



**SEAMLESS  
CARBON STEEL  
PIPE FOR  
UNMATCHED  
INDUSTRIAL  
STRENGTH**



[www.bri-steel.com](http://www.bri-steel.com)



EXPANDING THE FUTURE OF STEEL PIPE

## OUR MISSION

We are entrepreneurs at heart. Encouraging boldness and innovation. Driven by curiosity and a relentless pursuit of excellence. We aim to push the boundaries of what's possible in the seamless pipe industry.



# THE BRI-STEEL ADVANTAGE

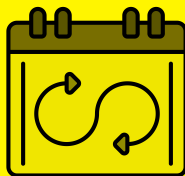


## EFFICIENCY

We prioritize fast and streamlined processes to ensure timely deliveries, without compromising on quality. This allows us to consistently meet the needs of our clients.

## RELIABILITY

Bri-Steel is committed to reliability, ensuring every product meets rigorous industry standards. With a proven track record, they deliver precision-engineered solutions that customers can trust.



## FLEXIBILITY

We offer customized steel pipe solutions tailored to fit your unique needs. Our team works closely with customers to provide flexible options that align with their exact specifications..

## EXCELLENT CRAFTSMANSHIP

Each pipe is crafted to the highest standards of quality and precision, guaranteeing it looks as impressive as it performs.



## LEADERS IN SEAMLESS PIPE SOLUTIONS

**Bri-Steel Manufacturing** excels in producing high-quality Seamless Carbon Steel Pipe. Bri-Steel is renowned for its commitment to precision engineering and customer satisfaction. With years of experience in the manufacturing industry, Bri-Steel's team of experts leverages **advanced technology alongside traditional craftsmanship** to deliver exceptional solutions for various industries. With locations in the US and Canada, we are well-positioned to serve a diverse range of clients.

## OUR EXPERTISE, YOUR SOLUTION

**Bri-Steel Manufacturing** produces seamless carbon steel pipes ranging from **12" to 36" OD**, with wall thicknesses up to 3.25 inches. These pipes are crafted to meet rigorous industry standards, including **CSA, ASTM, ASME, and API**, ensuring top-quality performance and reliability for various applications.

## CAREERS

Joining **Bri-Steel Manufacturing** offers an exciting opportunity to work with a leader in innovation and quality. With a focus on **safety, teamwork, and career growth**, Bri-Steel is the ideal place for those looking to advance in the manufacturing industry. Explore a range of roles, contribute to cutting-edge projects, and **help shape the future of steel production**.







# WELDED VS. SEAMLESS PIPE

Seamless pipes are often preferred over welded pipes due to their **superior strength, durability, and performance in critical applications.**

## MANUFACTURING PROCESS

- **Seamless Pipe:** Made from a solid steel billet, heated, and extruded into a hollow tube. No weld seam eliminates weak points.
- **Welded Pipe:** Formed from a flat steel plate, rolled, and welded along the seam, which can be a potential failure point.

## SEAMLESS PERFORMANCE ADVANTAGES

- **Strength & Durability:** Seamless pipes have a uniform micro structure, handle higher pressures, and is more suitable for sour service applications.
- **Corrosion Resistance:** No weld seam reduces the risk of corrosion in harsh environments.
- **Longevity:** Lower risk of failure or leaks results in a longer service life.

## SEAMLESS APPLICATION SUITABILITY

- Ideal for **oil & gas, power plants, petrochemicals, and high-pressure systems** where strength and reliability are crucial.
- Offers better **dimensional flexibility** for precision engineering applications.

## ECONOMIC & PRACTICAL CONSIDERATIONS

- **Cost:** Seamless pipes are more expensive but offer long-term savings through durability and reduced maintenance.
- **Availability:** Welded pipes are more readily available for standard applications.
- **Quality Control:** Seamless pipes undergo rigorous testing to meet stringent industry standards.

# BRI-STEEL MANUFACTURING SPECIFICATIONS

SIZES: NPS 12-36" OUTSIDE DIAMETER | WALL THICKNESSES OF UP TO 3.25"

## ASTM/ASME A/SA53

Gr.A: 30 ksi (205 MPa) YS, 48 ksi (330 MPa) UTS,  
Not Impact Tested  
Gr.B: 35 ksi (240 MPa) YS, 60 ksi (415 MPa) UTS,  
Not Impact Tested  
NPS 14 to 36 SMLS, All Wall Thicknesses  
Must Complete one of Hydrotesting, UT or ET  
End Finishes: Plain End, Bevel

## ASTM/ASME A/SA333 Grade 6

Steel Pipe for Low Temp Service  
Gr.6: 35 ksi (240 MPa) YS, 60 ksi (415 MPa) TS,  
Impact 18J at -45°C  
NPS 14 to 36 SMLS, All Wall Thicknesses  
Must Complete one of Hydrotesting, UT or ET  
End Finishes: Plain End, Bevel

## NACE MR0175/ ISO 15156

Materials Resistant to Sulphide Stress Cracking in  
Corrosive Petroleum Refining Environments  
For carbon and low-alloy SMLS pipe steels, the  
following apply  
Max 1% Ni, Max 22 HRC Hardness, No cold work  
permitted

## CSA Z245.1

Steel Pipe  
Gr.241: 241-495 MPa YS, 414-760 MPa UTS  
Gr.290: 290-495 MPa YS, 414-760 MPa UTS  
Gr.359: 359-530 MPa YS, 455-760 MPa UTS  
Gr.386: 386-540 MPa YS, 490-760 MPa UTS  
Gr.414: 414-565 MPa YS, 517-760 MPa UTS  
Gr.448: 448-600 MPa YS, 531-760 MPa UTS  
Category I: Not Impact Tested  
Category II: Impact 27J \*; 60% Shear  
Category III: Impact 27J \*; No Shear Requirement  
\* End User specifies the test temperature.  
NPS 14 to 36 SMLS, All Wall Thicknesses  
Hydrostatic Testing and UT are Mandatory  
End Finishes: Plain End, Bevel  
End Finishes: Plain End, Bevel

## ASTM/ASME A/SA106 Grade B/C

Seamless Steel Pipe for High Temperature Service  
Gr.B: 35 ksi (240 MPa) YS, 60 ksi (415 MPa) UTS, Not  
Impact Tested  
Gr.C: 40 ksi (275 MPa) YS, 70 ksi (485 MPa) UTS,  
Not Impact Tested  
NPS 14 to 36 SMLS, All Wall Thicknesses  
Must Complete one of Hydrotesting, UT or ET  
End Finishes: Plain End, Bevel

## API 5L

Specification for Line Pipe  
Gr.B PSL1: 35.5ksi (245MPa) YS, 60.2ksi (415MPa)  
UTS, Not Impact Tested  
Gr.X42 PSL1: 42.1ksi (290MPa) YS, 60.2ksi (415MPa)  
UTS, Not Impact Tested  
Gr.X46 PSL1: 46.4ksi (320MPa) YS, 63.1ksi (435MPa)  
UTS, Not Impact Tested  
Gr.X52 PSL1: 52.2ksi (360MPa) YS, 66.7ksi (460MPa)  
UTS, Not Impact Tested  
Gr.X56 PSL1: 56.6ksi (390MPa) YS, 71.1ksi (490MPa)  
UTS, Not Impact Tested  
Gr.X60 PSL1: 60.2ksi (415MPa) YS, 75.4ksi (520MPa)  
UTS, Not Impact Tested  
Gr.X65 PSL1: 65.3ksi (450MPa) YS, 77.6ksi (535MPa)  
UTS, Not Impact Tested  
Gr.B PSL2: 35.5ksi (245MPa) YS, 60.2ksi (415MPa)  
UTS, Impact 27J at 0°C  
Gr.X42 PSL2: 42.1ksi (290MPa) YS, 60.2ksi (415MPa)  
UTS, Impact 27J at 0°C  
NPS 14 to 36 SMLS, All Wall Thicknesses  
Hydrostatic Testing is Mandatory, UT & ET when  
specified by end user  
End Finishes: Plain End, Bevel

## NACE MR0175/ ISO 15156

Production Refer to MR0175/ISO 15156-2 Annex  
A2 for Region 3 Applications  
For carbon and low-alloy hot-rolled SMLS pipe  
steels, the following apply  
Max 1% Ni, Max 22 HRC Hardness, No cold work  
permitted



<div> <div>BOLD figures = wall thickness (inches)</div> <div>ASME PIPE SCHEDULES</div> <div><i>Italic figures = weight (lbs) per foot</i></div> </div>																	
Pipe Size	O.D. in. (mm)	5s	TRUE 5	10s	TRUE 10	20	30	40s & STD	TRUE 40	60	80s & XH	TRUE 80	100	120	140	160	XXH
1/8	0.405 (10.8)		0.035 0.138	0.049 0.186	0.049 0.186		0.057 0.212	0.068 0.245	0.068 0.245		0.095 0.315	0.095 0.315					
1/4	0.540 (13.7)		0.049 0.257	0.065 0.330	0.065 0.330		0.073 0.364	0.088 0.425	0.088 0.425		0.119 0.535	0.119 0.535					
3/8	0.675 (17.1)		0.049 0.328	0.065 0.424	0.065 0.424		0.073 0.470	0.091 0.568	0.091 0.568		0.126 0.739	0.126 0.739					
1/2	0.840 (21.3)	0.065 0.538	0.065 0.538	0.083 0.671	0.083 0.671		0.095 0.757	0.109 0.851	0.109 0.851		0.147 1.088	0.147 1.088				0.187 1.304	0.294 1.714
3/4	1.050 (26.7)	0.065 0.684	0.065 0.684	0.083 0.857	0.083 0.857		0.095 0.970	0.113 1.131	0.113 1.131		0.154 1.474	0.154 1.474				0.218 1.937	0.308 2.441
1	1.315 (33.4)	0.065 0.868	0.065 0.868	0.109 1.404	0.109 1.404		0.114 1.464	0.133 1.679	0.133 1.679		0.179 2.172	0.179 2.172				0.250 2.844	0.358 3.659
1 1/4	1.66 (42.2)	0.065 1.107	0.065 1.107	0.109 1.806	0.109 1.806		0.117 1.930	0.140 2.273	0.140 2.273		0.191 2.997	0.191 2.997				0.250 3.765	0.382 5.214
1 1/2	1.900 (48.3)	0.065 1.274	0.065 1.274	0.109 2.087	0.109 2.087		0.125 2.372	0.145 2.718	0.145 2.718		0.200 3.631	0.200 3.631				0.281 4.859	0.400 6.408
2	2.375 (60.3)	0.065 1.604	0.065 1.604	0.109 2.638	0.109 2.638		0.125 3.007	0.154 3.653	0.154 3.653		0.218 5.022	0.218 5.022				0.344 7.462	0.436 9.029
2 1/2	2.875 (73.0)	0.083 2.475	0.083 2.475	0.120 3.531	0.120 3.531		0.188 5.400	0.203 5.793	0.203 5.793		0.276 7.661	0.276 7.661				0.375 10.01	0.552 13.70
3	3.500 (88.9)	0.083 3.029	0.083 3.029	0.120 4.332	0.120 4.332		0.188 6.656	0.216 7.576	0.216 7.576		0.300 10.25	0.300 10.25				0.437 14.32	0.600 18.58
3 1/2	4.000 (101.6)	0.083 3.472	0.083 3.472	0.120 4.970	0.120 4.970		0.188 7.661	0.226 9.109	0.226 9.109		0.318 12.51	0.318 12.51					0.636 22.85
4	4.500 (114.3)	0.083 3.915	0.083 3.915	0.120 5.613	0.120 5.613		0.188 8.666	0.237 10.79	0.237 10.79	0.281 12.66	0.337 14.98	0.337 14.98		0.437 19.01		0.531 22.51	0.674 27.54
4 1/2	5.000 (127.0)							0.247 12.53			0.355 17.61						0.710 32.53
5	5.563 (141.3)	0.109 6.349	0.109 6.349	0.134 7.770	0.134 7.770			0.258 14.62	0.258 14.62		0.375 20.78	0.375 20.78		0.500 27.04		0.625 32.96	0.750 38.55
6	6.625 (168.3)	0.109 7.585	0.109 7.585	0.134 9.289	0.134 9.289			0.280 18.97	0.280 18.97		0.432 28.57	0.432 28.57		0.562 36.39		0.718 45.30	0.864 53.16
8	8.625 (219.1)	0.109 9.914	0.109 9.914	0.148 13.40	0.148 13.40	0.250 22.36	0.277 24.70	0.322 28.55	0.322 28.55	0.406 35.64	0.500 43.39	0.500 43.39	0.593 50.87	0.718 60.63	0.812 67.76	0.906 74.69	0.875 72.42
10	10.750 (273.0)	0.134 15.19	0.134 15.59	0.165 18.65	0.165 18.65	0.250 28.04	0.307 34.24	0.365 40.48	0.365 40.48	0.500 54.74	0.500 54.74	0.593 64.33	0.718 76.93	0.843 89.20	1.000 104.1	1.125 115.7	1.000 104.1
12	12.750 (323.9)	0.156 21.07	0.165 22.18	0.180 24.20	0.180 24.20	0.250 33.38	0.330 43.77	0.375 49.56	0.406 53.53	0.562 73.16	0.500 65.42	0.687 88.51	0.843 107.2	1.000 125.5	1.125 139.7	1.312 160.3	1.000 125.5
14	14.000 (355.6)	0.156 23.06		0.188 27.73	0.250 36.71	0.312 45.68	0.375 54.57	0.375 54.57	0.437 63.67	0.593 84.91	0.500 72.09	0.750 106.1	0.937 130.7	1.093 150.7	1.250 170.2	1.406 189.1	1.000 138.8
16	16.000 (406.4)	0.165 27.90		0.188 31.75	0.250 42.05	0.312 52.36	0.375 62.58	0.375 62.58	0.500 82.77	0.656 107.5	0.500 82.77	0.843 136.5	1.031 164.8	1.218 192.3	1.437 223.5	1.593 245.1	1.000 160.2
18	18.000 (457)	0.165 31.43		0.188 35.76	0.250 47.39	0.312 59.03	0.437 82.06	0.375 70.59	0.562 104.8	0.750 138.2	0.500 93.45	0.937 170.8	1.156 208.0	1.375 244.1	1.562 274.2	1.781 308.5	1.000 181.6
20	20.000 (508)	0.188 39.78		0.218 46.05	0.250 52.73	0.375 78.60	0.500 104.1	0.375 78.60	0.593 122.9	0.812 166.4	0.500 104.1	1.031 208.9	1.281 256.1	1.500 296.4	1.750 341.1	1.968 379.0	1.000 202.9
22	22.000 (559)	0.188 43.80		0.250 58.07		0.375 86.61	0.500 114.8	0.375 86.61		0.875 197.4	0.500 114.8	1.125 250.8	1.375 302.9	1.625 353.6	1.875 403.0	2.125 451.1	1.000 224.3
24	24.000 (610)	0.218 55.37		0.250 63.41	0.250 63.41	0.375 94.62	0.562 140.8	0.375 94.62	0.687 171.2	0.968 238.1	0.500 125.5	1.218 296.4	1.531 367.4	1.812 429.4	2.062 483.1	2.343 541.9	1.000 245.6
26	26.000 (660)				0.312 85.60	0.500 136.2		0.375 102.6			0.500 136.2						1.000 267.0
28	28.000 (711)				0.312 92.26	0.500 146.8	0.625 182.7	0.375 110.6			0.500 147.0						1.000 288.4
30	30.000 (762)	0.250 79.43		0.312 98.93	0.312 98.93	0.500 157.5	0.625 196.1	0.375 118.6			0.500 157.5						1.000 309.7
32	32.000 (813)				0.312 105.6	0.500 168.2	0.625 209.4	0.375 126.7	0.688 230.1		0.500 168.2						1.000 331.1
34	34.000 (864)				0.312 112.3	0.500 178.9	0.625 222.8	0.375 134.7	0.688 244.8		0.500 179.1						1.000 352.4
36	36.000 (914)				0.312 118.9		0.625 236.1	0.375 142.7	0.750 282.3		0.500 189.6						1.000 373.8
40	40.000 (1016)							0.375 158.7			0.500 210.9						1.000 416.5
42	42.00 (1067)							0.375 166.7			0.500 221.6						1.000 437.9
48	48.00 (1219)							0.375 190.7			0.500 253.6						1.000 502.0
60	60.000 (1524)			Bri-Steel Manufacturing Production Range				0.375 238.8			0.500 317.73						1.000 630.1
72	72.000 (1829)										0.500 381.8						1.000 758.3



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