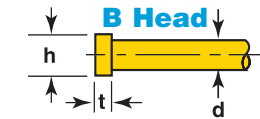
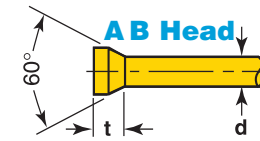


PORTER Perforators and Support Sleeves

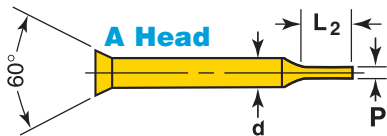
N & LN Series



All Nib Perforators are M-2 Steel RC 60-63
Heads Drawn RC 40-55
Zero-Temp (Deep-Cryogenic)
Available with Nitrogenic Treatment for added wear resistance.



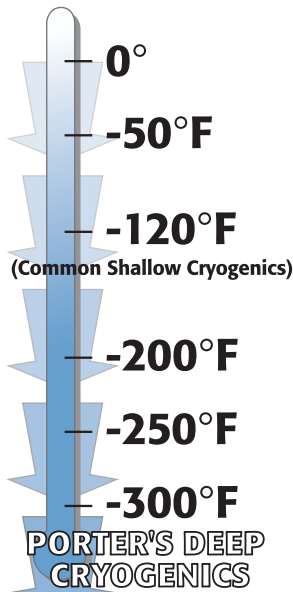
T.I.R. Point to body .0003
* Shorter Lengths are available, please ask for quote.



Ordering Example:

Qty. Cat. No. x L x ØP Head Style
12 N5 x 2.0 x .145 AB
16 LN5 x 2.5 x .145 AB

Catalog No.	N L ₂	d	h	t	L in .25" increments	P ^{+0.003} / _{+0.000}	LN L ₂	Catalog Number
N-0	.125	.062	.100	.093	1.50 to 2.50	.031 - .044 .045 - .061	.250 .312	LN-0
N-1	.156	.078	.115	.093	1.50 to 2.50	.045 - .061 .062 - .077	.312 .437	LN-1
N-2	.187	.093	.130	.093	1.50 to 2.75	.060 - .074 .075 - .092	.437 .500	LN-2
N-3	.250	.125	.160	.093	1.50 to 2.75	.075 - .124	.562	LN-3
N-4	.312	.156	.190	.093	1.50 to 2.75	.093 - .155	.750	LN-4
N-5	.437	.187	.220	.125	1.75 to 3.00	.109 - .186	.875	LN-5
N-6	.468	.218	.250	.125	1.75 to 3.00	.125 - .217	1.000	LN-6
N-7	.500	.250	.280	.125	2.00 to 3.00	.150 - .249	1.125	LN-7
N-8	.562	.312	.355	.187	2.00 to 3.50	.187 - .311	1.187	LN-8
N-9	.687	.375	.415	.187	2.00 to 4.00	.255 - .374	1.312	LN-9
N-10	.687	.438	.563	.187	2.50 to 4.00	.262 - .437	1.312	LN-10
N-11	.687	.500	.625	.187	2.50 to 4.00	.300 - .499	1.312	LN-11
N-12	.687	.562	.687	.187	2.50 to 4.00	.337 - .561	1.312	LN-12
N-13	.687	.625	.750	.187	2.50 to 4.00	.375 - .624	1.312	LN-13
N-14	.750	.719	.814	.250	2.50 to 4.50	.415 - .718	1.437	LN-14
N-15	.750	.812	.937	.250	2.50 to 4.50	.487 - .811	1.437	LN-15
N-16	.812	.906	1.031	.250	2.50 to 5.00	.544 - .905	1.562	LN-16
N-17	.812	1.000	1.125	.250	2.50 to 5.00	.600 - .999	1.562	LN-17
N-18	.875	1.125	1.250	.250	2.50 to 5.50	.675 - 1.124	1.687	LN-18
N-19	.875	1.250	1.375	.250	2.50 to 5.50	.750 - 1.249	1.687	LN-19
N-20	.937	1.438	1.563	.250	2.75 to 6.00	.863 - 1.437	1.812	LN-20
N-21	.937	1.625	1.750	.250	2.75 to 6.00	.975 - 1.624	1.812	LN-21



THEN TEMPERED!

All Porter Perforators are "Deep Cryogenically" treated for

1. Wear
 2. Toughness
 3. Dimensional Stability
- See page 42 for more details.

CSS Punch Support Sleeve and CSP Perforators

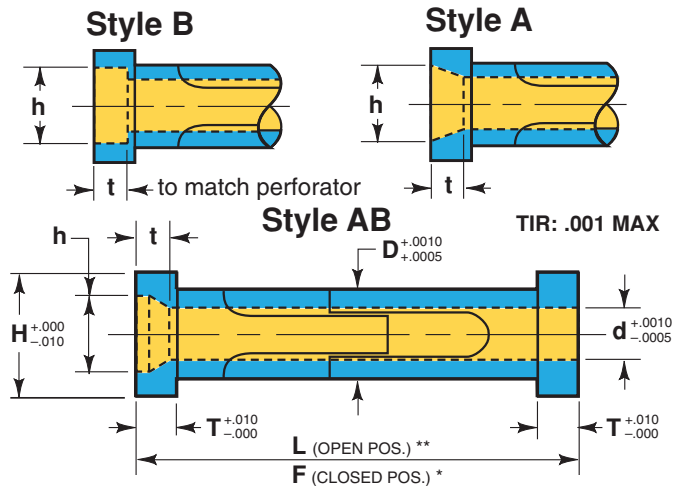
Material:
Sleeve - stress proof material
Perforator - M2 Rc 60-63 heads drawn ZeroTemp (Deep Cryogenic) treated

When Ordering Sleeve Specify:

Qty. Cat. No. x d Style
6 CSS2 x .110 AB

When Ordering Perforator Specify:

Qty. Cat. No. x d Style
18 CSP2 x .110 AB



Catalog No.		d .001 increment	h	t	D	H	T	L**	F*	K***
CSS-3/0	CSP-3/0	.025 - .029	Punch head diameter +.015	.094	.1562	.218	.094	1.187	1.06	.12
CSS-2/0	CSP-2/0	.030 - .034		.094	.1875	.250	.094	1.312	1.18	.12
CSS-1/0	CSP-1/0	.035 - .039		.094	.1875	.250	.094	1.312	1.18	.12
CSS-0	CSP-0	.040 - .062		.094	.1875	.250	.094	1.500	1.31	.18
CSS-1	CSP-1	.063 - .093		.094	.2500	.375	.125	2.000	1.75	.25
CSS-2	CSP-2	.094 - .160		.094	.3125	.437	.125	2.125	1.75	.37
CSS-3	CSP-3	.161 - .218		.125	.3750	.500	.125	2.125	1.75	.37
CSS-4	CSP-4	.189 - .250		.125	.4375	.562	.125	2.500	2.00	.50
CSS-5	CSP-5	.251 - .310		.125	.5000	.625	.187	2.750	2.25	.50
		.311 - .325		.187	.187	.6250	.750	.187	3.125	2.37
CSS-6	CSP-6	.326 - .385		.187	.6250	.750	.187	3.125	2.37	.75

*Minimum closed length **Also length of perforator ***Length of stroke