

# BLHN SERIES - SCHEDULE 80 BLACK STEEL PIPE NIPPLES

## SPECIFICATIONS:

- Dimensions conform to ASTM A733 (Standard Specification for Welded and Seamless Carbon Steel and Austenitic Stainless Steel Pipe Nipples)
- Materials conform to ASTM A106 Grade B - Seamless Pipe (Standard Specification for Seamless Carbon Steel Pipe for High-Temperature Service)
- Threads conform to ANSI/ASME B1.20.1 (Standard on Pipe Threads, General Purpose, Inch)
- CRN (Canadian Registration Number) Listed



MATERIAL LIST	
Element Name	Percent of Composition
<b>Black Steel</b>	
Iron (Fe)	≥ 96.0
Carbon (C)	0.30 max
Manganese (Mn)	0.29-1.06
Phosphorus (P)	0.035 max
Sulfur (S)	0.035 max
Silicon (Si)	0.10 min
Chrome (Cr)	0.40 max
Copper (Cu)	0.40 max
Molybdenum (Mo)	0.15 max
Nickel (Ni)	0.40 max
Vanadium (V)	0.08 max

DIMENSIONS						
Part No.	Nominal Pipe Size	Close Length	Outside Diameter		Wall Thickness	
			in	mm	in	mm
BLHN-01xxx	1/8"	3/4"	0.405	10.28	0.095	2.41
BLHN-02xxx	1/4"	7/8"	0.540	13.71	0.119	3.02
BLHN-03xxx	3/8"	1"	0.675	17.14	0.126	3.20
BLHN-05xxx	1/2"	1-1/8"	0.840	21.33	0.147	3.73
BLHN-07xxx	3/4"	1-3/8"	1.050	26.67	0.154	3.91
BLHN-10xxx	1"	1-1/2"	1.315	33.40	0.179	4.54
BLHN-12xxx	1-1/4"	1-5/8"	1.660	42.16	0.191	4.85
BLHN-15xxx	1-1/2"	1-3/4"	1.900	48.26	0.200	5.08
BLHN-20xxx	2"	2"	2.375	60.32	0.218	5.53
BLHN-25xxx	2-1/2"	2-1/2"	2.875	73.02	0.276	7.01
BLHN-30xxx	3"	2-5/8"	3.500	88.90	0.300	7.62
BLHN-40xxx	4"	2-7/8"	4.500	114.3	0.337	8.55

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INDUSTRIES

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BII-BLHN-1223(1202N)

Pipe Size Length	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
Close	BLHN-01	BLHN-02	BLHN-03	BLHN-05	BLHN-07	BLHN-10	BLHN-12	BLHN-15	BLHN-20	BLHN-25	BLHN-30	BLHN-40
1-1/2"	BLHN-0115	BLHN-0215	BLHN-0315	BLHN-0515	BLHN-0715	-	-	-	-	-	-	-
2"	BLHN-0120	BLHN-0220	BLHN-0320	BLHN-0520	BLHN-0720	BLHN-1020	BLHN-1220	BLHN-1520	-	-	-	-
2-1/2"	BLHN-0125	BLHN-0225	BLHN-0325	BLHN-0525	BLHN-0725	BLHN-1025	BLHN-1225	BLHN-1525	BLHN-2025	-	-	-
3"	BLHN-0130	BLHN-0230	BLHN-0330	BLHN-0530	BLHN-0730	BLHN-1030	BLHN-1230	BLHN-1530	BLHN-2030	BLHN-2530	BLHN-3030	-
3-1/2"	BLHN-0135	BLHN-0235	BLHN-0335	BLHN-0535	BLHN-0735	BLHN-1035	BLHN-1235	BLHN-1535	BLHN-2035	BLHN-2535	BLHN-3035	BLHN-4035
4"	BLHN-0140	BLHN-0240	BLHN-0340	BLHN-0540	BLHN-0740	BLHN-1040	BLHN-1240	BLHN-1540	BLHN-2040	BLHN-2540	BLHN-3040	BLHN-4040
4-1/2"	BLHN-0145	BLHN-0245	BLHN-0345	BLHN-0545	BLHN-0745	BLHN-1045	BLHN-1245	BLHN-1545	BLHN-2045	BLHN-2545	BLHN-3045	BLHN-4045
5"	BLHN-0150	BLHN-0250	BLHN-0350	BLHN-0550	BLHN-0750	BLHN-1050	BLHN-1250	BLHN-1550	BLHN-2050	BLHN-2550	BLHN-3050	BLHN-4050
5-1/2"	BLHN-0155	BLHN-0255	BLHN-0355	BLHN-0555	BLHN-0755	BLHN-1055	BLHN-1255	BLHN-1555	BLHN-2055	BLHN-2555	BLHN-3055	-
6"	BLHN-0160	BLHN-0260	BLHN-0360	BLHN-0560	BLHN-0760	BLHN-1060	BLHN-1260	BLHN-1560	BLHN-2060	BLHN-2560	BLHN-3060	BLHN-4060
7"	BLHN-0170	BLHN-0270	BLHN-0370	BLHN-0570	BLHN-0770	BLHN-1070	BLHN-1270	BLHN-1570	BLHN-2070	BLHN-2570	BLHN-3070	-
8"	BLHN-0180	BLHN-0280	BLHN-0380	BLHN-0580	BLHN-0780	BLHN-1080	BLHN-1280	BLHN-1580	BLHN-2080	BLHN-2580	BLHN-3080	BLHN-4080
9"	BLHN-0190	BLHN-0290	BLHN-0390	BLHN-0590	BLHN-0790	BLHN-1090	BLHN-1290	BLHN-1590	BLHN-2090	BLHN-2590	-	-
10"	BLHN-01100	BLHN-02100	BLHN-03100	BLHN-05100	BLHN-07100	BLHN-10100	BLHN-12100	BLHN-15100	BLHN-20100	BLHN-25100	BLHN-30100	BLHN-40100
11"	BLHN-01110	BLHN-02110	BLHN-03110	BLHN-05110	BLHN-07110	BLHN-10110	BLHN-12110	BLHN-15110	BLHN-20110	BLHN-25110	BLHN-30110	BLHN-40110
12"	BLHN-01120	BLHN-02120	BLHN-03120	BLHN-05120	BLHN-07120	BLHN-10120	BLHN-12120	BLHN-15120	BLHN-20120	BLHN-25120	BLHN-30120	BLHN-40120

Always refer to and install all pipe nipples in accordance with applicable national and local plumbing and building codes. It is the sole responsibility of the end user to ensure the product meets all codes and regulations for the application in which the product will be used.



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Maximum Working Pressure (PSI) for ASTM A106 Grade B Carbon Steel Seamless Threaded Pipe Nipples - Schedule 80								
Nominal Pipe Size	Wall Thickness (in)	Temperature						
		-20 to 100 °F	200 °F	300 °F	400 °F	500 °F	600 °F	650 °F
		-28.8 to 37.7 °C	93.3 °C	148.8 °C	204.4 °C	260.0 °C	315.5 °C	343.3 °C
1/8"	0.095	5820			5500	5035	4945	
1/4"	0.119	4805			4540	4155	4085	
3/8"	0.126	4235			4000	3660	3600	
1/2"	0.147	3655			3455	3160	3105	
3/4"	0.154	3145			2970	2720	2670	
1"	0.179	2795			2640	2420	2375	
1-1/4"	0.191	2465			2330	2135	2095	
1-1/2"	0.200	2320			2195	2010	1975	
2"	0.218	2125			2010	1840	1810	
2-1/2"	0.276	2050			1935	1775	1740	
3"	0.300	1930			1825	1670	1640	
4"	0.337	1795			1695	1550	1525	

Note: Pressure rating charts should be used as a guide only. For pressures over the stated maximum or temperatures over 100 °F (37.7 °C), independent testing by the end user is recommended. It is solely the end user's responsibility to determine the suitability of the pipe nipple for the intended service.

For more information on installation, adjustment, repair & operation, visit Boshart Knowledge Base at

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