

Table of Piston Ring Clearance for Lycoming Engines

PISTON	BARREL SURFACE	RING CONFIGURATION	END GAP	SIDE CLEARANCE	
THREE-RING PISTONS LW11621 SL13623 LW18729 SL18729	NITRIDE	C SL78862	.040 - .056	.0025 - .0055 L	
		C SL78862	.040 - .056	.000 - .004 L	
		O SL78864	.025 - .041	.002 - .004 L	
	CHROME	C SL14234	.040 - .056	.0025 - .0055 L	
		C SL14234	.040 - .056	.000 - .004 L	
		O SL14235	.025 - .041	.002 - .004 L	
THREE-RING PISTONS SL10207 LW10208-S LW11487-S SL10545 LW12733 LW13396 LW15357 SL15357 LW19176 74242 SL75089 SL75413 75617 76258 76966-S 78203-S 78762	STEEL (STRAIGHT BORE)	C SL74989	.0185 - .036	.0025 - .0055 L	
		C SL74989	.0185 - .036	.000 - .004 L	
		O SL73857	.0135 - .0345	.002 - .004 L	
	NITRIDE	C SL74241	.0435 - .0595	.0025 - .0055 L	
		C SL74241	.0435 - .0595	.000 - .004 L	
		O SL73857	.0135 - .0345	.002 - .004 L	
	CHROME	C SL74673*	.0435 - .0595	.0025 - .0055 L	
		C SL74673*	.0435 - .0595	.000 - .004 L	
		O SL73998	.0135 - .0345	.002 - .004 L	
	FOUR-RING PISTONS 72967 73264 74530	NITRIDE	C SL74241	.0435 - .0595	.0025 - .0055 L
			C SL74241	.0435 - .0595	.000 - .004 L
			C SL74241	.0435 - .0595	.000 - .004 L
			O 69767	.0185 - .036	.002 - .004L
		CHROME	C SL74673*	.0435 - .0595	.0025 - .0055 L
			C SL74673*	.0435 - .0595	.000 - .004 L
C SL74673*			.0435 - .0595	.000 - .004 L	
O 72454			.0185 - .036	.002 - .004L	
FIVE-RING PISTONS 72578	CHROME	C SL74673*	.0185 - .036	.0025 - .0055 L	
		C SL74673*	.0185 - .036	.000 - .004 L	
		C SL74673*	.0435 - .0595	.000 - .004 L	
		O 72454	.0435 - .0595	.002 - .004 L	
		S 69235	.0185 - .036	.003 - .0053 L	

* End gaps listed above are for chrome cylinder barrels with choke bore only.

End gap measured in cylinder bore at new cylinder tolerance, 4" up from the bottom of barrel skirt. End gap at top of travel should not be less than .0075. Under no circumstances use a chrome-faced ring in a chrome cylinder barrel.

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PISTON	BARREL SURFACE	RING CONFIGURATION	END GAP	SIDE CLEARANCE
FIVE-RING PISTONS 71940 72249 73947 -S 73976-S	NITRIDE	C SL74241	.0435 - .0595	.0025 - .0055 L
		C SL74241	.0435 - .0595	.000 - .004 L
		C SL74241	.0135 -.0345	.000 - .004 L
		O 69467	.0185 - .036	.002 - .004 L
		S SL3603	.0185 - .036	.003 - .0053 L
	CHROME	C SL74673*	.0385 - .0545	.0025 - .0055 L
		C SL74673*	.0385 - .0545	.000 - .004 L
		C SL74673*	.0385 - .0545	.000 - .004 L
		O 72454	.0185 - .036	.002 - .004 L
		S 69235	.0185 - .036	.003 - .0053 L
	NITRIDE	C SL74241	.0435 - .0595	.0025 - .0055 L
		C SL74241	.0435 - .0595	.000 - .004 L
		C SL74241	.0135 -.0345	.000 - .004 L
		O SL73857	.0135 -.0345	.002 - .004 L
		S SL3603	.0185 - .036	.003 - .0053 L
CHROME	C SL74673*	.0385 - .0545	.0025 - .0055 L	
	C SL74673*	.0385 - .0545	.000 - .004 L	
	C SL74673*	.0385 - .0545	.000 - .004 L	
	C SL73998	.0135 - .0345	.002 - .004 L	
	S 69235	.0185 - .036	.003 - .0053 L	

* End gaps listed above are for chrome cylinder barrels with choke bore only.

End gap measured in cylinder bore at new cylinder tolerance, 4" up from the bottom of barrel skirt. End gap at top of travel should not be less than .0075. Under no circumstances use a chrome-faced ring in a chrome cylinder barrel.

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