

BRN & BRRCP SERIES - SCHEDULE 40 BRASS NIPPLES & READY CUT PIPE

APPLICATIONS:

- Ideal for use in high corrosion installations such as barns, underground installations, wells, basements or any other damp environments.

FEATURES:

- Red Brass Nipples are produced from red brass pipe which has higher copper content than yellow brass and offers much better corrosion resistance from water and resists attack from salt water and minerals contained in water.
- Longer life span than galvanized fittings.

SPECIFICATIONS:

- Material conforms to ASTM B43
- Dimensions conform to ASTM B687 Standard Specification for Brass Nipples
- Threads conform to ANSI/ASME B1.20.1
- C23000 No Lead Red Brass

Alloy C23000 No Lead Red Brass		
Elements	Minimum %	Maximum %
Cu (1)	84.00	86.00
Pb	0.00	0.05
Zn		Remainder
Fe	0.000	0.050

The C23000 Red Brass Alloy schedule 40 pipe used in the manufacture of the brass pipe nipples contains 0.0 to 0.5% Maximum Pb, well below the NSF/ANSI 372 No-Lead Test Criteria of <0.25% Pb by Weighted Average.



Copper and its alloys, such as brass and bronze, possess intrinsic and continuous broad-spectrum antimicrobial properties. These materials have been shown to kill more than 99.9% of bacteria within two hours of contact, including harmful pathogens like MRSA (Methicillin-resistant Staphylococcus aureus) and E. coli. The antimicrobial efficacy of copper alloys remains effective throughout the product's lifetime and does not diminish with tarnishing.

~Teck Resources Limited, and KPMG1. Utilizing Antimicrobial Copper for Safer Communities. 2021.

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RATINGS:

FOR REFERENCE ONLY ! This information is a reference guide only. Specifying the correct pipe schedule and pressure class of fitting depends on many factors. It is the ultimate responsibility of the end user's piping engineer to specify the correct pipe schedule and pressure class of fitting which will meet the maximum operating pressures / temperatures of the system for safe operation in the intended application.

MAXIMUM WORKING PRESSURE GUIDE - ALLOWABLE (PSI) @ TEMPERATURE (°F / °C) ASTM 843 Red Brass Seamless Pipe Nipples							
Nominal Pipe Size	Schedule No.	Weight Class	Wall Thickness	Temperature			
				100°F	200°F	300°F	400°F
				37.7°C	93.3°C	148.8°C	204.4°C
1/8"	40	STD	0.062	370	370	320	140
1/4"	40	STD	0.082	870	870	760	330
3/8"	40	STD	0.9	890	890	780	340
1/2"	40	STD	0.107	900	900	790	340
3/4"	40	STD	0.114	810	810	710	310
1"	40	STD	0.126	630	630	560	240
1-1/4"	40	STD	0.146	690	690	610	260
1-1/2"	40	STD	0.15	630	630	560	240
2"	40	STD	0.156	540	540	480	210
2-1/2"	40	STD	0.187	450	450	390	170
3"	40	STD	0.219	510	510	450	190
3-1/2"	40	STD	0.25	570	570	500	220
4"	40	STD	0.25	510	510	440	190

NOTES:

- 1) All working pressures are Non-Shock.
- 2) Considerations were taken into account for the wall thickness material removed by threading. No allowances were made for corrosion, erosion, mechanical loads, and/or bending moments.
- 3) If temperatures and or working pressures higher than listed can be anticipated, consult the end user's piping engineer.



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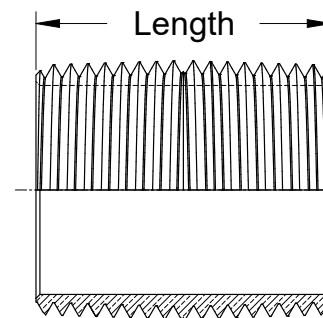
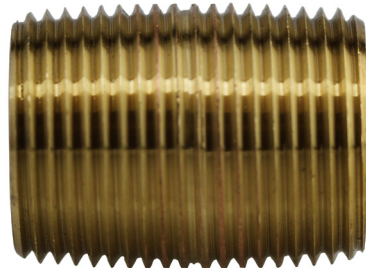
Schedule 40 Red Brass Pipe Size

Pipe Size	OD		Wall Thickness	
	Inches	mm	Inches	mm
1/8"	0.405	10.3	0.062	1.57
1/4"	0.54	13.7	0.082	2.08
3/8"	0.675	17.1	0.09	2.29
1/2"	0.84	21.3	0.107	2.72
3/4"	1.05	26.7	0.114	2.9
1"	1.315	33.4	0.126	3.2
1-1/4"	1.66	42.2	0.146	3.71
1-1/2"	1.9	48.3	0.15	3.81
2"	2.375	60.3	0.156	3.96
2-1/2"	2.875	73	0.187	4.75
3"	3.5	88.9	0.219	5.56
4"	4.5	114	0.25	6.35



Nipples with lengths up through 12 in. (305 mm) long shall have a length tolerance of $\pm 1/16$ in. (1.6mm). Nipples over 12 in. long are refer to as ready cut pipe and have a tolerance of $\pm 1/8$ in.(3.2 mm) as defined in ASTM B687.

Close Nipple-NPT



Pipe Size	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
Part No.	BRN-01	BRN-02	BRN-03	BRN-05	BRN-07	BRN-10	BRN-12	BRN-15	BRN-20	BRN-25	BRN-30	BRN-40
Length	3/4"	7/8"	1"	1-1/8"	1-3/8"	1-1/2"	1-5/8"	1-3/4"	2"	2-1/2"	2-5/8"	2-7/8"

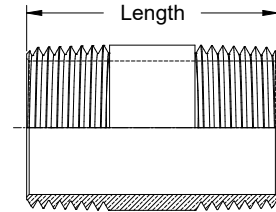
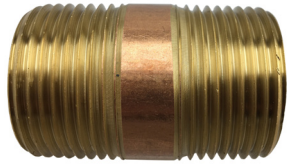
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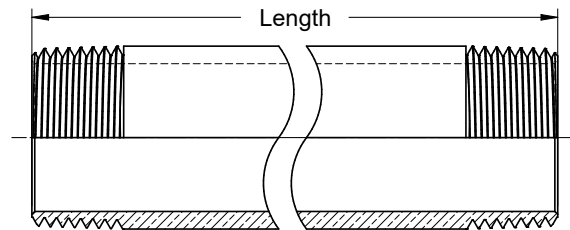
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Shoulder Nipple-NPT

Shoulder nipples are longer than a close nipple and include a very short unthreaded space between the threads. The unthreaded space is not large enough to fit a pipe wrench. When two female fittings are screwed onto either end, a small piece of nipple will remain exposed. A shoulder nipple is the first length of nipple that is available up from a close nipple.



Pipe Nipple-NPT



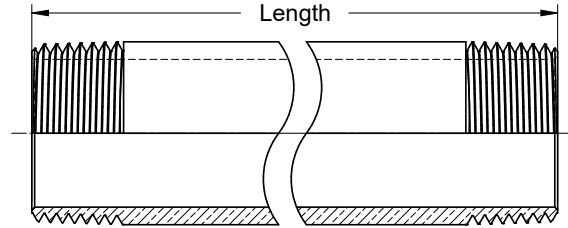
Pipe Size Length	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"
1-1/2"	BRN-0115	BRN-0215	BRN-0315	BRN-0515	BRN-0715		
2"	BRN-0120	BRN-0220	BRN-0320	BRN-0520	BRN-0720	BRN-1020	BRN-1220
2-1/2"	BRN-0125	BRN-0225	BRN-0325	BRN-0525	BRN-0725	BRN-1025	BRN-1225
3"	BRN-0130	BRN-0230	BRN-0330	BRN-0530	BRN-0730	BRN-1030	BRN-1230
3-1/2"	BRN-0135	BRN-0235	BRN-0335	BRN-0535	BRN-0735	BRN-1035	BRN-1235
4"	BRN-0140	BRN-0240	BRN-0340	BRN-0540	BRN-0740	BRN-1040	BRN-1240
4-1/2"	BRN-0145	BRN-0245	BRN-0345	BRN-0545	BRN-0745	BRN-1045	BRN-1245
5"	BRN-0150	BRN-0250	BRN-0350	BRN-0550	BRN-0750	BRN-1050	BRN-1250
5-1/2"	BRN-0155	BRN-0255	BRN-0355	BRN-0555	BRN-0755	BRN-1055	BRN-1255
6"	BRN-0160	BRN-0260	BRN-0360	BRN-0560	BRN-0760	BRN-1060	BRN-1260
7"	BRN-0170	BRN-0270	BRN-0370	BRN-0570	BRN-0770	BRN-1070	
8"	BRN-0180	BRN-0280	BRN-0380	BRN-0580	BRN-0780	BRN-1080	BRN-1280
9"	BRN-0190	BRN-0290	BRN-0390	BRN-0590	BRN-0790	BRN-1090	BRN-1290
10"	BRN-01100	BRN-02100	BRN-03100	BRN-05100	BRN-07100	BRN-10100	BRN-12100
11"						BRN-10110	
12"	BRN-01120	BRN-02120	BRN-03120	BRN-05120	BRN-07120	BRN-10120	BRN-12120
Ready Cut Pipe							
18"				BRRCP-05180	BRRCP-07180	BRRCP-10180	BRRCP-12180
24"				BRRCP-05240	BRRCP-07240	BRRCP-10240	BRRCP-12240
30"				BRRCP-05300	BRRCP-07300	BRRCP-10300	BRRCP-12300
36"				BRRCP-05360	BRRCP-07360	BRRCP-10360	BRRCP-12360



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Pipe Nipple-NPT



Pipe Size \ Length	1-1/2"	2"	2-1/2"	3"	4"
2"	BRN-1520				
2-1/2"	BRN-1525	BRN-2025			
3"	BRN-1530	BRN-2030	BRN-2530	BRN-3030	
3-1/2"	BRN-1535	BRN-2035	BRN-2535	BRN-3035	BRN-4035
4"	BRN-1540	BRN-2040	BRN-2540	BRN-3040	BRN-4040
4-1/2"	BRN-1545	BRN-2045	BRN-2545	BRN-3045	BRN-4045
5"	BRN-1550	BRN-2050	BRN-2550	BRN-3050	BRN-4050
5-1/2"	BRN-1555	BRN-2055	BRN-2555	BRN-3055	
6"	BRN-1560	BRN-2060	BRN-2560	BRN-3060	BRN-4060
7"		BRN-2070			
8"	BRN-1580	BRN-2080	BRN-2580	BRN-3080	BRN-4080
9"		BRN-2090			
10"	BRN-15100	BRN-20100	BRN-25100	BRN-30100	
11"					
12"	BRN-15120	BRN-20120	BRN-25120	BRN-30120	BRN-40120
Ready Cut Pipe					
18"	BRRCP-15180	BRRCP-20180			
24"	BRRCP-15240	BRRCP-20240			
30"	BRRCP-15300	BRRCP-20300			
36"	BRRCP-15360	BRRCP-20360			
48"		BRRCP-20480			

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

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