



# Conveyor Components

Issue 16

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## The company

Rexnord is a global company supplying many industries with power transmission and conveying components. The product offering ranges from roller chains, couplings and geared products to conveyor chains, belts and components.

The head office is based in the United States, with several divisions all over the world. The Rexnord FlatTop division is manufacturing conveyor chains, belts and components.

Rexnord is fully committed to meet customer expectations; huge knowledge of the business reduces maintenance costs, eliminates redundant inventories and prevents downtime, all in close co-operation with OEMs and end users. This is a result of Rexnord's focus on product development, application engineering, operations and customer service.

Rexnord FlatTop Europe represents 3 strong brands: Rexnord, MCC and Marbett.

With production facilities in 's-Gravenzande and Correggio, sales offices in The Netherlands and Italy, a large sales group for local service in many countries and distributors all over the world, Rexnord is always close to its customers. In this way a fast and reliable delivery is guaranteed.

Rexnord chains and belts are being used to convey a wide variety of products: bottles, cans, boxes, crates, tires, loose food, glass jars, PET containers, trays; shortly every transport in production halls in virtually any industry.

The product range has been split up over two catalogues, one for Rexnord/MCC Table Top/MatTop chains and one for Marbett conveyor components.

## The industries served

As the handling specialist in the field of conveying, the Rexnord product portfolio is providing solutions for complete lines in several industries in order to improve productivity.

In beverage industry palletizers, depalletizers, washers, labelers, fillers, pasteurizers, inliners, outfeeds, elevators and accumulation tables are equipped with slatband chains, curves, sprockets, belts, bearings, leveling elements and many more conveyor components.



For the container manufacturing industry special products and materials are available, such as abrasion resistant polyamide for glass plants, vacuum chains for can making and gripper chains for vertical transport.

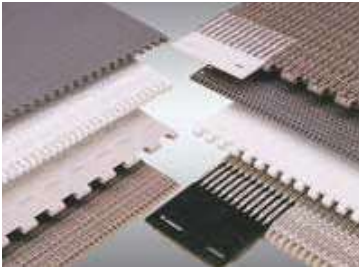


A wide range of products is also offered for blanchers, cookers, washers, coolers and processing lines in fruit, vegetables, bakery, confectionary etc. And many more products are available for the handling of packed food.



In automotive industry the products are engineered to meet the most demanding applications, such as rubber processing and tire handling.

This is just a short selection of the applications in which Rexnord products are being used. Among others they have also found their way into pharmaceutical production lines, battery manufacture, paper and cardboard production.



## Rexnord and MCC TableTop chains and MatTop belts

The product line can be split up into:



- **Steel slatband chains**  
In various materials ranging from carbon steel to special stainless steel with better wear and sliding properties; types straight running, sideflexing tab, bevel and Magnetflex, with and without rubber top.

- **Plastic slatband chains**

Wide range of materials and various executions; single hinge, double hinge, heavy duty, vacuum, lbp rollers and rubber top.



- **Plate Top and Gripper chains**  
Based on the Rexnord roller chains in both stainless and carbon steel; Plate Top chains have steel or plastic top plates; Gripper chains have different types of rubber inserts.

- **Case conveyor and Multiflex chains**  
Different types of acetal for both straight running and sideflexing transport of products varying from heavy crates to small juice packs.

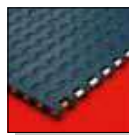


- **Curves**  
Magnetflex, Tab and bevel, as well as straight tracks to support the chain in all parts of the line; there are many standard versions besides the ability to make any special curve needed

in your applications with short delivery times.

- **Modular belts**

Pitches differ from 0.5 to 2.25 inch to suit any application. Most series have both closed and open top executions; some also available with rubber top for inclined conveying.



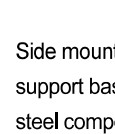
## Marbett conveyor components

The product line can be split up into:

- **Chain guide components**  
Profiles, corner tracks, straight tracks, return rollers, serpentine, plugs for connections.



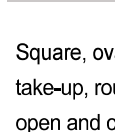
- **Product handling components**  
Guide rails, roller guides, guide rail clamps, guide rail brackets and connecting clamps in plastic or stainless steel.



- **Frame support components**  
Side mounting top brackets, bearing heads, support bases and connecting joints, stainless steel components.



- **Supporting and leveling elements**  
Different versions in steel and plastic, articulated and fixed, with and without gripper bottom and vibration absorbing feet.



- **Self-aligning bearings**  
Square, oval, pillow block, side flange, take-up, round, and other executions, all with open and closed unit. Lubricated for life versions are also available.



- **Miscellaneous components** Line control elements, hinges, locks, knobs, modular transfer roller plates, rollers, tensioners, nozzles, cable carriage chains, shaft collars and nose-over bars.

## **CHAIN GUIDE COMPONENTS**

Chain Guide Profiles Page S002

Roller Guides for Chain Return Page S027

Serpentine Guides for Chain Return Page S036

Plugs for Connection Page S042



## **PRODUCT HANDLING COMPONENTS**

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Guide-Rail Brackets Page S102

Connecting Clamps Page S118





## FRAME SUPPORT COMPONENTS

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## MISCELLANEOUS COMPONENTS

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- Hinges Page S140
- Locks Page S142
- Tightening Elements Page S143
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## TECHNICAL INFORMATION

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## Line Control Elements



**Part. S0342** - Pag. S136  
Assembly kit for photocells or sensors



**Part. S0341** - Pag. S136  
Assembly kit for photocells or sensors



**Part. S0372** - Pag. S138  
Universal clamp for photocells or reflectors.



**Part. S0518** - Pag. S139  
Control contact lever.

## Hinges and Locks



**Part. S0337** - Pag. S140  
270° hinge.



**Part. S0260** - Pag. S140  
170° hinge.



**Part. S0272** - Pag. S142  
Lock.

## Tightening Elements



**Part. S0303** - Pag. S143  
Ratchet handle clamping.



**Part. S0182** - Pag. S144  
Tightening knob.



**Part. S0183** - Pag. S144  
Tightening knob.



**Part. S0185** - Pag. S145  
Tightening knob.

## Modular transfer roller plate



**Part. S0846** - Pag. S148  
End transfer module (with lip).



**Part. S0847** - Pag. S148  
End transfer module (with lip).



**Part. S0848** - Pag. S148  
End transfer module (with lip).



**Part. S0849** - Pag. S148  
End transfer module.



**Part. S0850** - Pag. S148  
Assembly bar.



**Part. S0864** - Pag. S148  
L Profile.



**Part. S0567** - Pag. S146  
End transfer module (with lip).



**Part. S0672** - Pag. S146  
End transfer module (with lip).



**Part. S0569** - Pag. S147  
End transfer module.



**Part. S0568** - Pag. S147  
Centre transfer module.



**Part. S0063-S0095**  
Pag. S083  
Roller.

**Modular  
Nose-Over  
Bar**

Part. S0905 - Pag. S150  
Dynamic "Nose-Over"  
bar standard profile.



Part. S0905 - Pag. S151  
Modular "Nose-Over"  
bar standard profile.



Part. S0905 - Pag. S151  
Modular "Nose-Over"  
bar low profile.

**Shaft  
collars**

Part. S0612 - Pag. S152  
Split shaft collar  
(with round bore).



Part. S0612 - Pag. S153  
Split shaft collar  
(with square bore).

**Winding  
Tensioners**

Part. S0075 - Pag. S154  
Winding tensioner.

**Side Guide  
Adjustment**

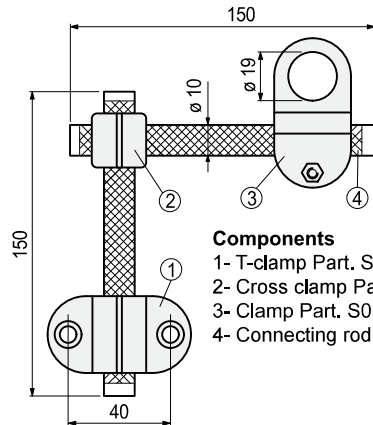
Part. S0837 - Pag. S156  
Side Guide Adjustment.



Part. **S0342**



■ Assembly kit for photocells or sensors



- Components**  
 1- T-clamp Part. S0339  
 2- Cross clamp Part. S0340  
 3- Clamp Part. S0341  
 4- Connecting rod

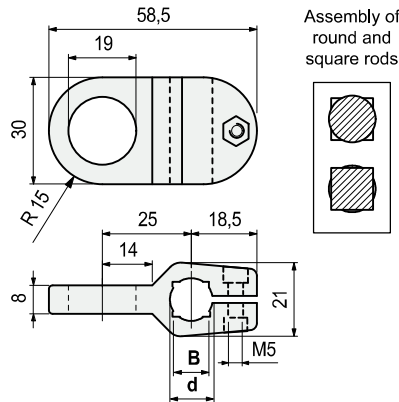
Code	Weight kg
605153N	0,14

- Material: clamps in reinforced polyamide PA FV (black), tightening bolt and connecting rods in austenitic stainless steel.
- Max recommended tightening torque : 0,5 Kgm.
- Packaging: 24 Kit.

Part. **S0341**



■ Clamp for photocells or sensors

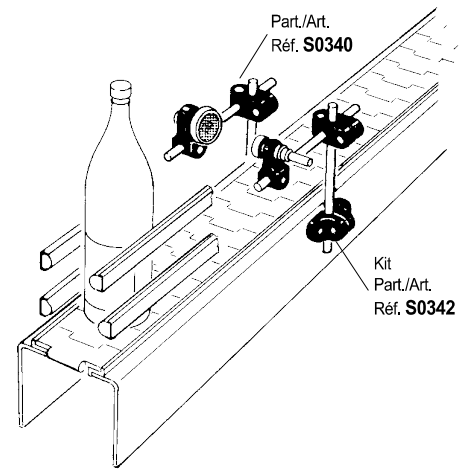


Tightening bolt material	Rod dia. d mm	Square rod B mm	Code	Weight kg
Austenitic stainless steel	12	10	68395	0,02

- Material: clamp in reinforced polyamide PA FV (black).
- Max recommended tightening torque: 0,5 Kgm.
- Packaging: 24 pieces.

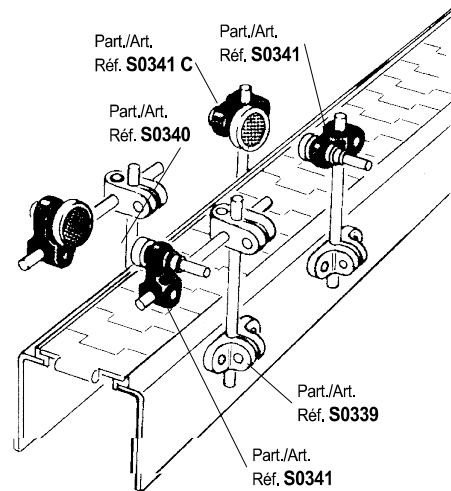
• Assembly Part. S0342

Dia. 18 mm photocells or sensors



• Assembly Part. S0341

Dia. 18 mm photocells or sensors



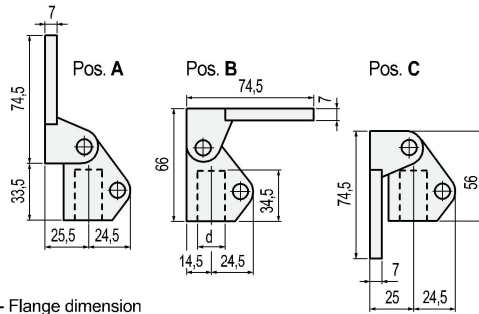


Part. **S0372**

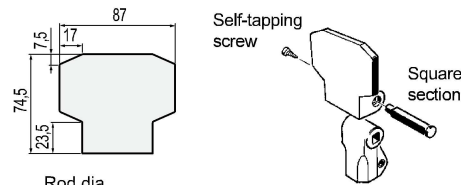


■ Universal clamp for photocells or reflectors

- Can be fitted in positions A - B - C



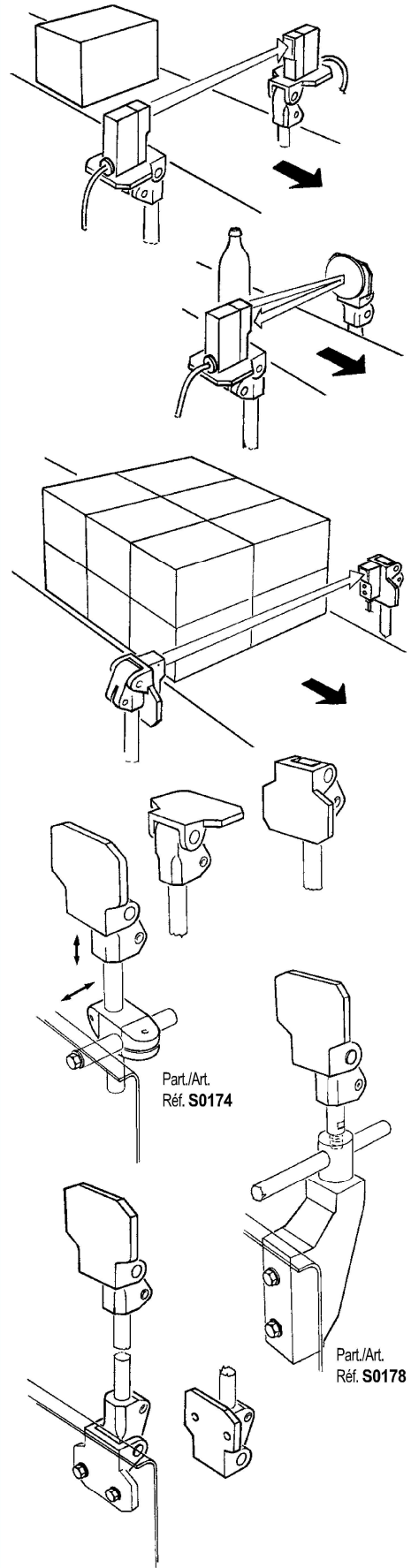
- Flange dimension



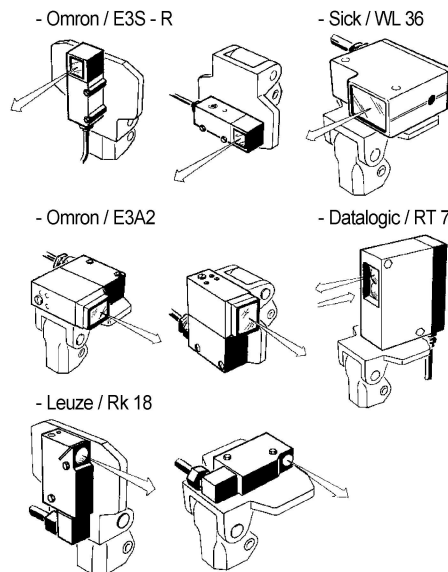
Rod dia. d mm	Code	Weight kg
14	61786	0,12
16	61806	

- Material: clamp in reinforced polyamide PA FV (black), tightening bolt in austenitic stainless steel.
- State of supply: already assembled in position A
- Max recommended tightening torque: 1,5 Kgm.
- Packaging: 24 pieces.

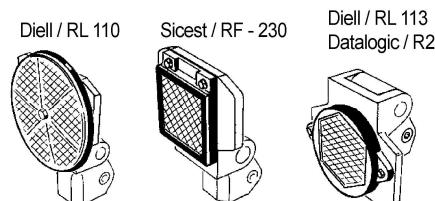
• Assembly Part. S0372



• Suitable photocell types



• Suitable reflector types



## Part. S0518

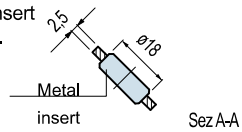
### • Use

Contact lever ideal to mechanically check the presence of products. Works in conjunction with photocells or magnetic sensor (proximity sensor).

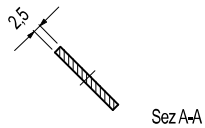
### • Versions

The control contact lever is supplied in three versions according to the type of sensor to be used.

- 1) With hole and metal insert (for magnetic sensor).

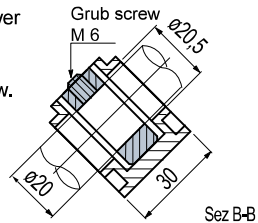


- 2) Without hole

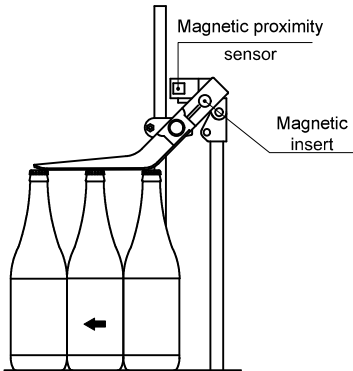


### • Assembly on the shaft.

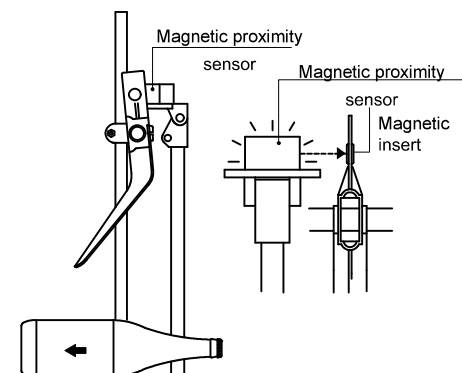
The control contact lever can be axially fixed on the shaft with a metal collar and a grub screw.



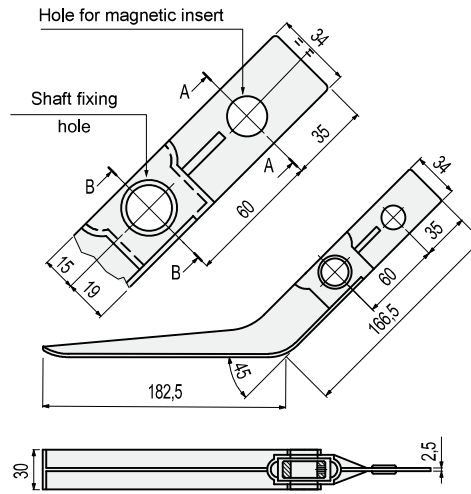
- ### • Assembly of Part. S0518 (with insert for magnetic sensor)
- In regular conditions the control contact lever is high and magnetic proximity sensor does not detect the presence of magnetic insert.



In case of problem (example bottle downing) the control contact lever lowers and magnetic sensor detects the presence of magnetic insert and stops the conveyer.



### ■ Control contact lever

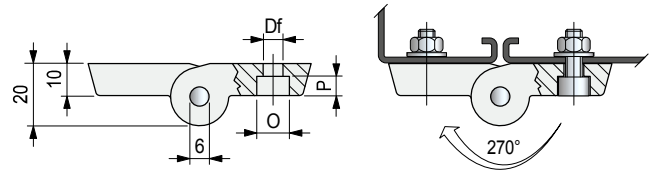
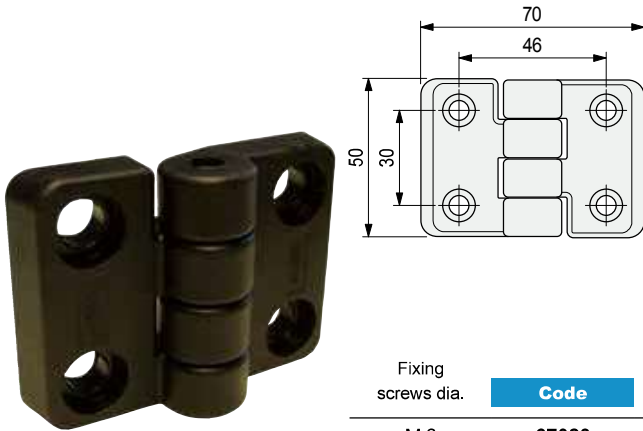


Version	Code	Weight kg
With hole and metal insert	642951N	0,1
Without hole	696021N	

- Material: lever in polypropylene (black), insert (for magnetic sensor) in ferritic stainless steel, locking spacer (for shaft fixing) in zinc plated steel.
- Packaging: 24 pieces.

Part. **S0337**

■ 270° hinge

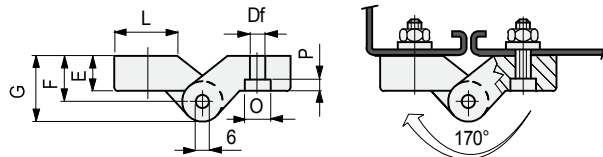
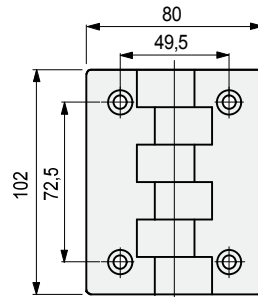


Fixing screws dia.	Code	∅ Df mm	O mm	P mm	Weight gr	Packaging No. of pieces
M 6	<b>67023</b>	6,5	10,5	6	55	24
M 8	<b>60334</b>	8,5	13,5	4		

- Material: hinge in reinforced polyamide PA FV (black). Pin in ferritic stainless steel.
- Max recommended tightening torque: 0,5 Kgm.
- Packaging: 12 pieces

Part. **S0260**

■ 170° hinge



E mm	Fixing screws dia.	Code	∅ Df mm	F mm	G mm	O mm	P mm	L mm	Weight gr	Packaging No. of pieces
11,5	M 6	<b>65021</b>	6,5	14,5	23,5	10,5	6	35	110	20

- Material: hinge in polyamide PA (black). Pin in austenitic stainless steel.
- Max recommended tightening torque: 0,5 Kgm (with M6 screws), 1 Kgm (with M8 screws).
- Packaging: 12 pieces

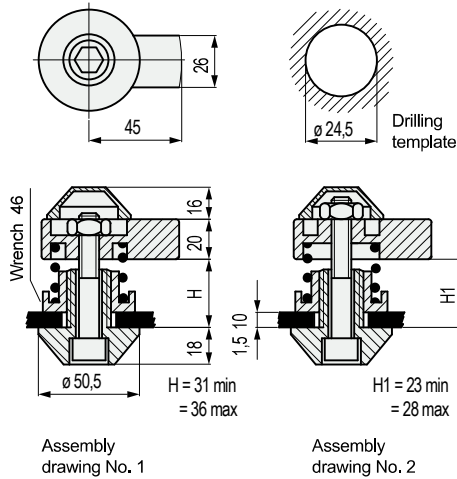




Part. **S0272**



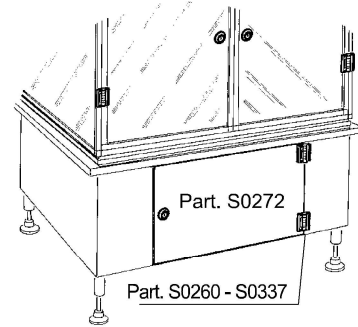
Lock



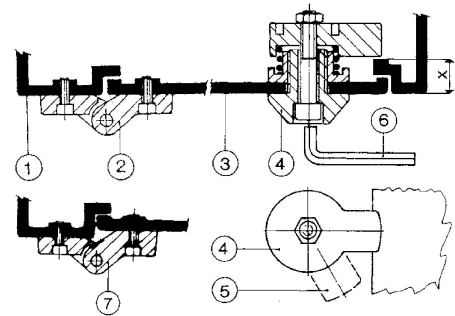
Code	Weight kg
66771	0,2

- Material: body in reinforced polyamide PA FV (black), bolts, nuts and spring in austenitic stainless steel.
- Use: closure of doors in machines for foodindustry (washing, bottling, etc).
- Packaging: 12 pieces.
- Operation with hexagonal bar 10 key.
- Key turn: 360 right or left.
- Assembly instructions:  
 Assembly lock as shown in assembly diagram 1, when the size X (Fig. 1) is suitable for assembly distance between 31 ÷ 36 mm. When X (Fig. 1) is between 23 ÷ 28 mm, follow assembly type 2.

• Assembly Part. S0272



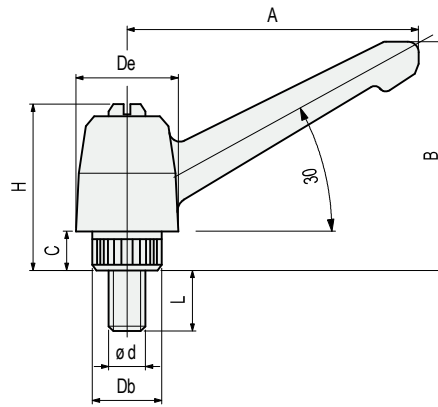
• Fig. 1



- 1 - Machine structure.
- 2 - Hinge Part. S0260 - S0337.
- 3 - Door.
- 4 - Lock Part. S0272 (in closed position).
- 5 - Lock Part. S0272 (in open position).
- 6 - Lock key (with exagonal 10 wrench).
- 7 - Hinge Part. S0260 (for misaligned mounting surfaces).

## Ratchet handle clamping

Part. **S0303**



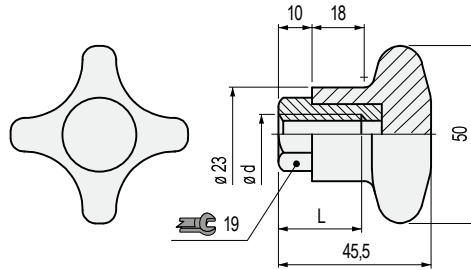
Bore dia.	A	B	C	L	H	Db	De	Code
d	mm	mm	mm	mm	mm	mm	mm	
<b>M8</b>	55	51	10	25	37	15	20	<b>60872</b>

- Material: handle in reinforced polyamide in PA FV (black), spindle in austenitic stainless steel.
- Packaging: 12 pieces.

Part. **S0182**



■ Tightening knob



Thread dia. d	Code	L mm
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**Threaded insert in austenitic stainless steel**

<b>M8</b>	<b>649961N</b>	23
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**Threaded insert in nickel plated brass**

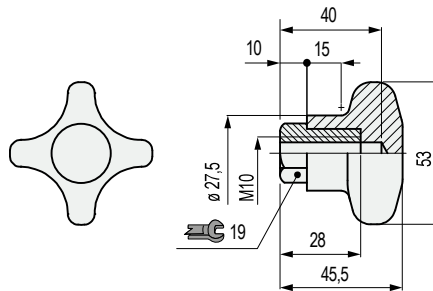
<b>M10</b>	<b>54911</b>	28
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- Material: knob in reinforced polyamide PA FV (black), threaded insert in nickel plated brass.
- Max recommended tightening torque: 2,5 Kgm (manual tightening), 4 Kgm (tightening with wrench). For high tightening torques apply a 19 mm wrench to the hexagon of the insert.
- Packaging: 12 pieces.

Part. **S0183**



■ Tightening knob



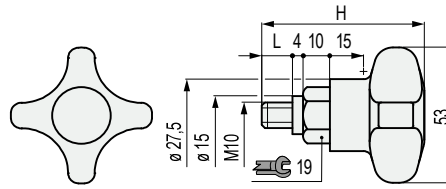
**Code**

**54921**

- Material: knob in reinforced polyamide PA FV (black), threaded insert in nickel plated brass.
- Max recommended tightening torque: 2,5 Kgm (manual tightening), 4 Kgm (tightening with wrench). For high tightening torques apply a 19 mm wrench to the hexagon of the insert.
- Packaging: 12 pieces.

## ■ Tightening knob

### Version with hexagonal key



## Part. S0185



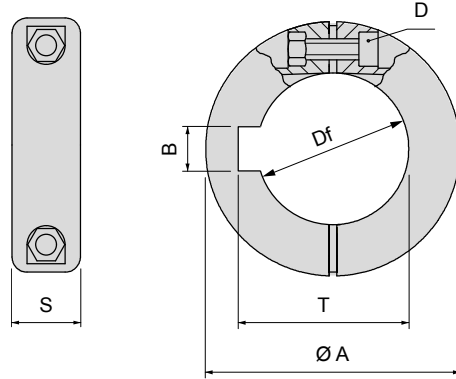
Material knob	L mm	Code	H mm
<b>Version with hexagonal key</b>			
Reinforced Polyamide PA FV (black)	11	53081	61

- Use: version with knob in reinforced Polypropylene PP FV (grey), gives a better resistance to chemical agents.
- Material: knob in reinforced polyamide PA FV (black), (threaded insert in nickel plated brass).  
With knob in reinforced Polypropylene PP FV (threaded insert in austenitic stainless steel).
- Max recommended tightening torque: 2,5 Kgm (manual tightening), 4 Kgm (tightening with wrench).  
For high tightening torques apply a 19 mm wrench to the hexagon of the insert.
- Packaging: 12 pieces.



Part. **S0612**

■ Split shaft collar (with round bore)

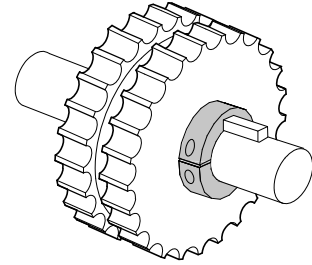


	Bore dia.	Ø A	S	B	T	D	Code	Weight
	mm	inch	mm	mm	mm	mm		kg
<b>Without seat keyway</b>								
-	1/2"	30	11,7	-	-	M4	<b>655072</b>	-
16	5/8"	35	11,7	-	-	M4	<b>655092</b>	-
-	3/4"	40	14	-	-	M4	<b>655102</b>	-
20	-	40	14	-	-	M4	<b>614722</b>	0,019
25	-	45	14	-	-	M4	<b>619452</b>	0,022
30	-	50	16	-	-	M4	<b>640602</b>	0,026
-	1 1/4"	50	16	-	-	M4	<b>608463</b>	-
-	1 1/2"	63,5	18	-	-	M5	<b>611283</b>	-
40	-	63,5	18	-	-	M5	<b>686232</b>	0,040
<b>With seat keyway</b>								
25	-	45	14	8	28,3	M4	<b>683812</b>	0,022
-	1"	45	14	6,4	28,58	M4	<b>655112</b>	-
30	-	50	16	8	33,3	M4	<b>614732</b>	0,026
-	1 1/4"	50	16	6,4	34,98	M4	<b>655122</b>	-
-	1 7/16"	63,5	18	9,58	41,02	M5	<b>605043</b>	-
-	1 1/2"	63,5	18	9,58	42,65	M5	<b>655132</b>	-
40	-	63,5	18	12	43,3	M5	<b>615012</b>	0,040

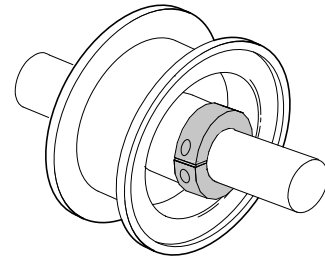
- Material: collar in reinforced polyamide PA FV (black), tightening bolt in austenitic stainless steel.
- Max recommended tightening torque: 0,3 Kgm.
- Packaging: 24 pieces.

• Assembly of Part. S0612 (with round bore)

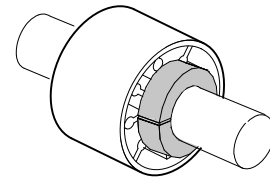
- With sprockets



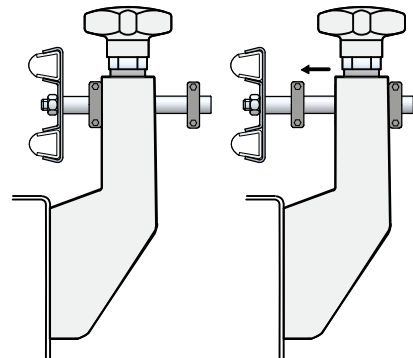
- With idler wheels



- With rollers



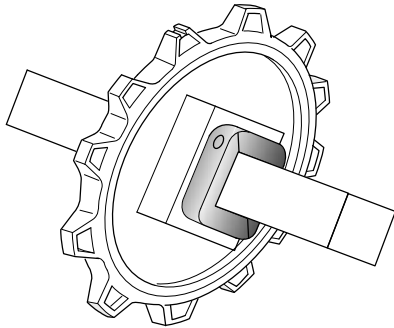
- With side brackets



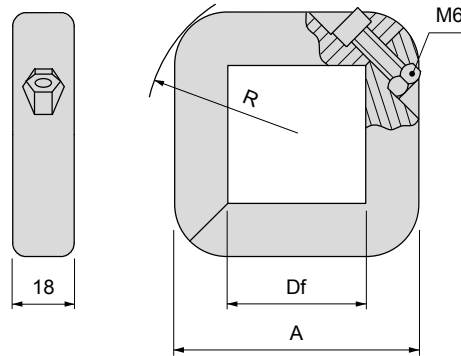
## Part. S0612

• **Assembly** Part. S0612 (with square bore)

- Ideal for the locking of MatTop® sprockets.
- Version in reinforced Polyamide PA FV, gives better resistance at high temperatures.
- Version in reinforced Polypropylene PP FV, gives better resistance against chemical agents.



■ Split shaft collar (with square bore)



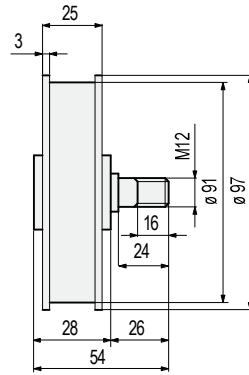
Square bore Df		Material Polyamide PA FV (black)	Code	A	R
mm	inch			mm	mm
<b>Version with metric bore</b>					
40x40	-		<b>692952</b>	72	44
<b>Version with inch bore</b>					
-	1 1/2"		<b>692942</b>	72	44
-	2 1/2"		<b>692972</b>	95	58

- Material tightening bolt: austenitic stainless steel.
- Max recommended tightening torque: 0,5 Kgm.
- Packaging: 24 pieces.

## Part. S0075



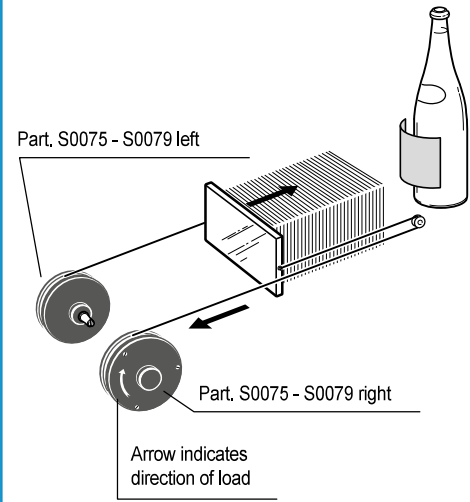
### Winding tensioner



Load gr.	Winding travel mm	Direction of travel	Code
0+4000	2500	right	672642N
		left	672652N

- Noise reduction.
- \* = Unwinding the spring, the load is almost constant 10/20% (loss of load).
- Material: pulley in reinforced polyamide PA FV (black), pin in brass.
- Packaging: 4 pieces.

### Assembly of Part. S0075





## Part. S0837

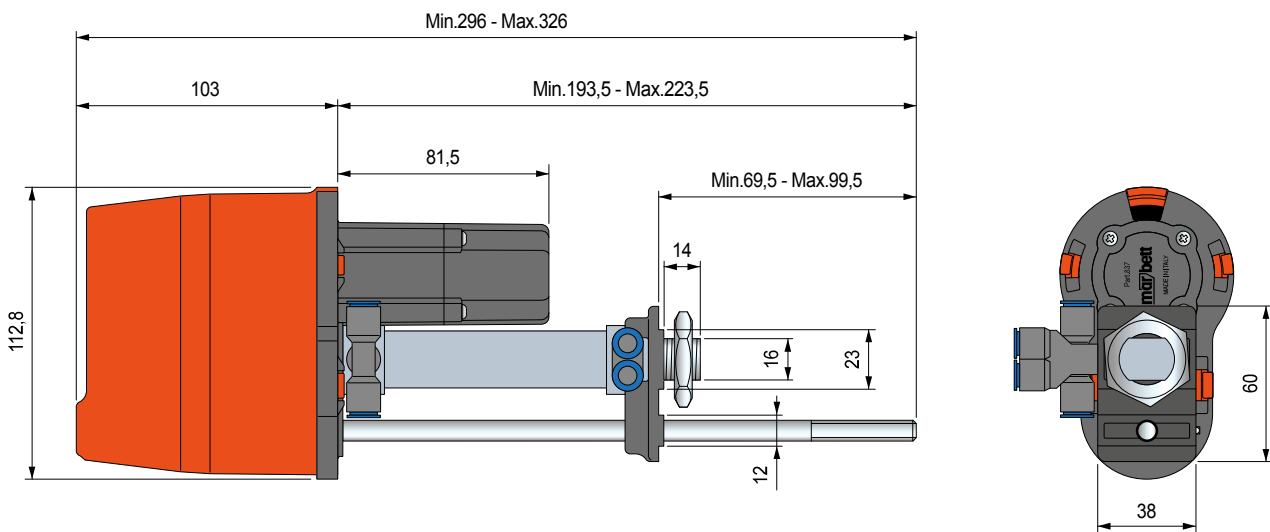
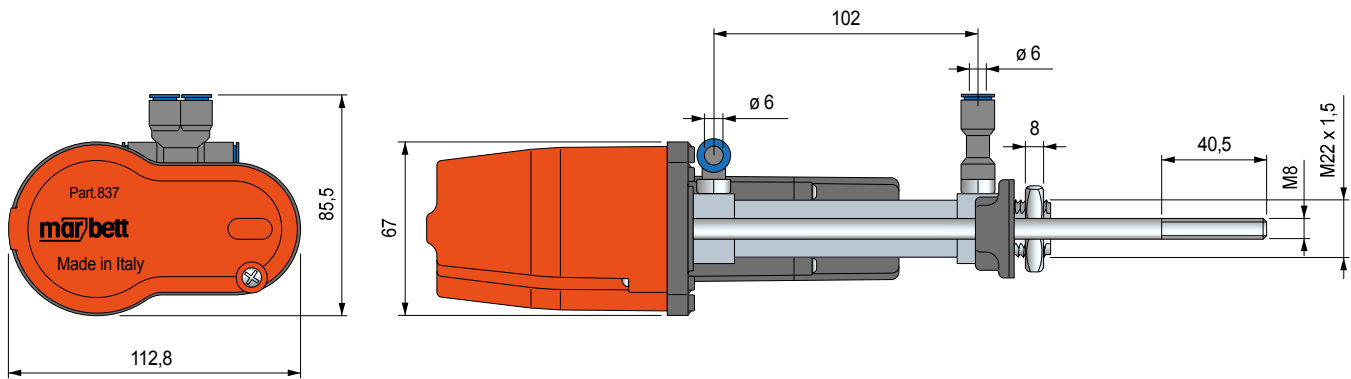
■ Technical information



**Patent Pending**

Code	Weight kg
640783	0,68

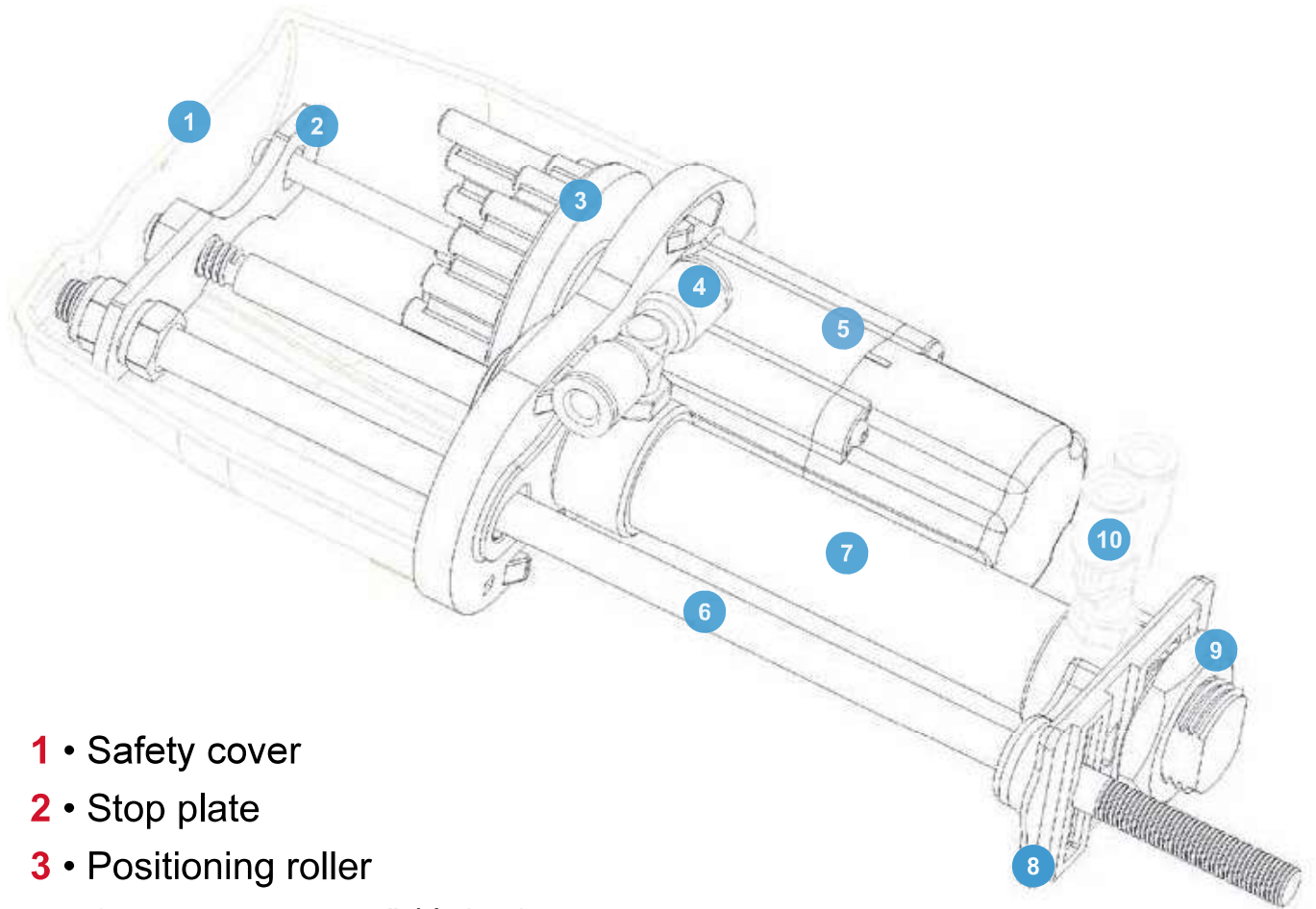
- Operating unit SGA™, on the positioning roller and fastening support in black acetalic POM.
- Safety cover in orange Polypropylene PP.
- Stop plate, rod clamp and M22 nut in stainless steel.
- Quick coupling in plastic.
- Mini-cylinder ISO 6432.
- Packaging: 4 pieces.





■ Component's description

Part. **S0837**

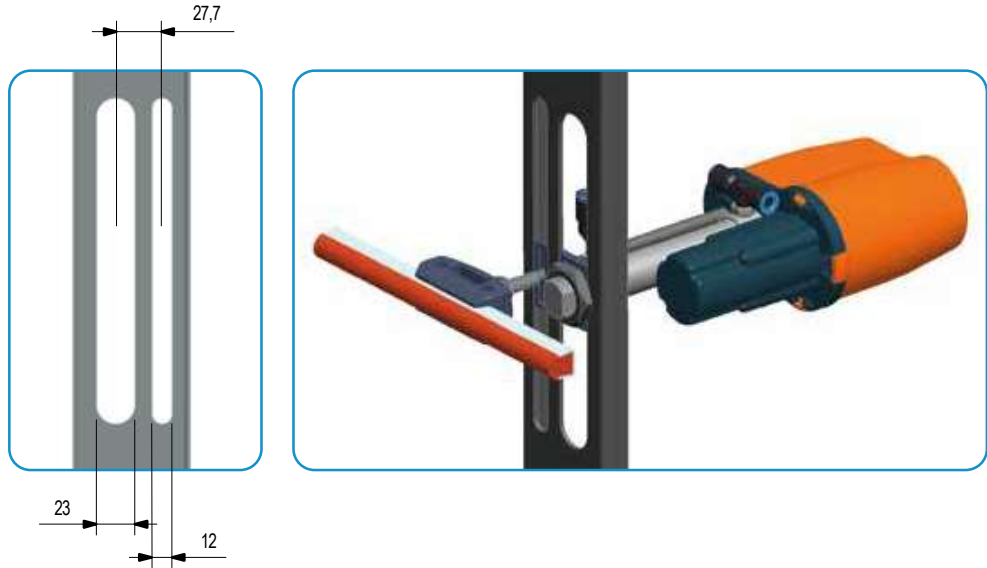


- 1 • Safety cover
- 2 • Stop plate
- 3 • Positioning roller
- 4 • Quick coupling "T" 1/8 GAS
- 5 • **SGA**™ operating unit
- 6 • Rod clamp
- 7 • Mini-cylinder ISO 6432
- 8 • Mounting support
- 9 • M22 nut
- 10 • Quick coupling "Y" 1/8 GAS

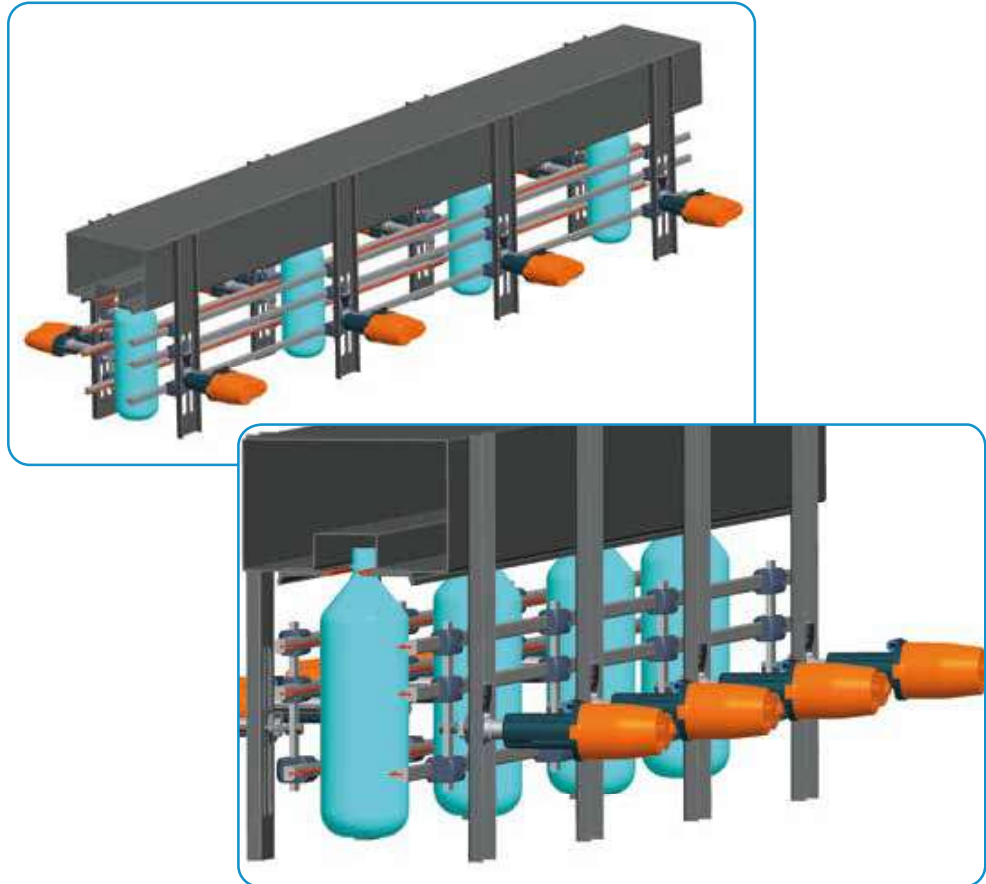
## Part. S0837

### ■ Installation on compressed air conveyors

Each unit can be assembled on bored or slotted supporting profiles, based on the sizes suggested in the figures below.



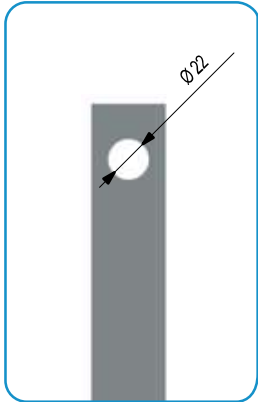
Example of installation of SGA™ system (Side Guide Adjustment™) on a compressed air conveyor. Working pressure  $\geq 4,5$  bar during adjustment.



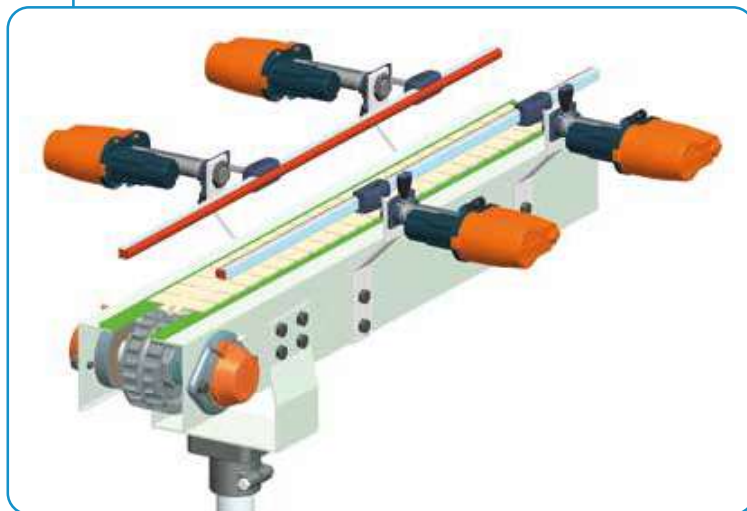
## ■ Installation on chain conveyors

Part. **S0837**

Each unit can be assembled on bored bars with holes according to the sizes indicated in the figures below.



Example of installation of SGA™ system (Side Guide Adjustment™) on a chain conveyor. Working pressure  $\geq 4,5$  bar during adjustment.

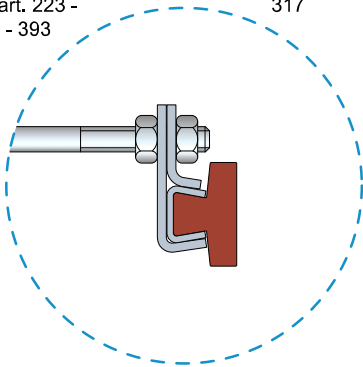


## Part. S0837

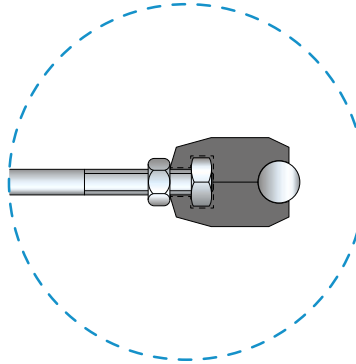
■ Technical information

Example of side guide assembly.

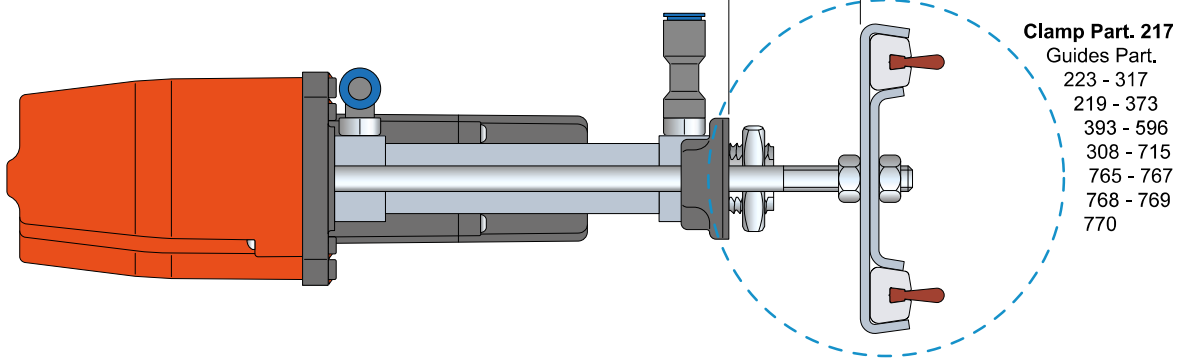
**Clamp Part. 215**  
Guides Part. 223 -  
219 - 373 - 393  
596 - 308  
715 - 765  
767 - 768  
769 - 770



**Clamp Part. 159 - 437 - 451**  
Round guides Dia. 8 - 10 - 12 - 14

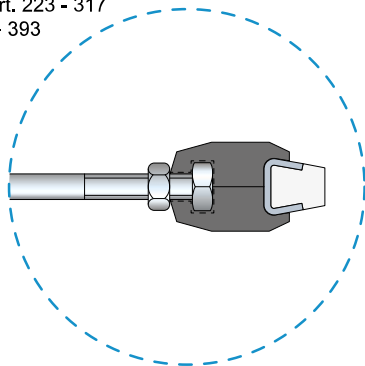


Leave min 20 mm for system movement

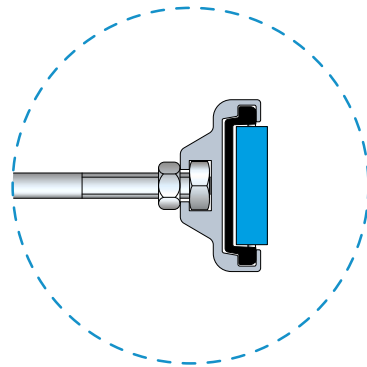


**Clamp Part. 217**  
Guides Part.  
223 - 317  
219 - 373  
393 - 596  
308 - 715  
765 - 767  
768 - 769  
770

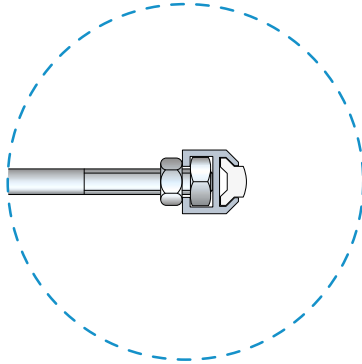
**Clamp Part. 211 - 446**  
Guides Part. 223 - 317  
219 - 373 - 393  
596 - 308  
715 - 765  
767 - 768  
769 - 770



**M8 nut UNI 5589-65**  
Guides Part. 756 - 757 - 856 - 868



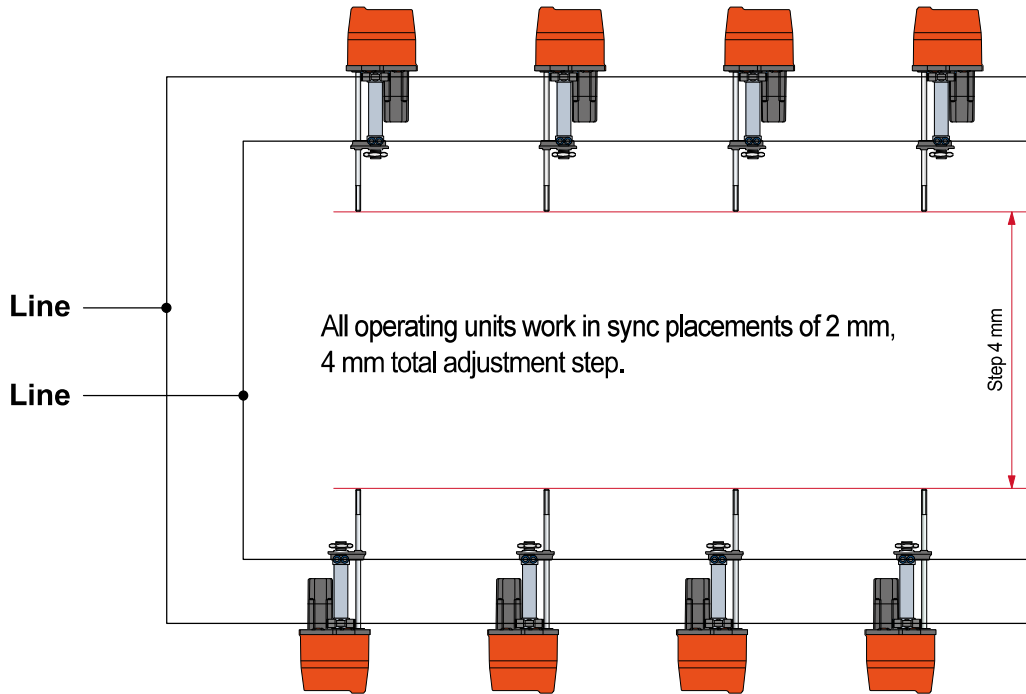
**M8 nut UNI 5589-65**  
Guides Part. 346 - 832



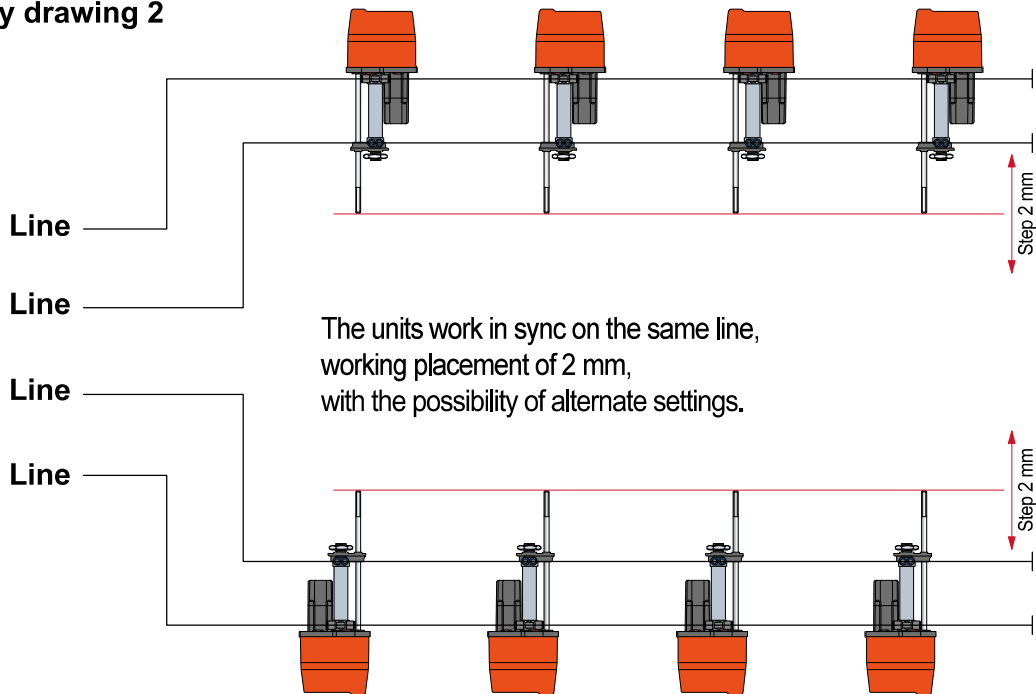
■ Technical information

Part. **S0837**

Assembly drawing 1



Assembly drawing 2







## Resistance against chemical agents

CHEMICAL AGENT	POLYAMIDE PA	POLYPROPYLENE PP	POLYETHYLENE PE	ACETAL POM	AISI 303 AISI 304	AISI 316	NICKEL PLATED BRASS	NBR RUBBER	VITON RUBBER
	Conc.% 23°C	Conc.% 23°C	Conc.% 23°C	Conc.% 23°C	Conc.% 23°C	Conc.% 23°C	Conc.% 23°C	Conc.% 23°C	Conc.% 23°C
PHENOL	-	+			10 +	+		-	+
PHOSFORIC ACID	10 -	85 +	95 +	10 -	10 -	50 /	-	20 /	85 +
POTASSIUM HYDROXIDE	10 +				50 +	50 +		/	+
SEA WATER	+	+	+	/	+	+	+	+	+
SILICONE OIL	+	+						+	+
SILVER NITRATE	+	20 +			60 /			/	+
SOAP AND WATER	+	+	+	+	+			+	
SODIUM CARBONATE	10 +	Sat. +	+	+	5 +	100 +		+	+
SODIUM CHLORIDE	10 +	Sat. +	+	+	5 +	/	+	+	Sat. +
SODIUM HYDROXIDE	10 +	30 +	+	10 +	-		+	/	
SODIUM HYPOCHLORITE	+	20 +	+	-	-			-	5 +
SODIUM SILICATE	+				100 +	100 +		+	
SODIUM SULPHATE	10 +	Sat. +	+	+	5 +	100 +		+	+
SOFT DRINKS	+	+	+	+	+		+	+	
SUDS	+	+						+	+
SULPHURIC ACID	10 -	98 +	40 /	40 -	10 -	100 +	+	-	95 +
TARTARIC ACID	+	10 +	+	30 /	10 +	50 +	-	+	+
TETRALINE	+	-						-	+
TINCTURE OF IODINE	-	+	+	+			-	/	
TRANSFORMER OIL	+	/						+	+
TRICHLOROETHYLENE	/	/	+	-	+		+	-	+
TURPENTINE	/	-	-	-	+			-	
VASELINE	+	+	/	+				+	+
VEGETABLE JUICES	+	+	+	+	+			+	
VEGETABLE OILS	+	+	+	+	+			+	
VINEGAR	+	+	+	+	+		+	/	-
WHISKY	+	+	+	+	+		+	+	+
WINE	+	+	+	+	+		+	+	+
XILOL	+	-	/	+	+		/	-	+
ZINC CHLORIDE	10 /	20 +			10 -	/		+	Sat. +

Abbreviations: Sat. = saturated.

### Legend..

- + = Good resistance.
  - / = Fairly good resistance (limited use depending on working conditions).
  - = Poor resistance (not recommended).
- N.B. Where tests have not been carried out the spaces are left blank.

### The data shown in this table..

are taken from laboratory tests, performed on unstrained test samples. It should be considered as purely indicative since material behaviour under real working conditions depends on different factors: temperature, concentration of the chemical agent, quick or long-lasting effect of the chemical agent.

### Operating temperatures

Material	Description	Operating temperatures (°C)		
		Min	Max	Max
PA	Polyamid	0	+ 80	+ 65
PA FV	Reinforced polyamid	- 5	+ 120	+ 100
PP	Polypropylene	+ 5	+ 105	+ 105
PP FV	Reinforced polypropylene	+ 5	+ 115	+ 115
PE (UHMWPE)	Polyethylene	- 40	+ 80	+ 70
POM	Acetal	- 40	+ 80	+ 65
Rex-LF®	Acetal	- 40	+ 80	+ 65
AISI 303 - AISI 304	Austenitic stainless steel (18/8)	- 70	+ 430	+ 120
Fe Zn	Zinc plated steel	- 40	+ 180	-
OT	Nickel plated brass	- 40	+ 180	+ 120

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