



Blu-Lock®

Fittings for Polyethylene (PE) Plastic Pipe

SUBMITTAL SHEET

JOB NAME	
JOB LOCATION	
ENGINEER	
CONTRACTOR	
TAG	
PO NUMBER	
REPRESENTATIVE	
WHOLESALE DISTRIBUTOR	

Blu-Lock fittings for Injection Molded Polyethene Irrigation Pipe in ½ inch through 1 inch.

The Hydro-Rain line of Blu-Lock fittings offer a variety of injection molded configurations for use with Polyethylene pipe conforming to ASTM D2239.

MATERIAL

Hydro-Rain Blu-Lock fittings are produced from ABS 717 and use EPDM seals and 304 Stainless Steel retaining rings.

DO NOT use Hydro-Rain fittings for compressed air or gases.

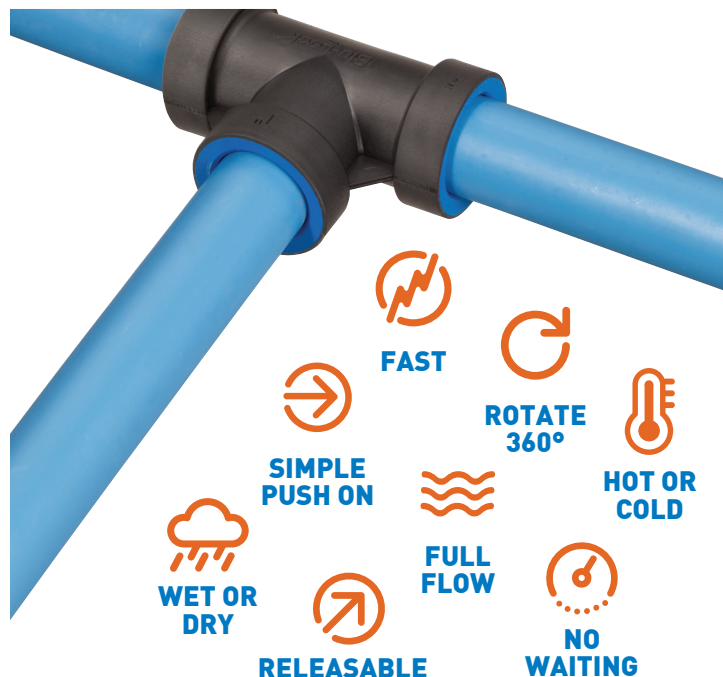
DO NOT test with compressed air or gases.

DO NOT use fittings with liquids not recommended by Hydro-Rain.

DO NOT use fittings with water temperature exceeding 73° F (22.8° C).

Modifications of fittings void the warranty.

This specification is provided for reference only. Hydro-Rain reserves the right to change any portion of this specification without notice and without incurring obligation to make such changes to Hydro-Rain products previously or subsequently sold.



SPECIFICATIONS:

ASTM D2239 - Standard Specification for Polyethylene (PE) Plastic Pipe (SIDR-PR) Based on Controlled Inside Diameter

ASTM D2466 - Standard Specification for Poly(Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 40

ASTM D2609 - Standard Specification for Plastic Insert Fittings for Polyethylene (PE) Plastic Pipe



HYDRO-RAIN®

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Blu-Lock®

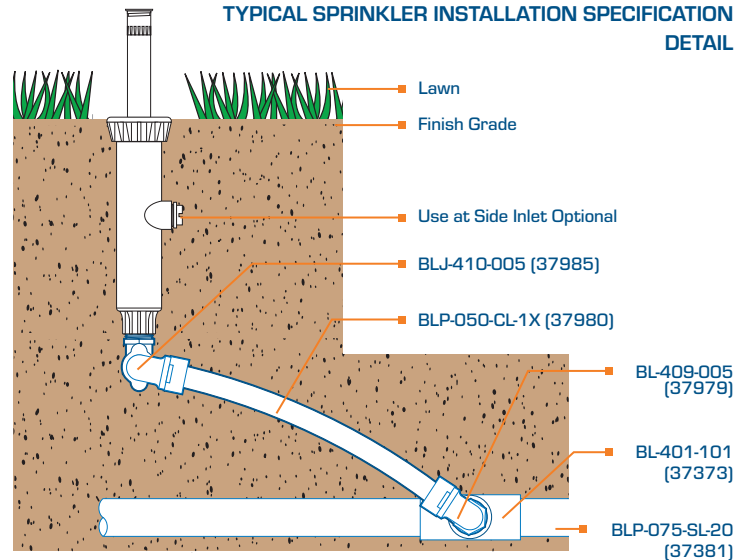
Hydro-Rain® Warranty—3-year limited warranty on fittings, 30-year limited warranty on pipe. Some restrictions apply.

SPECIFICATIONS

- **Blu-Lock® ½" Swing Pipe Fittings:**
 - Max working pressure: 80 PSI at 72°F
 - Burst Pressure: Exceeds 220 PSI
 - Working Pressure: 10-80 PSI
- **Blu-Lock® ¾" Lateral Pipe Fittings:**
 - Max working pressure: 125 PSI at 72°F
 - Burst Pressure: Exceeds 250 PSI
 - Working Pressure: 10-125 PSI
- **Blu-Lock® 1" Lateral Pipe Fittings:**
 - Max Working Pressure: 150 PSI at 72°F
 - Burst Pressure: Exceeds 350 PSI
 - Working Pressure: 10-150 PSI
- **Blu-Lock® ½" Swing Pipe (LDPE):**
 - Operating Pressure: 80 PSI
 - Outside Diameter: 0.59"
 - Inside Diameter: 0.43"
- **Blu-Lock® 1" & ¾" Lateral Pipe (HDPE):**
 - Burst Pressure Rating: 320 PSI at 72°F
 - Working Pressure: 100 PSI
 - 1" Outside Diameter: 1.21"
 - 1" Inside Diameter: 1.07"
 - ¾" Outside Diameter: 0.94"
 - ¾" Inside Diameter: 0.82"
 - Wt. Foot: .074 lbs.

* For non-constant pressure w/outdoor irrigation connections only.
 * Minimum burst pressure varies according to pipe and fitting size.
 * For cold water outdoor irrigation use only.

TYPICAL SPRINKLER INSTALLATION SPECIFICATION DETAIL



1" [2.54 CM]

PIPE PRESSURE LOSS*

Flow (GPM)	Velocity (FPS)	Pressure Loss (PSI)
1	-	-
2	-	-
3	-	-
4	1.48	0.46
5	1.86	0.76
6	2.23	1.06
7	2.60	1.37
8	2.97	1.80
9	3.34	2.23
10	3.71	2.76
11	4.08	3.07
12	4.45	3.85
13	4.83	4.45
14	5.2	5.10
15	5.57	5.76
20	7.42	9.90
25	9.98	14.90

¾" [1.9 CM]

PIPE PRESSURE LOSS*

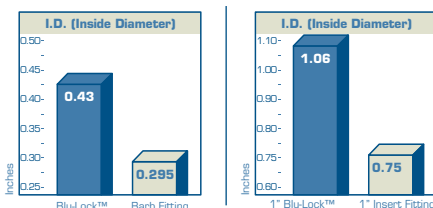
Flow (GPM)	Velocity (FPS)	Pressure Loss (PSI)
1	0.60	0.15
2	1.20	0.48
3	1.80	1.00
4	2.41	1.64
5	3.01	2.46
6	3.61	3.45
7	4.21	4.59
8	4.81	5.85
9	5.41	7.29
10	6.02	8.85
11	6.62	10.60
12	7.22	12.40
13	7.82	14.40
14	8.42	16.50
15	9.02	18.70

PSI VS. FLOW RATE

PSI	1" GPM	¾" GPM
40	11	8
50	13	9
60	14	10
70	16	11

* Measured in 100' lengths

½" BLU-LOCK® VS. SBE FITTINGS FLOW RATE



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