

Blue Brute is one of the most well known names in municipal water supply, as it has built up an enviable reputation for performance and reliability over the years. Blue Brute pipe and fittings eliminate the threat of corrosion, while providing reliable long-term service. While Blue Brute pipe is compatible with iron fittings, IPEX recommends the use of Blue Brute fittings as they are made to match the pipe, and eliminate the "Achilles heel" of many systems – corroding iron fittings.

It is advisable to specify pipe and fittings from the same manufacturer in order to ensure a completely matched system. Only by specifying Blue Brute fittings can you ensure that the fittings have the same long term strength as the pipe itself.



Applications:

Municipal water distribution systems and fire lines.

Irrigation, sewage forcemains, industrial lines.

Gasket Options For Contaminated Soils

Blue Brute pipe and fittings have removable gaskets. This allows oil resistant (nitrile) gaskets to be easily substituted when installing piping systems in contaminated soils. Please refer to Section 2 – Chemical Permeation and Resistance for more information on this topic.

Standards:

Blue Brute Pipe:

AWWA C900, CSA B137.3 certified, FM 1612 approved, UL 1285 listed, NSF 61 certified, Certified to NQ 36240-250















Blue Brute Fittings:

AWWA C907, CSA B137.2 (100mm – 300mm) certified, AWWA C900, CSA B137.3 (250mm – 300mm) certified, FM 1612 listed, UL 1285 listed























Short Form Specifications

General

Blue Brute pipe shall be certified to CSA B137.3 "Rigid Polyvinyl Chloride PVC Pipe for Pressure Applications" and shall conform to AWWA C900 "Polyvinyl Chloride (PVC) Pressure Pipe, 4" – 12" for Water Transmission and Distribution." Blue Brute DR25 pipe shall have a pressure class/rating of 1120 kPa (165 psi). DR18 pipe shall have a pressure class/rating of 1620 kPa (235 psi). DR14 pipe shall have a pressure class/rating of 2100 kPa (305 psi).

Material

Blue Brute pipe shall be made from PVC compound conforming to ASTM D1784 cell class 12454.

Product

Pipe shall be suitable for use at maximum hydrostatic working pressure equal to the pressure class/rating at 23°C (73°F). Laying lengths shall be 6.1 metres (20 feet). Pipe shall have cast-iron outside diameters. Each length of pipe must be proof-tested at two times the pressure class.

Joining

The gasket shall be carefully fitted to the bell groove if not already factory installed. Both bell and spigot shall be clean and free of debris before approved lubricant is applied. The pipe and/or fittings shall be joined by pushing the spigot into the bell to the depth line marked on the spigot. When pipe has

been cut in the field, the end shall be made square and beveled to a 15° chamfer. All insertion lines should be re-drawn, according to the IPEX Pressure Pipe Installation Guide.

Molded Fittings

Blue Brute fittings shall conform to AWWA C907 "Polyvinyl Chloride (PVC) Pressure Fittings for Water (4" through 12")" and be certified to CSA B137.2 "PVC Injection Molded Gasketed Fittings for Pressure Applications." They shall also be UL Listed and FM approved.

Fabricated Fittings

Fabricated fittings shall be made from segments of AWWA C900 PVC pipe. Segements are bonded together and may be over-wrapped with fibreglass-reinforced polyester. The pressure class must match the pipe. The fittings must meet the requirements of CSA B137.3.

Lubricant

Pipe must be assembled with IPEX non-toxic, water soluble lubricant listed by the National Sanitation Foundation.

Color Coding

Water pipe and fittings shall be color coded blue.

Dimensions:

Blue Brute pipes and fittings are manufactured with cast-iron outside diameters (CIOD), which means that they are compatible with much of the existing infrastructure of older

iron pipes. This means that no special transition fittings are needed with Blue Brute.

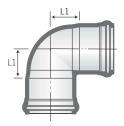
		DR 25 Class 165 AWWA pressure class 165 psi CSA pressure rating 1 130 kPa			DR 18 Class 235 AWWA pressure class 235 psi CSA pressure rating 1 620 kPa				DR 14 Class 305 AWWA pressure class 305 psi CSA pressure rating 2 130 kPa										
Si	ze	Avg	. ID		Wall mess	Avg.	OD	Avg	. ID		Wall mess	Avg.	OD	Avg	. ID		Wall ness	Avg.	. OD
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
4	100	4.42	112	0.192	4.88	4.80	122	4.27	108	0.267	6.78	4.80	122	4.11	104	0.343	8.71	4.80	122
6	150	6.35	161	0.276	7.01	6.90	175	6.13	155	0.383	9.73	6.90	175	5.91	149	0.493	12.52	6.90	175
8	200	8.33	212	0.362	9.20	9.05	230	8.05	204	0.502	12.80	9.05	230	7.76	198	0.646	16.42	9.05	230
10	250	10.21	260	0.444	11.30	11.10	282	9.87	250	0.616	15.70	11.10	282	9.51	242	0.793	20.14	11.10	282
12	300	12.15	309	0.527	13.41	13.20	335	11.73	297	0.733	18.62	13.20	335	11.31	287	0.943	23.95	13.20	335





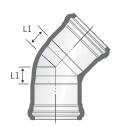
Bell OD for Joint Restraint Selection

Si	Size		mum	Maximum		
in	mm	in	mm	in	mm	
4	100	5.44	138	5.61	142	
6	150	7.84	199	8.03	204	
8	200	10.29	261	10.55	268	
10	250	12.63	322	12.96	329	
12	300	15.07	383	15.46	393	
14	350	17.28	439	17.73	450	
16	400	19.64	448	20.17	512	



90° Elbow

Si	ze	L1			
in	mm	in	mm		
4	100	2.6	67		
6	150	4.3	108		
8	200	5.5	140		



45° Elbow

Si	ze	L1			
in	mm	in	mm		
4	100	1.3	33		
6	150	1.8	46		
8	200	2.2	56		
10	250	2.7	70		
12	300	3.2	82		



22-1/2° Elbow

S	ize	L1			
in	mm	in	mm		
6	150	1.0	25		
8	200	1.1	28		
10	250	1.7	43		
12	300	1.9	48		

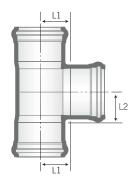


11-1/4° Elbow

Siz	ze	L1			
in	mm	in	mm		
4	100	3.0	75		
6	150	0.8	20		
8	200	0.9	23		

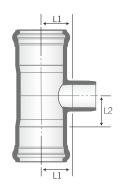
Note: Other DR's and sizes up to 48" (1200mm) are available on request.





Tee

Si	ze	L	1	L	2
in	mm	in	mm	in	mm
4 x 4 x 4	100 x 100 x 100	2.6	67	2.6	67
6 x 6 x 4	150 x 150 x 100	4.0	102	3.3	87
6 x 6 x 6	150 x 150 x 150	4.3	108	4.3	108
8 x 8 x 4	200 x 200 x 100	5.1	130	3.6	91
8 x 8 x 6	200 x 200 x 150	5.3	136	4.7	120
8 x 8 x 8	200 x 200 x 200	5.6	143	5.8	148
10 x 10 x 4	250 x 250 x 100	6.7	171	6.7	171
10 x 10 x 6	250 x 250 x 150	6.7	171	6.7	171
10 x 10 x 8	250 x 250 x 200	6.7	171	6.7	171
10 x 10 x 10	250 x 250 x 250	6.7	171	6.7	171
12 x 12 x 4	300 x 300 x 100	7.7	195	7.7	195
12 x 12 x 6	300 x 300 x 150	7.7	195	7.7	195
12 x 12 x 8	300 x 300 x 200	7.7	195	7.7	195
12 x 12 x 10	300 x 300 x 250	7.7	195	7.7	195
12 x 12 x 12	300 x 300 x 300	7.7	195	7.7	195



Hydrant Tee

Si	L	1	L2		
in	mm	in	mm	in	mm
10 x 10 x 6	250 x 250 x 150	7.0	178	6.7	171
12 x 12 x 6	300 x 300 x 150	8.1	206	7.7	195



Reducing Adapter Spigot x Bell

Size		L	.1	L2		
in	mm	in	mm	in	mm	
6 x 4	150 x 100	5.6	141	4.3	108	
8 x 6	200 x 150	6.5	165	5.7	145	
10 x 8	250 x 200	7.0	178	5.8	147	
12 x 10	300 x 250	7.9	202	6.6	167	



(available w/o center stop as a Repair Coupling)

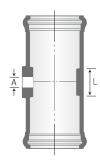


•	•	.			
Si	ze	L1			
in	mm	in	mm		
4	100	0.2	5		
6	150	0.3	8		
8	200	0.3	7		
10*	250	0.5	13		
12*	300	0.5	13		

^{*} One-piece machined coupling.

Note: 3/4" (20mm) Taps to 2" (50mm). Taps: AWWA Thread



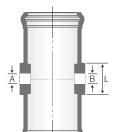


Single Tapped Coupling

S	ize	P	4	L	.1
in	mm	in	mm	in	mm
4 x 4 x 3/4	100 x 100 x 20	3/4	20	2.0	50
4 x 4 x 1	100 x 100 x 25	1	25	2.0	50
6 x 6 x 3/4	150 x 150 x 20	3/4	20	3.0	76
6 x 6 x 1	150 x 150 x 25	1	25	3.0	76
6 x 6 x 1-1/4	150 x 150 x 32	1-1/4	32	3.0	76
6 x 6 x 1-1/2	150 x 150 x 40	1-1/2	40	3.0	76
8 x 8 x 3/4	200 x 200 x 20	3/4	20	3.0	76
8 x 8 x 1	200 x 200 x 25	1	25	3.0	76
8 x 8 x 1-1/4	200 x 200 x 32	1-1/4	32	3.0	76
8 x 8 x 1-1/2	200 x 200 x 40	1-1/2	40	3.0	76
8 x 8 x 2	200 x 200 x 50	2	50	3.0	76
10 x 10 x 3/4*	250 x 250 x 20	3/4	20	3.0	76
10 x 10 x 1*	250 x 250 x 25	1	25	3.0	76
12 x 12 x 3/4*	300 x 300 x 20	3/4	20	3.0	76
12 x 12 x 1*	300 x 300 x 25	1	25	3.0	76

^{*} One-piece machined coupling.

Note: 3/4" (20mm) Taps to 2" (50mm). Taps: AWWA Thread



Double Tapped Coupling

S	ize	, A	4	E	3	l	-
in	mm	in	mm	in	mm	in	mm
6 x 3/4 x 3/4	150 x 20 x 20	3/4	20	3/4	20	3.0	76
6 x 1 x 3/4	150 x 25 x 20	3/4	20	1	25	3.0	76
6 x 1 x 1	150 x 25 x 25	1	25	1	25	3.0	76
6 x 1-1/4 x 3/4	150 x 32 x 20	3/4	20	1-1/4	32	3.0	76
6 x 1-1/4 x 1	150 x 32 x 25	1	25	1-1/4	32	3.0	76
6 x 1-1/2 x 3/4	150 x 40 x 20	3/4	20	1-1/2	40	3.0	76
6 x 1-1/2 x 1	150 x 40 x 25	1	25	1-1/2	40	3.0	76
6 x 2 x 3/4	150 x 50 x 20	3/4	20	2	50	3.0	76
6 x 2 x 1	150 x 50 x 25	1	25	2	50	3.0	76
8 x 3/4 x 3/4	200 x 20 x 20	3/4	20	3/4	20	3.0	76
8 x 1 x 3/4	200 x 25 x 20	3/4	20	1	25	3.0	76
8 x 1 x 1	200 x 25 x 25	1	25	1	25	3.0	76
8 x 1-1/4 x 3/4	200 x 32 x 20	3/4	20	1-1/4	32	3.0	76
8 x 1-1/4 x 1	200 x 32 x 25	1	25	1-1/4	32	3.0	76
8 x 1-1/2 x 3/4	200 x 40 x 20	3/4	20	1-1/2	40	3.0	76
8 x 1-1/2 x 1	200 x 40 x 25	1	25	1-1/2	40	3.0	76
8 x 2 x 3/4	200 x 50 x 20	3/4	20	2	50	3.0	76
8 x 2 x 1	200 x 50 x 25	1	25	2	50	3.0	76

Note: 3/4" (20mm) Taps to 2" (50mm). Taps: AWWA Thread





High Deflection Coupling

Size		L1	
in	mm	in	mm
10	250	3.5	89
12	300	3.5	89





Size		L1	
in	mm	in	mm
4	100	6.5	164
6	150	7.8	198
8	200	9.1	231
10	250	10.2	258
12	300	9.8	249

Tapped Plug (IPS Threads)





Size		L1	
in	mm	in	mm
4 x 3/4	100 x 20	6.5	164
4 x 1	100 x 25	6.5	164
4 x 1-1/2	100 x 40	6.5	164
4 x 2	100 x 50	6.5	164
6 x 3/4	150 x 20	7.8	198
6 x 1	150 x 25	7.8	198
6 x 1-1/2	150 x 40	7.8	198
6 x 2	150 x 50	7.8	198
8 x 3/4	200 x 20	9.1	231
8 x 1	200 x 25	9.1	231
8 x 1-1/2	200 x 40	9.1	231
8 x 2	200 x 50	9.1	231