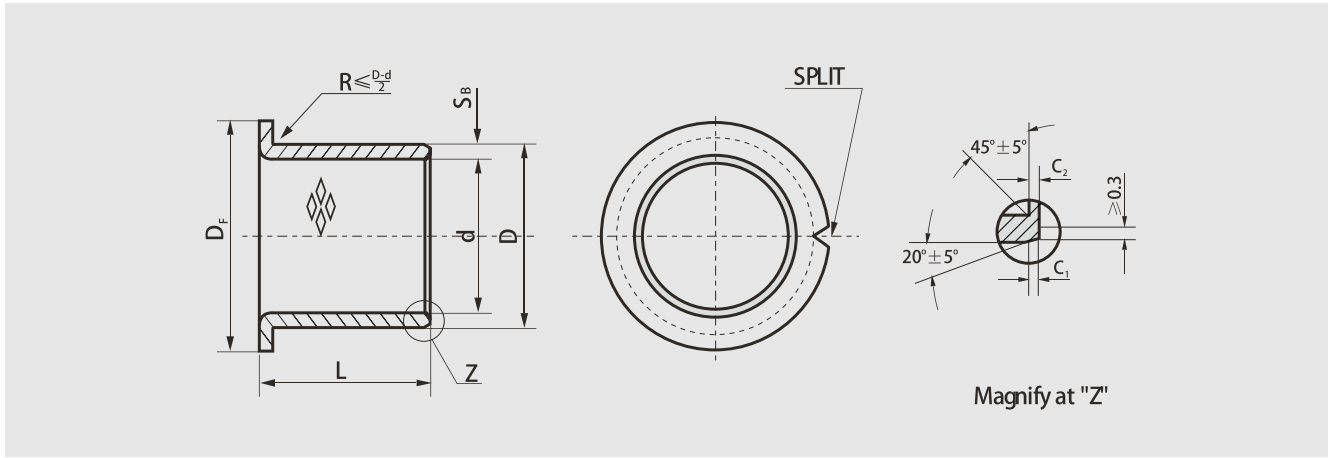


# TCB90F Series Normal Metric Flange Bushing



Designation	Shaft Dia. Ø d <sub>j</sub>	Housing Ø D <sub>H</sub>	flange Ø D <sub>F</sub>	Press in H7 housing I.D. Ø d	High L	O.D. Ø D
TCB90 □ F 2015	20f7 <sup>-0.020</sup> / <sub>-0.041</sub>	23H7 <sup>+0.021</sup> / <sub>0</sub>	30±0.5	20 <sup>+0.052</sup> / <sub>0</sub>	15±0.25	23 <sup>+0.075</sup> / <sub>+0.035</sub>
TCB90 □ F 2020					20±0.25	
TCB90 □ F 2515	25f7 <sup>-0.020</sup> / <sub>-0.041</sub>	28H7 <sup>+0.021</sup> / <sub>0</sub>	35±0.5	25 <sup>+0.052</sup> / <sub>0</sub>	15±0.25	28 <sup>+0.075</sup> / <sub>+0.035</sub>
TCB90 □ F 2520					20±0.25	
TCB90 □ F 2525					25±0.25	
TCB90 □ F 3015	30f7 <sup>-0.020</sup> / <sub>-0.041</sub>	34H7 <sup>+0.025</sup> / <sub>0</sub>	45±0.5	30 <sup>+0.052</sup> / <sub>0</sub>	15±0.25	34 <sup>+0.085</sup> / <sub>+0.045</sub>
TCB90 □ F 3020					20±0.25	
TCB90 □ F 3030					30±0.25	
TCB90 □ F 3520	35f7 <sup>-0.025</sup> / <sub>-0.050</sub>	39H7 <sup>+0.025</sup> / <sub>0</sub>	50±0.5	35 <sup>+0.062</sup> / <sub>0</sub>	20±0.25	39 <sup>+0.085</sup> / <sub>+0.045</sub>
TCB90 □ F 3525					25±0.25	
TCB90 □ F 3530					30±0.25	
TCB90 □ F 4025	40f7 <sup>-0.025</sup> / <sub>-0.050</sub>	44H7 <sup>+0.025</sup> / <sub>0</sub>	55±0.5	40 <sup>+0.062</sup> / <sub>0</sub>	25±0.25	44 <sup>+0.085</sup> / <sub>+0.045</sub>
TCB90 □ F 4030					30±0.25	
TCB90 □ F 4530	45f7 <sup>-0.025</sup> / <sub>-0.050</sub>	50H7 <sup>+0.025</sup> / <sub>0</sub>	60±0.5	45 <sup>+0.062</sup> / <sub>0</sub>	30±0.25	50 <sup>+0.085</sup> / <sub>+0.045</sub>
TCB90 □ F 4545					45±0.25	
TCB90 □ F 4560					60±0.25	
TCB90 □ F 5035	50f7 <sup>-0.025</sup> / <sub>-0.050</sub>	55H7 <sup>+0.030</sup> / <sub>0</sub>	65±0.5	50 <sup>+0.062</sup> / <sub>0</sub>	35±0.25	55 <sup>+0.100</sup> / <sub>+0.055</sub>
TCB90 □ F 5040					40±0.25	
TCB90 □ F 5050					50±0.25	
TCB90 □ F 5530	55f7 <sup>-0.030</sup> / <sub>-0.060</sub>	60H7 <sup>+0.030</sup> / <sub>0</sub>	70±0.5	55 <sup>+0.074</sup> / <sub>0</sub>	30±0.25	60 <sup>+0.100</sup> / <sub>+0.055</sub>
TCB90 □ F 5550					50±0.25	
TCB90 □ F 6030	60f7 <sup>-0.030</sup> / <sub>-0.060</sub>	65H7 <sup>+0.030</sup> / <sub>0</sub>	75±0.5	60 <sup>+0.074</sup> / <sub>0</sub>	30±0.25	65 <sup>+0.100</sup> / <sub>+0.055</sub>
TCB90 □ F 6050					50±0.25	
TCB90 □ F 6060					60±0.25	
TCB90 □ F 6530	65f7 <sup>-0.030</sup> / <sub>-0.060</sub>	70H7 <sup>+0.030</sup> / <sub>0</sub>	80±0.5	65 <sup>+0.074</sup> / <sub>0</sub>	30±0.25	70 <sup>+0.100</sup> / <sub>+0.055</sub>
TCB90 □ F 6540					40±0.25	
TCB90 □ F 6560					60±0.25	
TCB90 □ F 7040	70f7 <sup>-0.030</sup> / <sub>-0.060</sub>	75H7 <sup>+0.030</sup> / <sub>0</sub>	85±0.5	70 <sup>+0.074</sup> / <sub>0</sub>	40±0.25	75 <sup>+0.100</sup> / <sub>+0.055</sub>
TCB90 □ F 7070					70±0.25	

## TCB90F Series Normal Metric Flange Bushing

Designation	Shaft Dia. $\varnothing d_j$	Housing $\varnothing D_H$	flange $\varnothing D_F$	Press in H7 housing I.D. $\varnothing d$	High L	O.D. $\varnothing D$
TCB90 □ F 7540	75f7 $\begin{smallmatrix} -0.030 \\ -0.060 \end{smallmatrix}$	80H7 $\begin{smallmatrix} +0.035 \\ 0 \end{smallmatrix}$	90±0.5	75 $\begin{smallmatrix} +0.074 \\ 0 \end{smallmatrix}$	40±0.25	80 $\begin{smallmatrix} +0.100 \\ +0.055 \end{smallmatrix}$
TCB90 □ F 7570					70±0.25	
TCB90 □ F 8050	80f7 $\begin{smallmatrix} -0.036 \\ -0.071 \end{smallmatrix}$	85H7 $\begin{smallmatrix} +0.035 \\ 0 \end{smallmatrix}$	100±0.5	80 $\begin{smallmatrix} +0.087 \\ 0 \end{smallmatrix}$	50±0.50	85 $\begin{smallmatrix} +0.120 \\ +0.070 \end{smallmatrix}$
TCB90 □ F 8080					80±0.50	
TCB90 □ F 9050	90f7 $\begin{smallmatrix} -0.036 \\ -0.071 \end{smallmatrix}$	95H7 $\begin{smallmatrix} +0.035 \\ 0 \end{smallmatrix}$	110±0.5	90 $\begin{smallmatrix} +0.087 \\ 0 \end{smallmatrix}$	50±0.50	95 $\begin{smallmatrix} +0.120 \\ +0.070 \end{smallmatrix}$
TCB90 □ F 9090					90±0.50	
TCB90 □ F 10050	100f7 $\begin{smallmatrix} -0.036 \\ -0.071 \end{smallmatrix}$	105H7 $\begin{smallmatrix} +0.035 \\ 0 \end{smallmatrix}$	120±0.5	100 $\begin{smallmatrix} +0.087 \\ 0 \end{smallmatrix}$	50±0.50	105 $\begin{smallmatrix} +0.120 \\ +0.070 \end{smallmatrix}$
TCB90 □ F 10060					60±0.50	
TCB90 □ F 11050	110f7 $\begin{smallmatrix} -0.036 \\ -0.071 \end{smallmatrix}$	115H7 $\begin{smallmatrix} +0.035 \\ 0 \end{smallmatrix}$	130±0.5	110 $\begin{smallmatrix} +0.087 \\ 0 \end{smallmatrix}$	50±0.50	115 $\begin{smallmatrix} +0.120 \\ +0.070 \end{smallmatrix}$
TCB90 □ F 11060					60±0.50	
TCB90 □ F 12060	120f7 $\begin{smallmatrix} -0.043 \\ -0.083 \end{smallmatrix}$	125H7 $\begin{smallmatrix} +0.040 \\ 0 \end{smallmatrix}$	140±0.5	120 $\begin{smallmatrix} +0.100 \\ 0 \end{smallmatrix}$	60±0.50	125 $\begin{smallmatrix} +0.170 \\ +0.100 \end{smallmatrix}$
TCB90 □ F 13060					130f7 $\begin{smallmatrix} -0.043 \\ -0.083 \end{smallmatrix}$	
TCB90 □ F 13090	90±0.50					
TCB90 □ F 14060	140f7 $\begin{smallmatrix} -0.043 \\ -0.083 \end{smallmatrix}$	145H7 $\begin{smallmatrix} +0.040 \\ 0 \end{smallmatrix}$	165±0.5	140 $\begin{smallmatrix} +0.100 \\ 0 \end{smallmatrix}$	60±0.50	145 $\begin{smallmatrix} +0.170 \\ +0.100 \end{smallmatrix}$
TCB90 □ F 14090					90±0.50	
TCB90 □ F 15060	150f7 $\begin{smallmatrix} -0.043 \\ -0.083 \end{smallmatrix}$	155H7 $\begin{smallmatrix} +0.040 \\ 0 \end{smallmatrix}$	180±0.5	150 $\begin{smallmatrix} +0.100 \\ 0 \end{smallmatrix}$	60±0.50	155 $\begin{smallmatrix} +0.170 \\ +0.100 \end{smallmatrix}$
TCB90 □ F 15090					90±0.50	
TCB90 □ F 16060	160f7 $\begin{smallmatrix} -0.043 \\ -0.083 \end{smallmatrix}$	165H7 $\begin{smallmatrix} +0.040 \\ 0 \end{smallmatrix}$	190±0.5	160 $\begin{smallmatrix} +0.100 \\ 0 \end{smallmatrix}$	60±0.50	165 $\begin{smallmatrix} +0.170 \\ +0.100 \end{smallmatrix}$
TCB90 □ F 16090					90±0.50	
TCB90 □ F 17060	170f7 $\begin{smallmatrix} -0.043 \\ -0.083 \end{smallmatrix}$	175H7 $\begin{smallmatrix} +0.040 \\ 0 \end{smallmatrix}$	200±0.5	170 $\begin{smallmatrix} +0.100 \\ 0 \end{smallmatrix}$	60±0.75	175 $\begin{smallmatrix} +0.170 \\ +0.100 \end{smallmatrix}$
TCB90 □ F 17090					90±0.75	
TCB90 □ F 18090	180f7 $\begin{smallmatrix} -0.043 \\ -0.083 \end{smallmatrix}$	185H7 $\begin{smallmatrix} +0.046 \\ 0 \end{smallmatrix}$	215±0.5	180 $\begin{smallmatrix} +0.115 \\ 0 \end{smallmatrix}$	90±0.75	185 $\begin{smallmatrix} +0.210 \\ +0.130 \end{smallmatrix}$

Label example	Wall Thickness $S_B$	Chamfering	
		$f_1$	$f_2$
	1.0	0.6±0.3	0.3±0.2
Type	1.5	0.6±0.4	0.4±0.3
I.D.	2.0	1.2±0.4	0.6±0.3
High	2.5	1.8±0.4	0.6±0.4
TCB90 □ F 180			
90			