

BLUE BRUTE PIPE

4" - 12" (100mm - 300mm)

BLUE BRUTE

Designed for municipal water applications, Blue Brute AWWA C900 pressure pipe delivers superior strength with corrosion-resistant performance and the ability to flex without damage. Made with a high-strength, high-impact PVC compound, Blue Brute pipes perform even under high traffic loads and deep burial conditions.

Manufactured with cast-iron outside diameters, Blue Brute is compatible with existing infrastructure of older iron pipes with no special transition fittings required. Blue Brute pressure pipe is hydrostatically proof tested to two times its pressure class/rating ensuring the integrity of every length of pipe that goes into the ground.

APPLICATIONS

- Municipal Water Systems
- Fire Lines
- Industrial Lines
- Forcemains
- Irrigation Lines

STANDARDS



ADVANTAGES

- 1 Corrosion-Proof Performance**
IPEX Blue Brute systems are immune to corrosion from aggressive soils and galvanic action.
- 2 Superior Hydraulics**
The glass-like finish of PVC reduces friction losses and eliminates the tuberculation common in iron pipes. As a result, pumping costs are reduced and water quality is maintained.
- 3 Cast-Iron Outside Diameter (CIOD)**
Blue Brute systems are manufactured with a cast-iron outside diameter (CIOD). This is compatible with waterworks valves, appurtenances and restrainers.
- 4 Bottle-tight Joints, Removable Gaskets**
IPEX's patented gasket system not only withstands many times the rated system pressure, but also withstands full vacuum pressures. The removable gasket system allows special oil-resistant (nitrile) gaskets to be easily installed when working in contaminated soils.
- 5 Third-party Certification**
All IPEX municipal systems are third-party certified as applicable. In addition, IPEX Blue Brute systems have Factory Mutual approval and Underwriter's Laboratories (ULI and ULC) listings.

DID YOU KNOW?

Each piece of Blue Brute is hydrostatically tested to 2 times its pressure class, ensuring excellent performance in the field.

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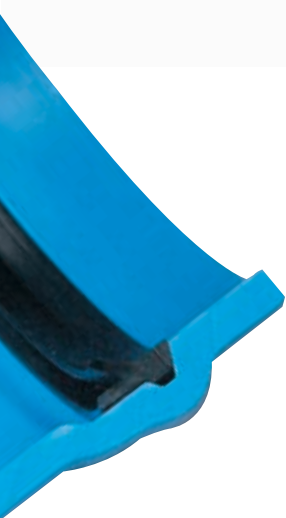
BLUE BRUTE PIPE



CONSERVATIVE DESIGN

The pressure class/rating is extremely conservative. For example, for DR18 pipe the pressure capacity is 235 psi (1620 kPa), but the minimum burst pressure is 755 psi (5210 kPa).

Dimension Ratio	AWWA Pressure Class	CSA Pressure Rating
14	305	305
18	235	235
25	165	165



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

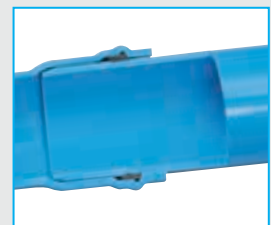
Blue Brute pipe shall be made from PVC compound conforming to ASTM D1784 cell class 12454.

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 3 or 6.1 meters (10 feet or 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 push-fitting bell-and-spigot joint 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.

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 Moulded 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. Segments 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.

PRODUCT SELECTION CHART

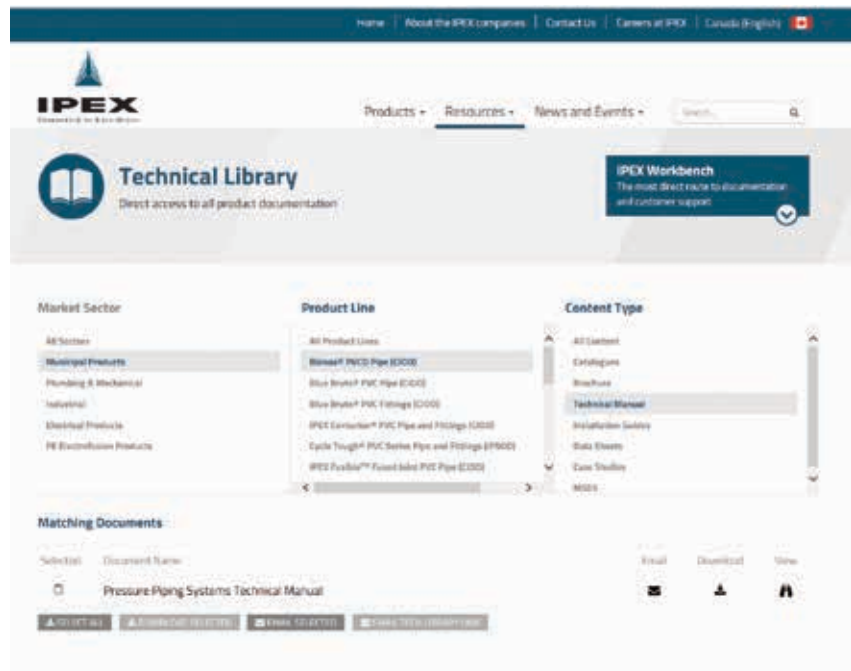
Length: 6.1 metres | Colour: Blue

	Size		Product Code	Avg. ID		Min. Wall Thickness		Avg. OD	
	in	mm		in	mm	in	mm	in	mm
Capped PVC Pressure Pipe									
Class/Rating 165 CIOD DR 25	4	100	070104	4.42	112	0.192	5	4.80	122
	6	150	070106	6.35	161	0.276	7	6.90	175
	8	200	070108	8.33	212	0.362	9	9.05	230
	10	250	070110	10.21	260	0.444	11	11.10	282
	12	300	070112	12.15	309	0.527	13	13.20	335
Class/Rating 235 CIOD DR 18	4	100	070514	4.27	108	0.267	7	4.80	122
	6	150	070516	6.13	155	0.383	10	6.90	175
	8	200	070518	8.05	204	0.502	13	9.05	230
	10	250	070520	9.87	250	0.616	16	11.10	282
	12	300	070522	11.73	297	0.733	19	13.20	335
Class/Rating 305 CIOD DR 14	4	100	070414	4.11	104	0.343	9	4.80	122
	6	150	070416	5.91	149	0.493	13	6.90	175
	8	200	070418	7.76	198	0.646	16	9.05	230
	10	250	070420	9.51	242	0.793	20	11.10	282
	12	300	070422	11.31	287	0.943	24	13.2	335

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BLUE BRUTE FITTINGS

Blue Brute Fittings 4" - 12" (100mm - 300mm)
IPEX Centurion Fittings 14" - 60" (350mm - 1500mm)

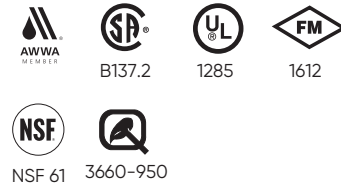
BLUE BRUTE

Blue Brute fittings are injection molded and are even tougher than the pipe. Blue Brute fittings have a wall thickness 25% greater than DR18 pipe, and some custom-made fabricated fittings are wrapped with a tough layer of fiberglass for extra protection.

APPLICATIONS

- Municipal Water Systems
- Fire Lines
- Industrial Lines
- Forcemains
- Irrigation Lines

STANDARDS



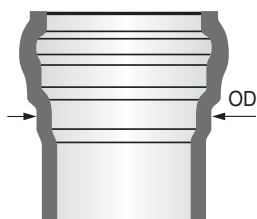
ADVANTAGES

- 1 Corrosion-Proof Performance**
Blue Brute systems are immune to corrosion from aggressive soils and galvanic action.
- 2 Superior Hydraulics**
The glass-like finish of PVC reduces friction losses and eliminates the tuberculation common in iron pipes. As a result, pumping costs are reduced and water quality is maintained.
- 3 Strength**
A thicker bell results in a more robust fitting.
- 4 Gasket Options**
All Blue Brute fittings are shipped with standard gaskets that accept cast-iron-sized PVC pipe. Non-pressure rated transition gaskets for IPS-sized pipe are an option. For applications where fittings must be buried in soil with hydrocarbon contamination, Nitrile gaskets are available.
- 5 Saves Time & Money**
A consistent O.D. for each size simplifies the restraint selection. Each fitting is labeled with the O.D. information for easy identification and restraint selection.





PRODUCT SELECTION CHART - PC/PR 235 psi (1620 kPa)



Bell OD for Joint Restraint Selection

Size	Min.	Max.
4" 100 mm	5.44"	5.61"
6" 150 mm	7.84"	8.03"
8" 200 mm	10.29"	10.55"
10" 250 mm	12.69"	12.96"
12" 300 mm	15.07"	15.46"
14" 350 mm	17.28"	17.73"
16" 400 mm	19.64"	20.17"



11-1/4° Elbow B x B



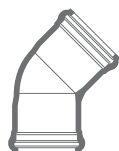
	Dimension		Product Code
	inches	mm	
*	4	100	273104
	6	150	073091
	8	200	073092
*	10	250	273093
*	12	300	273094

22-1/2° Elbow B x B



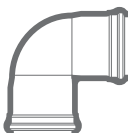
	4	100	073105
	6	150	073106
	8	200	073107
	10	250	373108
	12	300	373109

45° Elbow B x B



	4	100	073120
	6	150	073121
	8	200	073122
	10	250	373123
	12	300	373124

90° Elbow B x B



	4	100	073150
	6	150	073151
	8	200	073152
	10	250	373012
	12	300	373013

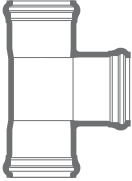
DR18, 5° CIOD Bend





	6	150	273076
	8	200	273077
*	10	250	273078
*	12	300	273079


* Denotes Fabricated Fitting


PRODUCT SELECTION CHART - PC/PR 235 PSI (1620 KPA)

	Dimension		Product Code
	inches	mm	
	4 x 4 x 4	100 x 100 x 100	073285
	6 x 6 x 4	150 x 150 x 100	073241
	6 x 6 x 6	150 x 150 x 150	073286
	8 x 8 x 4	200 x 200 x 100	073242
	8 x 8 x 6	200 x 200 x 150	073243
	8 x 8 x 8	200 x 200 x 200	073287
	10 x 10 x 4	250 x 250 x 100	373239
	10 x 10 x 6	250 x 250 x 150	373244
	10 x 10 x 8	250 x 250 x 200	373250
	10 x 10 x 10	250 x 250 x 250	373288
	12 x 12 x 4	300 x 300 x 100	373727
	12 x 12 x 6	300 x 300 x 150	373245
	12 x 12 x 8	300 x 300 x 200	373246
	12 x 12 x 10	300 x 300 x 250	373247
	12 x 12 x 12	300 x 300 x 300	373289


Hydrant Tee B x B x Sp			
	6 x 6 x 6	150 x 150 x 150	373011
	8 x 8 x 6	200 x 200 x 150	373010
	10 x 10 x 6	250 x 250 x 150	273989
	12 x 12 x 6	300 x 300 x 150	273070

Reducer (Bell x Spigot)			
	6 x 4	150 x 100	073211
	8 x 6	200 x 150	073212
	10 x 8	250 x 200	273213
	12 x 10	300 x 250	073214


Coupling with Stop B x B			
	4	100	073030
	6	150	073031
	8	200	073032
	10	250	373028
	12	300	373032

Hammer Tee B x B x B			
	12 x 12 x 6	300 x 300 x 150	373249

	Dimension		Product Code
	inches	mm	
	4	100	073404
	6	150	073406
	8	200	073408
	10	250	373027
	12	300	3733031

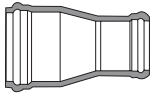
Single Tapped Coupling (AWWA Thread)			
	4 x 4 x 3/4	100 x 100 x 20	073267
	4 x 4 x 1	100 x 100 x 25	073268
	6 x 6 x 3/4	150 x 150 x 20	073256
	6 x 6 x 1	150 x 150 x 25	073257
	6 x 6 x 1-1/4	150 x 150 x 32	073144
	6 x 6 x 1-1/2	150 x 150 x 40	273300
	8 x 8 x 3/4	200 x 200 x 20	073259
	8 x 8 x 1	200 x 200 x 25	073260
	8 x 8 x 1-1/4	200 x 200 x 32	073147
	8 x 8 x 1-1/2	200 x 200 x 40	273265
	8 x 8 x 2	200 x 200 x 50	073266
	10 x 10 x 3/4	250 x 250 x 20	373535
	10 x 10 x 1	250 x 250 x 25	373537
	*10 x 10 x 1-1/2	250 x 250 x 40	273044
	*10 x 10 x 2	250 x 250 x 50	273045
	12 x 12 x 3/4	300 x 300 x 20	373536
	12 x 12 x 1	300 x 300 x 25	373538
	*12 x 12 x 1-1/2	300 x 300 x 40	273046
*12 x 12 x 2	300 x 300 x 50	273048	

* One-piece machined coupling. Not UL Listed.
Note: 3/4" (20mm) Taps to 2" (50mm).
Taps: AWWA Thread

Double Tapped Coupling (AWWA Thread)			
	6 x 6 x 3/4 x 3/4	150 x 150 x 20 x 20	073305
	6 x 6 x 1 x 1	150 x 150 x 25 x 25	073308
	8 x 8 x 3/4 x 3/4	200 x 200 x 20 x 20	073290
	8 x 8 x 1 x 1	200 x 200 x 25 x 25	073307

Note: 3/4" (20mm) Taps to 1" (25mm).
Taps: AWWA Thread

PRODUCT SELECTION CHART - PC/PR 235 PSI (1620 KPA)

	Dimension		Product Code
	inches	mm	
	* 6 x 4	150 x 100	273226
	* 8 x 6	200 x 150	273227
	* 10 x 6	250 x 150	273228
	* 10 x 8	250 x 200	273229
	* 12 x 8	300 x 200	273231
	* 12 x 10	300 x 250	273232

Plug Plain End



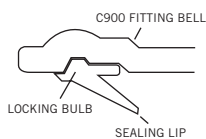
4	100	073180
6	150	073181
8	200	073182
10	250	073183
12	300	073184

Tapped Plug (I.P.S. Threads)



4 x 3/4	100 x 20	273192
4 x 1	100 x 25	073193
4 x 1-1/2	100 x 40	073194
4 x 2	100 x 50	273195
6 x 3/4	150 x 20	273199
6 x 1	150 x 25	273200
6 x 1-1/2	150 x 40	273201
6 x 2	150 x 50	273196
8 x 3/4	200 x 20	073203
8 x 1	200 x 25	073204
8 x 1-1/2	200 x 40	073197
8 x 2	200 x 50	273198

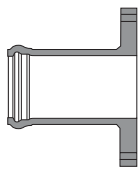
Cast Iron Size x I.P.S. Transition Gasket



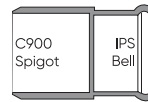
4	100	073655
6	150	073611
8	200	073656
12	300	173390

Gasket drawing is for information only. Actual gasket may be different.

Note: 10" (250mm) will be available shortly

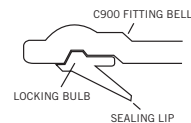
	Dimension		Product Code
	inches	mm	
	* 4	100	273015
	* 6	150	273016
	* 8	200	273017
	* 10	250	273018
	* 12	300	273019
	* Fabricated fitting - Fibreglass reinforced		

C900 (Spigot) x I.P.S. (Bell) Adapter



* 4	100	273346
* 6	150	273347

SBR Gasket



4	100	072344
6	150	072346
8	200	273348
10	250	072350
12	300	072352

Gasket drawing is for information only. Actual gasket may be different.

Nitrile Gasket (Oil Resistant)

4	100	072924
6	150	072926
8	200	072928
10	250	072930
12	300	072932

EPDM Gasket

4	100	272048
6	150	272011
8	200	272039
10	250	272040
12	300	272012