

GRW Nomenclature Guide

Material		Type	Basic Number	Closure	Quality	Radial Play
			625			C2
			1/8 B	-ZZ	ABEC 5	K35
			608		P4	D15
SS		FE	624	-ZZ	P4	2
-	SAE 52100 Chrome Steel	F Flanged outer ring		- Open bearing	Quality grade 0 is not shown	d 1 to 6 mm
SS	Stainless Steel X65Cr13	E Extended inner ring		Z Single shield		C2 0 to 6 μm normal 4 to 11 μm C3 10 to 20 μm C4 14 to 20 μm C5 18 to 28 μm
HY	Hybrid bearing Ceramic balls Si ₃ N ₄ Rings made of SAE 52100 Chrome Steel			-ZZ Double shield		d over 6 to 10 mm
				Z1 Single shield on flange side		C2 0 to 6 μm normal 4 to 11 μm C3 10 to 20 μm C4 14 to 29 μm C5 20 to 37 μm
				Z2 Single shield on side opposite to flange		d over 10 to 18 mm
HYSS	Hybrid bearing Ceramic balls Si ₃ N ₄ Rings made of X65Cr13			TS Single Teflon seal		C2 0 to 9 μm normal 3 to 18 μm C3 11 to 25 μm C4 18 to 33 μm
				-2TS Double Teflon seal		Normal radial play will not appear in the bearing number.
				TS1 Single Teflon seal on flange side		C1/5 1 to 5 μm C4/8 4 to 8 μm C7/11 7 to 11 μm C10/15 10 to 15 μm C14/20 14 to 20 μm C18/28 18 to 28 μm
				TS2 Single Teflon seal on opposite to flange side		K02 0 to .0002" K13 .0001" to .0003" K24 .0002" to .0004" K35 .0003" to .0005" K46 .0004" to .0006" K58 .0005" to .0008"
SV	X30CrMoN15-1 (upon request) SAE AMS 5898			RS Single Perbunan rubber contact seal		D15 contact angle 15°
				-2RS Double Perbunan rubber contact seal		
				RZ Single Perbunan rubber seal non-contact		
				-2RZ Double Perbunan rubber seal non-contact		
				VS Single Viton seal		
				-2VS Double Viton seal		

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Functional Tests	Bore and O.D. Calibration	Duplex Bearings	Retainer Type	Lubricant Quantity	Lubricant
GPR			Y		
GPR			J	20%	G310
GPR	X	-1L	AC1 TA		L001
GPR	X	-1	J	140 MG	G340
GPR Noise tested	X bore and O.D. in 2 Groups	-1 Back to back	Y Brass ribbon retainer	- Standard fill	L... Oil code
NG Not noise tested	XB bore in 2 Groups	-2 Face to face	J Stainless steel ribbon retainer	20% Grease volume in percent of void space	G... Grease code
GPA Axial vibration tested	XD O.D. in 2 Groups	-3 Tandem	E Steel ribbon retainer	140 MG Lubrication quantity in milligrams	B... Special treatment
	X4 bore and O.D. in 4 Groups		JH Stainless steel snap retainer		
	X4B bore in 4 Groups	Preloading for spindle ball bearing	THB Phenolic snap retainer		
	X4D O.D. in 4 Groups	L Light	TNH Synthetic (polyamide) snap retainer		
R Followed by a figure indicates the starting torque at standard load e.g. R16 starting torque max. 16 μ Nm		M Medium	TN9H Glassfibre reinforced synthetic snap retainer		
		S Heavy	AC1 One outer ring land relieved		
		f	AC2 One inner ring land relieved		
			AC-version only in combination with one piece solid retainer or full ball complement.		