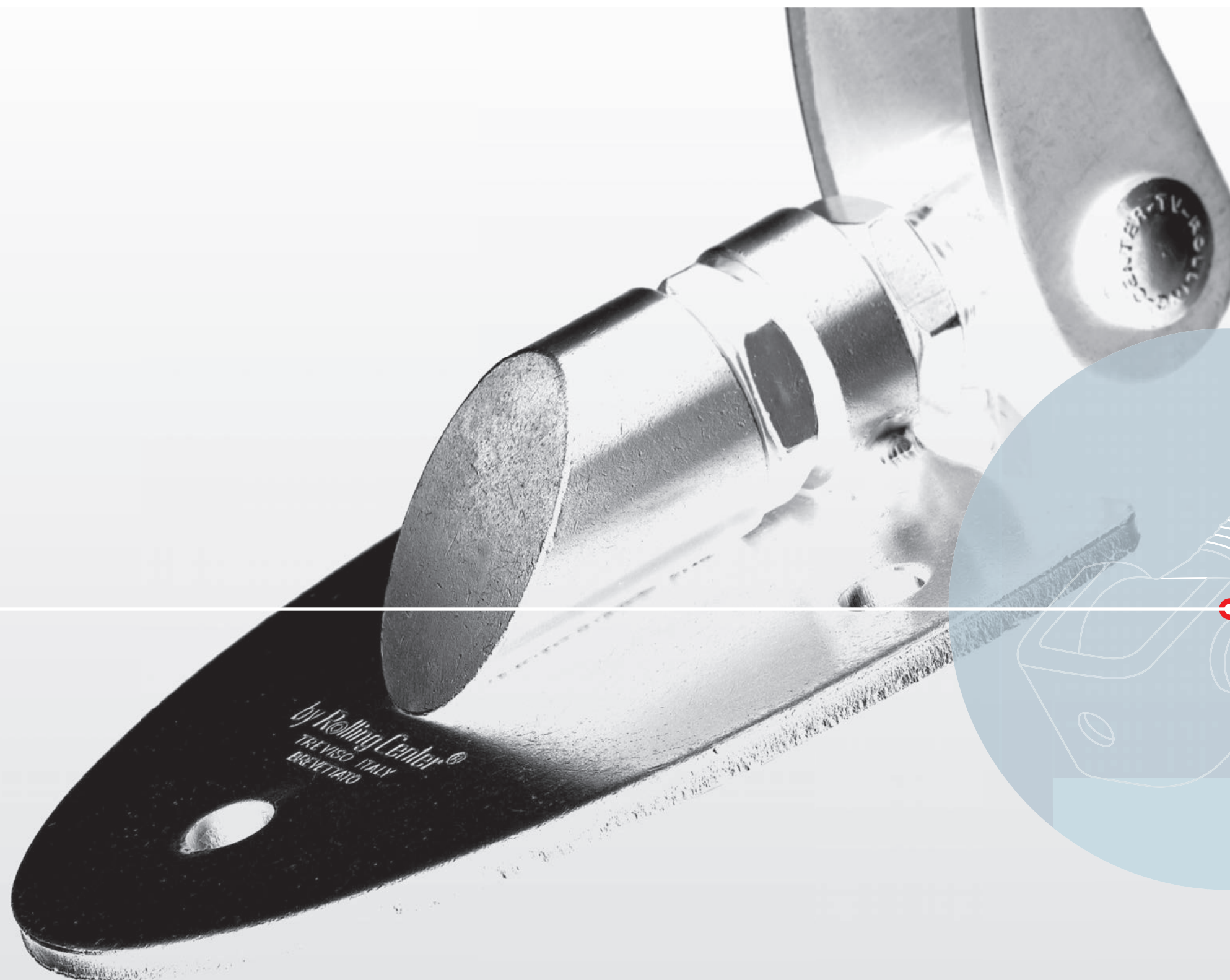


rollingcenter.com



CARDINI

Hinges
Torbänder
Gonds
Pernios
Петли



A

TUBOFIX

Cardine per montanti a sezione quadra. Senza necessità di saldatura

CR 30QP



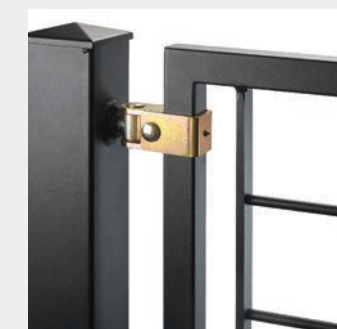
Hinge for square section pillars with no need of welding

P 40Q



Dispositivo di imperniamento che consente il movimento dell'anta senza necessità di saldare il cardine al montante del cancello, ma attraverso un cavallotto che si adatta alle dimensioni del tubo.

The pivot system tool allows the movement of the door without welding the hinge to the gate but using a clevis that adapts to the pipe dimensions.



B

PASCAL

PASCAL 1



PASCAL 2N



Cardine PASCAL brevettato

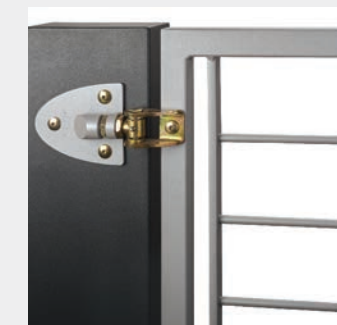
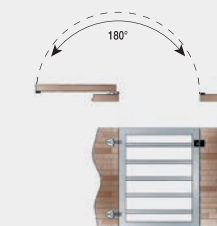
si propone come un'innovativa soluzione per cancelli ad una o due ante o per porte industriali anche di grandi dimensioni.

Patented PASCAL hinge

The patented PASCAL hinge is an innovative solution for single or 2 wings gates, or even for large industrial doors.

Esempio di applicazione cardine PASCAL dove è possibile notare l'apertura di 180°, dando così la possibilità di avere una luce netta di passaggio.

Example of application hinge PASCAL where it is possible to notice opening up to 180°, giving therefore the possibility to have one clean light of passage.



C



Battente zincato fisso porta incontro per elettro-serratura e serratura manuale

Galvanized fixed keep for electro and manual lock





A



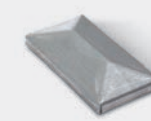
CAP TN



CAP QN



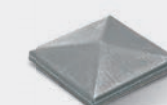
CAP RN



CAP RG/Z



CAP TG/Z



CAP G/Z



SF 60
SF 76
SF 102

B



CR 30Q
CR 35Q
CR 40Q
CR 50Q



CR 30QP
CR 35QP
CR 40QP
CR 50QP



PG 51S2
PG 71S2



PG 50I2
PG 70I2



PG 51S
PG 71S
PG 121S



PG 50I
PG 70I
PG 120I



132 P
132 G



P 20
P 24



P 35
P 40



P 40Q
P 50Q



C 18
C 20
C 24



CR 18
CR 20
CR 24



CR 18P
CR 20P
CR 24P



CL 16R
CL 20R
CL 24R



CL 16RA
CL 20RA
CL 24RA



C 18A
C 20A
C 24A



CR 18A
CR 20A
CR 24A



CR 18PA
CR 20PA
CR 24PA



C 30
C 35
C 40



CR 30
CR 35
CR 40



CR 30P
CR 35P
CR 40P



PR 18
PR 20
PR 24
PR 30



T 30
T 35
T 40



T 30F
T 35F

C



CAVO 1
CAVO 2

D



160



160 G



128/10
128/20



129



129 P



A



CAVO 1
CAVO 2

B



CR 30Q
CR 35Q
CR 40Q
CR 50Q



CR 30QP
CR 35QP
CR 40QP
CR 50QP



PG 51S2
PG 71S2



PG 51I2
PG 71I2



PG 51S
PG 71S
PG 121S



PG 50I
PG 70I
PG 120I



CR 18PA
CR 20PA
CR 24PA



C 18A
C 20A
C 24A



CR 18A
CR 20A
CR 24A



C 30
C 35
C 40



CR 30
CR 35
CR 40



CR 30P
CR 35P
CR 40P

C



56



F 105



F 105 BP
F 105 BG



132 P
132 G



P 20
P 24



P 35
P 40



P 40Q
P 50Q



C 18
C 20
C 24



CR 18
CR 20
CR 24



CM 18
CM 20
CM 24



CR 18P
CR 20P
CR 24P



CL 16R
CL 20R
CL 24R



CL 16RA
CL 20RA
CL 24RA



CR 60



PR 18
PR 20
PR 24
PR 30



T 30
T 35
T 40

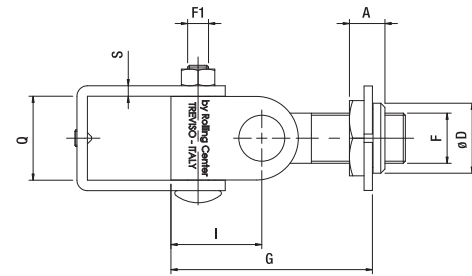


T 30F
T 35F



I TUBOFIX cardine per montanti a sezione quadra senza necessità di saldatura

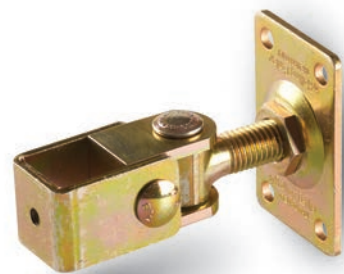
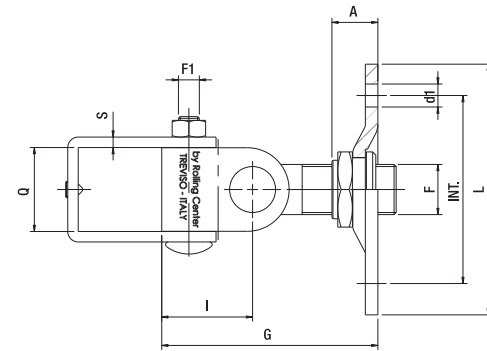
- UK TUBOFIX hinge for square section pillars with no need of welding
D Tubofix Torband für Pfosten mit quadratischem Querschnitt. Kein Anschweißen nötig
F Tubofix gond pour tubes cadre à section carrée sans nécessité de soudure
E Tubofix bisagra para montantes con sección cuadrada sin necesidad de soldar
RUS «Турбофикс» Петля квадратная для штанги бес сварки



Articolo - Article		D	F	F1	G min/max	I	S	A	Q		
Riferimento - Reference		Ø	UNI		mm					N°	
CR 30Q	CT 00 30 QR	28	M18	M8	63 - 85	33	4	15	30	10	6,8
CR 35Q	CT 00 35 QR	28	M20	M8	67 - 91	36,5	4	15	35	4	3,3
CR 40Q	CT 00 40 QR	34	M24	M10	77 - 105	43,5	5	17	40	4	5,3
CR 50Q	CT 00 50 QR	34	M24	M12	82 - 111	48,5	6	17	50	4	7,0

I TUBOFIX cardine con piastra per montanti a sezione quadra senza necessità di saldatura

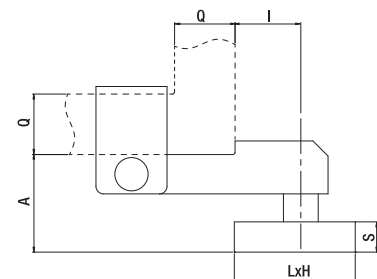
- UK Tubofix hinge with plate for square section pillars with no need of welding
D Tubofix Torband mit Platte für Pfosten mit quadratischem Querschnitt. Kein Anschweißen nötig
F Tubofix gond avec plaque pour tubes cadre à section carrée sans nécessité de soudure
E Tubofix bisagra con placa para montantes con sección cuadrada sin necesidad de soldar
RUS «Турбофикс» Петля квадратная с пластиной для штанги бес сварки



Articolo - Article		d1	F	F1	G min/max	I	S	A	Q	INT.	L		
Riferimento - Reference		Ø	UNI		mm							N°	
CR 30QP	CT 00 30 QP	9	M18	M8	67 - 90	33	4	14	30	40x70	60x90	10	8,0
CR 35QP	CT 00 35 QP	11	M20	M8	77 - 97	36,5	4	20	35	70	100	4	4,9
CR 40QP	CT 00 40 QP	11	M24	M10	86 - 113	43,5	5	20	40	90	120	4	8,0
CR 50QP	CT 00 50 QP	11	M24	M12	91 - 118	48,5	6	20	50	90	120	4	9,6

I Piastra e perno inferiore per tubo quadro

- UK Rotating plate for square section tubes with no need of welding
D Untere Drehplatte für Vierkantröhr. Kein Anschweißen nötig.
F Plaque tournante pour tubes à section carrée sans nécessité de soudure
E Punto de giro con placa para tubos con sección cuadrada sin necesidad de soldar
RUS Петля и ось для квадратной трубки

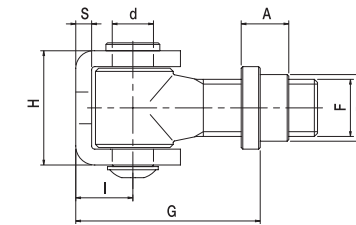


NEW

Articolo - Article		LxHxS	Q	I	A	Abbinabile Combining		
Riferimento - Reference		mm					N°	
P 40Q	CT0040QI	80x70x20	40	43,5	64,5	CR40Q/CR40QP	4	10,7
P 50Q	CT0050QI	80x70x20	50	48,5	69,5	CR50Q/CR50QP	4	15

I Cardine a saldare

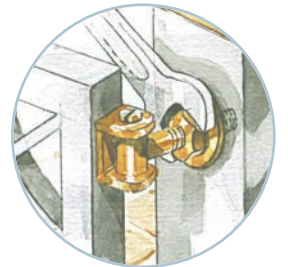
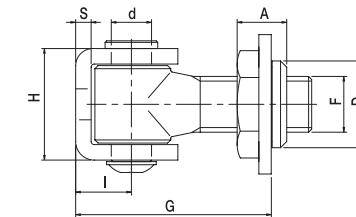
- UK Hinge to be welded
D Anschweißband
F Gond à souder
E Pernio para soldar
RUS Петля под сварку



Articolo - Article		D	d	F	G min/max	I	H	S	A		
Riferimento - Reference		Ø	UNI		mm					N°	
C 18	CT 00 18 S0	25	14	M 18	47 - 70	18	36	5	20	20	6,5
C 20	CT 00 20 S0	25	14	M 20	51 - 70	21	39	6	20,5	20	7,9
C 24	CT 00 24 S0	29	17	M 24	57 - 76	26	47	6	26,5	10	6,9

I Cardine a saldare registrabile

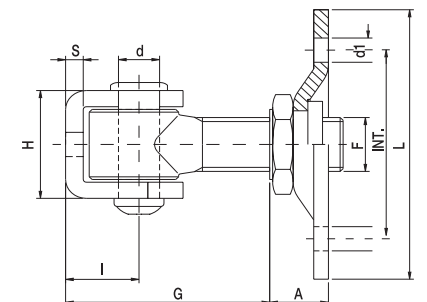
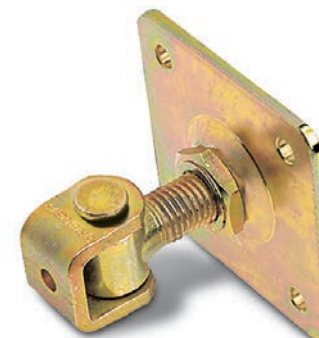
- UK Adjustable weld-on hinge
D Einstellbares Anschweißband
F Gond réglable à souder
E Pernio para soldar regulable
RUS Петля регулируемая под сварку



Articolo - Article		D	d	F	G min/max	I	H	S	A		
Riferimento - Reference		Ø	UNI		mm					N°	
CR 18	CT 00 18 R0	28	14	M 18	50 - 70	18	36	5	15	20	7,1
CR 20	CT 00 20 R0	28	14	M 20	57 - 80	21	39	6	15	20	8,5
CR 24	CT 00 24 R0	34	17	M 24	65 - 90	26	47	6	17	10	7,2

I Cardine registrabile con piastra

- UK Adjustable hinge with plate
D Einstellbares Torband mit Platte
F Gond réglable avec plaque
E Pernio regulable con placa
RUS Петля регулируемая с пластиной

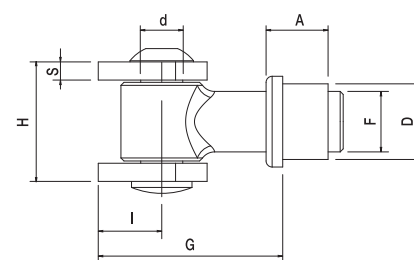


Articolo - Article		d	F	G min/max	I	H	S	A	L	d1	INT.		
Riferimento - Reference		Ø	UNI	mm						□	Ø	mm	N°
CR 18P	CT 00 18 RP	14	M 18	40 - 60	18	36	5	14	60x90	9	40x70	10	6,5
CR 20P	CT 00 20 RP	14	M 20	46 - 74	21	39	6	20	100	11	70	10	7,8
CR 24P	CT 00 24 RP	17	M 24	52 - 76	26	47	6	20	120	11	90	10	13,5



I Cardine a saldare con ali

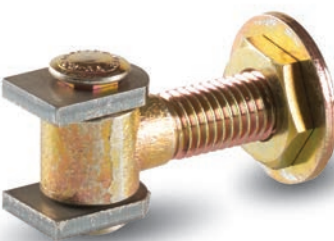
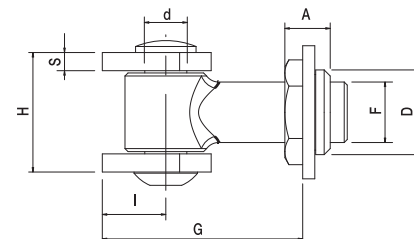
- UK Hinge with wings to be welded
D Flügelscharnier zum Anschweißen
F Gong à souder avec ailes
E Pernio para soldar con alas
RUS Петля для сварки с крыльшками



Articolo - Article		D	d	F	G min/max	I	H	S	A		
Riferimento - Reference				UNI		mm				N°	
C 18A	CT A0 18 S0	25	14	M 18	47 - 70	18	36	5	20	20	6,1
C 20A	CT A0 20 S0	25	14	M 20	51 - 70	21	39	6	20,5	20	7
C 24A	CT A0 24 S0	29	17	M 24	57 - 76	26	47	6	26,5	10	6,2

I Cardine a saldare registrabile con ali

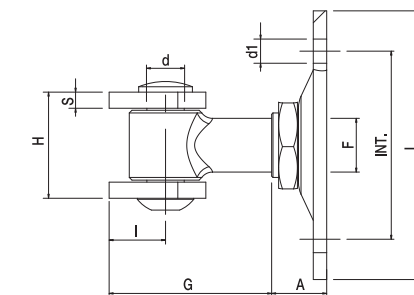
- UK Adjustable hinge with wings
D Einstellbares Flügelscharnier
F Gong à souder à régler avec ailes
E Pernio ajustable con alas para soldar
RUS Петля для сварки регулируемая с крыльшками



Articolo - Article		D	d	F	G min/max	I	H	S	A		
Riferimento - Reference				UNI		mm				N°	
CR 18A	CT A0 18 R0	28	14	M 18	50 - 70	18	36	5	15	20	7
CR 20A	CT A0 20 R0	28	14	M 20	57 - 80	21	39	6	15	20	8
CR 24A	CT A0 24 R0	34	17	M 24	65 - 90	26	47	6	17	10	7

I Cardine registrabile con piastra con ali

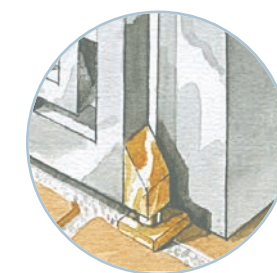
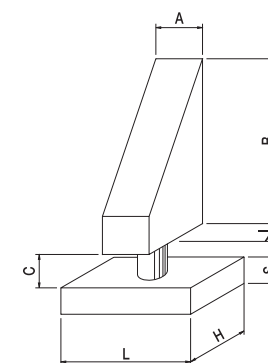
- UK Adjustable hinge with plate and wings
D Einstellbares Flügelscharnier mit Platte
F Gong à régler avec plaque et ailes
E Pernio ajustable con soporte y alas
RUS Петля регулируемая с пластиной с крыльшками



Articolo - Article		d	F	G min/max	I	H	S	A	L	d1	INT.		
Riferimento - Reference			UNI		mm							N°	
CR 18PA	CT A0 18 RP	14	M 18	40 - 60	18	36	5	14	60X90	9	40X70	10	6,5
CR 20PA	CT A0 20 RP	14	M 20	46 - 74	21	39	6	20	100	11	70	10	7,8
CR 24PA	CT A0 24 RP	17	M 24	52 - 76	26	47	6	20	120	11	90	10	13,5

I Piastra e perno per cancelli ad ante

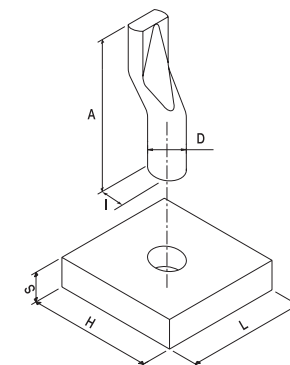
- UK Gate plate and pin
D Bodenplatte mit Zapfen
F Plaque et pivot pour portail à battants
E Placa y gazne para cancelas
RUS Ось поворотная под сварку для петель



Articolo - Article		L x H x S	A	B	C	I		
Riferimento - Reference			mm				N°	
P 20	CT 00 20 P0	70 x 60 x 15	30	80	12	26	20	20,2
P 24	CT 00 24 P0	80 x 70 x 20	35	95	18	29	10	17,1

I Piastra e perno inferiore leggero

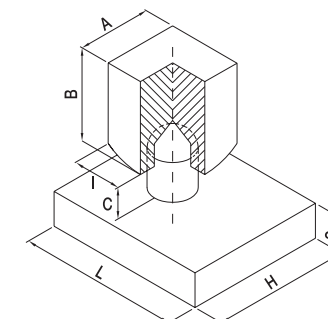
- UK Lower plate and pin
D Platte mit Zapfen
F Plaque et pivot inférieur
E Placa y pernio inferior
RUS Петля нижняя опорная поворотная



Articolo - Article		A	L x H x S	D	I		
Riferimento - Reference			mm			N°	
132 P	CT 63 60 20	89	60 x 70 x 15	20	18	10	6,2
132 G	CT 63 60 24	96	60 x 70 x 20	24	26	10	8,6

I Piastra e perno inferiore pesante

- UK Lower plate and pin
D Platte mit Zapfen
F Plaque et pivot inférieur
E Placa y pernio inferior
RUS Петля нижняя опорная поворотная

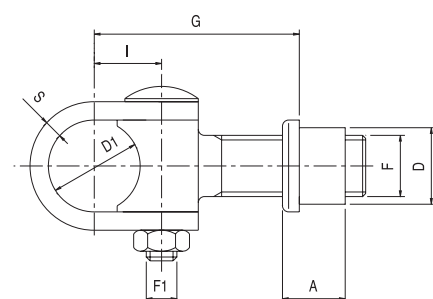


Articolo - Article		L x H x S	A	B	C	I		
Riferimento - Reference			mm				N°	
P 35	CT 70 60 01	70 x 60 x 15	35	40	12	18	20	18,3
P 40	CT 80 70 01	80 x 70 x 20	40	40	17	21	10	14,3



I Cardine a saldare serie ferro battuto

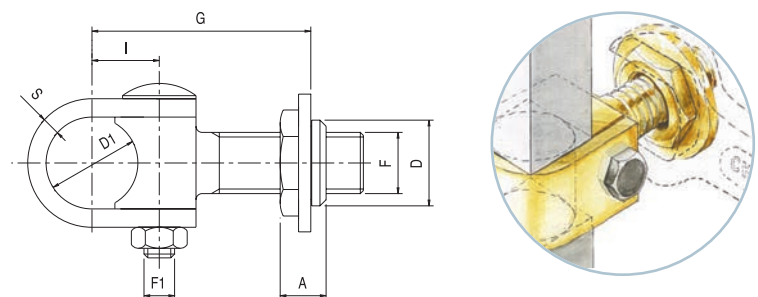
- UK Hinge to be welded wrought iron range
D Anschweißband Schmiedeiserne Tore
F Gond à souder série fer forgé
E Pernio para soldar seire hierro forjado
RUS Петля под сварку



Articolo - Article		D	D1	F	F1	G min/max	I	S	A	
Riferimento - Reference		Ø		UNI			mm			N°
C 30	CT 00 30 CO	25	30	M 20	M 10	44 - 68	22	6	20,5	20
C 35	CT 00 35 CO	29	35	M 24	M 10	50 - 74	26	6	26,5	10
C 40	CT 00 40 CO	36	40	M 30	M12	70 - 110	34	6	24	10

I Cardine a saldare registrabile serie ferro battuto

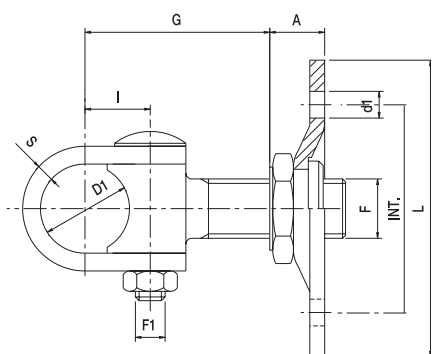
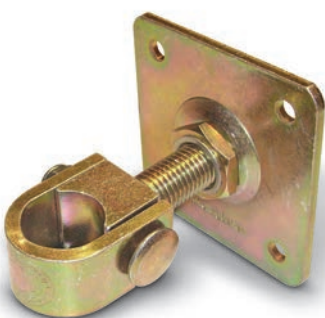
- UK Adjustable hinge to be welded wrought iron range
D Einstellbares Anschweißband Schmiedeiserne Tore
F Gond réglable à souder série fer forgé
E Pernio regulable para soldar seire hierro forjado
RUS Петля регулируемая под сварку



Articolo - Article		D	D1	F	F1	G min/max	I	S	A	
Riferimento - Reference		Ø		UNI			mm			N°
CR 30	CT 00 30 CR	28	30	M 20	M 10	50 - 78	22	6	15	20
CR 35	CT 00 35 CR	34	35	M 24	M 10	57 - 88	26	6	17	10
CR 40	CT 00 40 CR	36	40	M 30	M12	70 - 110	34	6	24	10

I Cardine registrabile con piastra serie ferro battuto

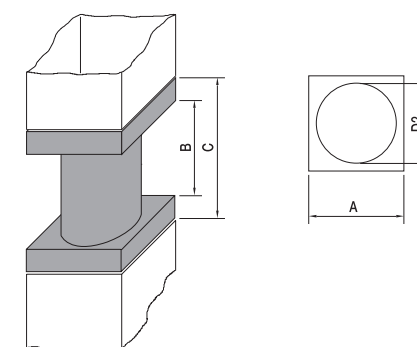
- UK Adjustable hinge with plate wrought iron range
D Einstellbares Torband mit Platte Schmiedeiserne Tore
F Gond réglable avec plaque série fer forgé
E Pernio regulable con placa seire hierro forjado
RUS Петля регулируемая с пластиной



Articolo - Article		L	D1	F	F1	G min/max	I	S	A	d1	INT.	
Riferimento - Reference		□	Ø	UNI			mm			Ø	mm	N°
CR 30P	CT 00 30 CP	100	30	M 20	M 10	39 - 63	22	6	20	11	70	8,9
CR 35P	CT 00 35 CP	120	35	M 24	M 10	45 - 74	26	6	20	11	90	11,1
CR 40P	CT 00 40 CP	120	40	M 30	M 12	70 - 110	34	6	25	11	90	11,1

I Tronchetto di giunzione montante cancello

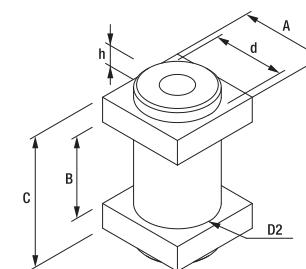
- UK Upright gate joint element
D Verbindungsstück
F Axe bout de jonction pour montant de portail
E Eje de giro del montante de la cancel
RUS Пластина регулируемая для петли фигурная



Articolo - Article		D2	A	B	C	
Riferimento - Reference		Ø	mm		N°	
T 30	CT 00 30 TO	28,5	35	35	55	20
T 35	CT 00 35 TO	33,5	40	40	60	10
T 40	CT 00 40 TO	38,5	50	45	65	10

I Tronchetto di giunzione con foro

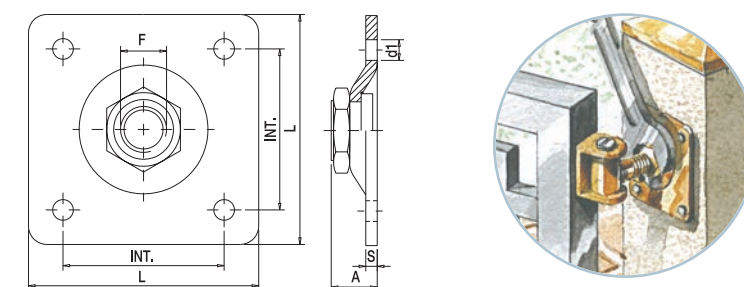
- UK Upright gate joint element with hole
D Verbindungsstück mit Bohrung
F Axe de jonction avec trou
E Soporte guía con agujero
RUS Соединительный патрубок с отверстием



Articolo - Article		d	D2	A	B	C	h	
Riferimento - Reference		Ø		mm			mm	N°
T 30F	CT 00 30 63	29	28,5	35	33	53	5	20
T 35F	CT 00 35 68	34	33,5	40	38	58	5	10

I Piastra registrabile per cardine

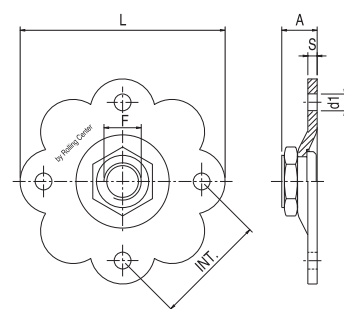
- UK Adjustable hinge plate
D Einstellbare Flanschplatte fuer Anschweißtorband
F Plaque réglable pour gond
E Placa regulable para pernio
RUS Петля нижняя опорная под сварку



Articolo - Article		L	F	S	A	INT.	d1	
Riferimento - Reference		□	UNI		mm		Ø	N°
PR 18	PT 00 18 RO	60x90	M 18	4	14	40x70	9	20
PR 20	PT 00 20 RO	100	M 20	5	19	70	11	20
PR 24	PT 00 24 RO	120	M 24	6	20	90	11	10
PR 30	PT 00 30 RO	120	M 30	6	25	90	11	10

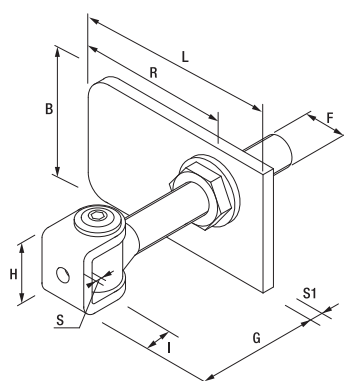


- I** Piastra a fiore registrabile per cardine serie ferro battuto
- UK** Adjustable flower plate for hinge wrought iron range
- D** Regelbar - Blumenplatte Anschweisband Schmiedeiserne Tore
- F** Plaque fleur réglable pour gond série fer forgé
- E** Placa regulable flor para pernio serie hierro forjado
- RUS** Пластина регулируемая для петли



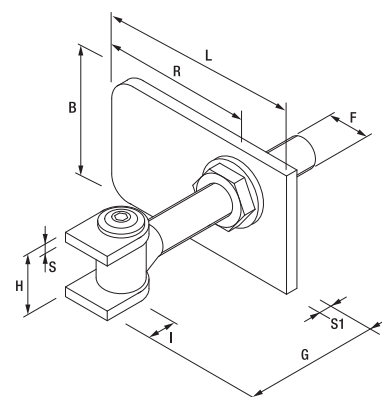
Articolo - Article		L	F	S	A	INT.	d1		
Riferimento - Reference		UNI	mm				Ø	N°	
PR 20F	PT 00 20 R1	M 16	60	19	60	9	20	7,5	
PR 24F	PT 00 24 R1	M 24	65	20	65	11	10	6	

- I** Cardine con cavallotto e piastra doppia regolazione 180°
- UK** Hinge with weldable collar and plate with double regulation 180°
- D** Anschweisband mit Klemme und Platte mit doppelter Einstellung 180°
- F** Gond et plaque à double réglage à 180°
- E** Pernio con abarcón (abrazaderas o tornillos a U) y plancha de doble regulación 180°
- RUS** Петля с зажим и пластина с двойной регулировки



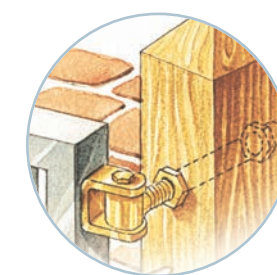
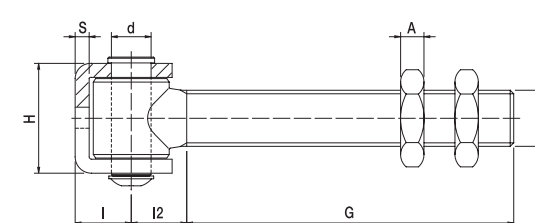
Articolo - Article		F	G min/max	I	H	R min/max	L	B	S	S1		
Riferimento - Reference		UNI	mm								N°	
CL16R	CT 00 16 2R	M 16	60 - 118	26	47	47 - 62	80	50	6	6	10	7
CL20R	CT 00 20 2R	M 20	65 - 165	26	47	60 - 80	80	50	6	8	10	10
CL24R	CT 00 24 2R	M 24	85 - 185	26	47	75 - 95	80	50	6	10	10	18

- I** Cardine con ali e piastra doppia regolazione 180°
- UK** Hinge with wings and plate with double regulation 180°
- D** Anschweisband mit Flügeln und Platte mit doppelter Einstellung 180°
- F** Gond avec des côtés et plaque à double réglage à 180°
- E** Pernio con ala y plancha de doble regulación 180°
- RUS** Петля с крыльями и двойной регулировки



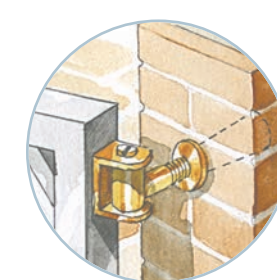
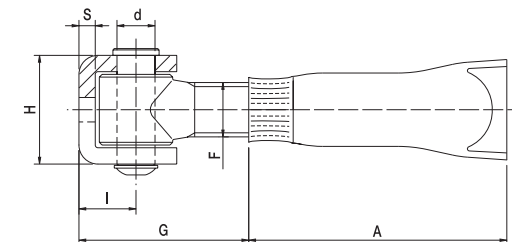
Articolo - Article		F	G min/max	I	H	R min/max	L	B	S	S1		
Riferimento - Reference		UNI	mm								N°	
CL16RA	CT A0 16 2R	M 16	60 - 118	21	40	47 - 62	80	50	5	6	10	7
CL20RA	CT A0 20 2R	M 20	65 - 165	26	47	60 - 80	80	50	6	8	10	10
CL24RA	CT A0 24 2R	M 24	85 - 185	26	47	75 - 95	80	50	6	10	10	18

- I** Cardine con barra lunga
- UK** Hinge with longer bar
- D** Anschweißband mit Gewinde - Bolzen
- F** Gond avec barre plus longue
- E** Pernio con barra larga
- RUS** Петля с длинным винтовым креплением



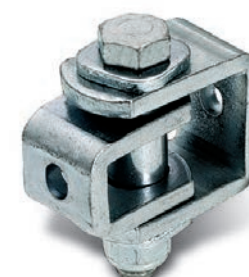
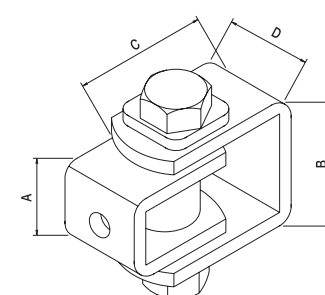
Articolo - Article		d	F	G	I	I2	H	S	A		
Riferimento - Reference		Ø	UNI	mm						N°	
CL 20	CT 00 20 L0	14	M 20	143	21	22	39	6	9	10	6,4
CL 24	CT 00 24 L0	17	M 24	141	26	24	47	6	10	10	9,9

- I** Cardine a muro
- UK** Wall - hinge
- D** Anschweißband mit Mauerhülse
- F** Gond mural
- E** Pernio para empotrar
- RUS** Петля в стену

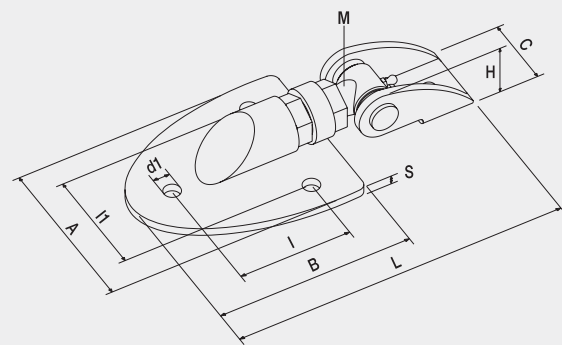
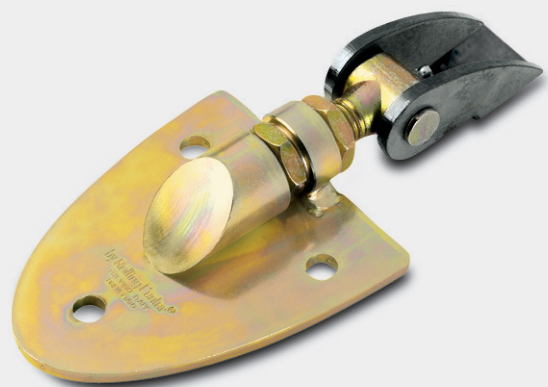


Articolo - Article		D	F	G min/max	I	H	S	A		
Riferimento - Reference		Ø	UNI	mm					N°	
CM 18	CT 00 18 M0	14	M 18	40 - 60	18	36	5	66	20	8,5
CM 20	CT 00 20 M0	14	M 20	46 - 70	21	39	6	95	20	9,5
CM 24	CT 00 24 M0	17	M 24	52 - 76	26	47	6	100	10	8,1

- I** Cardine a cavallotto regolabile
- UK** Adjustable staple hinge
- D** Regelbar. Halter - Anschweisband
- F** Charnière gond réglable avec étrier
- E** Pernio con caballete regulable
- RUS** Петля шарнирная регулируемая со скобой



Articolo - Article		A	B	C	D		
Riferimento - Reference		mm				N°	
131 P	CZ 30 45 P0	30	45	64 - 70	30	10	4,1
131 G	CZ 45 60 G0	45	60	64 - 73	35	10	5,6



PASCAL

by Alberto Pasquale

Cardine di facile installazione e brevettato

I Cardine PASCAL brevettato

Il cardine PASCAL brevettato si propone come un innovativa soluzione per cancelli ad una o due ante o per porte industriali anche di grandi dimensioni, presentando i seguenti vantaggi:

- 1 Velocità di montaggio
- 2 Eliminazione di forature di grande diametro nelle colonne
- 3 Velocità e facilità di regolazioni in opera ed eseguibili da un solo addetto
- 4 Spazi ridotti al minimo tra colonna/muratura con possibilità di sfruttare la luce netta al massimo
- 5 Eliminazione dei giochi grazie al nuovo sistema di regolazione e fissaggio
- 6 Presenza di un ingrassatore per una periodica manutenzione ad evitare eventuali rumorosità

UK Patented PASCAL hinge

The patented PASCAL hinge is an innovative solution for single or 2 wings gates, or even for large industrial doors, with the following advantages:

- 1 Easy installation
- 2 No large drillings in the columns
- 3 Quick and simple on site adjustment, feasible even by one man alone
- 4 Reduced dimensions between column and wall, thus maximizing the light available
- 5 No clearance thanks to the new adjustment and fixing device
- 6 Equipped with a lubricator for periodic maintenance and potential noise prevention

D PASCAL Anschweißband - registriert

Das PASCAL Anschweißband ist eine innovative Lösung für 1 oder 2 Flügel Türe und auch für große Tore, mit folgenden Vorteilen:

- 1 Vereinfachte Installation
- 2 Keine große Bohrungen in den Kolonnen
- 3 Schnelle und einfache Einstellung direkt im Bauanlage, durchführbar auch von einem einzigen Mann.
- 4 Verkleinerte Räume zwischen Kolonne und Wand, mit mehr Licht zu Verfügung
- 5 Keine Spiele dank des neuen Einstellungs- und Befestigungssystems
- 6 Fettpresse Versorgung für eine regelmäßige Instandhaltung.

RUS Запатентованная петля PASCAL

Запатентованная петля PASCAL, представляющая собой новое решение для ворот с одной или двумя створками или даже для промышленных ворот больших размеров, имеет следующие преимущества:

- 1 простота установки
- 2 отсутствие больших отверстий в стойке
- 3 быстрая и простая регулировка по бокам, выполняемая даже одним человеком
- 4 уменьшенное расстояние между стеной и стойкой, с возможностью максимально использовать чистый свет
- 5 отсутствие зазоров благодаря новому устройству для установки и фиксации
- 6 маслораспылитель для периодического технического обслуживания и возможного предотвращения шума

F Gond Pascal breveté

Le gond Pascal breveté se propose comme une solution nouvelle pour grilles à une ou deux portes ou pour les portes des établissements industriels même de grandes dimensions, tout en offrant les avantages suivants:

- 1 Montage rapide
- 2 Effacement des percements de grand diamètre dans les colonnes
- 3 Adaptations rapides et faciles de la part d'un seul préposé
- 4 Réduction des espaces entre la colonne et le mur avec la maxime exploitation de l'éclairage direct
- 5 Elimination des jeux grâce aux nouveaux systèmes de régulation et blocage
- 6 Manutention périodique de la part d'un graisseur pour éviter les moindres bruits

E Pernio Pascal patentado

El pernio Pascal patentado se propone como una solución innovadora para cancelas de una o dos hojas o para puertas industriales de grandes dimensiones, con las siguientes ventajas:

- 1 Velocidad de montaje
- 2 Eliminación de pinchazos de grande diámetro en las columnas;
- 3 Velocidad y facilidad de ajustes en la obra y realizables por un sólo encargado
- 4 Espacios reducidos al mínimo entre columna/pared con posibilidad de aprovechar al máximo la luz neto
- 5 Eliminación de los juegos gracias al nuevo sistema de ajuste y reglaje
- 6 Presencia de un lubricador para una periódica mantención y evitar eventual rumorosidad.

I Esempio di applicazione cardine PASCAL dove è possibile notare l'apertura di 180°, dando così la possibilità di avere una luce netta di passaggio

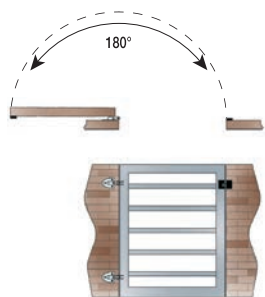
UK Example of application hinge PASCAL where it is possible to notice opening up to 180°, giving therefore the possibility to have one clean light of passage

D Beispiel der Anwendung des Scharniers PASCAL, wo es möglich ist, die Öffnung bis 180° hinaus zu beachten, mit der Möglichkeit, ein sauberes Licht-Durchgang zu haben

F Exemple d'application de charnière PASCAL où il est possible de noter l'ouverture à 180°, donnant donc la possibilité d'avoir un passage net

E Ejemplo del uso de la bisagra PASCAL donde está posible notar la apertura de 180°, dando por lo tanto la posibilidad para tener una luz limpia de paso

RUS Пример использования петли Паскаля с возможностью открытия до 180° и способностью пропускать чистый свет



I Cardine PASCAL 2, brevettato

UK Hinge PASCAL 2, pat pending

D Anschweißband PASCAL 2, registriert

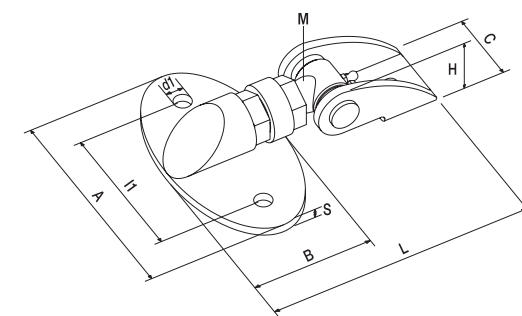
F Gond PASCAL 2, breveté

E Pernio PASCAL 2, registrato

RUS Петля Паскаля 2, запатентовано



by Alberto Pasquale



Articolo - Article		A	B	C	d1	l1	M	H	L	S	Descrizione Description		
Riferimento - Reference		mm										N°	
PASCAL 2	CT PA 20 R2	150	80	46,5	12	100	20	40	178/190	5	Tropicalizzato	6	7,3
PASCAL 2N	CN PA 20 R2	150	80	46,5	12	100	20	40	178/190	5	Verniciato nero	6	7,3

I Piastre girevoli a saldare superiore per cancelli leggeri e pesanti

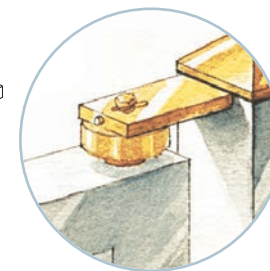
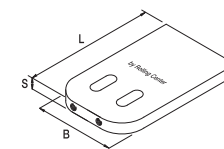
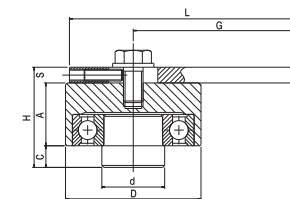
UK Rotating plate for light and heavy gates

D Oberes Drehlager unteres Drucklager

F Plaque tournante pour portail léger et lourd

E Placa giratoria para cancelas livianas y pesadas

RUS Петля поворотная с подшипником верхняя для легких и тяжелых ворот



Articolo - Article		D	d	A	C	H	B	L	S	G min/max	Portata Capacity		
Riferimento - Reference		Ø		mm									
PG 51S	CT 01 50 DS	50	23	25	10	43	50	80	8	48 - 60	450	10	6
PG 71S	CT 01 70 DS	70	32	32	11	51	70	120	8	80 - 95	1000	10	14,8
PG 121S	CT 01 12 DS	120	45	35	10	60	100	250	15	184 - 198	1500	2	17,7

I Piastre girevoli a pavimento inferiore per cancelli leggeri e pesanti

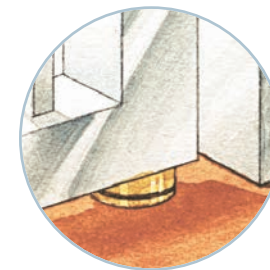
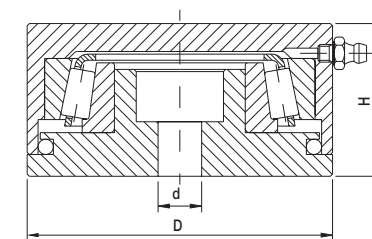
UK Rotating plate for light and heavy gates

D Oberes Drehlager unteres Drucklager

F Plaque tournante pour portail léger et lourd

E Placa giratoria para cancelas livianas y pesadas

RUS Петля поворотная с конусным подшипником нижняя для легких и тяжелых ворот

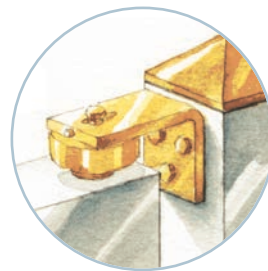
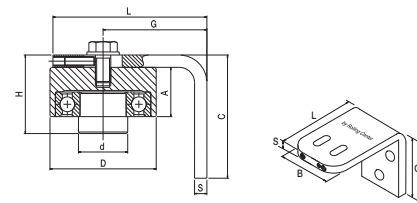


Articolo - Article		D	d	H	Portata Capacity		
Riferimento - Reference		Ø		mm		N°	
PG 50I	CT 00 50 DI	50	8	31	1000	10	4
PG 70I	CT 00 70 DI	70	10	35	2500	10	8,7
PG 120I	CT 00 12 DI	120	20	43	3000	2	8



I Piastra girevole superiore con fori fissaggio ciechi

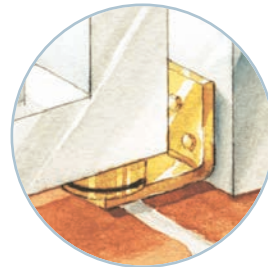
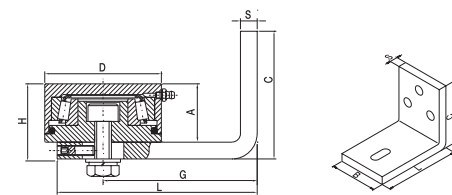
- UK Rotating plate for light and heavy gates with blind fixing threads
- D Oberen Drehplatte mit blinden Befestigungsbohrungen
- F Plaque tournante supérieure avec trous de fixation aveugles
- E Alta placa giratoria con orificios de montaje ciegos
- RUS Верхняя поворотная пластина с слепыми крепежными отверстиями



Articolo - Article		D	d	A	H	B	L	C	S	G min/max	Portata Capacity			
Riferimento - Reference					mm								N°	
PG 51 S2	CT 01 50 LS	50	23	25	43	50	80	70	8	52 - 64	400	10	7,4	
PG 71 S2	CT 01 70 LS	70	32	32	51	70	100	80	8	65 - 80	800	10	16,5	

I Piastre girevoli inferiori con piastra di fissaggio per cancelli leggeri e pesanti

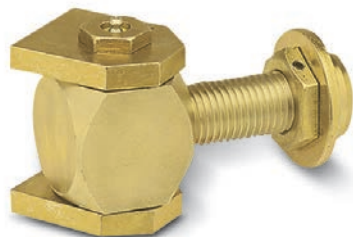
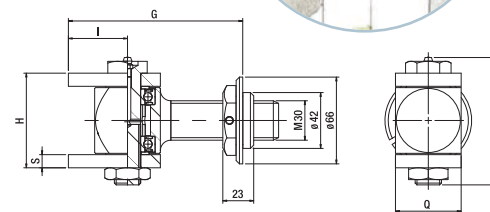
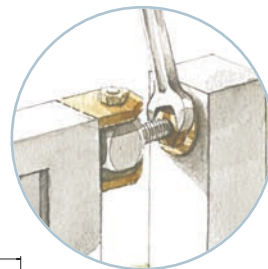
- UK Rotating plate with fixing plate
- D Oberes Drehlager untere Drucklager mit Winkelbefestigung
- F Plaque tournante avec plaque de fixation
- E Placa giratoria con placa de fijación inferior
- RUS Петля поворотная с угловым нижним креплением



Articolo - Article		D	A	H	B	L	C	S	G min/max	Portata Capacity		
Riferimento - Reference			mm								N°	
PG 50 I2	CT 00 50 LI	50	31	39	40	80	70	8	52 - 64	200	10	7,5
PG 70 I2	CT 00 70 LI	70	35	45	60	100	80	10	65 - 80	300	10	16,8

I Cardini per cancelli ad ante pesanti con due cuscinetti e perno ingrassatore

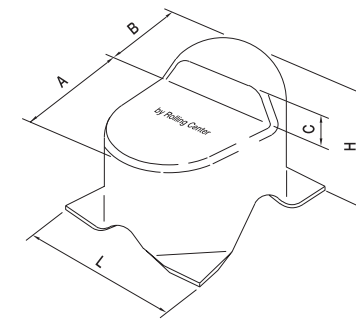
- UK Hinge for heavy gates with two bearings and lubricating pin
- D Scharniere mit 2 Lagern und Stifte
- F Gond pour portail très lourd avec 2 roulements et graisseur
- E Pernio para cancela de hoja pesada con dos cojinetes y ingrassador
- RUS Петля для очень тяжелых ворот с 2 подшипниками и масленкой



Articolo - Article		Q	H	G min/max	I	S	L	Portata Capacity		
Riferimento - Reference		mm								
CR 50	CT 00 50 RO	50	72	95 - 150	45	10	100	500	2	4,2
CR 60	CT 00 60 RO	60	85	100 - 155	50	12	110	680	2	6

I Fermo d'arresto tropicalizzato per cancelli a due ante

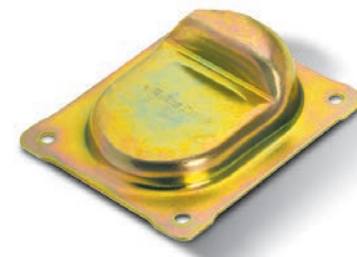
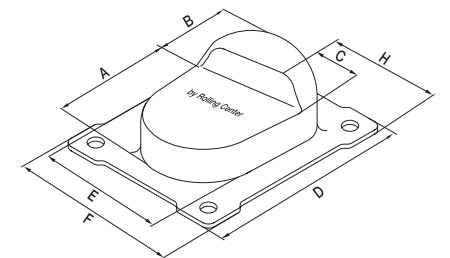
- UK Yellow galvanized gate stop for 2 - leaf - gate
- D End - Sperren fuer 2 - Türlige Tore
- F Butée d'arrêt bichromatée pour portail à battants
- E Tope tropicalizado para cancelas batientes de 2 hojas
- RUS Упор центральный для распашных ворот в бетон



Articolo - Article		L	H	A	B	C		
Riferimento - Reference		mm						N°
F 105	FT 92 77 00	92	77	63	35	20	20	7,3

I Fermo d'arresto con base tropicalizzato per cancelli a due ante

- UK Galvanised gate stop with base for 2 - leaf - gate
- D End - Sperren mit Basis fuer 2 - Türlige Tore
- F Butée d'arrêt avec base bichromatée pour portail à battants à visser
- E Tope tropicalizado para cancelas batientes de 2 hojas para atornillar
- RUS Упор центральный для распашных ворот под винт

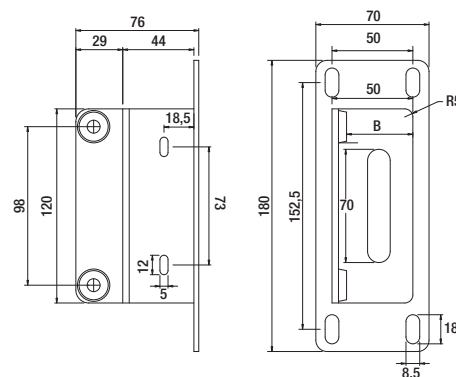


Articolo - Article		A	B	C	D	E	F	H		
Riferimento - Reference		mm								N°
F 105 BP	FT 10 36 00	68	36	18	122	70	100	36	20	6
F 105 BG	FT 13 40 00	88	42	20	157	90	130	40	10	5



I Battente zincato fisso porta incontro per elettro-serratura e serratura manuale

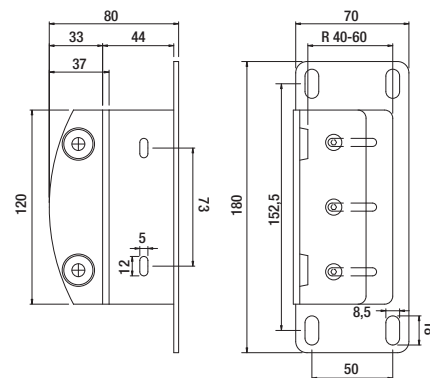
- UK Galvanized fixed keep for electro and manual lock
- D Fester verzinkter Anschlag für Electro- und Manuell-Schloss
- F Battant zingué fixe pour serrure électrique ou serrure manuelle
- E Batiente cincado fijo puerta encuentro para electro-cerradura y cerradura manual
- RUS Фиксатор нерегулируемый для электрозамка и ручной блокировки оцинкованный



Articolo - Article		B		
Riferimento - Reference		mm	N°	
BL 30	FZ 70 18 30	30	4	2,8
BL 35	FZ 70 18 35	35	4	2,8
BL 40	FZ 70 18 40	40	4	2,8
BL 50	FZ 70 18 50	50	4	2,8

I Battente zincato regolabile porta incontro con piastra per elettro-serratura

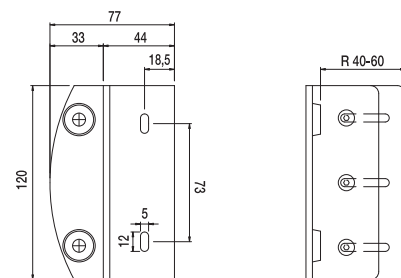
- UK Galvanized adjustable keep for electro with plate for electro-lock
- D Umstellbarer verzinkter Anschlag mit Platte für Electro-Schloss
- F Battant zingué réglable avec plaque pour serrure électrique
- E Batiente cincado ajustable puerta encuentro con palastra para electro-cerradura
- RUS Фиксатор регулируемый для электрозамка с пластиной оцинкованный



Articolo - Article		R		
Riferimento - Reference		mm	N°	
BLRP	FZ 70 18 R0	40+60	4	4

I Battente zincato regolabile porta incontro per elettro-serratura

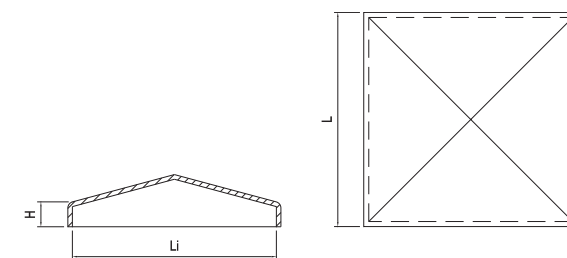
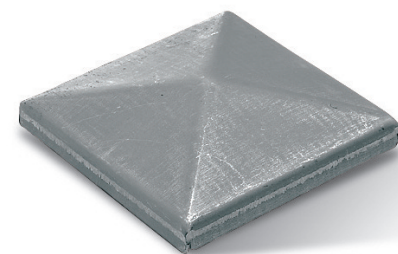
- UK Galvanized adjustable keep for electro-lock
- D Verstellbar.verzinkt.Anschlag fuer Electro-Schloss
- F Gache réglable zinguée pour serrure électrique
- E Protección / embellecedor cincado para cerradura electrica
- RUS Фиксатор регулируемый для электрозамка оцинкованный



Articolo - Article		R		
Riferimento - Reference		mm	N°	
BLR	FZ 40 12 R0	40+60	4	4

I Copricolonna quadro grezzo o zincato con bordo

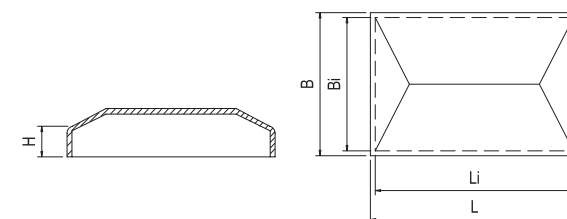
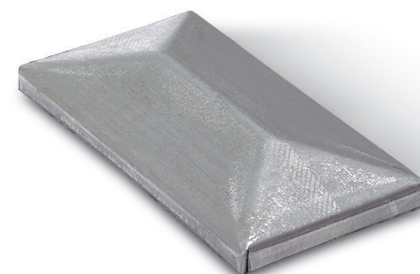
- UK Welding square cap with flanges - black or galvanized
- D Viereckige anschweißbare Abdeckkappe, roh oder verzinkt
- F Colonne de recouvrement carrée et brute ou galvanisée avec moulure
- E Cubrecolumna cuadrada cincada o no cincada
- RUS Крышка черный металл или оцинк под сварку на квадратную трубу



Articolo - Article		L	Li	H		
Riferimento - Reference				mm	N°	
CAP 3G	PG 30 07 QX	35	31	7	100	3,1
CAP 3Z	PZ 30 07 Q0	35	31	7	100	3,1
CAP 4G	PG 40 07 QX	45	41	7	100	4,7
CAP 4Z	PZ 40 07 Q0	45	41	7	100	4,7
CAP 5G	PG 50 08 QX	55	51	7	50	3,3
CAP 5Z	PZ 50 08 Q0	55	51	7	50	3,3
CAP 6G	PG 60 08 QX	65	61	7	50	4,3
CAP 6Z	PZ 60 08 Q0	65	61	7	50	4,3
CAP 8G	PG 80 08 QX	85	81	7	50	7
CAP 8Z	PZ 80 08 Q0	85	81	7	50	7
CAP 10G	PG 10 09 QX	105	101	7	50	10,3
CAP 10Z	PZ 10 09 Q0	105	101	7	50	10,3
CAP 12G	PG 12 11 QX	125	121	8	20	5,5
CAP 12Z	PZ 12 11 Q0	125	121	8	20	5,5
CAP 15G	PG 15 12 QX	155	151	9	10	4,3
CAP 15Z	PZ 15 12 Q0	155	151	9	10	4,3
CAP 20G	PG 20 14 QX	205	201	10	8	7,6
CAP 20Z	PZ 20 14 Q0	205	201	10	8	7,6

I Copricolonna rettangolare grezzo o zincato con bordo

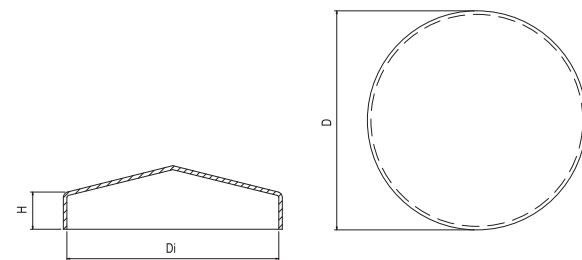
- UK Welding rectangular cap with flange - black or galvanized
- D Anschweißbare Abdeckkappen mit Flansch fuer Rechteckrohre, roh oder verzinkt
- F Colonne de recouvrement rectangulaire brute ou galvanisée avec moulure
- E Cubrecolumna rectangular cincada o no cincada
- RUS Крышка черный металл или оцинк под сварку на прямоугольную трубу



Articolo - Article		L	B	Li	Bi	H		
Riferimento - Reference						mm	N°	
CAP 1RG	PG 20 30 RX	34	24	31	21	7	200	3,8
CAP 1RZ	PZ 20 30 R0	34	24	31	21	7	200	3,8
CAP 2RG	PG 20 40 RX	44	24	41	21	7	200	4,6
CAP 2RZ	PZ 20 40 R0	44	24	41	21	7	200	4,6
CAP 3RG	PG 30 50 RX	54	34	51	31	7	100	3,2
CAP 3RZ	PZ 30 50 R0	54	34	51	31	7	100	3,2
CAP 4RG	PG 30 60 RX	64	34	61	31	7	100	3,7
CAP 4RZ	PZ 30 60 R0	64	34	61	31	7	100	3,7
CAP 5RG	PG 40 60 RX	64	44	61	41	7	100	5,1
CAP 5RZ	PZ 40 60 R0	64	44	61	41	7	100	5,1
CAP 6RG	PG 40 80 RX	84	44	81	41	7	50	3,4
CAP 6RZ	PZ 40 80 R0	84	44	81	41	7	50	3,4
CAP 7RG	PG 50 10 RX	104	54	101	51	7	40	3,5
CAP 7RZ	PZ 50 10 R0	104	54	101	51	7	40	3,5

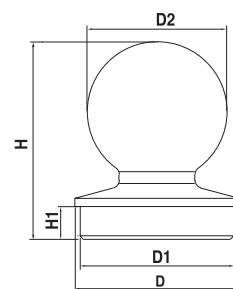


- I** Copricolonna tondo grezzo o zincato con bordo
UK Welding round cap with flange - black or galvanized
D Runde anschweißbare Abdeckkappe, roh oder verzinkt
F Colonne de recouvrement ronde et brute ou galvanisée avec moulure
E Cubrecolumna ronda cincada o non cincada
RUS Крышка черный металл или оцинк под сварку на круглую трубу



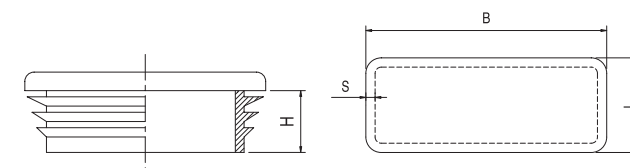
Articolo - Article		D	Di	H		
Riferimento - Reference		Ø		mm	N°	
CAP 1TG	PG 30 11 TX	33	30	10	200	4,6
CAP 1TZ	PZ 30 11 TX	33	30	10	200	4,6
CAP 2TG	PG 33 11 TX	36	33	10	200	4,7
CAP 2TZ	PZ 33 11 TX	36	33	10	200	4,7
CAP 3TG	PG 42 11 TX	45	42	10	100	3,9
CAP 3TZ	PZ 42 11 T0	45	42	10	100	3,9
CAP 4TG	PG 48 13 TX	51	48	10	100	4,8
CAP 4TZ	PZ 48 13 T0	51	48	10	100	4,8
CAP 5TG	PG 60 14 TX	63	60	10	50	3,6
CAP 5TZ	PZ 60 14 T0	63	60	10	50	3,6
CAP 6TG	PG 76 14 TX	79	76	14	30	3,0
CAP 6TZ	PZ 76 14 TX	79	76	14	30	3,0
CAP 7TG	PG 90 14 TX	92	90	14	20	2,6
CAP 7TZ	PZ 90 14 T0	92	90	14	20	2,6
CAP 8TG	PG 11 14 TX	104	101	14	20	3,0
CAP 8TZ	PZ 11 14 T0	104	101	14	20	3,0
CAP 9TG	PG 12 14 TX	117	114	14	20	3,8
CAP 9TZ	PZ 12 14 TX	117	114	14	20	3,8

- I** Copricolonna a sfera in acciaio cromato
UK Spherical cap in chromated steel
D Anschweißbare Abdeckkappe in Kugelform verchromt
F Chapeau à sphère en acier chromé
E Cubrecolumna esférica en acero cromato
RUS Наконечник сферический из хромированной стали



Articolo - Article		D	D1	D2	H	H1		
Riferimento - Reference			Ø		mm		N°	
SF 60	PC 60 85 00	60	56,5	50	85	20	5	5,5
SF 76	PC 76 95 00	76	71	65	95	20	4	8
SF 102	PC 10 12 00	102	97	90	120	20	2	9,5

- I** Copricolonna in polietilene per tubi rettangolari
UK Plastic cap for rectangular pipes
D Plastik Deckel Rechteck
F Couvercle plastique rectangulaire
E Cubrecolumna de plastica
RUS Крышка пластиковая под сварку на прямоугольную трубу

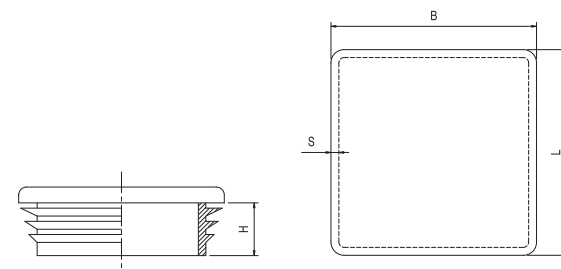


Articolo - Article		H	Per tubi					
Riferimento - Reference		mm	B	L	S	N°		
CAP 1RN	PN 20 10 R0	12	20	10	0,8-2	100	0,150	
CAP 2RN	PN 25 15 R0	12	25	15	1-2,5	100	0,250	
CAP 3RN	PN 30 10 R0	12	30	10	1-2	100	0,250	
CAP 4RN	PN 30 15 R0	12	30	15	1-2,5	100	0,350	
CAP 5RN	PN 30 20 R0	12	30	20	1,5-3	80	0,600	
CAP 7RN	PN 30 25 R0	13	30	25	1,5	50	0,600	
CAP 8RN	PN 40 10 R0	13,5	40	10	1,5	100	0,600	
CAP 9RN	PN 40 15 R0	12	40	15	1-1,5	80	0,500	
CAP 10RN	PN 40 20 R0	14	40	20	1-2,5	50	0,600	
CAP 12RN	PN 40 25 R0	13,5	40	25	1-3	50	0,700	
CAP 13RN	PN 40 30 R0	14	40	30	1-3	100	1,000	
CAP 15RN	PN 50 20 R0	13,5	50	20	1-3	100	0,800	
CAP 16RN	PN 50 25 R0	13,5	50	25	1-3	100	0,800	
CAP 17RN	PN 50 30 R0	14	50	30	1-3	100	0,900	
CAP 18RN	PN 50 30 R1	14	50	30	3-5	100	1,000	
CAP 19RN	PN 50 34 R0	14	50	35	1-3,5	50	1,200	
CAP 20RN	PN 50 40 R0	13	50	40	1,5-2,5	50	0,750	
CAP 21RN	PN 60 20 R0	13,5	60	20	1-3	100	0,900	
CAP 22RN	PN 60 25 R0	15	60	25	1-2,5	50	0,600	
CAP 23RN	PN 60 30 R0	14,2	60	30	1-2,5	50	0,700	
CAP 24RN	PN 60 40 R0	14,2	60	40	1-3	50	0,750	
CAP 25RN	PN 60 40 R1	18	60	40	4-5	50	0,950	
CAP 26RN	PN 70 25 R0	18	70	25	1,5-2,5	50	0,800	
CAP 27RN	PN 70 30 R0	18	70	30	1-2	50	0,900	
CAP 28RN	PN 70 40 R0	18	70	40	1,5-2,5	50	1,000	
CAP 29RN	PN 70 40 R1	18	70	40	2,5-4	50	1,050	
CAP 30RN	PN 80 20 R0	18	80	20	1,5-2	50	0,850	
CAP 31RN	PN 80 30 R0	15	80	30	1-2,5	50	0,800	
CAP 32RN	PN 80 40 R0	15	80	40	1-3	50	0,840	
CAP 33RN	PN 80 40 R1	18	80	40	3,2-4	40	1,230	
CAP 34RN	PN 80 50 R0	18	80	50	2-4	30	0,630	
CAP 35RN	PN 80 60 R0	25	80	60	1,5-3,5	20	0,750	
CAP 36RN	PN 80 60 R1	15	80	60	5	20	0,700	
CAP 37RN	PN 10 40 R0	13	100	40	1,5-4	20	0,620	
CAP 39RN	PN 10 50 R0	24	100	50	2-4,5	20	0,950	
CAP 40RN	PN 12 30 R0	16	120	30	1,5-2	50	0,750	
CAP 41RN	PN 12 40 R0	11,5	120	40	3-5	20	0,830	
CAP 42RN	PN 12 60 R0	20	120	60	2-4	20	0,590	
CAP 44RN	PN 12 80 R0	25	120	80	2-3	10	0,830	
CAP 45RN	PN 14 80 R0	14	140	80	2-4,5	10	0,700	
CAP 45/1RN	PN 15 50 R0	28	150	50	2-4	10	0,700	
CAP 46RN	PN 15 10 R0	27	150	100	3-8	10	0,910	



I Copricolonna in polietilene per tubi quadrati

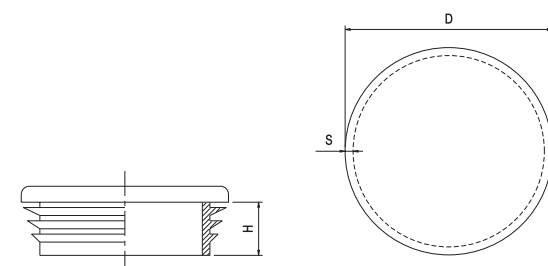
- UK Plastic cap for square pipes
- D Plastik Deckel Quadrat
- F Couvercle plastique carré
- E Cubrecolumna de plastica
- RUS Крышка пластиковая квадратная



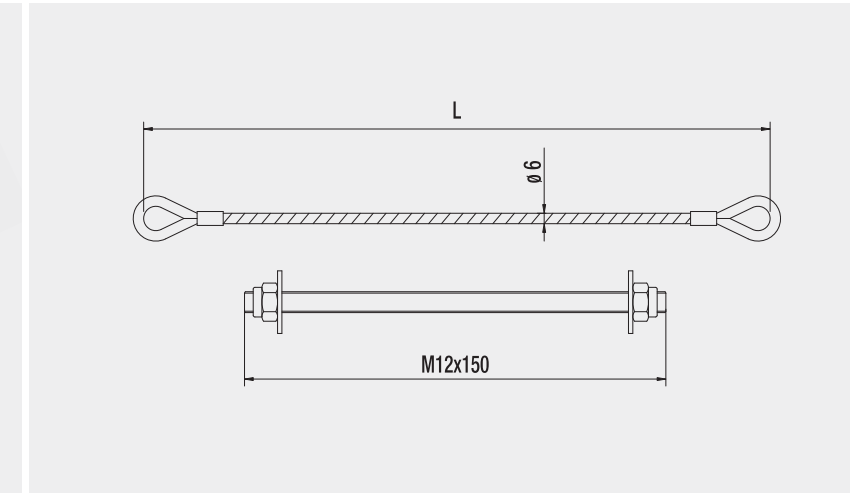
Articolo - Article		H	Per tubi				
Riferimento - Reference		mm	B	L	S	N°	kg
CAP 15TQ	PN 15 11 Q0	11	15	15	1-2	100	0,150
CAP 20TQ	PN 20 12 Q0	12	20	20	1-3	100	0,250
CAP 25TQ	PN 25 12 Q0	12	25	25	1-3	100	0,600
CAP 30TQ	PN 30 12 Q0	12	30	30	2,5-5	100	0,600
CAP 31TQ	PN 30 11 Q0	11	30	30	1-2,5	100	0,600
CAP 35TQ	PN 35 14 Q0	14	35	35	1-3	100	0,600
CAP 40TQ	PN 40 14 Q0	14	40	40	1-3	100	0,900
CAP 45TQ	PN 45 14 Q0	14	45	45	1-3	100	1,000
CAP 50TQ	PN 50 15 Q0	15	50	50	2,6-4	50	1,200
CAP 60TQ	PN 60 15 Q0	15	60	60	1,5-3,5	30	0,620
CAP 70TQ	PN 70 18 Q0	18	70	70	2-5	30	0,700
CAP 80TQ	PN 80 16 Q0	16	80	80	2-4	20	0,550
CAP 90TQ	PN 90 25 Q0	25	90	90	3-5	10	0,670
CAP 11TQ	PN 10 28 Q0	28	100	100	1-4	10	1,000
CAP 12TQ	PN 12 26 Q0	26	120	120	2,5-5	10	0,900
CAP 150TQ	PN 15 27 Q0	27	150	150	5-8	10	1,000

I Copricolonna in polietilene per tubi rotondi

- UK Plastic cap for round pipes
- D Plastik Deckel Rund
- F Couvercle plastique rond
- E Cubrecolumna de plastica para tubos redondas
- RUS Крышка пластиковая круглая



Articolo - Article		H	Per tubi			
Riferimento - Reference		mm	D	S	N°	
CAP 1TN	PN 10 10 TO	10,8	10	1-2	50	0,080
CAP 2TN	PN 15 09 TO	9,2	15	1-2	50	0,240
CAP 3TN	PN 20 11 TO	11,4	20	0,8-2	50	0,300
CAP 4TN	PN 25 11 TO	11,3	25	1-3	100	0,500
CAP 5TN	PN 30 11 TO	11,6	30	1-2,5	100	0,500
CAP 5/1TN	PN 32 11 TO	12	32	1-2,5	50	0,530
CAP 6TN	PN 40 11 TO	11,3	40	1-3	100	0,693
CAP 6/1TN	PN 42 11 TO	11,5	42	1-2,5	100	0,710
CAP 6/2TN	PN 48 11 TO	11,5	48	1,2-3,6	100	0,728
CAP 7TN	PN 50 11 TO	11,2	50	1-2,5	100	0,900
CAP 7/1TN	PN 55 11 TO	11,2	55	1-3	50	0,900
CAP 8TN	PN 60 11 TO	17,8	60	1-3	50	0,993
CAP 9TN	PN 70 21 TO	21,2	70	1,5-4,5	30	0,435
CAP 10TN	PN 75 22 TO	22,2	75	2-4	20	0,500
CAP 11TN	PN 90 19 TO	19,9	90	2,5-5	20	0,500
CAP 12TN	PN 10 20 TO	20,2	102	2-4	10	0,634
CAP 12/1TN	PN 10 00 TO	28,5	100	2-4,5	10	0,600
CAP 13TN	PN 11 00 TO	28,5	110	2-4,5	10	0,650



CAVOANTICADUTA

I Cavo anticaduta in acciaio zincato
Ø 6x133 fili e protezione con guaina in
PVC (retrattile), necessario per la
marcatatura CE dei cancelli a battente
(UNI EN 12604:2002) peso massimo
soportabile di 1800 kg.

UK Fall protection galvanized steel cable Ø
6x133 wires and (retractile) PVC
sheathing, needed for CE certification
of wing gates (UNI EN 12604:2002).
Maximum load 1800kg.

D Fall-Schutz verzinkter stahl Kable Ø
6x133 Schnüre und (einziehbar) PVC
Ummantelung, für CE Zertifizierung
von Flügeltüre (UNI EN 12604:2002)
maximale Tragkraft 1800 kg.

F Cable anti-chute en acier zigué,
Ø 6x133, fils et protection avec gaine
PVC (rétractile), nécessaire pour le
marquage CE des grilles à battant
(UNI EN 12604:2002) 1800kg au
maximum.

E Cable anticaída en acero cincado
Ø 6x133 hilos y protección con vaina
en PVC (retráctil), necesario para la
marca CE de las cancelas de batiente
(UNI EN 12604:2002) peso máximo
soportable 1800 kg.

RUS Кабель антиуклонный из оцинкованной
стали Ø 6x133, провод защищен
поливинилхлоридом, необходимым при
маркировки CE створчатых ворот
(UNI EN 12604:2002), максимально
переносимый вес 1800 кг.

