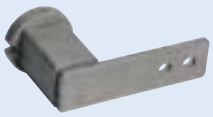
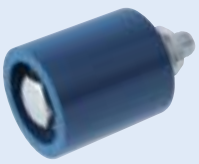
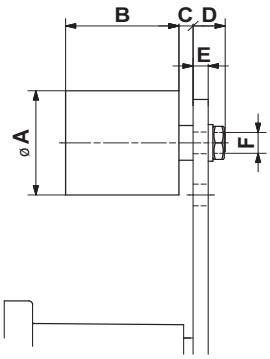
Selection table

	Identification		Characteristics		Working temperature	Details	Illustration
Standard tensioner devices	**SE**	Standard component	Steel parts ROSTA blue painted. Rubber quality Rubmix 10.	Housing and inner core made out of steel.	−40° to +80°C	Page 4.6	
	SE-G	Oil resistant	Steel parts galvanized. Rubber quality Rubmix 20. Marked with yellow dot.		−30° to +90°C	Page 4.6	
	SE-W	Heat resistant	Steel parts ROSTA blue painted. Rubber quality Rubmix 40. Marked with red dot. Tension force 40% less than SE.		+80° to +120°C max.	Page 4.6	
Additional tensioner devices	**SE-R**	Reinforced lever arm	Arm and inner core especially welded for use on combustion engines and compressors. Steel parts ROSTA blue painted. Marked with white ring.	Housing and inner core made out of steel, inserts Rubmix 10.	−40° to +80°C	Page 4.6	
	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 4.6	
	SE-F	Front mounting-device	For installations on blind-hole frames (fixation from the front only). Steel parts ROSTA blue painted. Hex socket screw quality 12.9.			Page 4.7	
	SE-B	Boomerang®	For the tensioning of very long chain and belt drives (triple compensation). Steel parts ROSTA blue painted.			Page 4.7	
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 4.8	
	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 4.9	
	Chain rider P						
Accessories belt drives	**Tensioning roller R**		Material: PA 6. Ball-bearings 2Z/C3, permanently lubricated.		−35° to +100°C	Page 4.10	

Further information to customized elements and installation examples as from page 4.12.

Accessories belt drives

Tensioning roller Type R



Type	Art. No.	Max. speed [rpm]	Max. belt width	A	B	C	D	E max.	F	Torque hex nut [Nm]	Size SE	Weight [kg]
R 11	06 580 001	8000	30	30	35	2	14	5	M8	20	11	0.08
R 15/18	06 580 002	8000	40	40	45	6	16	7	M10	20	15/18	0.17
R 27	06 580 003	6000	55	60	60	8	17	8	M12	35	27	0.40
R 38	06 580 004	5000	85	80	90	8	25	10	M20	160	38	1.15
R 45	06 580 005	4500	130	90	135	10	27	12	M20	160	45	1.75

Instructions for belt drives

a) Selection of the adequate ROSTA Tensioner size

Selection table mentioning the most conventional V-belt types.

V-belt type	Width [mm]	Height [mm]	Diam. of smaller pulley [mm]	Initial operation test-force F_I** [N]	Operational test-force F_O** [N]	Size SE* (without SE-W and SE-B)				
						1 belt	2 belts	3 belts	4 belts	5 belts
XPZ, SPZ	10	8	56–71	20	16	11	18	18	18	18
			75–90	22	18	11	18	18	18	27
			95–125	25	20	15	18	18	18	27
			≥ 125	28	22	15	18	18	27	27
XPA, SPA	13	10	80–100	28	22	15	18	18	27	27
			106–140	38	30	15	18	27	27	27
			150–200	45	36	18	18	27	27	27
			≥ 200	50	40	18	18	27	27	38
XPB, SPB	16	13	112–160	50	40	18	18	27	27	38
			170–224	62	50	18	27	27	38	38
			236–355	77	62	18	27	38	38	38
			≥ 355	81	65	18	27	38	38	38
XPC, SPC	22	18	224–250	87	70	18	27	38	38	38
			265–355	115	92	27	38	38	45	45
			≥ 375	144	115	27	38	38	45	45
Z	10	6	56–100	5–7.5		11	11	11	15	15
A	13	8	80–140	10–15		11	15	18	18	18
B	17	10	125–200	20–30		15	18	18	27	27
C	22	12	200–400	40–60		18	27	27	38	38
D	32	19	355–600	70–105		18	27	38	38	45

* General basic selection criteria:

F resulting tensioning force by a pre-tension angle of 20° (see table page 4.5)

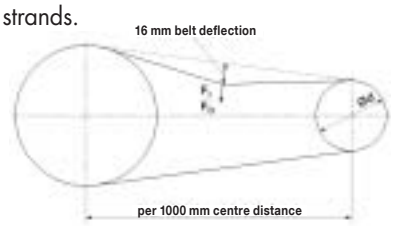
F_I initial operation test-force according guidelines of the belt manufacturer

z quantity of belts in drive

2 multiplier for the compensation of belt-slippage and/or of centrifugal force generated on belt strands.

$$F = F_I \cdot z \cdot 2$$

** required test-force for belt deflection of 16 mm per 1000 mm of centre distance.
The relevant deflection by shorter or longer centre distance has to be interpolated accordingly.



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