

Selection table

	Identification	Characteristics	Working temperature	Details	Illustration	
Standard tensioner devices	SE Standard component	Steel parts with blue lacquering. Rubber quality Rubmix 10.	Housing and inner core made out of steel.	-40° to +80 °C	Page 6	
	SE-G Oil resistant	Steel parts galvanized. Rubber quality Rubmix 20. Marked with yellow dot.		-30° to +90 °C	Page 6	
	SE-W Heat resistant	Steel parts with blue lacquering. Rubber quality Rubmix 40. Marked with red dot. Tension force 40% less than SE.		+80° to +120 °C max.	Page 6	
Additional tensioner devices	SE-R Reinforced lever arm	Arm and inner core especially welded for use on combustion engines and compressors. Steel parts with blue lacquering. Marked with white ring.	Housing and inner core made out of steel, inserts Rubmix 10.	-40° to +80 °C	Page 6	
	SE-I Stainless steel	For the use in food- and pharmaceutic industries. Material: GX5CrNi19-10. Exception: SE-I 40 made out of X5CrNi18-10.			Page 6	
	SE-F Front mounting-device	For installations on blind-hole frames (fixation from the front only). Steel parts with blue lacquering. Hex socket screw quality 12.9.			Page 7	
	SE-B Boomerang®	For the tensioning of very long chain- and belt-drives (triple compensation). Steel parts with blue lacquering.			Page 7	
Accessories chain drives	Sprocket wheel set N	Allows accurate positioning of relevant chain track. Ball-bearings 2Z/C3, permanently lubricated.	-40° to +100 °C	Page 8		
	Sprocket wheel N					
	Chain rider set P	For double sided use. Max. allowed chain speed 1.5 m/sec. Material: POM-H.	-40° to +100 °C	Page 9		
	Chain rider P					
Accessories belt drives	Tensioning roller R	Material: PA 6. Ball-bearings 2Z/C3, permanently lubricated.	-35° to +100 °C	Page 10		

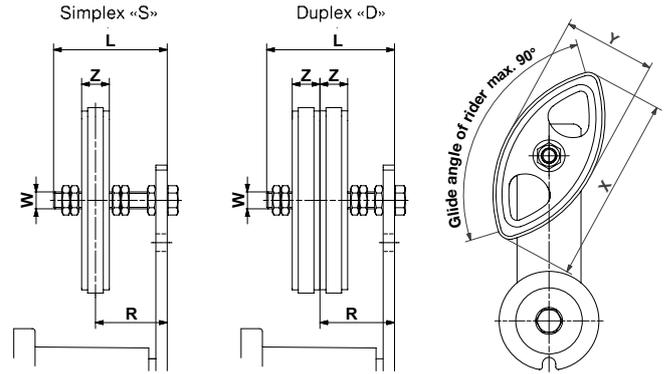
For additional information about accessories, consult pages 12–14.

Chain Drives

Chain rider set type P Chain rider type P

For an ideal positioning of the chain rider/s on the threaded rod we do recommend to position them on each side by means of two nuts, secured against each other, with some play for swivelling into working position.

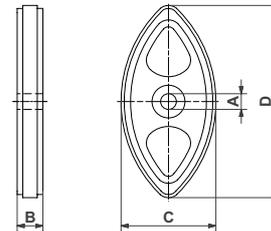
Chain rider set type P



Roller chain		Type	Art.-No.	W	L	X	Y	Z	Torque hex nut 0.5d [Nm]	Adjusting range track R	Size SE	Weight [kg]
ANSI	DIN 8187											
Simplex «S»												
35	ISO 06 B-1	P3/8"– 8 S	06 550 001	M8	45	74	37	10.2	11	19–34	11	0.05
40	ISO 08 B-1	P1/2"–10 S	06 550 002	M10	55	96	48	13.9	20	23–41	15/18	0.10
50	ISO 10 B-1	P5/8"–10 S	06 550 003	M10	55	126	63	16.6	20	24–39	18	0.12
60	ISO 12 B-1	P3/4"–12 S	06 550 004	M12	80	148	72	19.5	35	30–61	27	0.18
Duplex «D»												
35	ISO 06 B-2	P3/8"– 8 D	06 560 001	M8	45	74	37	10.2	11	25–30	11	0.07
40	ISO 08 B-2	P1/2"–10 D	06 560 002	M10	55	96	48	13.9	20	30–34	15/18	0.12
50	ISO 10 B-2	P5/8"–10 D	06 560 003	M10	70	126	63	16.6	20	34–46	18	0.17
60	ISO 12 B-2	P3/4"–12 D	06 560 004	M12	80	148	72	19.5	35	40–52	27	0.26

Chain rider type P

Roller chain		Type	Art.-No.	A ^{+0.2} ₀	B	C	D	Weight [kg]
ANSI	DIN 8187							
35	ISO 06 B	P3/8"	06 540 001	8	10.2	37	74	0.02
40	ISO 08 B	P1/2"	06 540 002	10	13.9	48	96	0.03
50	ISO 10 B	P5/8"	06 540 003	10	16.6	63	126	0.05
60	ISO 12 B	P3/4"	06 540 004	12	19.5	72	148	0.07

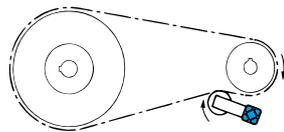


Mounting instructions for Chain Drives

See also complementary mounting instructions on page 5.

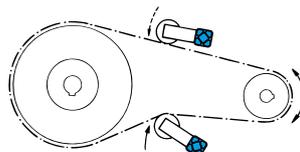
Standard positioning

The ROSTA-tensioning device should be placed on the slack-side of the chain drive, close by the smaller sprocket wheel in order to enlarge its contact-arc, therefore contact application from outer side of drive. In mounted position the tensioner-arm should stay close to parallel to the chain run, in drain direction. By extremely long chain drives it is recommendable to install several tensioners or the type «Boomerang®» in order to enlarge the slack compensation.



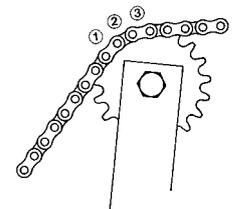
Reversible chain drive

By reversible chain transmissions it is recommendable to install a tensioner on each side of the chain-stands. Due to the alternate occurring of the slack, both tensioners should only be pre-tensioned up to max. 20°, in order to retain a reset-path of 10°, when strains are changing from slack span on working span in reversible applications.



Sprocket teeth in mesh

By the initial tensioning of the chain at least three teeth of the tensioner sprocket wheel should be in mesh with the rollers. The min. distance between sprocket wheel of the tensioner to the next sprocket wheel in the chain drive should be at least four chain-pitches.



Adjustment of chain-track

The wheel of the sprocket wheel set is adjustable according to the position of the chain drive track. The wheel is positioned between two nuts on the threaded shaft. In changing the adjustment band «R», the track of the tensioner wheel can be set according to relevant strand course. After positioning of sprocket, re-tighten the two nuts on the side. The counter-nut «B» remains always tightened.

