

Spindle ball bearing HY S 619/8 C TA P4+

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Components

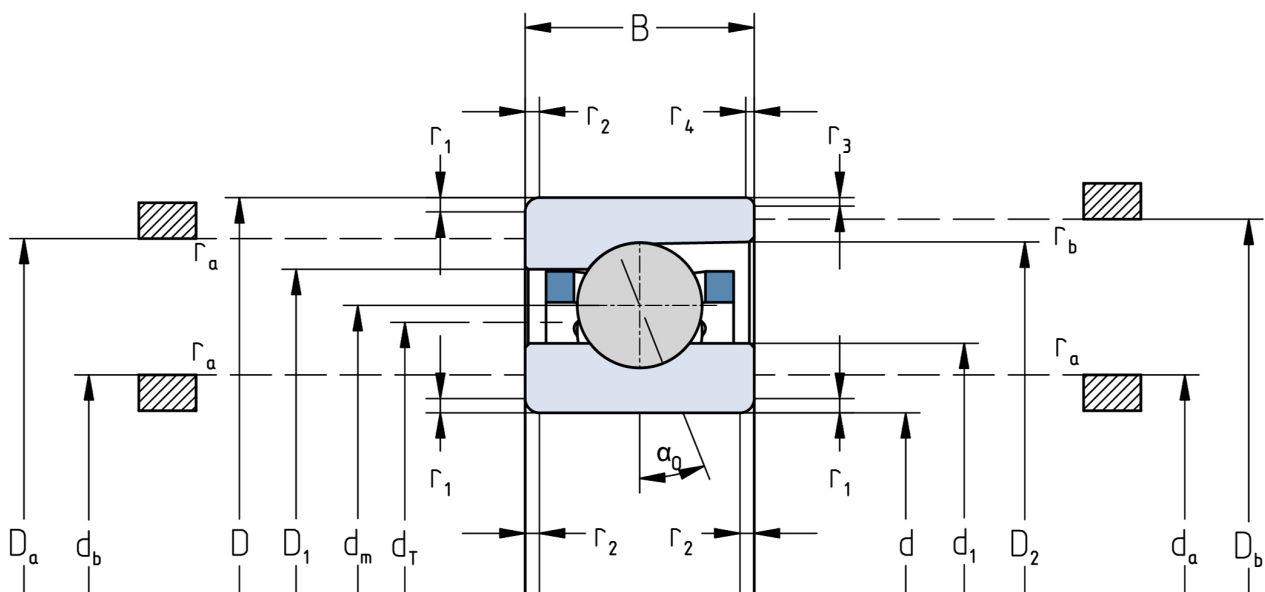
Bearing designation:	HY S 619/8 C TA
Bearing design:	S
Series / size:	619/8
Ball material:	Ceramic
Cage:	TA
Precision:	P4+
Main dimensions [d x D x B]:	8 x 19 x 6 mm

Load data

Static load capacity	C_{0r} : 1130 N
Dynamic load capacity	C_r : 2600 N
Fatigue load limit	C_U : 43 N
Speed limit	n_{grease} : 120000 1/min
Speed limit	n_{oil} : 160000 1/min
Light preload	L: 12 N
Axial rigidity	C_{ax} : 13 N/ μ m
Medium preload	M: 35 N
Axial rigidity	C_{ax} : 21 N/ μ m
Heavy preload	S: 70 N
Axial rigidity	C_{ax} : 29 N/ μ m
Spring preload	Ff: 45 N (for n_{max})

Geometrical Data

Bore diameter	d: 8 mm	Oiling nozzle position	d_T : 12.2 mm
Outer diameter	D: 19 mm	Pitch circle diameter	d_m : 13.3 mm
Width of single bearing	B: 6 mm	Inner diameter of outer ring	D_1 : 15.8 mm
Ball diameter	D_w : 3.175 mm	Undercut of associated component	$r_{a max}$: 0.3 mm
Number of balls	Z: 10	Undercut of associated component (open side)	$r_{b max}$: 0.3 mm
Chamfer (min)	$r_{1,2 min}$: 0.3 mm	Abutment diameter inner ring	$d_{a,b min}$: 9.9 mm
Chamfer (min), open side	$r_{3,4 min}$: 0.3 mm	Abutment diameter outer ring	$D_{a,b max}$: 17.6 mm
Outer diameter of inner ring	d_1 : 10.7 mm	Inner diameter of outer ring (open side)	D_2 : 16.6 mm
Outer diameter of inner ring (open side)	d_2 : -	Bearing weight	m: 0.006 kg
		Contact angle	Alpha 0: 15°



The given speed limits apply to individual bearings with spring preload. Correction factors must be considered for all properties which deviate from this.