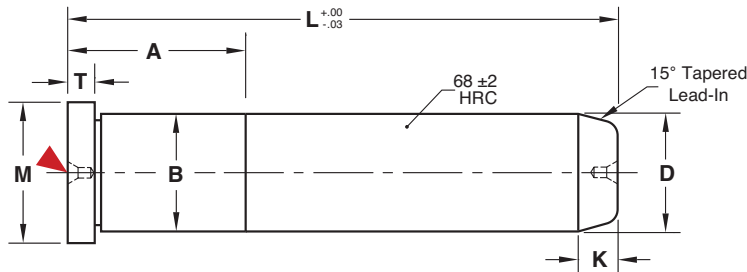




# LEADER PINS BLACK NITRIDE

Progressive's Die Cast Leader Pins and Bushings are engineered to maximize performance and longevity, including hard-to-align dies with diagonal thermal expansion.



**M** AISI 1117 **H** Surface: 66-70 HRC **S** Black Nitride (SBN)

L	D=1"		D=1-1/4"		D=1-1/2"		D=2"		D=2-1/2"		D=3"	
	A	Catalog Number	A	Catalog Number	A	Catalog Number	A	Catalog Number	A	Catalog Number	A	Catalog Number
7-1/4	1-7/8	LP100L7.25-BN	—	—	—	—	—	—	—	—	—	—
7-3/4	1-7/8	LP100L7.75-BN	1-7/8	LP125L7.75-BN	1-7/8	LP150L7.75-BN	1-7/8	LP200L7.75-BN	—	—	—	—
8-1/4	—	—	1-7/8	LP125L8.25-BN	—	—	—	—	—	—	—	—
8-3/4	—	—	—	—	1-7/8	LP150L8.75-BN	1-7/8	LP200L8.75-BN	2-3/8	LP250L8.75-BN	2-7/8	LP300L8.75-BN
9-3/4	—	—	—	—	—	—	1-7/8	LP200L9.75-BN	2-3/8	LP250L9.75-BN	—	—
10-3/4	—	—	—	LP125L10.75-BN	—	LP150L10.75-BN	—	LP200L10.75-BN	—	LP250L10.75-BN	2-7/8	LP300L10.75-BN
12-3/4	—	—	—	—	—	—	—	—	—	—	2-7/8	LP300L12.75-BN
15-3/4	—	—	—	—	—	—	1-7/8	LP200L15.75-BN	2-3/8	LP250L15.75-BN	—	—
18-3/4	—	—	—	—	—	—	2-3/8	LP200L18.75-BN	2-3/8	LP250L18.75-BN	2-7/8	LP300L18.75-BN

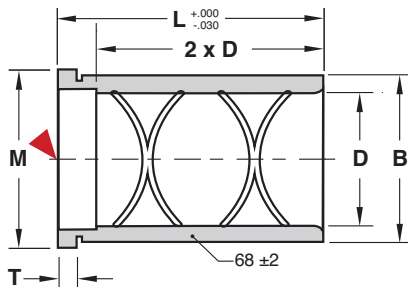
## General Dimensions

▶ CAD insertion point

Nominal Diameter	D ±.0005	M +.00 -.01	T +.000 -.002	B +.0005 -.0000	K
1	.999	1.240	.250	1.001	3/16
1-1/4	1.249	1.490	.312	1.251	1/4
1-1/2	1.499	1.740	.312	1.501	1/4

Nominal Diameter	D ±.0005	M +.00 -.01	T +.000 -.002	B +.0005 -.0000	K
2	1.999	2.240	.312	2.001	1/2
2-1/2	2.499	2.740	.312	2.501	1/2
3	2.999	3.365	.500	3.001	1/2

Note: For additional diameters or lengths of Pins and Bushings, contact Customer Service for a quotation.



# SHOULDER BUSHINGS BLACK NITRIDE



**M** AISI 1117 **H** Surface: 66-70 HRC **S** Black Nitride (SBN)

L	D=1"	D=1-1/4"	D=1-1/2"	D=2"	D=2-1/2"	D=3"
4-7/8	STL100L4.87-BN	STL125L4.87-BN	STL150L4.87-BN	STL200L4.87-BN	STL250L4.87-BN	STL300L4.87-BN
5-7/8	STL100L5.87-BN	STL125L5.87-BN	STL150L5.87-BN	STL200L5.87-BN	STL250L5.87-BN	STL300L5.87-BN
7-7/8	—	—	—	—	—	STL300L7.87-BN

## General Dimensions

▶ CAD insertion point

Nominal Diameter	D +.0005 -.0000	B +.0005 -.0000	M +.00 -.03	T +.00 -.01
1	1.0005	1.3755	1.552	.187
1-1/4	1.2505	1.6255	1.802	.187
1-1/2	1.5005	2.0005	2.177	.187

Nominal Diameter	D +.0005 -.0000	B +.0005 -.0000	M +.00 -.03	T +.00 -.01
2	2.0005	2.5005	2.677	.187
2-1/2	2.5005	3.2505	3.427	.187
3	3.0005	3.7505	3.990	.500