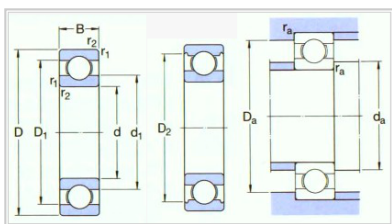


Metric Series

69 Series-699,699ZZ1,699VV,699DD



Designation	
With shielded	<b>699</b>
Open type	<b>699ZZ1</b>
With seal VV	<b>699VV</b>
With seal DD	<b>699DD</b>
Principal dimensions [mm]	
d	<b>9</b>
D	20
B	<b>6</b>
B1	<b>6</b>
r(min)	0.3
Basic load ratings(N)	
Cr	1720
Cor	840
Basic load ratings{kgf}	
Cr	175
Cor	86
Speed ratings(rpm)	
Grease	
ZZ	34000
D·D	24000
Oil	
Z	40000
Abutment and fillet dimensions (mm)	
da(min)	11
db(max)	12
Da(Max)	18
Db(min)	17.2
ra(max)	0.3
rb(max)	0.3
Weight(g)	
Open type	8.45
With shielded	8.33