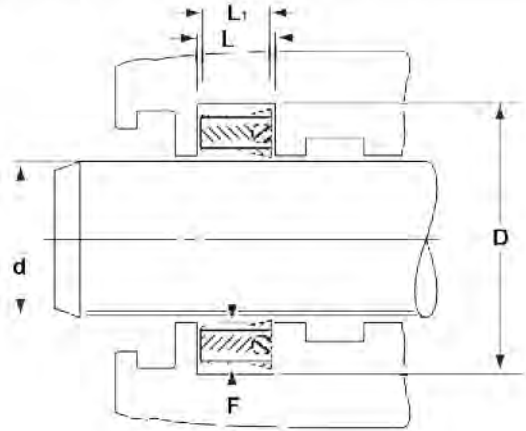


# Deep Loaded Lip Seals - Inch



**ALTERNATIVE SEALS:**  
 Rod: DZ, UNRR, BSLL, BLLS,  
 US, UNR, BS, BT, BD  
 Piston: UNP, UNP-AN, US, BP



EXAMPLE: 18701500-375			
Cross Section	Inside Diameter		Height
187	01500	-	375
3/16	1-1/2"		3/8

Deep Loaded Lip Seals can be used as rod or piston seals. Their rectangular configuration gives them greater down stream stability while their greater lip interference provides for better low pressure sealability. They are manufactured from high quality, 90 durometer polyurethane. They are also available in other materials; consult sales office for price and availability.

Temperature: -65°F to 200°F      Pressure: 0 to 5,000 PSI

Part Number	Rod Diameter d	Groove Diameter D	Seal Height L <sub>1</sub>	Groove Height L
<b>1/8" CROSS SECTION ("F")</b>				
12500250-250	0.250	0.500	0.250	0.275
12500312-250	0.312	0.562	0.250	0.275
12500437-250	0.437	0.687	0.250	0.275
12500500-250	0.500	0.750	0.250	0.275
12500625-250	0.625	0.875	0.250	0.275
12500687-250	0.687	0.937	0.250	0.275
12500750-250	0.750	1.000	0.250	0.275
12500875-187	0.875	1.125	0.187	0.206
12500875-250	0.875	1.125	0.250	0.275
12501000-172	1.000	1.250	0.172	0.189
12501000-187	1.000	1.250	0.187	0.206
12501000-250	1.000	1.250	0.250	0.275
12501125-250	1.125	1.375	0.250	0.275
12501187-187	1.187	1.437	0.187	0.206
12501250-187	1.250	1.500	0.187	0.206
12501250-250	1.250	1.500	0.250	0.275
12501375-250	1.375	1.625	0.250	0.275
12501437-250	1.437	1.687	0.250	0.275

Part Number	Rod Diameter d	Groove Diameter D	Seal Height L <sub>1</sub>	Groove Height L
<b>1/8" CROSS SECTION ("F")</b>				
12501500-250	1.500	1.750	0.250	0.275
12501625-250	1.625	1.875	0.250	0.275
12501750-250	1.750	2.000	0.250	0.275
12502000-250	2.000	2.250	0.250	0.275
12502375-250	2.375	2.625	0.250	0.275
12502500-250	2.500	2.750	0.250	0.275
<b>3/16" CROSS SECTION ("F")</b>				
18700250-312	0.250	0.625	0.312	0.343
18700375-312	0.375	0.750	0.312	0.343
18700625-312	0.625	1.000	0.312	0.343
18700750-250	0.750	1.125	0.250	0.275
18700750-312	0.750	1.125	0.312	0.343
18700812-312	0.812	1.187	0.312	0.343
18700875-312	0.875	1.250	0.312	0.343
18700875-375	0.875	1.250	0.375	0.413
18701000-250	1.000	1.375	0.250	0.275
18701000-312	1.000	1.375	0.312	0.343
18701062-312	1.062	1.437	0.312	0.343



**Deep Loaded Lip Seals - Inch, cont'd.**

Part Number	Rod Diameter d	Groove Diameter D	Seal Height L <sub>1</sub>	Groove Height L
<b>3/16" CROSS SECTION ("F")</b>				
18701125-250	1.125	1.500	0.250	0.275
18701125-312	1.125	1.500	0.312	0.343
18701250-312	1.250	1.625	0.312	0.343
18701375-312	1.375	1.750	0.312	0.343
18701375-375	1.375	1.750	0.375	0.413
18701500-281	1.500	1.875	0.281	0.309
18701500-375	1.500	1.875	0.375	0.413
18701625-250	1.625	2.000	0.250	0.275
18701625-312	1.625	2.000	0.312	0.343
18701625-375	1.625	2.000	0.375	0.413
18701687-375	1.687	2.062	0.375	0.413
18701750-250	1.750	2.125	0.250	0.275
18701750-375	1.750	2.125	0.375	0.413
18701875-375	1.875	2.250	0.375	0.413
18702000-270	2.000	2.375	0.270	0.297
18702000-375	2.000	2.375	0.375	0.413
18702125-250	2.125	2.500	0.250	0.275
18702125-375	2.125	2.500	0.375	0.413
18702187-375	2.187	2.562	0.375	0.413
18702250-312	2.250	2.625	0.312	0.343
18702250-375	2.250	2.625	0.375	0.413
18702375-375	2.375	2.750	0.375	0.413
18702500-375	2.500	2.875	0.375	0.413
18702625-312	2.625	3.000	0.312	0.343
18702625-375	2.625	3.000	0.375	0.413
18702750-375	2.750	3.125	0.375	0.413
18702875-375	2.875	3.250	0.375	0.413
18703000-375	3.000	3.375	0.375	0.413
18703125-375	3.125	3.500	0.375	0.413
18703187-375	3.187	3.562	0.375	0.413
18703250-312	3.250	3.625	0.312	0.343
18703250-375	3.250	3.625	0.375	0.413
18703375-375	3.375	3.750	0.375	0.413
18703500-375	3.500	3.875	0.375	0.413

Part Number	Rod Diameter d	Groove Diameter D	Seal Height L <sub>1</sub>	Groove Height L
<b>3/16" CROSS SECTION ("F")</b>				
18703625-312	3.625	4.000	0.312	0.343
18703625-375	3.625	4.000	0.375	0.413
18703750-375	3.750	4.125	0.375	0.413
18704000-375	4.000	4.375	0.375	0.413
18704250-312	4.250	4.625	0.312	0.343
18704250-375	4.250	4.625	0.375	0.413
18704375-375	4.375	4.750	0.375	0.413
18704500-375	4.500	4.875	0.375	0.413
18704625-312	4.625	5.000	0.312	0.343
18704625-375	4.625	5.000	0.375	0.413
<b>1/4" CROSS SECTION ("F")</b>				
25000750-375	0.750	1.250	0.375	0.413
25000875-375	0.875	1.375	0.375	0.413
25001000-375	1.000	1.500	0.375	0.413
25001125-375	1.125	1.625	0.375	0.413
25001250-375	1.250	1.750	0.375	0.413
25001375-375	1.375	1.875	0.375	0.413
25001500-203	1.500	2.000	0.203	0.223
25001500-312	1.500	2.000	0.312	0.343
25001500-375	1.500	2.000	0.375	0.413
25001750-375	1.750	2.250	0.375	0.413
25002000-375	2.000	2.500	0.375	0.413
25002125-375	2.125	2.625	0.375	0.413
25002250-375	2.250	2.750	0.375	0.413
25002250-562	2.250	2.750	0.562	0.618
25002375-375	2.375	2.875	0.375	0.413
25002500-312	2.500	3.000	0.312	0.343
25002500-375	2.500	3.000	0.375	0.413
25002625-375	2.625	3.125	0.375	0.413
25002750-375	2.750	3.250	0.375	0.413
25003000-203	3.000	3.500	0.203	0.223
25003000-375	3.000	3.500	0.375	0.413
25003000-562	3.000	3.500	0.562	0.618
25003125-375	3.125	3.625	0.375	0.413



**Deep Loaded Lip Seals - Inch, cont'd.**

Part Number	Rod Diameter d	Groove Diameter D	Seal Height L <sub>1</sub>	Groove Height L
<b>1/4" CROSS SECTION ("F")</b>				
25003250-375	3.250	3.750	0.375	0.413
25003375-375	3.375	3.875	0.375	0.413
25003500-203	3.500	4.000	0.203	0.223
25003500-312	3.500	4.000	0.312	0.343
25003500-375	3.500	4.000	0.375	0.413
25003500-500	3.500	4.000	0.500	0.550
25003750-375	3.750	4.250	0.375	0.413
25003875-375	3.875	4.375	0.375	0.413
25004000-375	4.000	4.500	0.375	0.413
25004000-562	4.000	4.500	0.562	0.618
25004125-375	4.125	4.625	0.375	0.413
25004250-375	4.250	4.750	0.375	0.413
25004250-562	4.250	4.750	0.562	0.618
25004500-203	4.500	5.000	0.203	0.223
25004500-312	4.500	5.000	0.312	0.343
25004500-375	4.500	5.000	0.375	0.413
25004500-562	4.500	5.000	0.562	0.618
25004750-562	4.750	5.250	0.562	0.618
25004875-562	4.875	5.375	0.562	0.618
25005000-375	5.000	5.500	0.375	0.413
25005000-562	5.000	5.500	0.562	0.618
25005500-375	5.500	6.000	0.375	0.413
25005500-562	5.500	6.000	0.562	0.618
25005750-562	5.750	6.250	0.562	0.618
25005875-562	5.875	6.375	0.562	0.618
25006000-562	6.000	6.500	0.562	0.618
25006250-562	6.250	6.750	0.562	0.618
25006500-375	6.500	7.000	0.375	0.413
25006500-562	6.500	7.000	0.562	0.618
25006750-562	6.750	7.250	0.562	0.618
25007000-562	7.000	7.500	0.562	0.618
25007500-375	7.500	8.000	0.375	0.413
25007500-562	7.500	8.000	0.562	0.618
25007750-375	7.750	8.250	0.375	0.413

Part Number	Rod Diameter d	Groove Diameter D	Seal Height L <sub>1</sub>	Groove Height L
<b>1/4" CROSS SECTION ("F")</b>				
25008500-562	8.500	9.000	0.562	0.618
25009500-375	9.500	10.000	0.375	0.413
25009500-562	9.500	10.000	0.562	0.618
25010500-500	10.500	11.000	0.500	0.550
25014000-375	14.000	14.500	0.375	0.413
25014500-375	14.500	15.000	0.375	0.413
<b>9/32" CROSS SECTION ("F")</b>				
28103687-375	3.687	4.250	0.375	0.413
<b>5/16" CROSS SECTION ("F")</b>				
31201000-500	1.000	1.625	0.500	0.550
31201125-500	1.125	1.750	0.500	0.550
31201250-500	1.250	1.875	0.500	0.550
31201375-500	1.375	2.000	0.500	0.550
31201500-500	1.500	2.125	0.500	0.550
31201750-500	1.750	2.375	0.500	0.550
31201875-500	1.875	2.500	0.500	0.550
31202000-500	2.000	2.625	0.500	0.550
31202375-500	2.375	3.000	0.500	0.550
31202500-500	2.500	3.125	0.500	0.550
31202625-500	2.625	3.250	0.500	0.550
31202750-500	2.750	3.375	0.500	0.550
31202875-500	2.875	3.500	0.500	0.550
31203000-500	3.000	3.625	0.500	0.550
31203250-500	3.250	3.875	0.500	0.550
31203375-500	3.375	4.000	0.500	0.550
31203500-500	3.500	4.125	0.500	0.550
31203750-500	3.750	4.375	0.500	0.550
31203875-500	3.875	4.500	0.500	0.550
31204000-500	4.000	4.625	0.500	0.550
31204000-562	4.000	4.625	0.562	0.618
31204125-562	4.125	4.750	0.562	0.618
31204250-562	4.250	4.875	0.562	0.618
31204375-500	4.375	5.000	0.500	0.550
31204375-562	4.375	5.000	0.562	0.618



**Deep Loaded Lip Seals - Inch, cont'd.**

Part Number	Rod Diameter d	Groove Diameter D	Seal Height L <sub>1</sub>	Groove Height L
<b>5/16" CROSS SECTION ("F")</b>				
31204500-625	4.500	5.125	0.625	0.688
31205375-625	5.375	6.000	0.625	0.688
31206375-625	6.375	7.000	0.625	0.688
31207500-625	7.500	8.125	0.625	0.688
<b>3/8" CROSS SECTION ("F")</b>				
37501250-625	1.250	2.000	0.625	0.688
37501312-437	1.312	2.062	0.437	0.481
37501500-500	1.500	2.250	0.500	0.550
37501500-625	1.500	2.250	0.625	0.688
37501750-500	1.750	2.500	0.500	0.550
37502000-500	2.000	2.750	0.500	0.550
37502000-625	2.000	2.750	0.625	0.688
37502125-625	2.125	2.875	0.625	0.688
37502250-500	2.250	3.000	0.500	0.550
37502250-625	2.250	3.000	0.625	0.688
37502500-500	2.500	3.250	0.500	0.550
37502500-625	2.500	3.250	0.625	0.688
37502750-500	2.750	3.500	0.500	0.550
37502750-625	2.750	3.500	0.625	0.688
37503000-500	3.000	3.750	0.500	0.550
37503000-625	3.000	3.750	0.625	0.688
37503250-500	3.250	4.000	0.500	0.550
37503250-625	3.250	4.000	0.625	0.688
37503500-500	3.500	4.250	0.500	0.550
37503500-625	3.500	4.250	0.625	0.688
37503750-500	3.750	4.500	0.500	0.550
37503750-625	3.750	4.500	0.625	0.688
37504000-500	4.000	4.750	0.500	0.550
37504000-625	4.000	4.750	0.625	0.688
37504250-500	4.250	5.000	0.500	0.550
37504250-625	4.250	5.000	0.625	0.688
37504375-625	4.375	5.125	0.625	0.688
37504500-500	4.500	5.250	0.500	0.550
37504500-625	4.500	5.250	0.625	0.688

Part Number	Rod Diameter d	Groove Diameter D	Seal Height L <sub>1</sub>	Groove Height L
<b>3/8" CROSS SECTION ("F")</b>				
37504625-625	4.625	5.375	0.625	0.688
37504750-625	4.750	5.500	0.625	0.688
37505000-500	5.000	5.750	0.500	0.550
37505000-625	5.000	5.750	0.625	0.688
37505250-500	5.250	6.000	0.500	0.550
37505250-625	5.250	6.000	0.625	0.688
37505500-625	5.500	6.250	0.625	0.688
37505625-625	5.625	6.375	0.625	0.688
37505750-625	5.750	6.500	0.625	0.688
37506000-625	6.000	6.750	0.625	0.688
37506250-500	6.250	7.000	0.500	0.550
37506250-625	6.250	7.000	0.625	0.688
37506500-500	6.500	7.250	0.500	0.550
37506500-625	6.500	7.250	0.625	0.688
37506750-562	6.750	7.500	0.562	0.618
37506750-625	6.750	7.500	0.625	0.688
37507000-500	7.000	7.750	0.500	0.550
37507000-625	7.000	7.750	0.625	0.688
37507250-625	7.250	8.000	0.625	0.688
37507500-500	7.500	8.250	0.500	0.550
37507500-625	7.500	8.250	0.625	0.688
37507750-625	7.750	8.500	0.625	0.688
37508000-500	8.000	8.750	0.500	0.550
37508000-625	8.000	8.750	0.625	0.688
37508250-500	8.250	9.000	0.500	0.550
37508250-625	8.250	9.000	0.625	0.688
37508750-625	8.750	9.500	0.625	0.688
37508750-750	8.750	9.500	0.750	0.825
37509250-500	9.250	10.000	0.500	0.550
37509250-625	9.250	10.000	0.625	0.688
37509625-625	9.625	10.375	0.625	0.688
37509750-625	9.750	10.500	0.625	0.688
37510250-625	10.250	11.000	0.625	0.688
37510500-625	10.500	11.250	0.625	0.688



**Deep Loaded Lip Seals - Inch, cont'd.**

Part Number	Rod Diameter d	Groove Diameter D	Seal Height L <sub>1</sub>	Groove Height L
<b>3/8" CROSS SECTION ("F")</b>				
37510750-625	10.750	11.500	0.625	0.688
37511250-625	11.250	12.000	0.625	0.688
37511500-625	11.500	12.250	0.625	0.688
37512500-625	12.500	13.250	0.625	0.688
37513500-625	13.500	14.250	0.625	0.688
37515250-625	15.250	16.000	0.625	0.688
37534000-625	34.000	34.750	0.625	0.688
<b>7/16" CROSS SECTION ("F")</b>				
43702250-375	2.250	3.125	0.375	0.413
43704750-625	4.750	5.625	0.625	0.688
<b>1/2" CROSS SECTION ("F")</b>				
50001500-750	1.500	2.500	0.750	0.825
50001750-750	1.750	2.750	0.750	0.825
50002000-750	2.000	3.000	0.750	0.825
50002500-750	2.500	3.500	0.750	0.825
50003000-750	3.000	4.000	0.750	0.825
50003500-750	3.500	4.500	0.750	0.825
50004000-750	4.000	5.000	0.750	0.825
50004500-750	4.500	5.500	0.750	0.825
50005000-750	5.000	6.000	0.750	0.825
50005500-750	5.500	6.500	0.750	0.825
50006000-750	6.000	7.000	0.750	0.825
50006500-750	6.500	7.500	0.750	0.825
50007000-750	7.000	8.000	0.750	0.825
50007500-750	7.500	8.500	0.750	0.825
50008000-750	8.000	9.000	0.750	0.825
50008250-750	8.250	9.250	0.750	0.825
50008500-750	8.500	9.500	0.750	0.825
50009500-750	9.500	10.500	0.750	0.825
50010750-750	10.750	11.750	0.750	0.825
50011000-750	11.000	12.000	0.750	0.825
50011500-750	11.500	12.500	0.750	0.825
50012500-750	12.500	13.500	0.750	0.825
50013500-750	13.500	14.500	0.750	0.825

Part Number	Rod Diameter d	Groove Diameter D	Seal Height L <sub>1</sub>	Groove Height L
<b>1/2" CROSS SECTION ("F")</b>				
50014000-750	14.000	15.000	0.750	0.825
50015000-750	15.000	16.000	0.750	0.825
50016000-750	16.000	17.000	0.750	0.825
50017000-750	17.000	18.000	0.750	0.825
50019000-750	19.000	20.000	0.750	0.825
50020000-750	20.000	21.000	0.750	0.825
50020500-750	20.500	21.500	0.750	0.825
50021500-750	21.500	22.500	0.750	0.825
50030000-625	30.000	31.000	0.625	0.688
50037000-750	37.000	38.000	0.750	0.825
<b>5/8" CROSS SECTION ("F")</b>				
62504750-1000	4.750	6.000	1.000	1.100
62506500-1000	6.500	7.750	1.000	1.100
62506750-1000	6.750	8.000	1.000	1.100
62508750-1000	8.750	10.000	1.000	1.100
62510000-1000	10.000	11.250	1.000	1.100
62512000-1000	12.000	13.250	1.000	1.100
<b>3/4" CROSS SECTION ("F")</b>				
75006250-1250	6.250	7.750	1.250	1.375
75006500-1250	6.500	8.000	1.250	1.375
75007000-1250	7.000	8.500	1.250	1.375
75008500-1250	8.500	10.000	1.250	1.375
75009000-1250	9.000	10.500	1.250	1.375
75015000-1250	15.000	16.500	1.250	1.375
75016500-1250	16.500	18.000	1.250	1.375
75018000-1250	18.000	19.500	1.250	1.375
75020000-1250	20.000	21.500	1.250	1.375
75021000-1250	21.000	22.500	1.250	1.375
75022000-1250	22.000	23.500	1.250	1.375
75022500-1250	22.500	24.000	1.250	1.375
<b>1" CROSS SECTION ("F")</b>				
100025000-1343	25.000	27.000	1.343	1.477