



GALLI ERIO SRL

THE REEL FACTORY

 **Hose reel**

hydraulic and electro-hydraulic

 **Enrouleurs**

hydrauliques et électro-hydrauliques

 **Avvolgitubi**

idraulici ed elettroidraulici

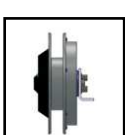
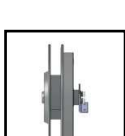
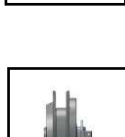
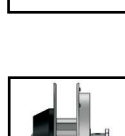
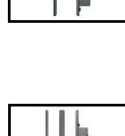
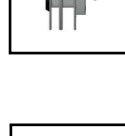
 **Schlauchaufroller**

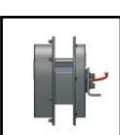
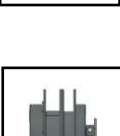
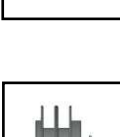
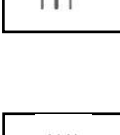
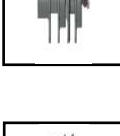
Hydraulische und Elektrohydraulische

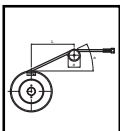
 **Enrolladores de tubos**

hidráulicos y electrohidráulicos

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NOTE - N.B. - NOTES - ANMERKUNG - NOTA

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GIUNTO GIREVOLE

Rotating joint
Joint rotatif
Drehkupplung
Juntadora giratoria

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TUBO IDRAULICO

Hydraulic hose
Tuyau hydraulique
Hydraulik Schlauch
Manguera hidraulica

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RACCORDI IDRAULICI A PRESSARE

Hydraulic press fittings
Raccords presse hydraulique
Hydraulische Anschlüsse
Accesorios hidraulicos prensa

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BOCCOLE IDRAULICHE A PRESSARE

Hydraulic bushes to press
Presse hydraulique
Hydraulische Büchse
Bujes para apretar

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AVVOLGITUBI ELETTROIDRAULICI

Electro-hydraulic hose reels
Enrouleurs électro-hydrauliques
Elektrohydraulische Schlauchaufroller
Enrolladores de tubos electrohidráulicos

 Gli avvolgitubi elettroidraulici hanno le stesse caratteristiche di quelli idraulici. Dette caratteristiche vengono elencate nelle pagine precedenti. Per quanto riguarda, invece, le caratteristiche elettriche, gli avvolgitubi elettroidraulici hanno i contatti elettrici striscianti per comandi a 12 - 24 V. Per questi avvolgitubi il peso viene considerato comprensivo di tubo idraulico e cavo elettrico.

 The electro-hydraulic hose reels have the same characteristics as those of the hydraulic hose reels. These characteristics are listed in the preceding. Instead, as far as the electrical characteristics of the electro-hydraulic hose reels are concerned, these are sliding electrical contacts for 12 - 24 V controls. For these hose reels, the weight includes the hydraulic hose and electric cable.

 Les enrouleurs électro-hydrauliques ont les mêmes caractéristiques que les enrouleurs hydrauliques. Ces caractéristiques sont énumérées dans les pages précédentes. En ce qui concerne les caractéristiques électriques, au contraire, les enrouleurs électro-hydrauliques ont les contacts électriques glissants pour commandes à 12 - 24 V. Pour ces enrouleurs, le poids comprend le tuyau hydraulique et le câble électrique.

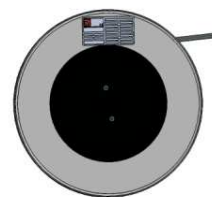
 Die elektrohydraulischen Schlauchaufroller haben die gleichen Eigenschaften wie die hydraulischen. Diese Eigenschaften werden in den vorausgehenden Seiten aufgeführt. Hinsichtlich der elektrischen Eigenschaften der elektrohydraulischen Schlauchaufroller weisen sie Schleifkontakte für eine Spannung von 12 - 24 V auf. Bei diesen Schlauchaufrollern versteht sich das Gewicht einschließlich Hydraulikschlauch und Stromversorgungskabel.

 Los enrolladores de tubos electrohidráulicos tienen las mismas características que los hidráulicos. Dichas características se detallan en las páginas anteriores. En cambio, por lo que se refiere a las características eléctricas, los enrolladores de tubos electrohidráulicos tienen contactos eléctricos corredizos para mandos de 12 - 24 V. Para estos enrolladores de tubos el peso es considerado con el tubo hidráulico y el cable eléctrico incluidos.



1 way electro-hydraulic hose reels with frontal attachment

Enrouleurs de tuyaux électro-hydrauliques à 1 voie avec attache avant des tuyaux
 1 Weg elektrohydraulische Schlauchaufroller mit Frontanschluss der Schläuche
 Enrolladores de tubos electrohidráulicos de 1 carril con enganche frontal de los tubos

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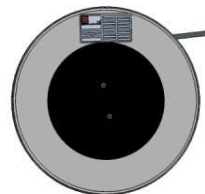
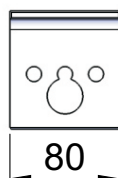
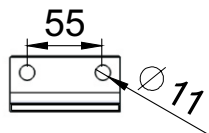
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1 way electro-hydraulic hose reels with frontal attachment

1 Weg elektrohydraulische Schlauchaufroller mit Frontanschluss der Schläuche

Enrolladores de tubos electrohidráulicos de 1 carril con enganche frontal de los tubos



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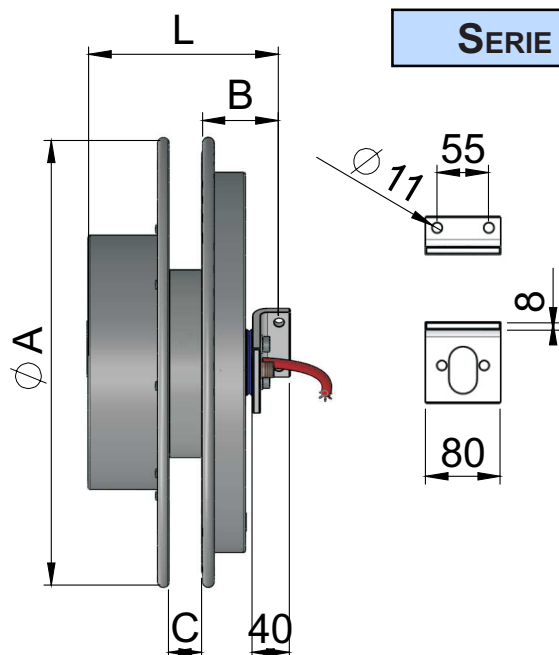


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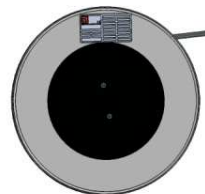
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1 way electro-hydraulic hose reels with frontal attachment

Enrouleurs de tuyaux électro-hydrauliques à 1 voie avec attache avant des tuyaux
1 Weg elektrohydraulische Schlauchaufroller mit Frontanschluss der Schläuche
 Enrolladores de tubos electrohidráulicos de 1 carril con enganche frontal de los tubos



SERIE F.L EI 1V



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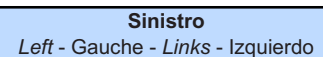


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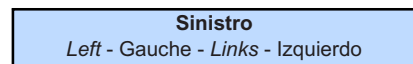
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1 way electro-hydraulic hose reels with radial attachment
Enrouleurs de tuyaux électro-hydrauliques à 1 voie avec attache radiale des tuyaux
1 Weg elektrohydraulische Schlauchaufroller mit Radialanschluss der Schläuche
Enrolladores de tubos electrohidráulicos de 1 carril con enganche radial de los tubos

Enrolladores de tubos electrohidráulicos de 1 carril con enganche radial de los tubos

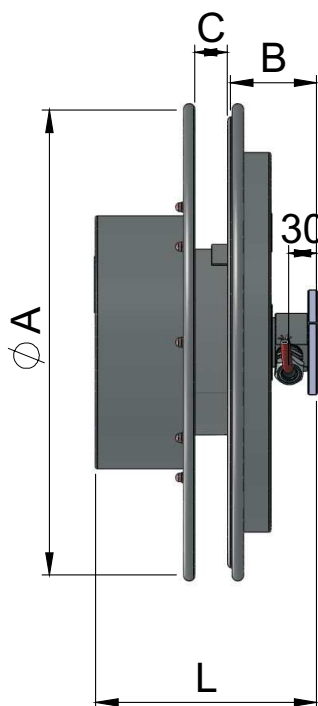
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Enrolladores de tubos electrohidráulicos de 1 carril con enganche radial de los tubos

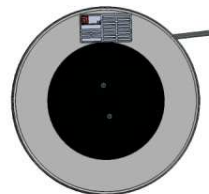
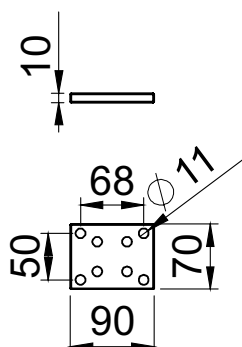
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1 way electro-hydraulic hose reels with radial attachment

Enrouleurs de tuyaux électro-hydrauliques à 1 voie avec attache radiale des tuyaux
1 Weg elektrohydraulische Schlauchrollen mit Radialanschluss der Schläuche
 Enrolladores de tubos electrohidráulicos de 1 carril con enganche radial de los tubos



SERIE R.L EI 1V



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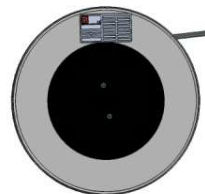
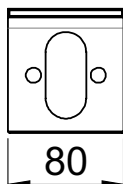
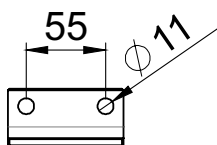
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2 way electro-hydraulic hose reels with frontal attachment

2 Weg elektrohydraulische Schlauchaufroller mit Frontalanschluss der Schläuche

Enrolladores de tubos electrohidráulicos de 2 carril con enganche frontal de los tubos

Technical drawing of the mechanical part showing dimensions A, B, C, L, and a 40mm dimension. The drawing includes a side view and a top view. The side view shows a cylindrical body with a central shaft and a flange. The top view shows a circular cross-section with a central hole and a flange. The dimensions are labeled as follows: A is the total height, B is the flange thickness, C is the central shaft diameter, L is the total length, and 40 is the flange diameter.



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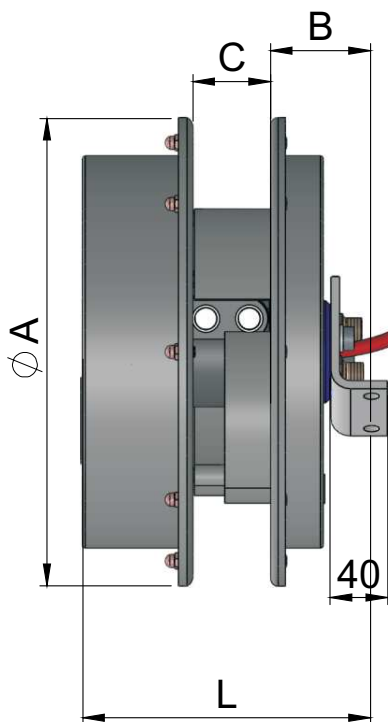
AVVOLGITUBI ELETTROIDRAULICI A 2VIE CON ATTACCO FRONTALE DEI TUBI

2 way electro-hydraulic hose reels with frontal attachment

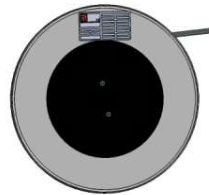
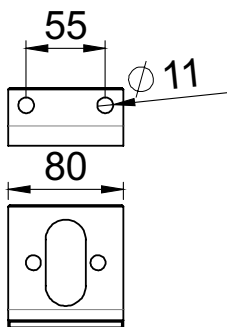
Enrouleurs de tuyaux électro-hydrauliques à 2 voie avec attache avant des tuyaux

2 Weg elektrohydraulische Schlauchaufroller mit Frontalanschluss der Schläuche

Enrolladores de tubos electrohidráulicos de 2 carril con enganche frontal de los tubos



SERIE F.M EI 2V



Destro

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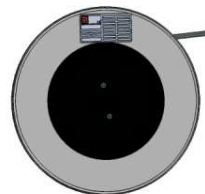
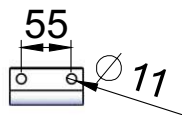
Sinistro

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2 way electro-hydraulic hose reels with frontal attachment

Enrolladores de tubos electrohidráulicos de 2 carril con enganche frontal de los tubos



Right - Droit - *Rechts* - Derecho



Left - *Gauche* - *Links* - *Izquierdo*

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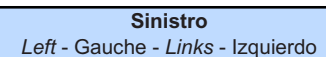
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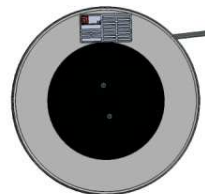
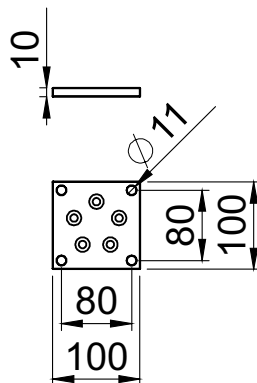
Enrouleurs de tuyaux électro-hydrauliques à 2 voie avec attache radiale des tuyaux
2 Weg elektrohydraulische Schlauchaufroller mit Radialanschluss der Schläuche
 Enrolladores de tubos electrohidráulicos de 2 carril con enganche radial de los tubos

66

4 way electro-hydraulic hose reels with radial attachment

4 Weg elektrohydraulische Schlauchaufroller mit Radialanschluss der Schläuche

Enrollador de tubos electrohidráulico de 4 carriles con enganche radial de los tubos



Right - Droit - *Rechts* - Derecho

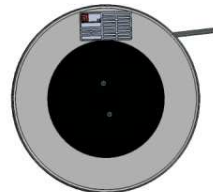
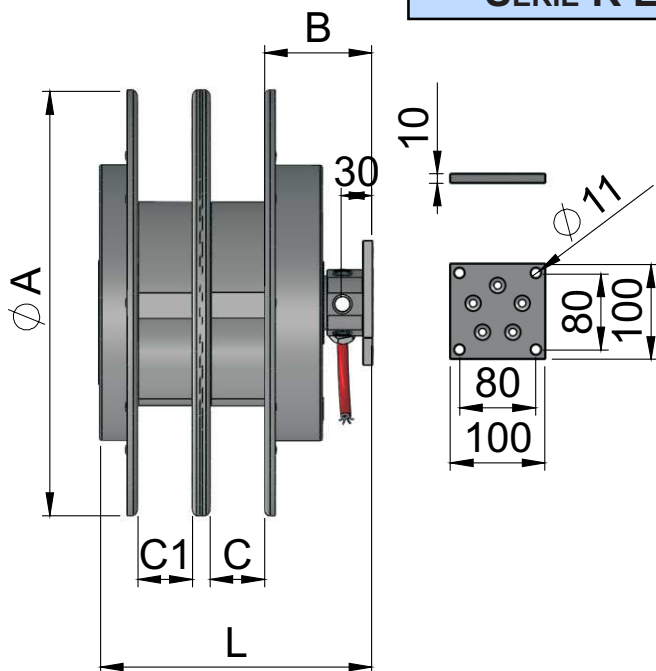


Left - Gauche - Links - Izquierdo

67

5 way Electro-hydraulic hose reels with radial attachment

Enrouleur de tuyaux électro-hydraulique à 5 voies avec attache radiale des tuyaux
5 Weg elektrohydraulische Schlauchaufroller mit Radialanschluss der Schläuche
 Enrollador de tubos electrohidráulico de 5 carriles con enganche radial de los tubos



Right - Droit - *Rechts* - Derecho

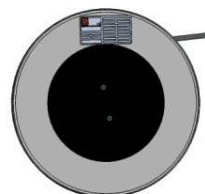
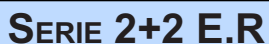


Left - Gauche - Links - Izquierdo

[illegible]

4 way electro-hydraulic hose reels with radial attachment (independent casing)
 Enrouleurs de tuyaux électro-hydrauliques à 4 voies avec attache radiale des tuyaux (corps indépendants)
 4 Weg elektrohydraulische Schlauchaufroller mit Radialanschluss der Schläuche (unabhängigen Körpern)
 Enrolladores de tubos electrohidráulicos de 4 carriles con enganche radial de los tubos (cuerpos independientes)

Enrolladores de tubos electrohidráulicos de 4 carriles con enganche radial de los tubos (cuerpos independientes)



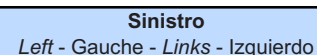
Right - Droit - *Rechts* - Derecho



Left - *Gauche* - *Links* - *Izquierdo*

69

3 way electro-hydraulic hose reels with radial attachment (independent casing)
Enrouleurs de tuyaux électro-hydrauliques à 3 voies avec attache radiale des tuyaux (corps indépendants)
3 Weg elektrohydraulische Schlauchaufroller mit Radialanschluss der Schläuche (unabhängigen Körpern)
Enrolladores de tubos electrohidráulicos de 3 carriles con enganche radial de los tubos (cuerpos independientes)

70



- Nella versione manuale, gli avvolgitubi si possono realizzare nei diametri e nelle versioni esistenti. Per versioni personalizzate contattare l'ufficio tecnico del Costruttore.
- A richiesta è possibile eseguire flange e staffe per applicazioni non contemplate nel catalogo e dispositivi di arresto.
- Per l'utilizzo degli avvolgitubi montati in posizione verticale chiedere al Costruttore le specifiche tecniche.
- Le quote "C" e "D" sono riferite ai diametri dei tubi termoplastici; sono possibili esecuzioni con misure diverse.



- *In the manual version, the winding machine can be built with the same diameters and in the same version as those already available. For customised versions, please contact the manufacturer's technical department.*
- *On request, it is possible to realize flanges and brackets for uses not foreseen in the catalogue and stop devices.*
- *Please refer to the Manufacturer for technical specifications concerning the use of vertically mounted hose reels.*
- *The heights of pipes "C" and "D" are referred to the diameters of thermoplastic pipes. Solutions with different sizes are available upon request.*



- Dans la version manuelle, les enrouleurs de tuyaux peuvent être réalisés dans les versions et avec les diamètres déjà existants. Pour les versions particulières, contactez le département technique du constructeur.
- Sur demande, nous pouvons réaliser des brides et des étriers pour applications pas prévues dans le catalogue et dispositifs d'arrêt.
- Demandez les spécifications techniques au Constructeur pour l'utilisation des enrouleurs de tuyaux montés en position verticale.
- Les hauteurs "C" et "D" sont référées aux diamètres des tubes thermoplastiques. Solutions avec mesures différentes sont également possibles.



- *In der manuellen Ausführung können die Schlauchtrommeln mit den vorhandenen Durchmessern und Versionen ausgeführt werden. Kontaktieren Sie für Spezialanfertigungen die technische Abteilung des Herstellers.*
- *Auf Anfrage ist es möglich, Flansche und Bügel für nicht im Katalog enthaltene Anwendungen und Haltevorrichtungen auszuführen.*
- *Für die Verwendung der in vertikaler Position montierten Schlauchtrommeln die technischen Spezifikationen beim Hersteller erfragen.*
- *Die Höhen "C" und "D" beziehen sich auf die Durchmesser der thermoplastischen Röhre. Auf Anfrage stehen Lösungen mit verschiedenen Abmessungen zur Verfügung.*



- En la versión manual, los enrolladores de tubos se pueden realizar en los diámetros y en las versiones existentes. Para versiones personalizadas pónganse en contacto con la Oficina Técnica del Constructor.
- Bajo pedido, es posible realizar bridas y mordazas para aplicaciones no consideradas en el catálogo y dispositivos de arranque.
- Pedir las especificaciones técnicas al Constructor para utilizar los enrolladores de tubos montados en posición vertical.
- Las alturas „C“ y „D“ se refieren a los diámetros de los tubos termoplasticos. Soluciones con diferentes medidas son tambien posibles.

CARATTERISTICHE GENERALI

General characteristics
Caractéristiques générales
Allgemeine Eigenschaften
Características generales

Pressione max. statica <i>Max. static pressure</i> Pression max. statique <i>Max. statischer Druck</i> Presión máx. estática	Pressione max. dinamica <i>Max. dynamic pressure</i> Pression max. dynamique <i>Max. dynamischer Druck</i> Presión máx. dinámica	Temperature <i>Temperatures</i> Température <i>Temperaturen</i> Temperaturas
40 MPa	35 MPa	- 20° + 80° C

TIPOLOGIA DI MONTAGGIO E SENSO DI ROTAZIONE

Assembly typology and rotation direction
Type de montage et sens de rotation
Montageart und Rotationsrichtung
Tipos de montaje y sentido e rotación

	Sinistro <i>Left - Gauche - Links - Izquierdo</i>	Destro <i>Right - Droit - Rechts - Derecho</i>
A		
B		
C		

DETERMINAZIONE DELLA LUNGHEZZA "L" DEL TUBO

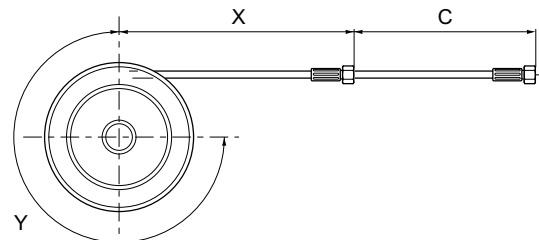
Determination of the length "L" of tube
Détermination de la longueur "L" du tuyau
Bestimmung der Länge "L" des Rohres
Determinación de la longitud "L" del tubo

$$L = C + X + Y$$

C = Corsa - Stroke - Course - Lauf - Carrera

X = Tratto non avvolto - Hose always outside

Partie non enroulée - Nicht gewickelter Abschnitt - Trecho sin enrollar



Y = Tratto all'interno dell'avvolgitubo, mediamente 400 mm (nei modelli Serie C il valore Y è 200 mm)

Hose length inside, usually 400 mm (in the C Series models Y is 200 mm)

Partie à l'intérieur de l'enrouleur de tuyaux, environ 400 mm (dans les modèles Séries C, la valeur Y est de 200 mm)

Abschnitt im Innern der Rohrwickelmaschine, durchschnittlich 400 mm (bei den C-Serie Modellen beträgt der Wert Y 200 mm)

Trecho en el interior del enrollador de tubos, por lo general, 400 mm (en los modelos Serie C el valor Y es 200 mm)

TUBO RACCOMANDATO

Pipe recommend

Tuyau préconisé

Empfohlener Schlauch

Tubo recomendado

Consigliamo di utilizzare tubi termoplastici singoli o gemellati. In alternativa suggeriamo tubi fino a Ø 1/2" con un raggio di curvatura massimo di 100 mm e tubi di Ø 3/4" con un raggio di curvatura massimo di 160 mm.

We recommend the use of single or twin thermoplastic pipes. Alternatively, we suggest pipes with Ø of up to 1/2" with a maximum radius of curvature of 100 mm and Ø 3/4" pipes with a maximum radius of curvature of 160 mm.

Nous préconisons des tuyaux thermoplastiques individuels ou jumelés. En alternative, nous suggérons des tuyaux jusqu'à Ø 1/2" avec un rayon de courbure maximum de 100 mm et des tuyaux de Ø 3/4" ayant un rayon de courbure maximum de 160 mm.

Wir raten zur Verwendung von einzelnen oder paarweisen thermoplastischen Leitungen. Als Alternative empfehlen wir Leitungen von bis zu Ø 1/2" mit einem maximalen Biegeradius von 100 mm sowie Leitungen von Ø 3/4" mit einem maximalen Biegeradius von 160 mm.

Aconsejamos utilizar tubos termoplásticos individuales o gemelos. En alternativa sugerimos tubos de hasta Ø 1/2" con un radio de curvatura máximo de 100 mm y tubos de Ø 3/4" con un radio de curvatura máximo de 160 mm.

PRESCRIZIONI PER LE ORDINAZIONI

Order instructions

Prescriptions pour les commandes

Vorgaben zur Bestellung

Prescripciones para los pedidos



Pour la commande de l'enrouleur, spécifier:

- le numéro de code
- le sens de rotation (G = Gauche - D = Droit)
- le type de montage (A - B - C)
- les dimensions Ø, L, α pour le type de montage avec renvoi (C)
- le diamètre des tuyaux.



When ordering a pipe winder, please state:

- the code number
- the rotation direction (S = Left - D = Right)
- the assembly type (A - B - C)
- the dimensions Ø, L, α for the assembly type with transmission (C)
- the diameter of the pipes.



Bei der Bestellung des Schlauchaufwicklers sind folgende Angaben erforderlich:

- die Codenummer
- die Rotationsrichtung (S = Links - D = Rechts)
- die Montageart (A - B - C)
- die Werte für Ø, L, α für die Montageart mit Vorgelege (C)
- der Leitungsdurchmesser.



Para el pedido del enrollador de tubos es necesario especificar:

- el número de código
- el sentido de rotación (S = Izquierdo - D = Derecho)
- el tipo de montaje (A - B - C)
- las cuotas Ø, L, α para el tipo de montaje con transmisión (C)
- el diámetro de los tubos.



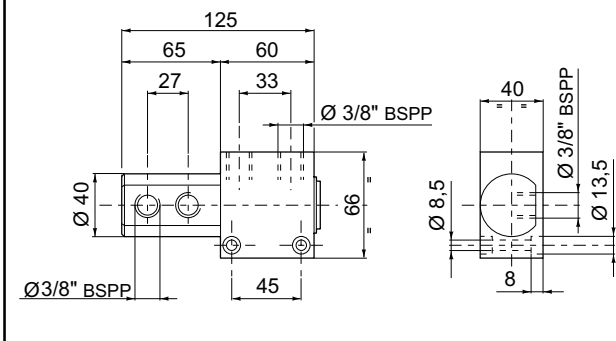
Per l'ordinazione dell'avvolgitubo è necessario specificare:

- il numero di codice
- il senso di rotazione (S = Sinistro - D = Destro)
- il tipo di montaggio (A - B - C)
- le quote Ø, L, α per il tipo di montaggio con rinvio (C)
- il diametro dei tubi.

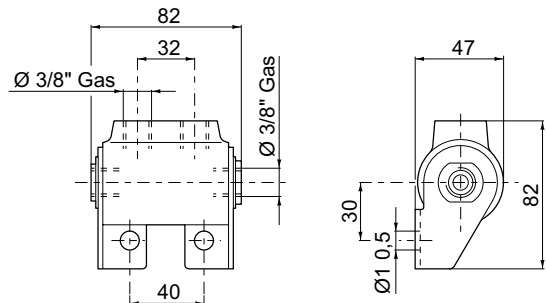
GIUNTO GIREVOLE

Rotating joint
Joint rotatif
Drehkupplung
Juntadora giratoria

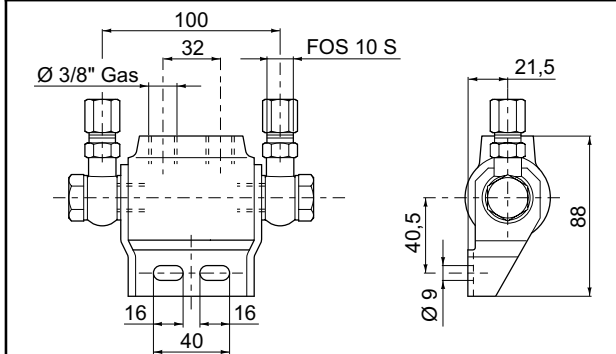
Cod. 3.552.400



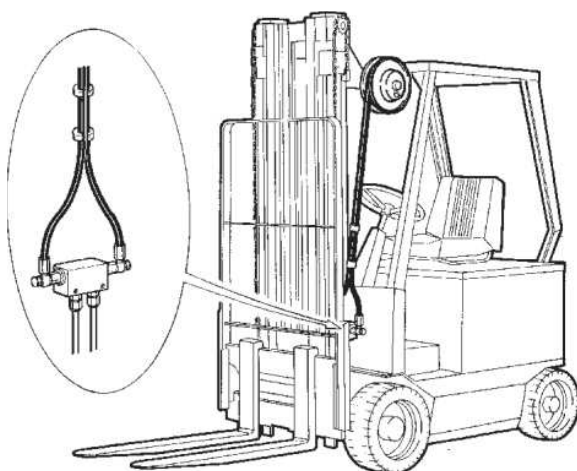
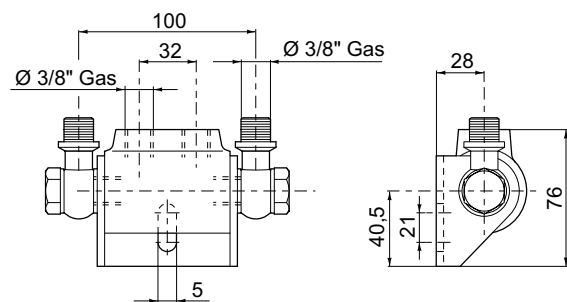
Cod. 3.552.401



Cod. 3.552.403



Cod. 3.552.404



TUBI FLESSIBILI - HOSES

NORME - NORMS 1)	SAE100 R7
NORME - NORMS 2)	DIN24551-ISO3949.1
SOTTOSTRATO - CORE	POLIESTERE TERMOPLASTICO - THERMOPLASTIC POLYESTER
RINFORZO - REINFORCEMENT	2 STRATI DI FIBRA SINTETICA
COPERTURA - COVER	POLIURETANO MICROFORATO - PIN PRICKED POLYURETANE
TEMPERATURA DI SERVIZIO - SERVICE TEMPERATURE	-40°C +93°C
NOTE	DIMENSIONI RELATIVE AI TUBI SINGOLI - SINGLE HOSE DIMENSION

R7B



CODART	DN_P	DN_mm	DI	DR	DE	WP_bar	BP_bar	P_kg/mt	Rc_mm
R7B-03	3/16"	5	5,0	-	9,3	220	880	0,14	26
R7B-04	1/4"	6	6,6	-	12,5	215	860	0,20	30
R7B-05	5/16"	8	8,0	-	14,3	195	780	0,28	40
R7B-06	3/8"	10	9,7	-	16,5	190	750	0,34	70
R7B-08	1/2"	12	13,0	-	20,5	170	630	0,48	90

NORME - NORMS 1)	SAE100 R8
NORME - NORMS 2)	ISO3949.2
SOTTOSTRATO - CORE	POLIESTERE TERMOPLASTICO - THERMOPLASTIC POLYESTER
RINFORZO - REINFORCEMENT	2 - STRATI DI FIBRA ARAMIDICA - ARAMIDIC LAYERS
COPERTURA - COVER	POLIURETANO MICROFORATO - PIN PRICKED POLYURETANE
TEMPERATURA DI SERVIZIO - SERVICE TEMPERATURE	-40°C +100°C
NOTE	DIMENSIONI RELATIVE AI TUBI SINGOLI - SINGLE HOSE DIMENSION

R8B



CODART	DN_P	DN_mm	DI	DR	DE	WP_bar	BP_bar	P_kg/mt	Rc_mm
R8B-03	3/16"	5	5,0	-	9,3	350	1400	0,14	10
R8B-04	1/4"	6	6,6	-	12,5	350	1400	0,20	12
R8B-05	5/16"	8	8,0	-	14,3	338	1352	0,28	18
R8B-06	3/8"	10	9,7	-	16,5	280	1120	0,34	30
R8B-08	1/2"	12	13,0	-	20,5	245	980	0,48	40

NORME - NORMS 1)	MC-20-01-
NORME - NORMS 2)	
SOTTOSTRATO - CORE	POLIESTERE TERMOPLASTICO - THERMOPLASTIC POLYESTER
RINFORZO - REINFORCEMENT	1 - STRATO FILO ACCIAIO - STEEL WIRE
COPERTURA - COVER	POLIURETANO MICROFORATO - PIN PRICKED POLYURETANE
TEMPERATURA DI SERVIZIO - SERVICE TEMPERATURE	-40°C +100°C
NOTE	DIMENSIONI RELATIVE AI TUBI SINGOLI - SINGLE HOSE DIMENSION

T1DB

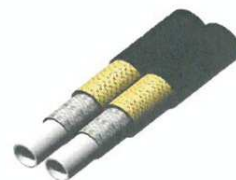


CODART	DN_P	DN_mm	DI	DR	DE	WP_bar	BP_bar	P_kg/mt	Rc_mm
T1DB-03	3/16"	5	5,0	-	9,5	293	1172	0,13	35
T1DB-04	1/4"	6	6,5	-	12,0	287	1148	0,17	40
T1DB-05	5/16"	8	8,0	-	13,0	217	868	0,17	50
T1DB-06	3/8"	10	9,7	-	15,5	212	848	0,24	60
T1DB-08	1/2"	12	13,0	-	18,6	185	740	0,29	80

TUBI FLESSIBILI - HOSES

NORME - NORMS 1)	MC-20-01-
NORME - NORMS 2)	
SOTTOSTRATO - CORE	POLIESTERE TERMOPLASTICO
RINFORZO - REINFORCEMENT	1 STRATO DI FIBRA ARAMIDICA + 1 STRATO FILO ACCIAIO
COPERTURA - COVER	POLIURETANO MICROFORATO - PIN PRICKED POLYURETANE
TEMPERATURA DI SERVIZIO - SERVICE TEMPERATURE	-40°C + 93°C
NOTE	DIMENSIONI RELATIVE AI TUBI SINGOLI - SINGLE HOSE DIMENSION

FK100B



CODART	DN_P	DN_mm	DI	DR	DE	WP_bar	BP_bar	P_kg/mt	Rc_mm
FK100B-04	1/4"	6	6,6	-	13,2	500	2000	0,20	40
FK100B-05	5/16"	8	8,0	-	15,2	450	1800	0,24	50
FK100B-06	3/8"	10	9,8	-	18,5	425	1700	0,31	80
FK100B-08	1/2"	12	13,0	-	21,5	350	1400	0,38	90

NORME - NORMS 1)	F-H-20-06-10-01
NORME - NORMS 2)	
SOTTOSTRATO - CORE	POLIESTERE TERMOPLASTICO
RINFORZO - REINFORCEMENT	FIBRA ARAMIDICA - ARAMIDIC LAYER
COPERTURA - COVER	POLIURETANO MICROFORATO - PIN PRICKED POLYURETANE
TEMPERATURA DI SERVIZIO - SERVICE TEMPERATURE	-40°C + 93°C
NOTE	

MICRO



CODART	DN_P	DN_mm	DI	DR	DE	WP_bar	BP_bar	P_kg/mt	Rc_mm
MICROTUBO 2X5	1/16"	2	2,0	-	5,0	640	2000	-	15

NORME - NORMS 1)	NFE 49.100.
NORME - NORMS 2)	
SOTTOSTRATO - CORE	POLIAMMIDE
RINFORZO - REINFORCEMENT	
COPERTURA - COVER	
TEMPERATURA DI SERVIZIO - SERVICE TEMPERATURE	-20°C + 80°C
NOTE	PER TRASMISSIONI PNEUMATICHE - FOR PNEUMATIC LINES

RILSAN



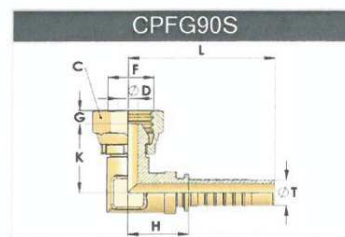
CODART	DN_P	DN_mm	DI	DR	DE	WP_bar	BP_bar	P_kg/mt	Rc_mm
RILSAN-2X4			2,0	-	4,0	15	60		25
RILSAN-4X6			4,0	-	6,0	15	60		35
RILSAN-6X8			6,0	-	8,0	15	60		55
RILSAN-8X10			8,0	-	10,0	12	48		90
RILSAN-9X12			9,0	-	12,0	10	40		75

90° KRUEMMER KOMPAKTER UNIVERSAL DICHTKOPF FUER STUTZEN 60°

CODO 90° COMPACTO SERIE GAS

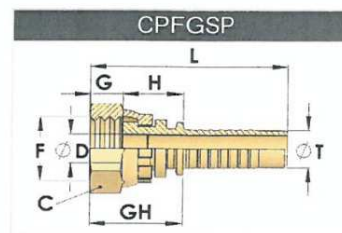
BSP 90° COMPACT ELBOW 60 BSP 90° CONE

CURVA 90° COMPATTA SEDE OGIVA 60° F. GAS



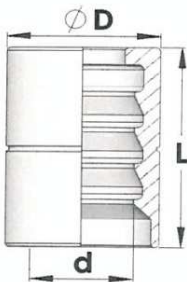
CODART	T	DN	F	NF	C	H	L	G	D	K	GH	N	
CP0304FG90S	3/16"	5	1/4"	19	19	0	0	0	0	0	0	*	
CP0404FG90S	1/4"	6	1/4"	19	19	15,5	44	4	4	22	0		
CP0406FG90S	1/4"	6	3/8"	19	22	25	52	6	7	24	0		
CP0408FG90S	1/4"	6	1/2"	14	27	0	0	0	0	0	0	*	
CP0504FG90S	5/16"	8	1/4"	19	19	0	0	0	0	0	0	*	
CP0506FG90S	5/16"	8	3/8"	19	22	24	53	7	7,5	26	0		
CP0508FG90S	5/16"	8	1/2"	14	27	0	0	0	0	0	0	*	
CP0604FG90S	3/8"	10	1/4"	19	19	30	60	4	5	26	0		
CP0606FG90S	3/8"	10	3/8"	19	22	25	56	6	7,5	25	0		
CP0608FG90S	3/8"	10	1/2"	14	27	0	0	0	0	0	0	*	
CP0806FG90S	1/2"	12	3/8"	19	22	0	0	0	0	0	0	*	
CP0808FG90S	1/2"	12	1/2"	14	27	22	55	5	9,5	29,5	0		
CP0810FG90S	1/2"	12	5/8"	14	28	0	0	0	0	0	0	*	
CP0812FG90S	1/2"	12	3/4"	14	32	0	0	0	0	0	0	*	
CP1010FG90S	5/8"	16	5/8"	14	28	0	0	0	0	0	0	*	
CP1012FG90S	5/8"	16	3/4"	14	32	0	0	0	0	0	0	*	
CP1208FG90S	3/4"	20	1/2"	14	27	0	0	0	0	0	0	*	
CP1212FG90S	3/4"	20	3/4"	14	32	34	75	9,5	14	56,5	0		
CP1216FG90S	3/4"	20	1"	11	40	0	0	0	0	0	0	*	
CP1612FG90S	1"	25	3/4"	14	32	0	0	0	0	0	0	*	
CP1616FG90S	1"	25	1"	11	40	0	0	0	0	0	0	*	

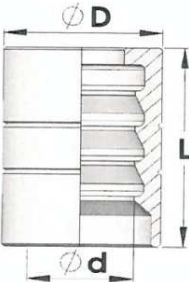
UNIVERSAL DICHTKOPF MIT FLACHEM SITZ
 TUERCA RECTA CON PLAZA PLANA GAS
 BSP FEMALE FLAT FACE
 FEMMINA DIRITTA GAS SEDE PIANA

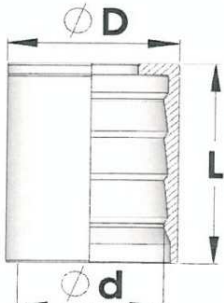


CODART	T	DN	F	NF	C	H	L	G	D	K	GH	N
CP0304FG-SP	3/16"	5	1/4"	19	19	16,8	42,5	5	5	0	21,8	
CP0404FG-SP	1/4"	6	1/4"	19	19	14,7	43	7,5	5	0	22,2	
CP0406FG-SP	1/4"	6	3/8"	19	22	17	46	10	7,5	0	27	
CP0504FG-SP	5/16"	8	1/4"	19	19	17	45,5	5	5	0	22	
CP0506FG-SP	5/16"	8	3/8"	19	22	17	46	10	7,5	0	27	
CP0508FG-SP	5/16"	8	1/2"	14	27	22,5	51	7	10	0	29,5	
CP0604FG-SP	3/8"	10	1/4"	19	19	18	48,5	5	5	0	23	
CP0606FG-SP	3/8"	10	3/8"	19	22	14,3	44,8	10	7,5	0	24,3	
CP0608FG-SP	3/8"	10	1/2"	14	27	17,5	48	11	10	0	28,5	
CP0808FG-SP	1/2"	12	1/2"	14	27	18	51	11	10	0	29	
CP0810FG-SP	1/2"	12	5/8"	14	28	20	53	12,5	12,5	0	32,5	
CP0812FG-SP	1/2"	12	3/4"	14	32	21	55	12,5	15,5	0	33,5	
CP1010FG-SP	5/8"	16	5/8"	14	28	20	56	13,5	12,5	0	33,5	
CP1012FG-SP	5/8"	16	3/4"	14	32	18,4	54,4	12,5	15,5	0	30,9	
CP1212FG-SP	3/4"	20	3/4"	14	32	18	59	12,5	15,5	0	30,5	
CP1216FG-SP	3/4"	20	1"	11	40	22	63	13,5	21	0	35,5	
CP1616FG-SP	1"	25	1"	11	40	23	77	13,5	21	0	36,5	
CP2020FG-SP	1.1/4"	32	1.1/4"	11	50	30	91	11	27	0	41	
CP2424FG-SP	1.1/2"	38	1.1/2"	11	55	35	106	11	33	0	46	
CP3232FG-SP	2"	50	2"	11	70	36	112	15	45	0	51	

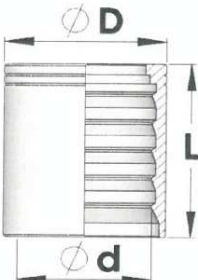
**BOCCOLE A PRESSARE - CRIMPING FERRULES - CASQUILLO - FASSUNG
RACCORDI - STD - FITTINGS**

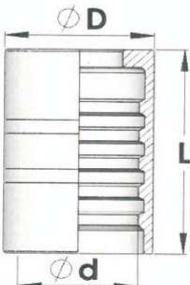
BPL	CODART	Misura Nominale Nominal Size		Dimensioni (mm) Dimensions (mm)			Applicabile a tubo Suitable for hose				Note
		INCH	DN	D	L	d	BOCCOLA A PELARE TUBI 1-2 TELE ACCIAIO SKIVING FERRULE 1-2 WIRES HOSES				
	BPL-03	3/16"	5	17,0	26,5		R1A		1ST		
	BPL-04	1/4"	6	20,0	29,5		R1A	R2K	1ST	2SC	
	BPL-05	5/16"	8	22,0	29,5		R1A	R2K	1ST	2SC	
	BPL-06	3/8"	10	24,0	32,0		R1A	R2K	1ST	2SC	
	BPL-08	1/2"	12	28,5	34,0		R1A	R2K	1ST	2SC	
	BPL-10	5/8"	16	32,0	37,0		R1A	R2K	1ST	2SC	
	BPL-12	3/4"	20	36,0	43,0		R1A	R2K	1ST	2SC	
	BPL-16	1"	25	43,0	50,0		R1A	R2K	1ST	2SC	
	BPL-20	1.1/4"	32	52,0	57,0		R1A	R2K	1ST	2SC	
	BPL-24	1.1/2"	40	57,0	63,0		R1A	R2K	1ST	2SC	
	BPL-32	2"	50	70,0	78,0		R1A	R2K	1ST	2SC	

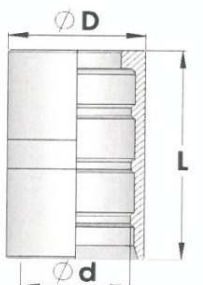
BPP	CODART	Misura Nominale Nominal Size		Dimensioni (mm) Dimensions (mm)			Applicabile a tubo Suitable for hose				Note
		INCH	DN	D	L	d	BOCCOLA A PELARE TUBI 2 TELE ACCIAIO - SKIVING FERRULE 2 WIRE HOSES				
	BPP-03	3/16"	5	20,0	27,0		R2A		2ST		
	BPP-04	1/4"	6	21,0	30,0		R2A		2ST	4SP	
	BPP-05	5/16"	8	24,0	30,7		R2A		2ST		
	BPP-06	3/8"	10	25,5	32,0		R2A	R9	2ST	4SP	
	BPP-08	1/2"	12	30,0	34,0		R2A	R9	2ST	4SP	
	BPP-10	5/8"	16	34,0	37,0		R2A		2ST	4SP	
	BPP-12	3/4"	20	38,0	43,0		R2A	R9	2ST		
	BPP-16	1"	25	46,0	50,0		R2A	R9	2ST		
	BPP-20	1.1/4"	32	56,0	59,0		R2A		2ST		
	BPP-24	1.1/2"	40	62,0	63,0		R2A		2ST		
	BPP-32	2"	50	75,0	79,0		R2A		2ST		
	BPP-40	2.1/2"	65	90,0	79,0		R2A		2ST		
	BPP-48	3"	75	104,0	68,0		R2A		2ST		

BNS-1	CODART	Misura Nominale Nominal Size		Dimensioni (mm) Dimensions (mm)			Applicabile a tubo Suitable for hose		Note
		INCH	DN	D	L	d	BOCCOLA NON PELARE TUBI 1 TELA ACCIAIO - NO SKIVING FERRULE 1 WIRE HOSES		
	BNS-103	3/16"	5	19,0	26,0		R1AT	1SN	
	BNS-104	1/4"	6	20,0	30,5		R1AT	1SN	
	BNS-105	5/16"	8	22,0	31,0		R1AT	1SN	
	BNS-106	3/8"	10	24,0	31,5		R1AT	1SN	
	BNS-108	1/2"	12	28,5	34,0		R1AT	1SN	
	BNS-110	5/8"	16	32,0	37,0		R1AT	1SN	
	BNS-112	3/4"	20	36,0	42,5		R1AT	1SN	
	BNS-116	1"	25	43,0	50,0		R1AT	1SN	
	BNS-120	1.1/4"	32	53,0	59,2		R1AT	1SN	
	BNS-124	1.1/2"	40	60,0	66,0		R1AT	1SN	
	BNS-132	2"	50	78,0	72,0		R1AT	1SN	
	BNS-140	2.1/2"	65	92,0	79,0		R1AT	1SN	
BNS-148	3"	75	106,0	69,0		R1AT	1SN		

**BOCCOLE A PRESSARE - CRIMPING FERRULES - CASQUILLO - FASSUNG
RACCORDI - STD - FITTINGS**

BNS-2	CODART	Misura Nominale Nominal Size		Dimensioni (mm) Dimensions (mm)			Applicabile a tubo Suitable for hose		Note
		INCH	DN	D	L	d	BOCCOLA NON PELARE TUBI 2 TELE ACCIAIO - NO SKIVING FERRULE 2 WIRE HOSES		
	BNS-203	3/16"	5	21,0	26,0		R2AT	2SN	
	BNS-204	1/4"	6	22,0	30,5		R2AT	2SN	
	BNS-205	5/16"	8	24,0	30,5		R2AT	2SN	
	BNS-206	3/8"	10	25,5	31,5		R2AT	2SN	
	BNS-208	1/2"	12	30,0	34,0		R2AT	2SN	
	BNS-210	5/8"	16	34,0	37,0		R2AT	2SN	
	BNS-212	3/4"	20	38,0	42,5		R2AT	2SN	
	BNS-216	1"	25	46,0	50,0		R2AT	2SN	
	BNS-220	1.1/4"	32	56,0	59,0		R2AT	2SN	
	BNS-224	1.1/2"	40	62,0	66,0		R2AT	2SN	
BNS-232	2"	50	80,0	72,0		R2AT	2SN		

BP3	CODART	Misura Nominale Nominal Size		Dimensioni (mm) Dimensions (mm)			Applicabile a tubo Suitable for hose				Note
		INCH	DN	D	L	d	BOCCOLA NON PELARE TUBI TESSILI - NO SKIVING FERRULE TEXTILE HOSES				
	BP3-03	3/16"	5	20,0	16,0	15,0	R3	2TE			
	BP3-04	1/4"	6	19,0	29,0	15,2	R3	2TE			
	BP3-05	5/16"	8	22,0	30,0	18,4	R3	2TE	3TE		
	BP3-06	3/8"	10	24,0	32,0	19,9	R3	2TE	3TE		
	BP3-08	1/2"	12	28,5	34,0	24,7	R3		3TE		
	BP3-10	5/8"	16	34,0	36,0	27,9	R3	2TE	3TE		
	BP3-12	3/4"	20	38,0	40,0	32,6	R3		3TE		
	BP3-16	1"	25	46,0	50,0	39,5	R3	2TE	3TE		
	BP3-20	1.1/4"	32	52,0	57,0	46,0	R3		3TE		
	BP3-08L	1/2"	12	30,0	34,0	24,7	R3				

BP7	CODART	Misura Nominale Nominal Size		Dimensioni (mm) Dimensions (mm)			Applicabile a tubo Suitable for hose				Note
		INCH	DN	D	L	d	BOCCOLA NON PELARE TUBI TERMOPLASTICI - NO SKIVING FERRULE THERMOPLAST HOSES				
	BP7-02	1/8"	4	11,0	17,0			R7			
	BP7-03	3/16"	5	13,0	27,0	10,5		1SC	R7	T1D	
	BP7-04	1/4"	6	17,0	29,0	13,5	R1K	1SC	R7	T1D	
	BP7-05	5/16"	8	19,0	30,0	15,2	R1K	1SC	R7	T1D	
	BP7-06	3/8"	10	21,0	31,0	16,8	R1K	1SC	R7	T1D	
	BP7-08	1/2"	12	25,5	34,0	20,8	R1K	1SC	R7	T1D	
	BP7-10	5/8"	16	28,5	36,0	24,0	R1K	1SC	R7	T1D	
	BP7-12	3/4"	20	32,0	42,0	27,5	R1K	1SC	R7	T1D	
	BP7-16	1"	25	40,0	50,0	34,5	R1K	1SC	R7	T1D	
	BP7-03Z	3/16"	5	15,0	27,0	11,8	R1K	R7	R7Z	T1DZ	





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THE REEL FACTORY

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GALLI ERIO SRL

THE REEL FACTORY

 **Hose reel**

hydraulic and electro-hydraulic

 **Enrouleurs**

hydrauliques et électro-hydrauliques

 **Avvolgitubi**

idraulici ed elettroidraulici

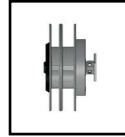
 **Schlauchaufroller**

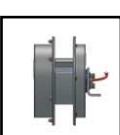
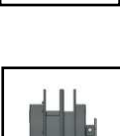
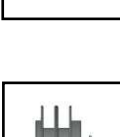
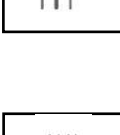
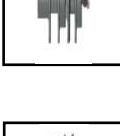
Hydraulische und Elektrohydraulische

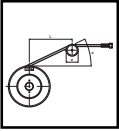
 **Enrolladores de tubos**

hidráulicos y electrohidráulicos

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NOTE - N.B. - NOTES - ANMERKUNG - NOTA

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GIUNTO GIREVOLE

Rotating joint
Joint rotatif
Drehkupplung
Juntadora giratoria

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TUBO IDRAULICO

Hydraulic hose
Tuyau hydraulique
Hydraulik Schlauch
Manguera hidraulica

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RACCORDI IDRAULICI A PRESSARE

Hydraulic press fittings
Raccords presse hydraulique
Hydraulische Anschlüsse
Accesorios hidraulicos prensa

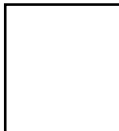
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BOCCOLE IDRAULICHE A PRESSARE

Hydraulic bushes to press
Presse hydraulique
Hydraulische Büchse
Bujes para apretar

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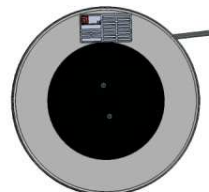
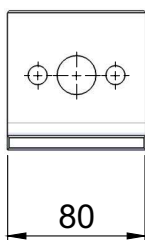
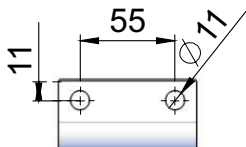
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Page

1 way hydraulic hose reels with frontal attachment
Enrouleurs de tuyaux hydrauliques à 1 voie avec attache avant des tuyaux
1 Weg hydraulische Schlauchaufroller mit Frontalanschluss der Schläuche
Enrolladores de tubos hidráulicos de 1 carril con enganche frontal de los tubos

Enrolladores de tubos hidráulicos de 1 carril con enganche frontal de los tubos



Right - Droit - *Rechts* - Derecho



Left - Gauche - Links - Izquierdo

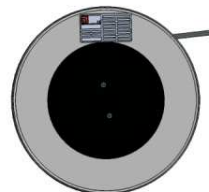
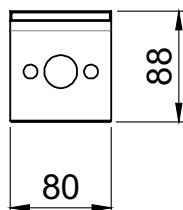
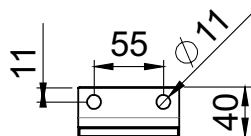
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1 way hydraulic hose reels with frontal attachment
Enrouleurs de tuyaux hydrauliques à 1 voie avec attache avant des tuyaux
1 Weg hydraulische Schlauchaufroller mit Frontalanschluss der Schläuche
Enrolladores de tubos hidráulicos de 1 carril con enganche frontal de los tubos

Enrolladores de tubos hidráulicos de 1 carril con enganche frontal de los tubos

Technical drawing of the 100mm x 100mm x 10mm plate. The drawing shows the plate from a side perspective, highlighting its thickness and the mounting bracket. Dimensions are indicated as follows:

- A**: Total height of the plate and mounting bracket assembly.
- B**: Width of the plate.
- C**: Thickness of the plate.
- L**: Length of the mounting bracket.
- 40**: A specific dimension of the mounting bracket, likely the distance from the plate to the mounting hole.



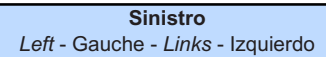
Right - Droit - *Rechts* - Derecho



Left - Gauche - Links - Izquierdo

[illegible]

Enrolladores de tubos hidráulicos de 1 carril con enganche frontal de los tubos

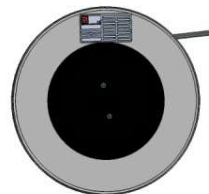


7

1 way hydraulic hose reels with frontal attachment

1 Weg hydraulische Schlauchaufroller mit Frontalanschluss der Schläuche

Enrolladores de tubos hidráulicos de 1 carril con enganche frontal de los tubos



Right - Droit - *Rechts* - Derecho



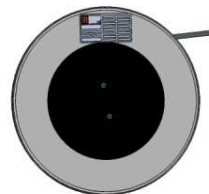
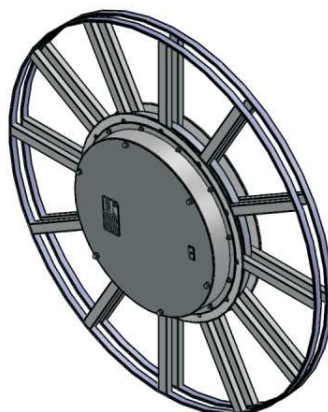
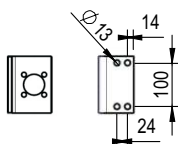
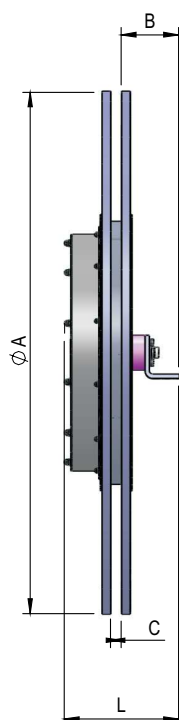
Left - Gauche - Links - Izquierdo

8

1 way hydraulic hose reels with frontal attachment

1 Weg hydraulische Schlauchaufroller mit Frontalanschluss der Schläuche

Enrolladores de tubos hidráulicos de 1 carril con enganche frontal de los tubos



Right - Droit - *Rechts* - Derecho



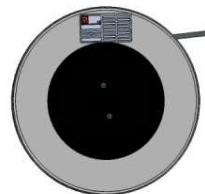
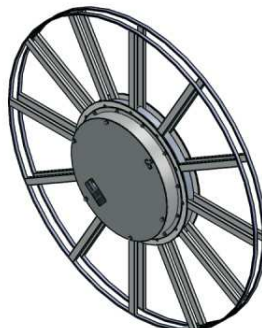
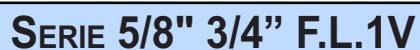
Left - Gauche - Links - Izquierdo

[illegible]

1 way hydraulic hose reels with frontal attachment

1 Weg hydraulische Schlauchaufroller mit Frontalanschluss der Schläuche

Enrolladores de tubos hidráulicos de 1 carril con enganche frontal de los tubos



Right - Droit - *Rechts* - Derecho



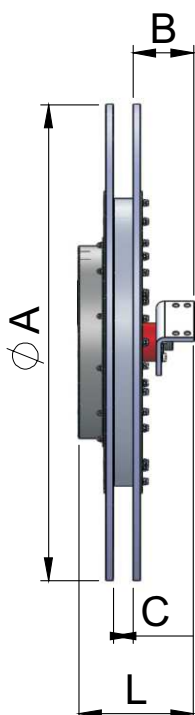
Left - *Gauche* - *Links* - *Izquierdo*

Nota: Con molla rinforzata
Note: With reinforced spring
 Note: Avec ressort renforcé
 Anm: Mit verstärkter Feder
 Nota: Con muelle reforzado

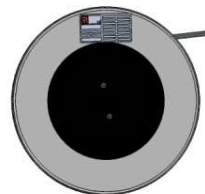
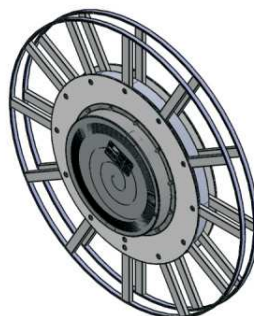
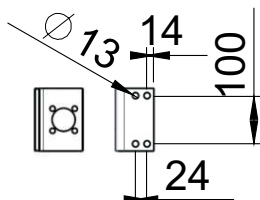
1 way hydraulic hose reels with frontal attachment

1 Weg hydraulische Schlauchaufroller mit Frontalanschluss der Schläuche

Enrolladores de tubos hidráulicos de 1 carril con enganche frontal de los tubos



SERIE 1 " F.L.1V



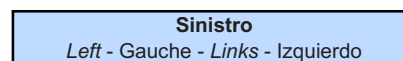
Right - Droit - *Rechts* - Derecho



Left - Gauche - *Links* - Izquierdo

[illegible]

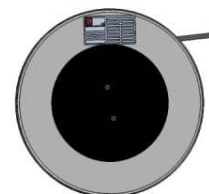
Enrolladores de tubos hidráulicos de 1 carril con enganche radial de los tubos



1 way hydraulic hose reels with radial attachment

1 Weg hydraulische Schlauchaufroller mit Radialanschluss der Schläuche

Enrolladores de tubos hidráulicos de 1 carril con enganche radial de los tubos



Right - Droit - *Rechts* - Derecho

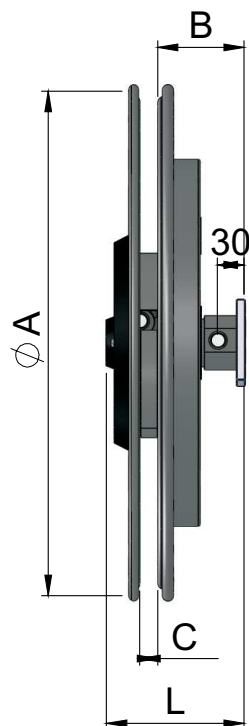


Left - Gauche - Links - Izquierdo

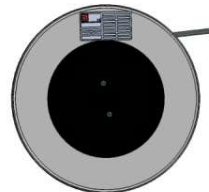
13

1 way hydraulic hose reels with radial attachment

Enrouleurs de tuyaux hydrauliques à 1 voie avec attache radiale des tuyaux
1 Weg hydraulische Schlauchaufroller mit Radialanschluss der Schläuche
 Enrolladores de tubos hidráulicos de 1 carril con enganche radial de los tubos



Technical drawing of a mechanical part. The top view is a square with overall dimensions of 90 by 70. It contains four circular holes, each with a diameter of 11. The distance between the centers of the holes is 68 horizontally and 50 vertically. The side view shows a height of 10.



Destro

Right - Droit - *Rechts* - Derecho



Sinistro

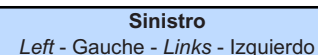
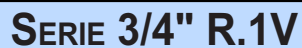
Left - Gauche - Links - Izquierdo

[illegible]

1 way hydraulic hose reels with radial attachment

1 Weg hydraulische Schlauchaufroller mit Radialanschluss der Schläuche

Enrolladores de tubos hidráulicos de 1 carril con enganche radial de los tubos

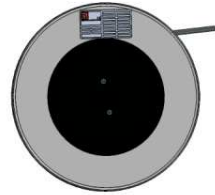
15

2 way hydraulic hose reels with frontal attachment
Enrouleurs de tuyaux hydrauliques à 2 voie avec attache avant des tuyaux
2 Weg hydraulische Schlauchaufroller mit Frontalanschluss der Schläuche
Enrolladores de tubos hidráulicos de 2 carril con enganche frontal de los tubos

Enrolladores de tubos hidráulicos de 2 carril con enganche frontal de los tubos

The technical drawing shows two views of a circular mechanical component:

- Side View (Left):** Shows the profile of the component. Dimensions include:
 - ϕA : Overall diameter.
 - B: Diameter of the central hub.
 - C: Thickness of the front flange.
 - L: Total length of the component.
 - 40: Distance from the end face to the start of the threaded section.
 - 11: Thread pitch.
- Top View (Right):** Shows the circular face of the component. Dimensions include:
 - 80: Outer diameter.
 - 55: Inner diameter of the mounting hole pattern.
 - 11: Hole diameter.



Right - Droit - Rechts - Derecho

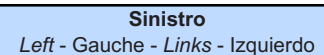


Left - Gauche - Links - Izquierdo

[illegible]

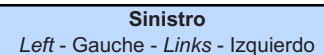
2 way hydraulic hose reels with frontal attachment
Enrouleurs de tuyaux hydrauliques à 2 voie avec attache avant des tuyaux
2 Weg hydraulische Schlauchaufroller mit Frontalanschluss der Schläuche
Enrolladores de tubos hidráulicos de 2 carril con enganche frontal de los tubos

Enrolladores de tubos hidráulicos de 2 carril con enganche frontal de los tubos

17

2 way hydraulic hose reels with frontal attachment
Enrouleurs de tuyaux hydrauliques à 2 voie avec attache avant des tuyaux
2 Weg hydraulische Schlauchaufroller mit Frontalanschluss der Schläuche
Enrolladores de tubos hidráulicos de 2 carril con enganche frontal de los tubos

Enrolladores de tubos hidráulicos de 2 carril con enganche frontal de los tubos

18

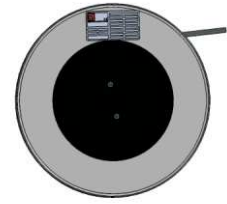
2 way hydraulic hose reels with frontal attachment
Enrouleurs de tuyaux hydrauliques à 2 voie avec attache avant des tuyaux
2 Weg hydraulische Schlauchaufroller mit Frontalanschluss der Schläuche
Enrolladores de tubos hidráulicos de 2 carril con enganche frontal de los tubos

Enrolladores de tubos hidráulicos de 2 carril con enganche frontal de los tubos

19

2 way hydraulic hose reels with frontal attachment
Enrouleurs de tuyaux hydrauliques à 2 voie avec attache avant des tuyaux
2 Weg hydraulische Schlauchaufroller mit Frontalanschluss der Schläuche
Enrolladores de tubos hidráulicos de 2 carril con enganche frontal de los tubos

Enrolladores de tubos hidráulicos de 2 carril con enganche frontal de los tubos



Right - Droit - Rechts - Derecho



Left - Gauche - *Links* - Izquierdo

20

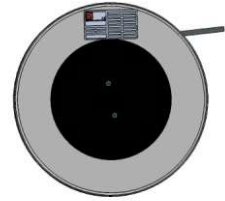
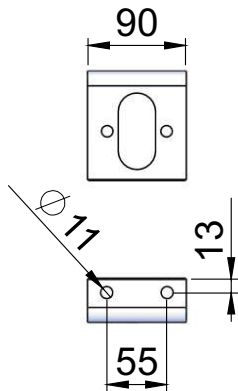
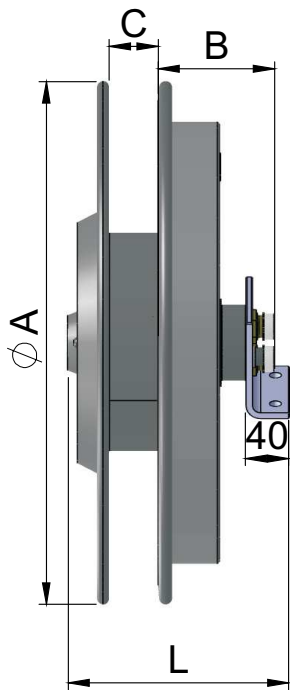
AVVOLGITUBIIDRAULICI A 2 VIE CON ATTACCO FRONTALE DEI TUBI

2 way hydraulic hose reels with frontal attachment

Enrouleurs de tuyaux hydrauliques à 2 voie avec attache avant des tuyaux

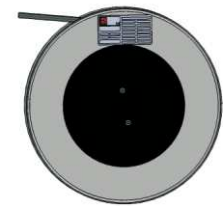
2 Weg hydraulische Schlauchaufroller mit Frontalanschluss der Schläuche

Enrolladores de tubos hidráulicos de 2 carril con enganche frontal de los tubos



Destro

Right - Droit - Rechts - Derecho



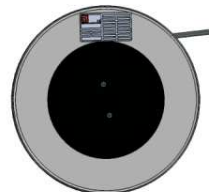
Sinistro

Left - *Gauche* - *Links* - Izquierdo

[illegible]

2 way hydraulic hose reels with radial attachment

Enrouleurs de tuyaux hydrauliques à 2 voie avec attache radiale des tuyaux
2 Weg hydraulische Schlauchaufroller mit Radialanschluss der Schläuche
Enrolladores de tubos hidráulicos de 2 carril con enganche radial de los tubos



Destro

Right - Droit - *Rechts* - Derecho



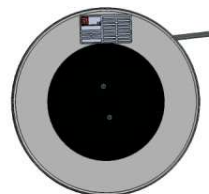
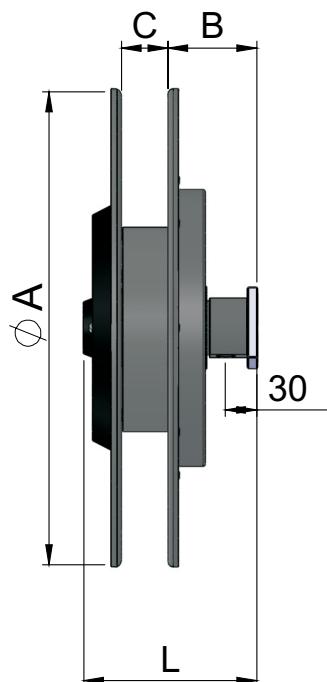
Sinistro

Left - Gauche - Links - Izquierdo

22

2 way hydraulic hose reels with radial attachment

Enrouleurs de tuyaux hydrauliques à 2 voie avec attache radiale des tuyaux
2 Weg hydraulische Schlauchaufroller mit Radialanschluss der Schläuche
Enrolladores de tubos hidráulicos de 2 carril con enganche radial de los tubos



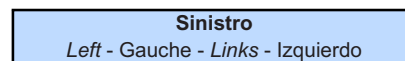
Right - *Droit* - *Rechts* - *Derecho*



Left - Gauche - Links - Izquierdo

[illegible]

Enrolladores de tubos hidráulicos de 2 carril con enganche radial de los tubos

24

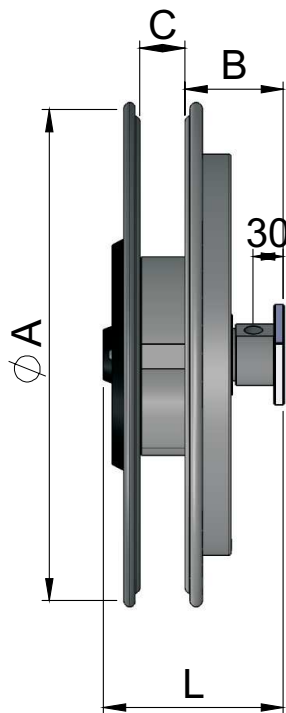
AVVOLGITUBI IDRAULICI A 2 VIE CON ATTACCO RADIALE DEI TUBI (MOLLA RINFORZATA)

2 way hydraulic hose reels with radial attachment (reinforced spring)

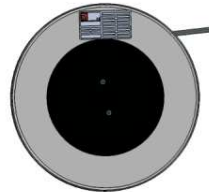
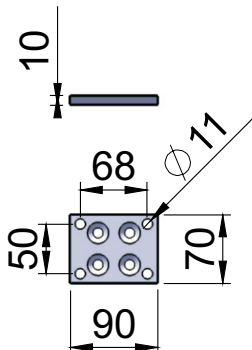
Enrouleurs de tuyaux hydrauliques à 2 voie avec attache radiale des tuyaux(*ressort renforcée*)

2 Weg hydraulische Schlauchaufroller mit Radialanschluss der Schläuche (verstärken Feder)

Enrolladores de tubos hidráulicos de 2 carril con enganche radial de los tubos (*resorte reforzada*)



SERIE R.L.RIN. 2V



Destro

Right - Droit - *Rechts* - Derecho



Sinistro

Left - Gauche - Links - Izquierdo

[illegible]

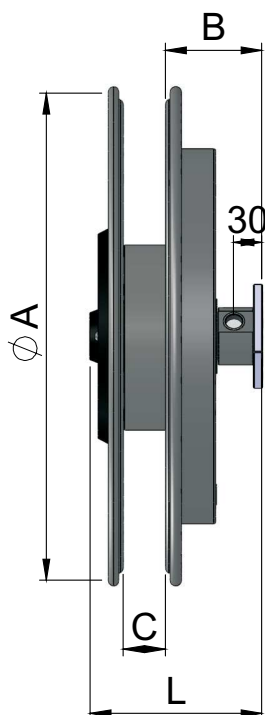
AVVOLGITUBI IDRAULICI A 2 VIE CON ATTACCO RADIALE DEI TUBI (MOLLA RINFORZATA)

2 way hydraulic hose reels with radial attachment (reinforced spring)

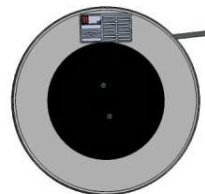
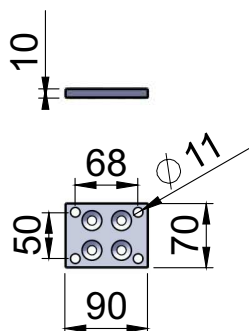
Enrouleurs de tuyaux hydrauliques à 2 voie avec attache radiale des tuyaux(ressort renforcée)

2 Weg hydraulische Schlauchaufroller mit Radialanschluss der Schläuche (verstärken Feder)

Enrolladores de tubos hidráulicos de 2 carril con enganche radial de los tubos (*resorte reforzada*)



SERIE L MEDIA 2V



Destro

Right - Droit - *Rechts* - Derecho



Sinistro

Left - Gauche - Links - Izquierdo

[illegible]

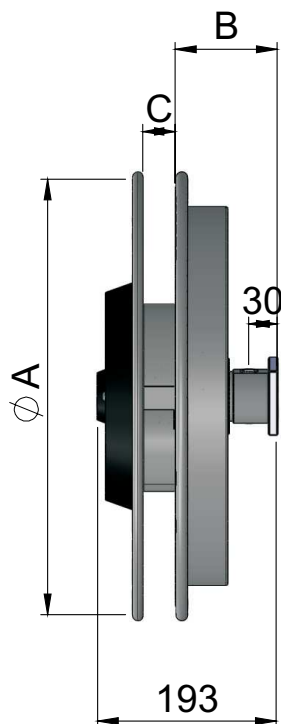
AVVOLGITUBI IDRAULICI A 2 VIE CON ATTACCO RADIALE DEI TUBI (MOLLA RINFORZATA)

2 way hydraulic hose reels with radial attachment (reinforced spring)

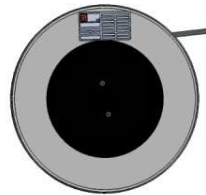
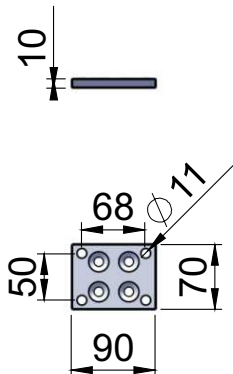
Enrouleurs de tuyaux hydrauliques à 2 voie avec attache radiale des tuyaux(*ressort renforcée*)

2 Weg hydraulische Schlauchaufroller mit Radialanschluss der Schläuche (verstärken Feder)

Enrolladores de tubos hidráulicos de 2 carril con enganche radial de los tubos (*resorte reforzada*)



SERIE L FORTE 2V



Destro

Right - Droit - *Rechts* - Derecho

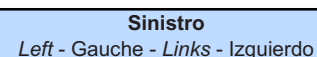


Sinistro

Left - *Gauche* - *Links* - Izquierdo

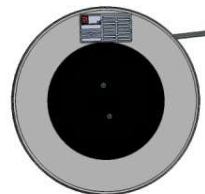
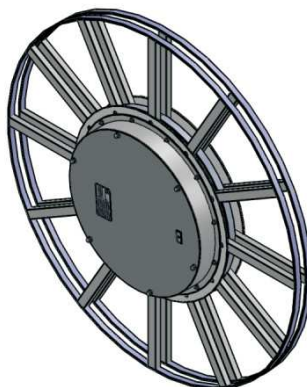
[illegible]

Enrolladores de tubos hidráulicos de 2 carril con enganche radial de los tubos

28

2 way hydraulic hose reels with radial attachment

Enrouleurs de tuyaux hydrauliques à 2 voie avec attache radiale des tuyaux
2 Weg hydraulische Schlauchaufroller mit Radialanschluss der Schläuche
 Enrolladores de tubos hidráulicos de 2 carril con enganche radial de los tubos

[illegible]

Right - Droit - *Rechts* - Derecho

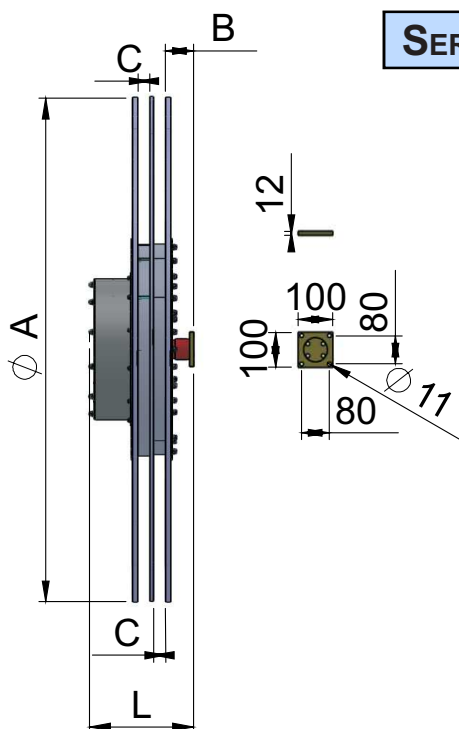


Left - Gauche - Links - Izquierdo

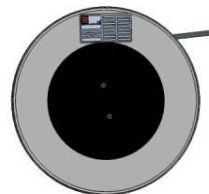
[illegible]

2 way hydraulic hose reels with radial attachment

Enrouleurs de tuyaux hydrauliques à 2 voie avec attache radiale des tuyaux
2 Weg hydraulische Schlauchfroller mit Radialanschluss der Schläuche
Enrolladores de tubos hidráulicos de 2 carril con enganche radial de los tubos



SERIE 5/8" 3/4" R.L.2V



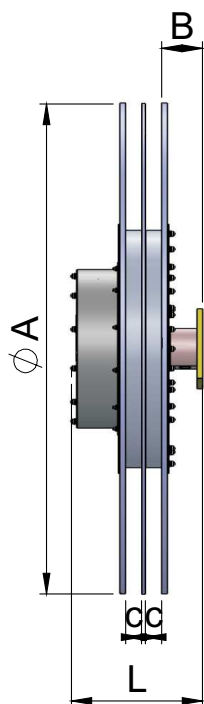
Right - Droit - *Rechts* - Derecho



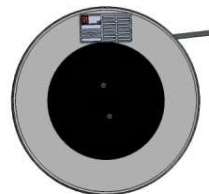
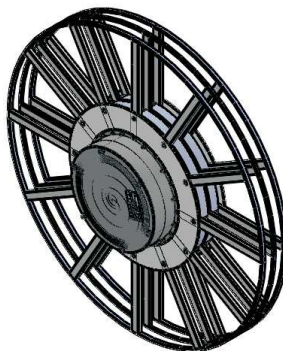
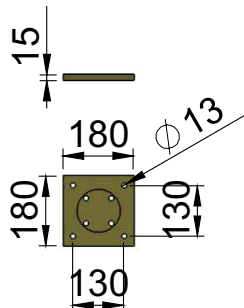
Left - *Gauche* - *Links* - *Izquierdo*

[illegible]

Enrouleurs de tuyaux hydrauliques à 2 voies avec attache radiale des tuyaux
2 Weg hydraulische Schlauchaufroller mit Radialanschluss der Schläuche
 Enrolladores de tubos hidráulicos de 2 carril con enganche radial de los tubos



SERIE 1 " R.L.2V



Right - Droit - *Rechts* - Derecho

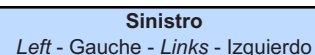


Left - Gauche - Links - Izquierdo

[illegible]

3 way hydraulic hose reels with frontal attachment
Enrouleurs de tuyaux hydrauliques à 3 voie avec attache avant des tuyaux
3 Weg hydraulische Schlauchaufröller mit Frontalanschluss der Schläuche
Enrolladores de tubos hidráulicos de 3 carril con enganche frontal de los tubos

Enrolladores de tubos hidráulicos de 3 carril con enganche frontal de los tubos



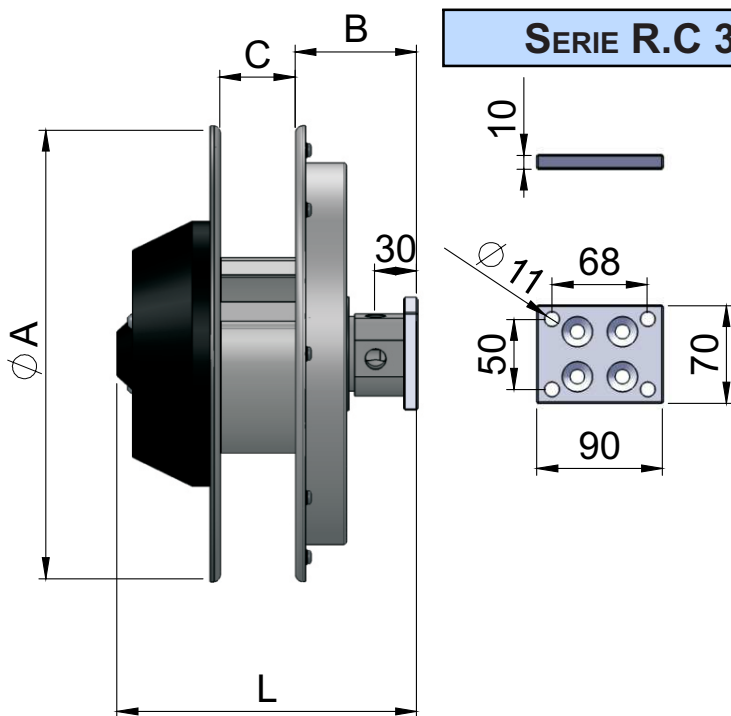
AVVOLGITUBI IDRAULICI A 3 VIE CON ATTACCO RADIALE DEI TUBI

3 way hydraulic hose reels with radial attachment

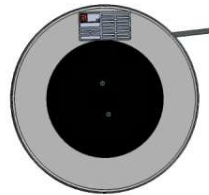
Enrouleurs de tuyaux hydrauliques à 3 voie avec attache radiale des tuyaux

3 Weg hydraulische Schlauchaufroller mit Radialanschluss der Schläuche

Enrolladores de tubos hidráulicos de 3 carril con enganche radial de los tubos



SERIE R.C 3V



Destro

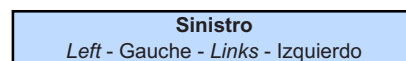
Right - Droit - *Rechts* - Derecho



Sinistro

Left - Gauche - Links - Izquierdo

[illegible]



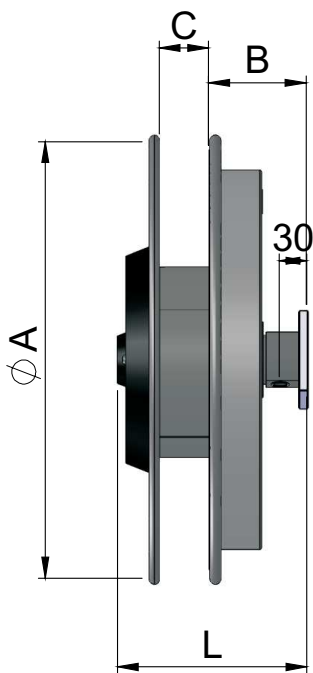
AVVOLGITUBI IDRAULICI A 3 VIE CON ATTACCO RADIALE DEI TUBI

3 way hydraulic hose reels with radial attachment

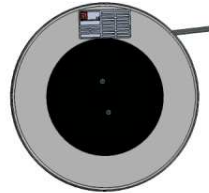
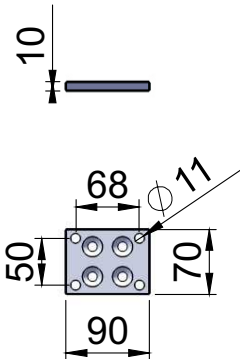
Enrouleurs de tuyaux hydrauliques à 3 voie avec attache radiale des tuyaux

3 Weg hydraulische Schlauchaufroller mit Radialanschluss der Schläuche

Enrolladores de tubos hidráulicos de 3 carril con enganche radial de los tubos



SERIE R.L 3V



Destro

Right - Droit - *Rechts* - Derecho



Sinistro

Left - *Gauche* - *Links* - Izquierdo

[illegible]

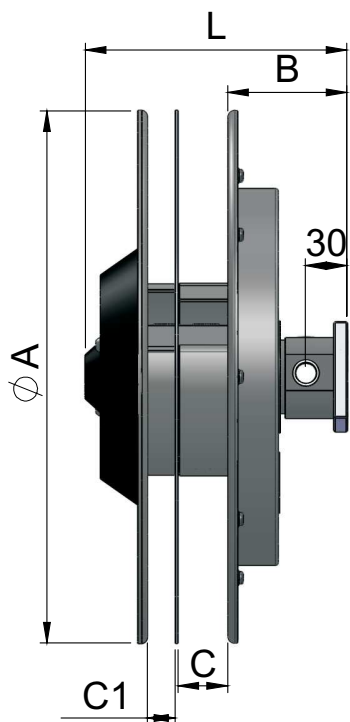
AVVOLGITUBIIDRAULICA A 3 VIE CON ATTACCO RADIALE DEI TUBI

3 way hydraulic hose reels with radial attachment

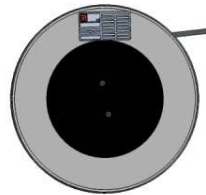
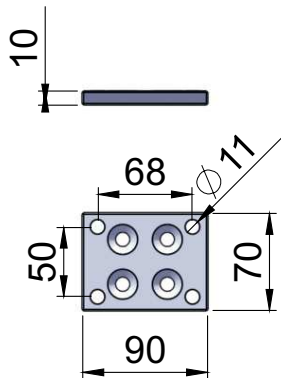
Enrouleurs de tuyaux hydrauliques à 3 voie avec attache radiale des tuyaux

3 Weg hydraulische Schlauchaufroller mit Radialanschluss der Schläuche

Enrolladores de tubos hidráulicos de 3 carril con enganche radial de los tubos



SERIE R.C 3V



Destro

Right - Droit - *Rechts* - Derecho



Sinistro

Left - *Gauche* - *Links* - Izquierdo

[illegible]

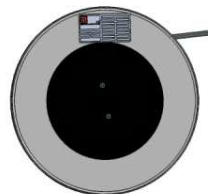
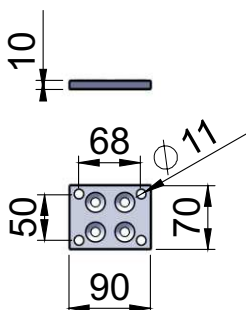
3 way hydraulic hose reels with radial attachment
Enrouleurs de tuyaux hydrauliques à 3 voie avec attache radiale des tuyaux
3 Weg hydraulische Schlauchaufroller mit Radialanschluss der Schläuche
Enrolladores de tubos hidráulicos de 3 carril con enganche radial de los tubos

3 way hydraulic hose reels with radial attachment

Enrouleurs de tuyaux hydrauliques à 3 voie avec attache radiale des tuyaux

3 Weg hydraulische Schlauchaufroller mit Radialanschluss der Schläuche

Enrolladores de tubos hidráulicos de 3 carril con enganche radial de los tubos



Right - Droit - *Rechts* - Derecho

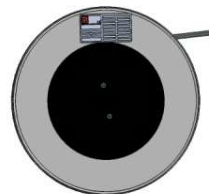


Left - *Gauche* - *Links* - *Izquierdo*

[illegible]

3 way hydraulic hose reels with radial attachment
Enrouleurs de tuyaux hydrauliques à 3 voie avec attache radiale des tuyaux
3 Weg hydraulische Schlauchaufroller mit Radialanschluss der Schläuche
Enrolladores de tubos hidráulicos de 3 carril con enganche radial de los tubos

Enrolladores de tubos hidráulicos de 3 carril con enganche radial de los tubos



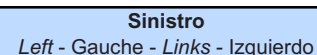
Right - Droit - *Rechts* - Derecho



Left - Gauche - *Links* - Izquierdo

38

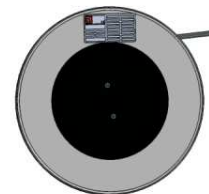
Enrolladores de tubos hidráulicos de 4 carril con enganche radial de los tubos

39

4 way hydraulic hose reels with radial attachment

4 Weg hydraulische Schlauchaufroller mit Radialanschluss der Schläuche

Enrolladores de tubos hidráulicos de 4 carril con enganche radial de los tubos



Destro

Right - Droit - *Rechts* - Derecho

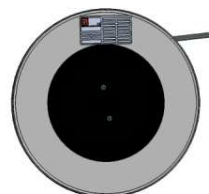


Sinistro

Left - *Gauche* - *Links* - *Izquierdo*

40

Enrolladores de tubos hidráulicos de 4 carril con enganche radial de los tubos



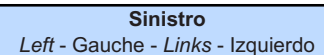
Right - Droit - *Rechts* - Derecho



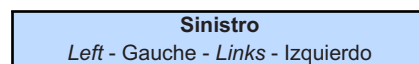
Left - Gauche - *Links* - Izquierdo

41

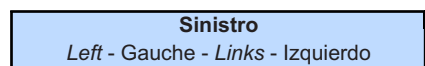
Enrolladores de tubos hidráulicos de 5 carriles con enganche radial de los tubos



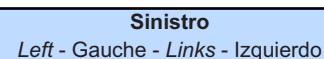
Enrolladores de tubos hidráulicos de 5 carriles con enganche radial de los tubos

43

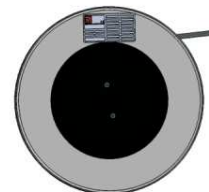
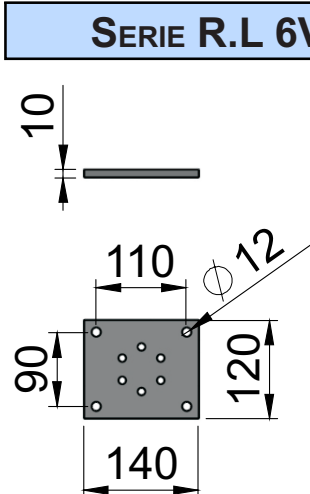
Enrolladores de tubos hidráulicos de 6 carriles con enganche radial de los tubos

44

Enrolladores de tubos hidráulicos de 6 carriles con enganche radial de los tubos

45

Enrolladores de tubos hidráulicos de 6 carriles con enganche radial de los tubos



Right - Droit - *Rechts* - Derecho



Left - Gauche - *Links* - Izquierdo

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AVVOLGITUBI IDRAULICI A 4 VIE CON ATTACCO RADIALE DEI TUBI (CORPI INDIPENDENTI)

4 way hydraulic hose reels with radial attachment (independent casings)

Enrouleurs de tuyaux hydrauliques à 4 voies avec attache radiale des tuyaux (corps indépendants)

4 Weg hydraulische Schlauchaufroller mit Radialanschluss der Schläuche (unabhängigen Körpern)

Enrolladores de tubos hidráulicos de 4 carriles con enganche radial de los tubos (cuerpos independientes)

 La caratteristica principale di questi avvolgitubi è quella di avere su un unico albero due corpi e due molle indipendenti. Ciò allo scopo di compensare le deformazioni delle coppie di tubi soggette a pressioni diverse. Su questi avvolgitubi possono essere montate coppie di tubi con diametri e lunghezze diverse tra di loro. È consigliato l'acquisto dell'avvolgitubo completo di tubi.

 Die Haupteigenschaft dieser Schlauchaufrollern ist, dass sie auf einer einzigen Welle zwei Körper und zwei unabhängige Federn aufweisen. Dies dient zum Ausgleich der Verformungen der Schlauchpaare, die einem unterschiedlichem Druck ausgesetzt sind. Auf diesen Schlauchaufrollern können Schlauchpaare mit unterschiedlichen Durchmessern und Längen montiert werden. Es wird empfohlen, die Schlauchaufroller komplett mit den Schläuchen zu kaufen.

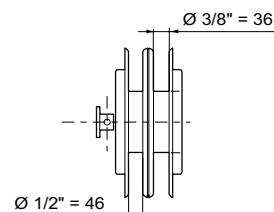
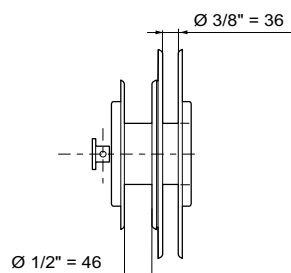
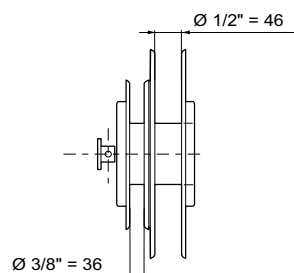
 The main feature of this hose reels is that it has two casings and two independent springs on a single shaft. This is designed to compensate for the warping of the pair of hoses caused by different rates of pressure to which the hoses are exposed. The hose reel can winding up pairsof hoses with different diametes and length between them. We recommend to purchase the hose reels complete with hoses.

 La característica principal de estos enrolladores de tubos es la de tener sobre un único árbol dos cuerpos y dos resortes independientes. Esto tiene como objetivo compensar las deformaciones de los pares de tubos sujetos a diferentes presiones. En estos enrolladores de tubos pueden montarse pares de tubos con diámetros y larguras diferentes entre sí. Se aconseja la adquisición del envolvedor de tubos junto con los tubos.

 La principale caractéristique de ces enrouleurs de tuyaux, c'est qu'ils ont, sur un arbre unique, deux corps et deux ressorts indépendants. Ce fait permet de compenser les déformations des paires de tuyaux qui sont sujets à des pressions différentes. Sur ces enrouleurs de tuyaux on peut monter des paires de tuyaux dont les diamètres et les longueurs sont différents les uns des autres. Nous vous conseillons d'acheter les enrouleurs de tuyaux déjà équipés de tuyaux.



A richiesta - On request - Sur demande - Auf Anfrage - Bajo pedido



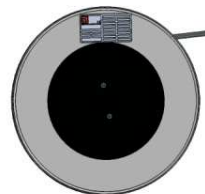
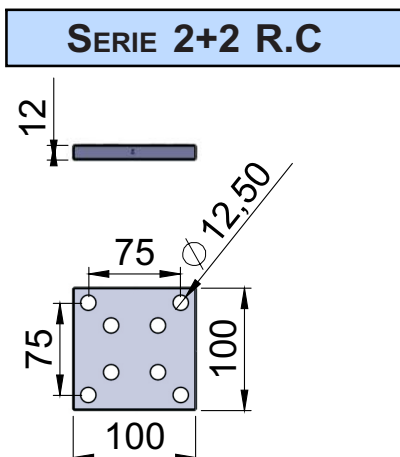
4 way hydraulic hose reels with radial attachment (independent casings)
Enrouleurs de tuyaux hydrauliques à 4 voies avec attache radiale des tuyaux (corps indépendants)
 4 Weg hydraulische Schlauchaufroller mit Radialanschluss der Schläuche (unabhängigen Körpern)
Enrolladores de tubos hidráulicos de 4 carriles con enganche radial de los tubos (cuerpos independientes)

4 way hydraulic hose reels with radial attachment (independent casings)

Enrouleurs de tuyaux hydrauliques à 4 voies avec attache radiale des tuyaux (corps indépendants)

4 Weg hydraulische Schlauchaufroller mit Radialanschluss der Schläuche (unabhängigen Körpern)

Enrolladores de tubos hidráulicos de 4 carriles con enganche radial de los tubos (cuerpos independientes)



Right - Droit - *Rechts* - Derecho

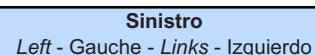


Left - Gauche - Links - Izquierdo

48

4 way hydraulic hose reels with radial attachment (independent casings)
Enrouleurs de tuyaux hydrauliques à 4 voies avec attache radiale des tuyaux (corps indépendants)
 4 Weg hydraulische Schlauchaufroller mit Radialanschluss der Schläuche (unabhängigen Körpern)
Enrolladores de tubos hidráulicos de 4 carriles con enganche radial de los tubos (cuerpos independientes)

Enrolladores de tubos hidráulicos de 4 carriles con enganche radial de los tubos (cuerpos independientes)

49

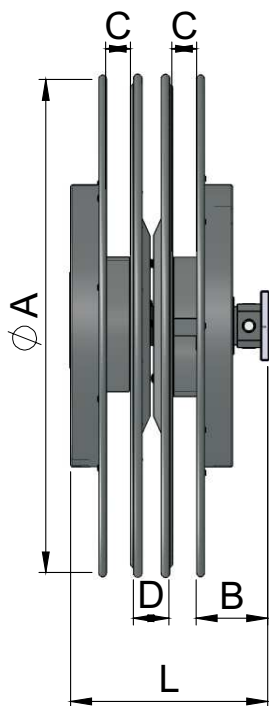
AVVOLGITUBI IDRAULICI A 4 VIE CON CORPI INDIPENDENTI (MOLLA RINFORZATA)

4 way hydraulic hose reels with independent casings (reinforced spring)

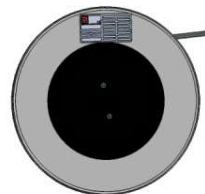
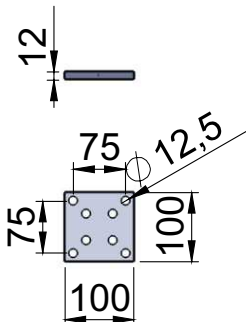
Enrouleurs de tuyaux hydrauliques à 4 voies avec corps indépendants (ressort renforcée)

4 Weg hydraulische Schlauchaufroller mit unabhängigen Körpern (verstärken Feder)

Enrolladores de tubos hidráulicos de 4 carriles con cuerpos independientes (resorte reforzada)



SERIE 2+2 R.M MEDIA



Destro

Right - Droit - *Rechts* - Derecho



Sinistro

Left - Gauche - Links - Izquierdo

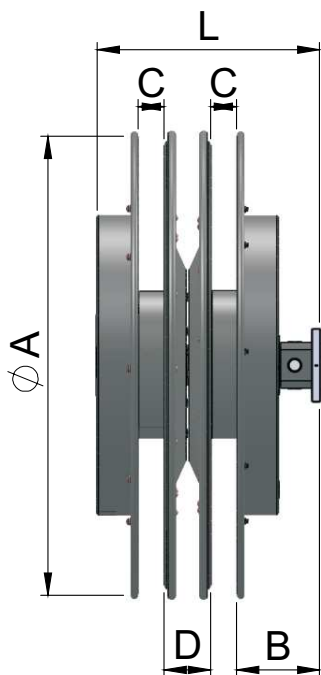
[illegible]

4 way hydraulic hose reels with independent casings (reinforced spring)

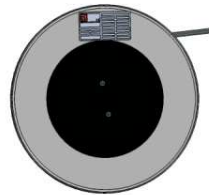
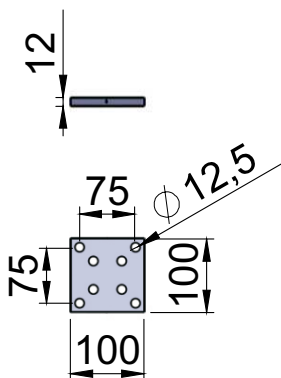
Enrouleurs de tuyaux hydrauliques à 4 voies avec corps indépendants (ressort renforcée)

4 Weg hydraulische Schlauchaufroller mit unabhängigen Körpern (verstärken Feder)

Enrolladores de tubos hidráulicos de 4 carriles con cuerpos independientes (resorte reforzada)



SERIE 2+2 R.M FORTE



Destro

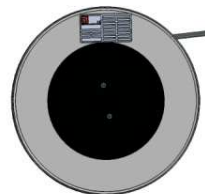
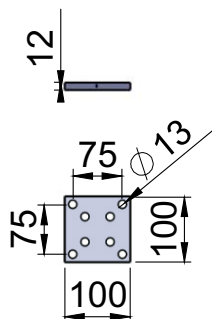
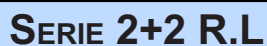
Right - Droit - *Rechts* - Derecho



Sinistro

Left - *Gauche* - *Links* - *Izquierdo*

[illegible]



Right - Droit - *Rechts* - Derecho



Left - Gauche - Links - Izquierdo

52

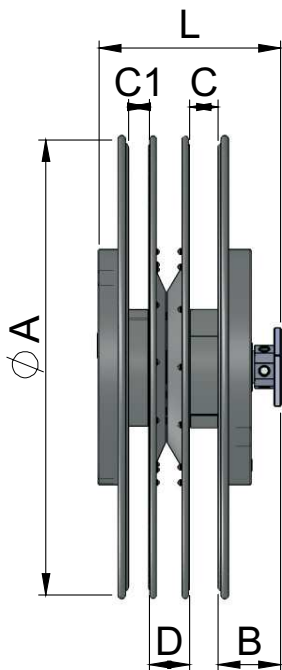
AVVOLGITUBI IDRAULICI A 5 VIE CON ATTACCO RADIALE DEI TUBI (CORPI INDIPENDENTI)

5 way hydraulic hose reels with radial attachment (independent casings)

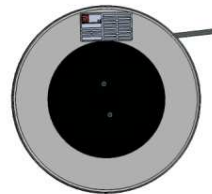
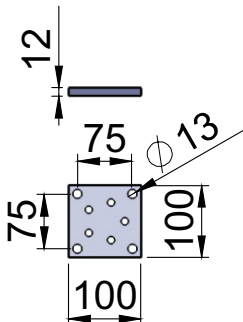
Enrouleurs de tuyaux hydrauliques à 5 voies avec attache radiale des tuyaux (corps indépendants)

5 Weg hydraulische Schlauchaufroller mit Radialanschluss der Schläuche (unabhängigen Körpern)

Enrolladores de tubos hidráulicos de 5 carriles con enganche radial de los tubos (cuerpos independientes)



SERIE 3+2 R.M.L



Destro

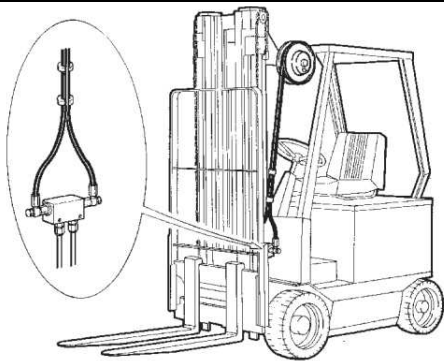
Right - Droit - *Rechts* - Derecho



Sinistro

Left - Gauche - Links - Izquierdo

[illegible]



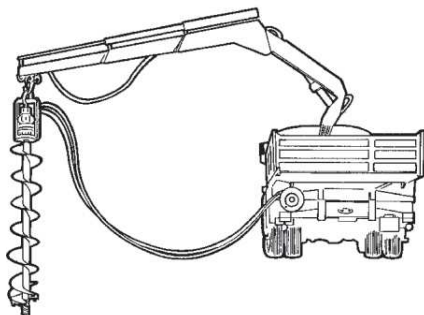
Gli avvolgitubi idraulici sono applicabili nei casi in cui sia necessario mandare olio in pressione da una parte di macchina ferma ad altra in movimento, mediante tubi flessibili. Il riavvolgimento è operato con molla di richiamo. Il corpo rotante è realizzato in fusione di ghisa GS 500 e montato su albero in acciaio temperato in superficie. Tutti i particolari sono sottoposti a collaudo dimensionale e di pressione. La colorazione standard è nera. Indicati per carrelli elevatori, gru idrauliche, alimentazione motori idraulici ecc. Gli avvolgitubi vengono prodotti tenendo in considerazione le norme che si riferiscono alla "Garanzia di Qualità ISO 9001" e sono accompagnati dalla certificazione CE richiesta dalla "Direttiva Macchine".



The hydraulic hose reels are applicable in cases where it is necessary to send oil under pressure through flexible hoses, from a machine at a standstill to another moving machine. The rewinding process is performed with a returning spring. The revolving body is constructed of a GS 500 iron casting and mounted onto a surface hardened steel shaft. The component parts all undergo both a pressure test and an overall inspection. Standard colour: black.

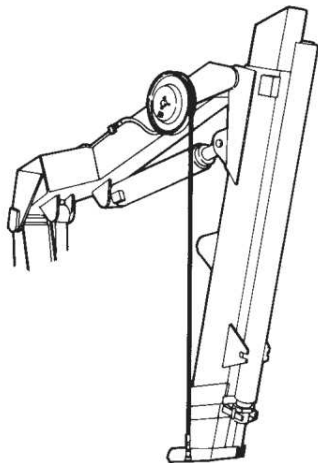
The hydraulic hose reels are recommended for fork-lift trucks, hydraulic cranes, and so on.

The hydraulic hose reel are manufactured according to the rules referring to "ISO 9001 Quality Warranty" and are accompanied by the EC certification required by the "Machine Directive".



Les enrouleurs hydrauliques peuvent être appliqués quand il faut envoyer de l'huile sous pression à un véhicule en mouvement à partir d'un véhicule arrêté, à travers des tuyaux flexibles. Pour les enrouler de nouveau, il y a un ressort de rappel. Le corps tournant est réalisé en moulage de fonte GS 500 et il est monté sur un arbre en acier trempé à la surface. Toutes les pièces sont soumises à des essais de dimension et de pression. La couleur de série est noire.

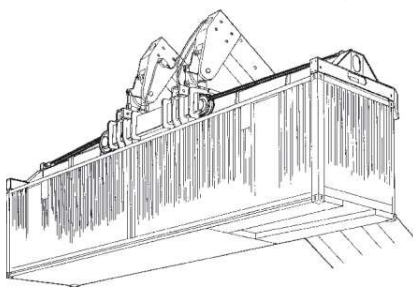
Ils sont particulièrement indiqués pour des chariots élévateurs, des grues hydrauliques, pour l'alimentation des moteurs hydrauliques, etc... Les enrouleurs de tuyaux sont produits en tenant en considération les normes qui se réfèrent à la "Garantie de Qualité ISO 9001" et sont accompagnés de la certification CE demandée par la "Directive Machines".



Die hydraulischen Schlauchaufroller können dort eingesetzt werden, wo Öl unter Druck von einer stehenden Maschine durch Schläuche zu einer anderen fahrenden geleitet werden muß. Das Aufrollen erfolgt durch eine Rückholfeder. Der Drehkörper besteht aus Fusionsguß GS 500 und ist auf einer oberflächengehärteten Welle montiert. Sämtliche Bauteile wurden Abmessung- und Druckprüfungen unterzogen. Die Standardfarbe ist schwarz.

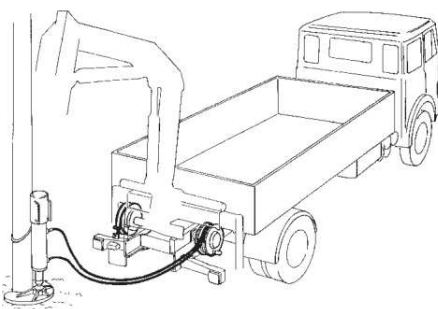
Geeignet für Hubwagen, Hydraulikkräne, zur Speisung von Hydraulikmotoren usw..

Die Schlauchaufroller werden nach den Bestimmungen "ISO 9001 Qualitätsgarantie" hergestellt und sind mit der von der "Maschinenrichtlinie" verlangten EC-Zertifizierung ausgerüstet.



Los enrolladores de tubos hidráulicos se aplican en aquellos casos en los que es necesario enviar aceite bajo presión desde una máquina parada a otra en movimiento mediante tubos flexibles. El arrollamiento se produce mediante un muelle de retorno. El cuerpo giratorio está hecho de hierro fundido GS 500 y se encuentra montado sobre un árbol de acero templado en superficie. Todas sus piezas han sido sometidas a pruebas de dimensión y de presión. La coloración estándar es negra. Especialmente adecuados para carretillas elevadoras, grúas hidráulicas, alimentación de motores hidráulicos, etc.

Los enrolladores de tubos son fabricados teniendo en consideración las normas que se refieren a la "Garantía de Calidad ISO 9001" y están acompañados por la certificación CE pedida por la "Directiva máquinas".





- Nella versione manuale, gli avvolgitubi si possono realizzare nei diametri e nelle versioni esistenti. Per versioni personalizzate contattare l'ufficio tecnico del Costruttore.
- A richiesta è possibile eseguire flange e staffe per applicazioni non contemplate nel catalogo e dispositivi di arresto.
- Per l'utilizzo degli avvolgitubi montati in posizione verticale chiedere al Costruttore le specifiche tecniche.
- Le quote "C" e "D" sono riferite ai diametri dei tubi termoplastici; sono possibili esecuzioni con misure diverse.



- *In the manual version, the winding machine can be built with the same diameters and in the same version as those already available. For customised versions, please contact the manufacturer's technical department.*
- *On request, it is possible to realize flanges and brackets for uses not foreseen in the catalogue and stop devices.*
- *Please refer to the Manufacturer for technical specifications concerning the use of vertically mounted hose reels.*
- *The heights of pipes "C" and "D" are referred to the diameters of thermoplastic pipes. Solutions with different sizes are available upon request.*



- Dans la version manuelle, les enrouleurs de tuyaux peuvent être réalisés dans les versions et avec les diamètres déjà existants. Pour les versions particulières, contactez le département technique du constructeur.
- Sur demande, nous pouvons réaliser des brides et des étriers pour applications pas prévues dans le catalogue et dispositifs d'arrêt.
- Demandez les spécifications techniques au Constructeur pour l'utilisation des enrouleurs de tuyaux montés en position verticale.
- Les hauteurs "C" et "D" sont référées aux diamètres des tubes thermoplastiques. Solutions avec mesures différentes sont également possibles.



- *In der manuellen Ausführung können die Schlauchtrommeln mit den vorhandenen Durchmessern und Versionen ausgeführt werden. Kontaktieren Sie für Spezialanfertigungen die technische Abteilung des Herstellers.*
- *Auf Anfrage ist es möglich, Flansche und Bügel für nicht im Katalog enthaltene Anwendungen und Haltevorrichtungen auszuführen.*
- *Für die Verwendung der in vertikaler Position montierten Schlauchtrommeln die technischen Spezifikationen beim Hersteller erfragen.*
- *Die Höhen "C" und "D" beziehen sich auf die Durchmesser der thermoplastischen Röhre. Auf Anfrage stehen Lösungen mit verschiedenen Abmessungen zur Verfügung.*



- En la versión manual, los enrolladores de tubos se pueden realizar en los diámetros y en las versiones existentes. Para versiones personalizadas pónganse en contacto con la Oficina Técnica del Constructor.
- Bajo pedido, es posible realizar bridas y mordazas para aplicaciones no consideradas en el catálogo y dispositivos de arranque.
- Pedir las especificaciones técnicas al Constructor para utilizar los enrolladores de tubos montados en posición vertical.
- Las alturas „C“ y „D“ se refieren a los diámetros de los tubos termoplasticos. Soluciones con diferentes medidas son tambien posibles.

CARATTERISTICHE GENERALI

General characteristics
Caractéristiques générales
Allgemeine Eigenschaften
Características generales

Pressione max. statica <i>Max. static pressure</i> Pression max. statique <i>Max. statischer Druck</i> Presión máx. estática	Pressione max. dinamica <i>Max. dynamic pressure</i> Pression max. dynamique <i>Max. dynamischer Druck</i> Presión máx. dinámica	Temperature <i>Temperatures</i> Température <i>Temperaturen</i> Temperaturas
40 MPa	35 MPa	- 20° + 80° C

TIPOLOGIA DI MONTAGGIO E SENSO DI ROTAZIONE

Assembly typology and rotation direction
Type de montage et sens de rotation
Montageart und Rotationsrichtung
Tipos de montaje y sentido e rotación

	Sinistro <i>Left - Gauche - Links - Izquierdo</i>	Destro <i>Right - Droit - Rechts - Derecho</i>
A		
B		
C		

DETERMINAZIONE DELLA LUNGHEZZA "L" DEL TUBO

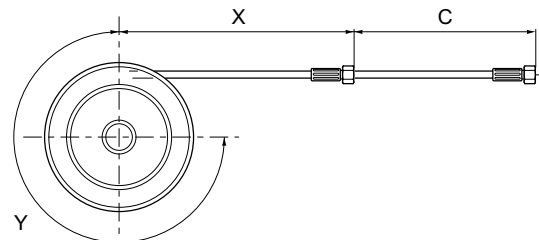
Determination of the length "L" of tube
Détermination de la longueur "L" du tuyau
Bestimmung der Länge "L" des Rohres
Determinación de la longitud "L" del tubo

$$L = C + X + Y$$

C = Corsa - Stroke - Course - Lauf - Carrera

X = Tratto non avvolto - Hose always outside

Partie non enroulée - Nicht gewickelter Abschnitt - Trecho sin enrollar



Y = Tratto all'interno dell'avvolgitubo, mediamente 400 mm (nei modelli Serie C il valore Y è 200 mm)

Hose length inside, usually 400 mm (in the C Series models Y is 200 mm)

Partie à l'intérieur de l'enrouleur de tuyaux, environ 400 mm (dans les modèles Séries C, la valeur Y est de 200 mm)

Abschnitt im Innern der Rohrwickelmaschine, durchschnittlich 400 mm (bei den C-Serie Modellen beträgt der Wert Y 200 mm)

Trecho en el interior del enrollador de tubos, por lo general, 400 mm (en los modelos Serie C el valor Y es 200 mm)

TUBO RACCOMANDATO

Pipe recommend

Tuyau préconisé

Empfohlener Schlauch

Tubo recomendado

Consigliamo di utilizzare tubi termoplastici singoli o gemellati. In alternativa suggeriamo tubi fino a Ø 1/2" con un raggio di curvatura massimo di 100 mm e tubi di Ø 3/4" con un raggio di curvatura massimo di 160 mm.

We recommend the use of single or twin thermoplastic pipes. Alternatively, we suggest pipes with Ø of up to 1/2" with a maximum radius of curvature of 100 mm and Ø 3/4" pipes with a maximum radius of curvature of 160 mm.

Nous préconisons des tuyaux thermoplastiques individuels ou jumelés. En alternative, nous suggérons des tuyaux jusqu'à Ø 1/2" avec un rayon de courbure maximum de 100 mm et des tuyaux de Ø 3/4" ayant un rayon de courbure maximum de 160 mm.

Wir raten zur Verwendung von einzelnen oder paarweisen thermoplastischen Leitungen. Als Alternative empfehlen wir Leitungen von bis zu Ø 1/2" mit einem maximalen Biegeradius von 100 mm sowie Leitungen von Ø 3/4" mit einem maximalen Biegeradius von 160 mm.

Aconsejamos utilizar tubos termoplásticos individuales o gemelos. En alternativa sugerimos tubos de hasta Ø 1/2" con un radio de curvatura máximo de 100 mm y tubos de Ø 3/4" con un radio de curvatura máximo de 160 mm.

PRESCRIZIONI PER LE ORDINAZIONI

Order instructions

Prescriptions pour les commandes

Vorgaben zur Bestellung

Prescripciones para los pedidos



Pour la commande de l'enrouleur, spécifier:

- le numéro de code
- le sens de rotation (G = Gauche - D = Droit)
- le type de montage (A - B - C)
- les dimensions Ø, L, α pour le type de montage avec renvoi (C)
- le diamètre des tuyaux.



Bei der Bestellung des Schlauchaufwicklers sind folgende Angaben erforderlich:

- die Codenummer
- die Rotationsrichtung (S = Links - D = Rechts)
- die Montageart (A - B - C)
- die Werte für Ø, L, α für die Montageart mit Vorgelege (C)
- der Leitungsdurchmesser.



When ordering a pipe winder, please state:

- the code number
- the rotation direction (S = Left - D = Right)
- the assembly type (A - B - C)
- the dimensions Ø, L, α for the assembly type with transmission (C)
- the diameter of the pipes.



Para el pedido del enrollador de tubos es necesario especificar:

- el número de código
- el sentido de rotación (S = Izquierdo - D = Derecho)
- el tipo de montaje (A - B - C)
- las cuotas Ø, L, α para el tipo de montaje con transmisión (C)
- el diámetro de los tubos.



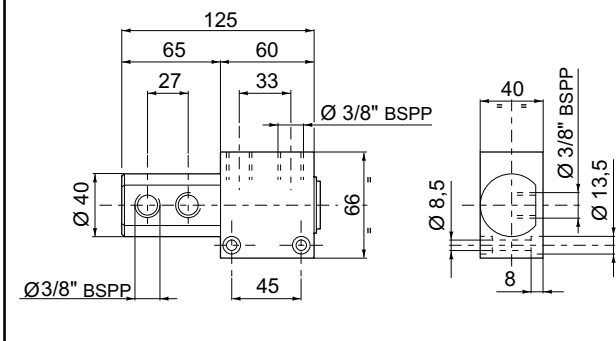
Per l'ordinazione dell'avvolgitubo è necessario specificare:

- il numero di codice
- il senso di rotazione (S = Sinistro - D = Destro)
- il tipo di montaggio (A - B - C)
- le quote Ø, L, α per il tipo di montaggio con rinvio (C)
- il diametro dei tubi.

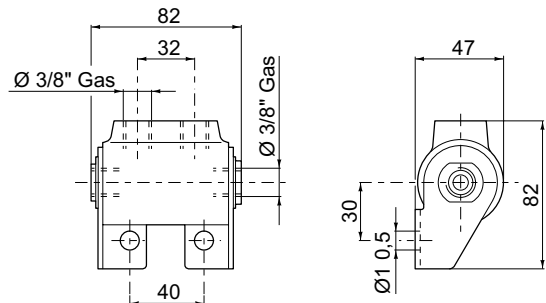
GIUNTO GIREVOLE

Rotating joint
Joint rotatif
Drehkupplung
Juntadora giratoria

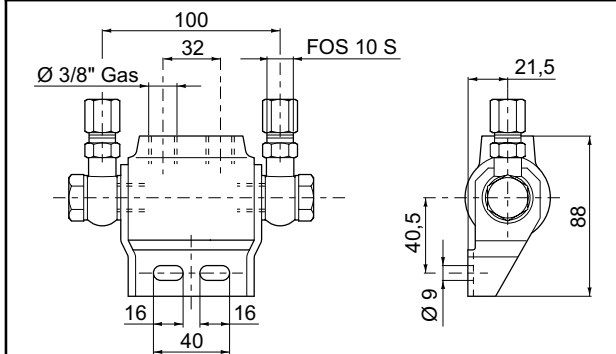
Cod. 3.552.400



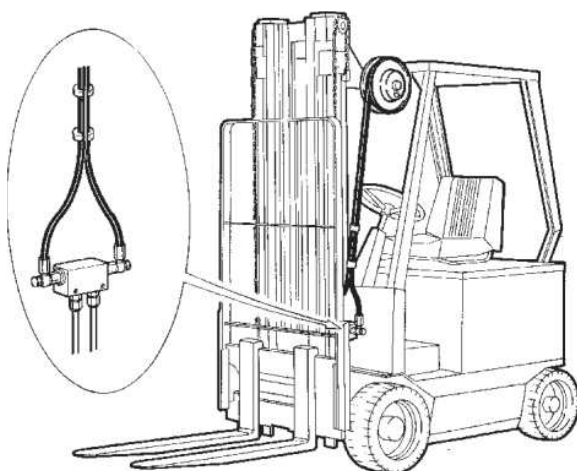
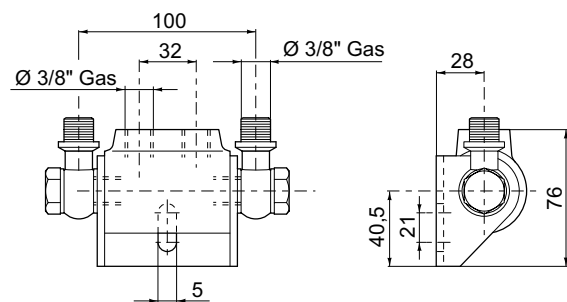
Cod. 3.552.401



Cod. 3.552.403



Cod. 3.552.404



TUBI FLESSIBILI - HOSES

NORME - NORMS 1)	SAE100 R7
NORME - NORMS 2)	DIN24551-ISO3949.1
SOTTOSTRATO - CORE	POLIESTERE TERMOPLASTICO - THERMOPLASTIC POLYESTER
RINFORZO - REINFORCEMENT	2 STRATI DI FIBRA SINTETICA
COPERTURA - COVER	POLIURETANO MICROFORATO - PIN PRICKED POLYURETANE
TEMPERATURA DI SERVIZIO - SERVICE TEMPERATURE	-40°C +93°C
NOTE	DIMENSIONI RELATIVE AI TUBI SINGOLI - SINGLE HOSE DIMENSION

R7B



CODART	DN_P	DN_mm	DI	DR	DE	WP_bar	BP_bar	P_kg/mt	Rc_mm
R7B-03	3/16"	5	5,0	-	9,3	220	880	0,14	26
R7B-04	1/4"	6	6,6	-	12,5	215	860	0,20	30
R7B-05	5/16"	8	8,0	-	14,3	195	780	0,28	40
R7B-06	3/8"	10	9,7	-	16,5	190	750	0,34	70
R7B-08	1/2"	12	13,0	-	20,5	170	630	0,48	90

NORME - NORMS 1)	SAE100 R8
NORME - NORMS 2)	ISO3949.2
SOTTOSTRATO - CORE	POLIESTERE TERMOPLASTICO - THERMOPLASTIC POLYESTER
RINFORZO - REINFORCEMENT	2 - STRATI DI FIBRA ARAMIDICA - ARAMIDIC LAYERS
COPERTURA - COVER	POLIURETANO MICROFORATO - PIN PRICKED POLYURETANE
TEMPERATURA DI SERVIZIO - SERVICE TEMPERATURE	-40°C +100°C
NOTE	DIMENSIONI RELATIVE AI TUBI SINGOLI - SINGLE HOSE DIMENSION

R8B



CODART	DN_P	DN_mm	DI	DR	DE	WP_bar	BP_bar	P_kg/mt	Rc_mm
R8B-03	3/16"	5	5,0	-	9,3	350	1400	0,14	10
R8B-04	1/4"	6	6,6	-	12,5	350	1400	0,20	12
R8B-05	5/16"	8	8,0	-	14,3	338	1352	0,28	18
R8B-06	3/8"	10	9,7	-	16,5	280	1120	0,34	30
R8B-08	1/2"	12	13,0	-	20,5	245	980	0,48	40

NORME - NORMS 1)	MC-20-01-
NORME - NORMS 2)	
SOTTOSTRATO - CORE	POLIESTERE TERMOPLASTICO - THERMOPLASTIC POLYESTER
RINFORZO - REINFORCEMENT	1 - STRATO FILO ACCIAIO - STEEL WIRE
COPERTURA - COVER	POLIURETANO MICROFORATO - PIN PRICKED POLYURETANE
TEMPERATURA DI SERVIZIO - SERVICE TEMPERATURE	-40°C +100°C
NOTE	DIMENSIONI RELATIVE AI TUBI SINGOLI - SINGLE HOSE DIMENSION

T1DB

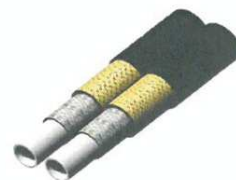


CODART	DN_P	DN_mm	DI	DR	DE	WP_bar	BP_bar	P_kg/mt	Rc_mm
T1DB-03	3/16"	5	5,0	-	9,5	293	1172	0,13	35
T1DB-04	1/4"	6	6,5	-	12,0	287	1148	0,17	40
T1DB-05	5/16"	8	8,0	-	13,0	217	868	0,17	50
T1DB-06	3/8"	10	9,7	-	15,5	212	848	0,24	60
T1DB-08	1/2"	12	13,0	-	18,6	185	740	0,29	80

TUBI FLESSIBILI - HOSES

NORME - NORMS 1)	MC-20-01-
NORME - NORMS 2)	
SOTTOSTRATO - CORE	POLIESTERE TERMOPLASTICO
RINFORZO - REINFORCEMENT	1 STRATO DI FIBRA ARAMIDICA + 1 STRATO FILO ACCIAIO
COPERTURA - COVER	POLIURETANO MICROFORATO - PIN PRICKED POLYURETANE
TEMPERATURA DI SERVIZIO - SERVICE TEMPERATURE	-40°C + 93°C
NOTE	DIMENSIONI RELATIVE AI TUBI SINGOLI - SINGLE HOSE DIMENSION

FK100B



CODART	DN_P	DN_mm	DI	DR	DE	WP_bar	BP_bar	P_kg/mt	Rc_mm
FK100B-04	1/4"	6	6,6	-	13,2	500	2000	0,20	40
FK100B-05	5/16"	8	8,0	-	15,2	450	1800	0,24	50
FK100B-06	3/8"	10	9,8	-	18,5	425	1700	0,31	80
FK100B-08	1/2"	12	13,0	-	21,5	350	1400	0,38	90

NORME - NORMS 1)	F-H-20-06-10-01
NORME - NORMS 2)	
SOTTOSTRATO - CORE	POLIESTERE TERMOPLASTICO
RINFORZO - REINFORCEMENT	FIBRA ARAMIDICA - ARAMIDIC LAYER
COPERTURA - COVER	POLIURETANO MICROFORATO - PIN PRICKED POLYURETANE
TEMPERATURA DI SERVIZIO - SERVICE TEMPERATURE	-40°C + 93°C
NOTE	

MICRO



CODART	DN_P	DN_mm	DI	DR	DE	WP_bar	BP_bar	P_kg/mt	Rc_mm
MICROTUBO 2X5	1/16"	2	2,0	-	5,0	640	2000	-	15

NORME - NORMS 1)	NFE 49.100.
NORME - NORMS 2)	
SOTTOSTRATO - CORE	POLIAMMIDE
RINFORZO - REINFORCEMENT	
COPERTURA - COVER	
TEMPERATURA DI SERVIZIO - SERVICE TEMPERATURE	-20°C + 80°C
NOTE	PER TRASMISSIONI PNEUMATICHE - FOR PNEUMATIC LINES

RILSAN



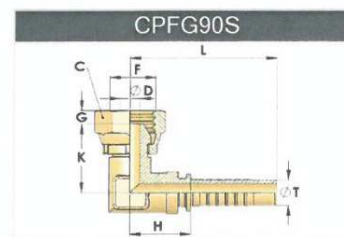
CODART	DN_P	DN_mm	DI	DR	DE	WP_bar	BP_bar	P_kg/mt	Rc_mm
RILSAN-2X4			2,0	-	4,0	15	60		25
RILSAN-4X6			4,0	-	6,0	15	60		35
RILSAN-6X8			6,0	-	8,0	15	60		55
RILSAN-8X10			8,0	-	10,0	12	48		90
RILSAN-9X12			9,0	-	12,0	10	40		75

90° KRUEMMER KOMPAKTER UNIVERSAL DICHTKOPF FUER STUTZEN 60°

CODO 90° COMPACTO SERIE GAS

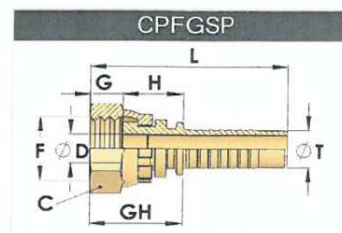
BSP 90° COMPACT ELBOW 60 BSP 90° CONE

CURVA 90° COMPATTA SEDE OGIVA 60° F. GAS



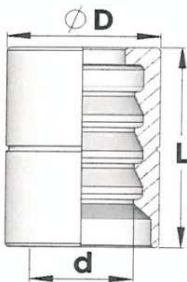
CODART	T	DN	F	NF	C	H	L	G	D	K	GH	N	
CP0304FG90S	3/16"	5	1/4"	19	19	0	0	0	0	0	0	*	
CP0404FG90S	1/4"	6	1/4"	19	19	15,5	44	4	4	22	0		
CP0406FG90S	1/4"	6	3/8"	19	22	25	52	6	7	24	0		
CP0408FG90S	1/4"	6	1/2"	14	27	0	0	0	0	0	0	*	
CP0504FG90S	5/16"	8	1/4"	19	19	0	0	0	0	0	0	*	
CP0506FG90S	5/16"	8	3/8"	19	22	24	53	7	7,5	26	0		
CP0508FG90S	5/16"	8	1/2"	14	27	0	0	0	0	0	0	*	
CP0604FG90S	3/8"	10	1/4"	19	19	30	60	4	5	26	0		
CP0606FG90S	3/8"	10	3/8"	19	22	25	56	6	7,5	25	0		
CP0608FG90S	3/8"	10	1/2"	14	27	0	0	0	0	0	0	*	
CP0806FG90S	1/2"	12	3/8"	19	22	0	0	0	0	0	0	*	
CP0808FG90S	1/2"	12	1/2"	14	27	22	55	5	9,5	29,5	0		
CP0810FG90S	1/2"	12	5/8"	14	28	0	0	0	0	0	0	*	
CP0812FG90S	1/2"	12	3/4"	14	32	0	0	0	0	0	0	*	
CP1010FG90S	5/8"	16	5/8"	14	28	0	0	0	0	0	0	*	
CP1012FG90S	5/8"	16	3/4"	14	32	0	0	0	0	0	0	*	
CP1208FG90S	3/4"	20	1/2"	14	27	0	0	0	0	0	0	*	
CP1212FG90S	3/4"	20	3/4"	14	32	34	75	9,5	14	56,5	0		
CP1216FG90S	3/4"	20	1"	11	40	0	0	0	0	0	0	*	
CP1612FG90S	1"	25	3/4"	14	32	0	0	0	0	0	0	*	
CP1616FG90S	1"	25	1"	11	40	0	0	0	0	0	0	*	

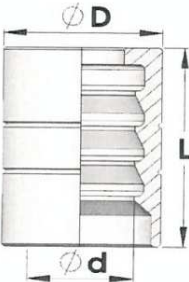
UNIVERSAL DICHTKOPF MIT FLACHEM SITZ
 TUERCA RECTA CON PLAZA PLANA GAS
 BSP FEMALE FLAT FACE
 FEMMINA DIRITTA GAS SEDE PIANA

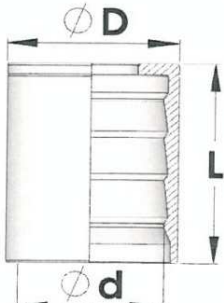


CODART	T	DN	F	NF	C	H	L	G	D	K	GH	N
CP0304FG-SP	3/16"	5	1/4"	19	19	16,8	42,5	5	5	0	21,8	
CP0404FG-SP	1/4"	6	1/4"	19	19	14,7	43	7,5	5	0	22,2	
CP0406FG-SP	1/4"	6	3/8"	19	22	17	46	10	7,5	0	27	
CP0504FG-SP	5/16"	8	1/4"	19	19	17	45,5	5	5	0	22	
CP0506FG-SP	5/16"	8	3/8"	19	22	17	46	10	7,5	0	27	
CP0508FG-SP	5/16"	8	1/2"	14	27	22,5	51	7	10	0	29,5	
CP0604FG-SP	3/8"	10	1/4"	19	19	18	48,5	5	5	0	23	
CP0606FG-SP	3/8"	10	3/8"	19	22	14,3	44,8	10	7,5	0	24,3	
CP0608FG-SP	3/8"	10	1/2"	14	27	17,5	48	11	10	0	28,5	
CP0808FG-SP	1/2"	12	1/2"	14	27	18	51	11	10	0	29	
CP0810FG-SP	1/2"	12	5/8"	14	28	20	53	12,5	12,5	0	32,5	
CP0812FG-SP	1/2"	12	3/4"	14	32	21	55	12,5	15,5	0	33,5	
CP1010FG-SP	5/8"	16	5/8"	14	28	20	56	13,5	12,5	0	33,5	
CP1012FG-SP	5/8"	16	3/4"	14	32	18,4	54,4	12,5	15,5	0	30,9	
CP1212FG-SP	3/4"	20	3/4"	14	32	18	59	12,5	15,5	0	30,5	
CP1216FG-SP	3/4"	20	1"	11	40	22	63	13,5	21	0	35,5	
CP1616FG-SP	1"	25	1"	11	40	23	77	13,5	21	0	36,5	
CP2020FG-SP	1.1/4"	32	1.1/4"	11	50	30	91	11	27	0	41	
CP2424FG-SP	1.1/2"	38	1.1/2"	11	55	35	106	11	33	0	46	
CP3232FG-SP	2"	50	2"	11	70	36	112	15	45	0	51	

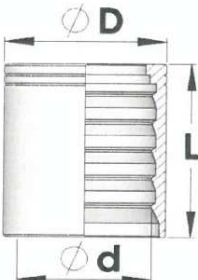
**BOCCOLE A PRESSARE - CRIMPING FERRULES - CASQUILLO - FASSUNG
RACCORDI - STD - FITTINGS**

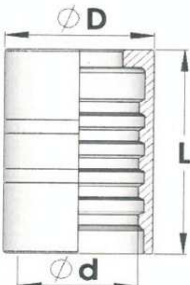
BPL	CODART	Misura Nominale Nominal Size		Dimensioni (mm) Dimensions (mm)			Applicabile a tubo Suitable for hose				Note
		INCH	DN	D	L	d	BOCCOLA A PELARE TUBI 1-2 TELE ACCIAIO SKIVING FERRULE 1-2 WIRES HOSES				
	BPL-03	3/16"	5	17,0	26,5		R1A		1ST		
	BPL-04	1/4"	6	20,0	29,5		R1A	R2K	1ST	2SC	
	BPL-05	5/16"	8	22,0	29,5		R1A	R2K	1ST	2SC	
	BPL-06	3/8"	10	24,0	32,0		R1A	R2K	1ST	2SC	
	BPL-08	1/2"	12	28,5	34,0		R1A	R2K	1ST	2SC	
	BPL-10	5/8"	16	32,0	37,0		R1A	R2K	1ST	2SC	
	BPL-12	3/4"	20	36,0	43,0		R1A	R2K	1ST	2SC	
	BPL-16	1"	25	43,0	50,0		R1A	R2K	1ST	2SC	
	BPL-20	1.1/4"	32	52,0	57,0		R1A	R2K	1ST	2SC	
	BPL-24	1.1/2"	40	57,0	63,0		R1A	R2K	1ST	2SC	
	BPL-32	2"	50	70,0	78,0		R1A	R2K	1ST	2SC	

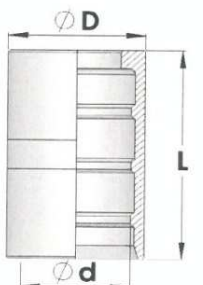
BPP	CODART	Misura Nominale Nominal Size		Dimensioni (mm) Dimensions (mm)			Applicabile a tubo Suitable for hose				Note
		INCH	DN	D	L	d	BOCCOLA A PELARE TUBI 2 TELE ACCIAIO - SKIVING FERRULE 2 WIRE HOSES				
	BPP-03	3/16"	5	20,0	27,0		R2A		2ST		
	BPP-04	1/4"	6	21,0	30,0		R2A		2ST	4SP	
	BPP-05	5/16"	8	24,0	30,7		R2A		2ST		
	BPP-06	3/8"	10	25,5	32,0		R2A	R9	2ST	4SP	
	BPP-08	1/2"	12	30,0	34,0		R2A	R9	2ST	4SP	
	BPP-10	5/8"	16	34,0	37,0		R2A		2ST	4SP	
	BPP-12	3/4"	20	38,0	43,0		R2A	R9	2ST		
	BPP-16	1"	25	46,0	50,0		R2A	R9	2ST		
	BPP-20	1.1/4"	32	56,0	59,0		R2A		2ST		
	BPP-24	1.1/2"	40	62,0	63,0		R2A		2ST		
	BPP-32	2"	50	75,0	79,0		R2A		2ST		
	BPP-40	2.1/2"	65	90,0	79,0		R2A		2ST		
	BPP-48	3"	75	104,0	68,0		R2A		2ST		

BNS-1	CODART	Misura Nominale Nominal Size		Dimensioni (mm) Dimensions (mm)			Applicabile a tubo Suitable for hose		Note
		INCH	DN	D	L	d	BOCCOLA NON PELARE TUBI 1 TELA ACCIAIO - NO SKIVING FERRULE 1 WIRE HOSES		
	BNS-103	3/16"	5	19,0	26,0		R1AT	1SN	
	BNS-104	1/4"	6	20,0	30,5		R1AT	1SN	
	BNS-105	5/16"	8	22,0	31,0		R1AT	1SN	
	BNS-106	3/8"	10	24,0	31,5		R1AT	1SN	
	BNS-108	1/2"	12	28,5	34,0		R1AT	1SN	
	BNS-110	5/8"	16	32,0	37,0		R1AT	1SN	
	BNS-112	3/4"	20	36,0	42,5		R1AT	1SN	
	BNS-116	1"	25	43,0	50,0		R1AT	1SN	
	BNS-120	1.1/4"	32	53,0	59,2		R1AT	1SN	
	BNS-124	1.1/2"	40	60,0	66,0		R1AT	1SN	
	BNS-132	2"	50	78,0	72,0		R1AT	1SN	
	BNS-140	2.1/2"	65	92,0	79,0		R1AT	1SN	
BNS-148	3"	75	106,0	69,0		R1AT	1SN		

**BOCCOLE A PRESSARE - CRIMPING FERRULES - CASQUILLO - FASSUNG
RACCORDI - STD - FITTINGS**

BNS-2	CODART	Misura Nominale Nominal Size		Dimensioni (mm) Dimensions (mm)			Applicabile a tubo Suitable for hose		Note
		INCH	DN	D	L	d	BOCCOLA NON PELARE TUBI 2 TELE ACCIAIO - NO SKIVING FERRULE 2 WIRE HOSES		
	BNS-203	3/16"	5	21,0	26,0		R2AT	2SN	
	BNS-204	1/4"	6	22,0	30,5		R2AT	2SN	
	BNS-205	5/16"	8	24,0	30,5		R2AT	2SN	
	BNS-206	3/8"	10	25,5	31,5		R2AT	2SN	
	BNS-208	1/2"	12	30,0	34,0		R2AT	2SN	
	BNS-210	5/8"	16	34,0	37,0		R2AT	2SN	
	BNS-212	3/4"	20	38,0	42,5		R2AT	2SN	
	BNS-216	1"	25	46,0	50,0		R2AT	2SN	
	BNS-220	1.1/4"	32	56,0	59,0		R2AT	2SN	
	BNS-224	1.1/2"	40	62,0	66,0		R2AT	2SN	
BNS-232	2"	50	80,0	72,0		R2AT	2SN		

BP3	CODART	Misura Nominale Nominal Size		Dimensioni (mm) Dimensions (mm)			Applicabile a tubo Suitable for hose				Note
		INCH	DN	D	L	d	BOCCOLA NON PELARE TUBI TESSILI - NO SKIVING FERRULE TEXTILE HOSES				
	BP3-03	3/16"	5	20,0	16,0	15,0	R3	2TE			
	BP3-04	1/4"	6	19,0	29,0	15,2	R3	2TE			
	BP3-05	5/16"	8	22,0	30,0	18,4	R3	2TE	3TE		
	BP3-06	3/8"	10	24,0	32,0	19,9	R3	2TE	3TE		
	BP3-08	1/2"	12	28,5	34,0	24,7	R3		3TE		
	BP3-10	5/8"	16	34,0	36,0	27,9	R3	2TE	3TE		
	BP3-12	3/4"	20	38,0	40,0	32,6	R3		3TE		
	BP3-16	1"	25	46,0	50,0	39,5	R3	2TE	3TE		
	BP3-20	1.1/4"	32	52,0	57,0	46,0	R3		3TE		
	BP3-08L	1/2"	12	30,0	34,0	24,7	R3				

BP7	CODART	Misura Nominale Nominal Size		Dimensioni (mm) Dimensions (mm)			Applicabile a tubo Suitable for hose				Note
		INCH	DN	D	L	d	BOCCOLA NON PELARE TUBI TERMOPLASTICI - NO SKIVING FERRULE THERMOPLAST HOSES				
	BP7-02	1/8"	4	11,0	17,0			R7			
	BP7-03	3/16"	5	13,0	27,0	10,5		1SC	R7	T1D	
	BP7-04	1/4"	6	17,0	29,0	13,5	R1K	1SC	R7	T1D	
	BP7-05	5/16"	8	19,0	30,0	15,2	R1K	1SC	R7	T1D	
	BP7-06	3/8"	10	21,0	31,0	16,8	R1K	1SC	R7	T1D	
	BP7-08	1/2"	12	25,5	34,0	20,8	R1K	1SC	R7	T1D	
	BP7-10	5/8"	16	28,5	36,0	24,0	R1K	1SC	R7	T1D	
	BP7-12	3/4"	20	32,0	42,0	27,5	R1K	1SC	R7	T1D	
	BP7-16	1"	25	40,0	50,0	34,5	R1K	1SC	R7	T1D	
	BP7-03Z	3/16"	5	15,0	27,0	11,8	R1K	R7	R7Z	T1DZ	





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GALLI ERIO SRL

THE REEL FACTORY

Avvolgicavi Elettrici
Electric Cable Winders



Catalogo 2021

AVVOLGICAVI PER CAVI ELETTRICI DI POTENZA, DI COMANDO E DI SEGNALE

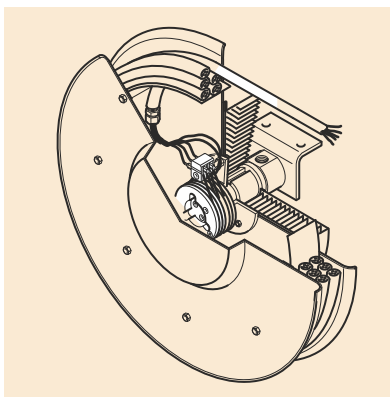
Gli avvolgicavi hanno lo scopo di trasmettere energia, comandi o segnali tra una parte fissa ad una parte mobile tramite contatti striscianti. Il riavvolgimento dei cavi è del tipo a molla.

Contatti rotanti striscianti ad anelli assiali

La parte fissa è costituita da anelli di ottone argentati isolati all'albero. La parte mobile è costituita da elettrodi di bronzo che strisciano sugli anelli fissi. Sono particolarmente adatti per comandi e per alimentare utilizzatori di piccola e media potenza in corrente continua o alternata (frequenza massima 1000 Hz). La velocità massima di rotazione è di 100 giri/minuto. Il numero di contatti è limitato solo dallo spazio assiale disponibile.

Caratteristiche elettriche dei contatti mod. 48A/10/02

- tensione max.: 48 V cc o ac
- corrente nominale: 10 A
- corrente di picco: 30 A (max. 60 sec.)
- potenza dissipata dal contatto: 0,5 W
- grado d'isolamento IP 65



CABLE WINDERS FOR ELECTRICAL POWER, COMMAND, AND SIGNAL CABLES

Cable winders are created to transmit power, commands or signals between a fixed part and a mobile part by means sliding contacts. Cable rewinding is spring-type.

SLIDING ROTATING CONTACTS WITH AXIAL RINGS

The fixed part is made of silver brass rings which are insulated and constrained to the shaft. The mobile part is comprised of bronze electrodes that slide on the fixed rings. These are especially suitable for controls and for powering users having a low or medium voltage, whether direct current (DC) or alternate current (AC) (maximum frequency of 1000 Hz). The maximum rotation speed is 100 turns/min. The number of contacts is limited only by the axial space available.

Electrical characteristics of contacts mod. 48A/10/02

- max. voltage: 48 V DC or AC
- rated current: 10 A
- peak current: 30 A (max. 60 sec.)
- power dissipated by the contact: 0,5 W
- protection degree IP 65

avvolgicavo con ritorno a molla - Cable winder with spring recovery

Modello Model	A	B	C	d	lunghezza max. avvolgibile (mm) Max. reel length (mm)	n° contatti N° contacts	Peso Weight
	Ø mm	mm	mm	mm			Kg
4.444.001	400	50	180	500	12000	2 + 12	19
4.444.002	420	50	180	510	16000	4 + 12	19,5
4.444.003	470	100	230	585	22000	2 + 16	27
4.444.004	470	100	230	585	25000	2 + 16	27,5

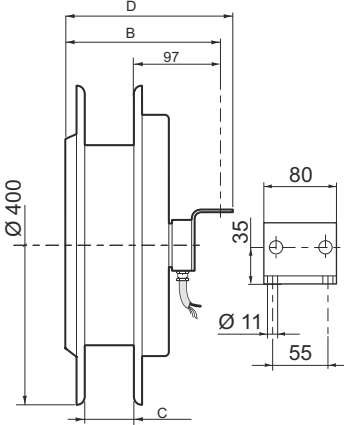
avvolgicavo con ritorno a molla - Cable winder with spring recovery

Modello Model	B	C	D	lunghezza max. avvolgibile (mm) Max. reel length (mm)	lunghezza cavo Cable length (mm)	n° contatti n° contacts	Peso Weight
	mm	mm	mm				Kg
4.128.002	148	54	163	12000	14500	2	8*
4.128.003	148	54	163	12000	14500	3	8*
4.128.004	148	54	163	12000	14500	4	8*
4.128.005	148	54	163	12000	14500	5	8*
4.128.006	148	54	163	12000	14500	6	8*
4.128.007	148	54	163	12000	14500	7	8*

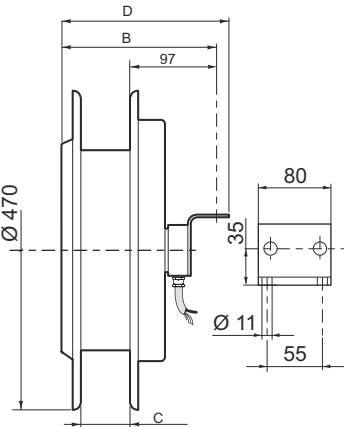
* peso senza cavo avvolto - Netto weight without cable

Per versioni speciali contattare l'ufficio tecnico del Costruttore - For special versions please refer to the Manufacturer Technical Department

avvolgicavo con ritorno a molla - Cable winder with spring recovery

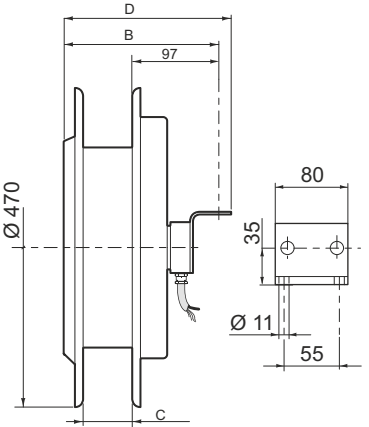
	Modello Model	B	C	D	lunghezza max. avvolgibile (mm) Max. reel length (mm)	lunghezza cavo Cable length (mm)	n° contatti n° contacts	Peso Weight Kg
	4.129.002	148	54	163	16000	17500	2	9*
	4.129.003	148	54	163	16000	17500	3	9*
	4.129.004	148	54	163	16000	17500	4	9*
	4.129.005	148	54	163	16000	17500	5	9*
	4.129.006	148	54	163	16000	17500	6	9*
	4.129.007	148	54	163	16000	17500	7	9*

* peso senza cavo avvolto - Netto weight without cable
avvolgicavo con ritorno a molla - Cable winder with spring recovery

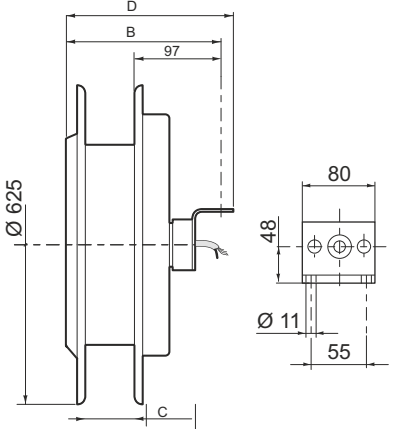
	Modello Model	B	C	D	lunghezza max. avvolgibile (mm) Max. reel length (mm)	lunghezza cavo Cable length (mm)	n° contatti n° contacts	Peso Weight Kg
	4.130.002	167	54	181	22000	23500	2	9,5*
	4.130.003	167	54	181	22000	23500	3	9,5*
	4.130.004	167	54	181	22000	23500	4	9,5*
	4.130.005	167	54	181	22000	23500	5	9,5*
	4.130.006	167	54	181	22000	23500	6	9,5*
	4.130.007	167	54	181	22000	23500	7	9,5*

* peso senza cavo avvolto - Netto weight without cable

avvolgicavo con ritorno a molla - Cable winder with spring recovery

	Modello Model	B	C	D	lunghezza max. avvolgibile (mm) Max. reel length (mm)	lunghezza cavo Cable length (mm)	n° contatti n° contacts	Peso Weight Kg
	4.131.002	167	54	181	25000	27000	2	11*
	4.131.003	167	54	181	25000	27000	3	11*
	4.131.004	167	54	181	25000	27000	4	11*
	4.131.005	167	54	181	25000	27000	5	11*
	4.131.006	167	54	181	25000	27000	6	11*
	4.131.007	167	54	181	25000	27000	7	11*
	4.131.008	212	100	237	25000	27000	8+ 12	13,5*

* peso senza cavo avvolto - Netto weight without cable
avvolgicavo con ritorno a molla -Cable winder with spring recovery

	Modello Model	B	C	D	lunghezza max. avvolgibile (mm) Max. reel length (mm)	lunghezza cavo Cable length (mm)	n° contatti n° contacts	Peso Weight Kg
	4.136.007	198	114	210	32000	37000	7	24*
	4.136.008	198	114	210	32000	37000	8	24*
	4.136.010	198	114	210	32000	37000	10	24*
	4.136.012	198	114	210	32000	37000	12	24*

* peso senza cavo avvolto - Netto weight without cable

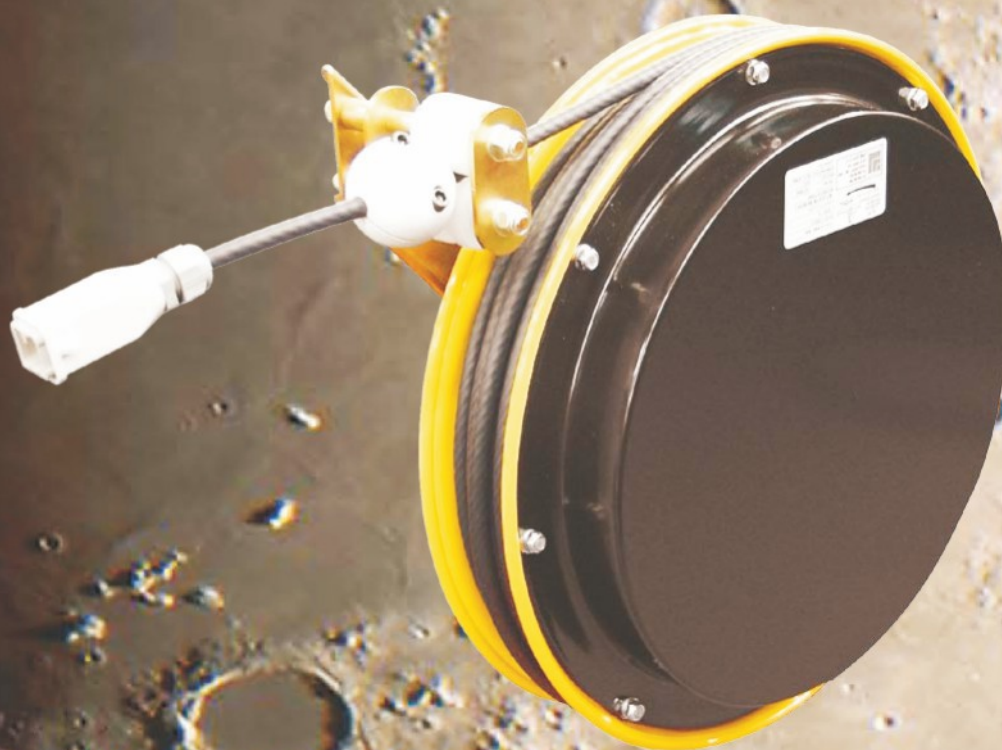
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= UNI EN ISO 9001:2000 =**