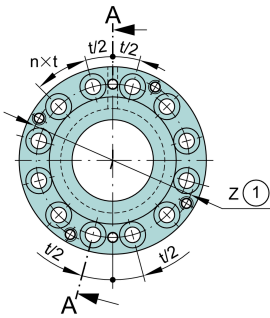


**ZARF3590-L-TV**

## Needle roller/axial cylindrical roller bearing

Needle roller/axial cylindrical roller bearings  
ZARF..-L, double direction, for screw  
mounting, long shaft locating washer

## Technical information



## Your current product variant

Cage	TV	Plastic Cage made from PA66
Locating Feature , bearing outer ring	L	Stepped shaft locating washer extended on one side

## Main Dimensions &amp; Performance Data

d	35 mm	Bore diameter
D	90 mm	Outside diameter
H	70 mm	Hight
C <sub>a</sub>	56.000 N	Basic dynamic load rating, axial
C <sub>0a</sub>	148.000 N	Basic static load rating, axial
C <sub>r</sub>	26.000 N	Basic dynamic load rating, radial
C <sub>0r</sub>	47.000 N	Basic static load rating, radial
C <sub>ua</sub>	12.900 N	Fatigue load limit, axial
C <sub>ur</sub>	6.800 N	Fatigue load limit, radial
n <sub>G Oil</sub>	4.800 1/min	Limiting speed for oil lubrication
n <sub>G Grease</sub>	1.700 1/min	Limiting speed for grease lubrication
M <sub>RL</sub>	0,9 Nm	Bearing friction torque
≈m	1,134 kg	Weight



### Mounting dimensions

$D_{a \max}$	61 mm	Maximum diameter of housing shoulder
$d_{a \min}$	43 mm	Minimum diameter shaft shoulder
$t_1$	0,1 mm	Position bore in the housing

### Dimensions

$H_1$	51 mm	Height outer ring over wave washer
C	18 mm	Width, outer ring
$C_1$	10 mm	Distance to lubrication hole
$D_1$	60 mm	Rip diameter shaft washer
$D_2$	45 mm	Heeldiameter wave washer long
$D_3$	58 mm	Outside diameter wave washer long
B	11 mm	Width, wave washer
$B_1$	27 mm	Width wave washer long
$B_2$	13 mm	Width heel wave washer long
$r_{\min}$	0,3 mm	Minimum chamfer dimension
$r_{1 \min}$	0,6 mm	Minimum chamfer dimension
$d_1$	3,2 mm	Diameter lubrication hole
J	73 mm	Pitch circle diameter (holes)
n	12	Number of screwing holes
$n \times t$	30 °	Split

### Temperature range

$T_{\min}$	-30 °C	Operating temperature min.
$T_{\max}$	120 °C	Operating temperature max.



### Additional information

$c_{aL}$	2.600 N/ $\mu$ m	Rigidity axial
$c_{kL}$	740 Nm/mrad	Tilting stiffness
$M_m$	3,21 kg*cm <sup>2</sup>	Mass moment of inertia
	1 $\mu$ m	Axial runout
radial	ZMA35/58	Recommended INA precision locknut for radial locking (not included)
axial	AM35/58	Locknut 2
$M_A$	40 Nm	Tightening torque nut
	12.143 N	Preload force axial
	45X60X8	Sealing ring
	M6	Screw size
$n_a$	12	Number of screws
$n_a \times t_a$	30 °	Division (screwing holes)

### Characteristics



Radial load



Axial load in one direction



Axial load in two directions



Grease Lubrication



Oil Lubrication



Not sealed