

HYDRO-RAIN®

Built for Speed®

Blu-Lock®

HDPE IRRIGATION PIPE FITTINGS

3x

REMOVABLE

**EASIER
INSERTION**

**WORKS WITH 80#
AND 100# PIPE**



Blu-Lock® 3X

Blu-Lock® 3X takes installation speed and ease to new heights. The addition of three key new features makes push-fit installation easier and more flexible.

- **Easier**—insertion force has been reduced by half to make installation even faster.
- **Compatible**—works with all 80# and 100# SIDR 15 and 19 pipe.
- **Releasable**—all ½", ¾", and 1" fittings are releasable and reusable with the Blu-Lock® release tool or "BLR" collar.

Simply stated, Blu-Lock® 3X is the fastest, greenest, irrigation installation method in the world.

BUILT FOR SPEED ADVANTAGES

- **Patented "Push-and-Go" Design**—100% tool and chemical free approach cut installation time in half.
- **True System Integration**—Total compatibility of fittings, pipe, manifolds, valves, saddles, and heads.
- **Exclusive Trench and Trenchless Technology**—Coil and straight length pipe options provide unrivaled flexibility.

BUILT FOR GREEN ADVANTAGES

- **Blu-Lock® Pipe is "Green"**—Environmentally-friendly, recyclable HDPE pipe provides a superior alternative to PVC.
- **Blu-Lock® Fittings are Green**—Outside diameter (OD) technology ensure lower friction loss for better efficiency.
- **Pipe and Fittings are Chemical Free**—Glue-less, tool-free installation protects the environment and the long-term health of your crew.

FEATURES AND BENEFITS

- **Heavy-Duty Construction**—Built tough fittings made from UV-resistant ABS, stainless steel and EPDM seals are designed and tested to ensure toughness.
- **Patented Retaining System**—Stainless steel teeth grip pipe tight for a strong, leak-proof connection.
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- **Outside Diameter (OD) Technology**—Flow is unimpeded for 25 percent increase in flow versus traditional insert fittings.
- **High Quality and "Easy-Flex"**—Blu-Lock® lateral and swing pipe are made from virgin resins and meet ASTM standards.



FAST



**SIMPLE
PUSH ON**



**ROTATE
360°**



**HOT OR
COLD**



**WET OR
DRY**



**NO
WAITING**



**RELEAS-
ABLE**



**FULL
FLOW**



HYDRO-RAIN®

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Blu-Lock® 3X

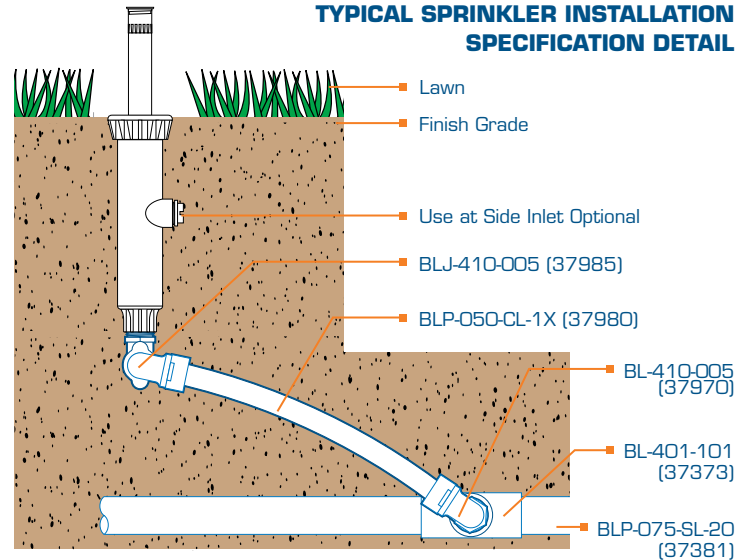
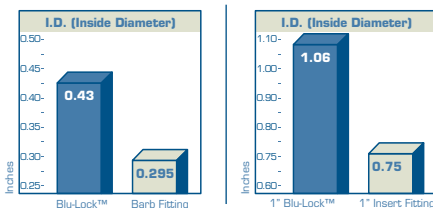
- **Releasable**—½" swing fittings are releasable with the patented quick release collar and ¾" and 1" fittings release with release tools. All fittings can be reused.
- **Hydro-Rain® Warranty**—3-year limited warranty on fittings, 30-year limited warranty on pipe. Some restrictions apply.

SPECIFICATIONS

- **Blu-Lock® ½" (1,3 cm) Swing Pipe Fittings:**
 - Max working pressure: 80 PSI (5,5 BAR) at 72°F (23°C)
 - Burst Pressure: Exceeds 220 PSI (15,2 BAR)
 - Working Pressure: 10-80 PSI (0,69-5,5 BAR)
- **Blu-Lock® ¾" (1,9 cm) Lateral Pipe Fittings:**
 - Max working pressure: 125 PSI (8,5 BAR) at 72°F (23°C)
 - Burst Pressure: Exceeds 250 PSI (17,2 BAR)
 - Working Pressure: 10-125 PSI (0,69-8,6 BAR)
- **Blu-Lock® 1" (2,5 cm) Lateral Pipe Fittings:**
 - Max Working Pressure: 150 PSI (10,3 BAR) at 72°F (23°C)
 - Burst Pressure: Exceeds 350 PSI (24,1 BAR)
 - Working Pressure: 10-150 PSI (0,69-10,3 BAR)
- **Blu-Lock® ½" (1,3 cm) Swing Pipe (LDPE):**
 - Operating Pressure: 80 PSI (5,5 BAR)
 - Outer Dimensions: .59" (1,5 cm)
 - Inner Dimensions: .43" (1,1 cm)
 - Wall Thickness: .08" (0,2 cm)
- **Blu-Lock® 1" (2,54 cm) & ¾" (1,90 cm) Lateral Pipe (HDPE):**
 - Burst Pressure Rating: 320 PSI (22,06 BAR) at 72°F (23°C)
 - Working Pressure: 100 PSI (6,89 BAR)
 - Outer Dimensions: ¾" .944 (2,4 cm), 1.21" (3,1 cm)
 - Inner Dimensions: ¾" .824" (2,1 cm), 1.07" (2,1 cm)
 - Wall Thickness: .060" (0,2 cm)
 - Wt. Foot: .074 lbs. (0,03 Kg)

* For non-constant pressure valve-out outdoor irrigation connections only.
 * Minimum burst pressure varies according to pipe and fitting size.

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



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



HYDRO-RAIN®

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1" (2,5 CM) BLU-LOCK FITTINGS FOR HDPE



37683
BL-401-131
1" BL x 3/4" BL Tee



37684
BL-401-102
1" BL x 1/2" BL Bull Tee



37685
BL-429-130
1" BL x 1/2" BLR Coupling



37687
BL-401-075
1" BL x 1/2" BLR Bull Tee



37670
BL-401-010
1" BL Tee



37355
BL-435-102
1" FPT x 3/4" BL Adapter



37671
BL-402-130
1" BL x 1/2" FIPT Tee



37672
BL-401-130
1" BL x 1/2" BLR Tee



37673
BL-406-010
1" BL x Ell



37675
BL-407-130
1" BL x 1/2" FIPT Ell



37676
BL-429-010
1" BL Coupling



37677
BL-429-131
1" BL x 3/4" BL Coupling



37689
BL-474-010
1" BL x Soc Adapter



37678
BL-436-010
1" BL x MIPT Adapter



37680
BL-447-010
1" BL Cap



37902
BL-1474-130
1" Insert x 1/2" BLR
Adapter



37904
BL-1401-130
1" Insert x 1/2" BLR Tee



03133
HRM-100-UB-1x
1" BL x Buttress Adapter



1" BLU-LOCK® HDPE PIPE



37681
BLP-100-SL-20
1" x 20' Blu-Lock®
100 PSI SIDR 15 Pipe –
Straight



37682
BLP-100-CL-1X
1" x 100' Blu-Lock®
100 PSI SIDR 15 Pipe –
Coil



37692
BLP-100-CL-3X
1" x 300' Blu-Lock®
100 PSI SIDR 15 Pipe –
Coil

3/4" (1,9 CM) BLU-LOCK FITTINGS FOR HDPE



37370
BL-401-007
3/4" BL Tee



37372
BL-402-101
3/4" BL x 1/2" FIPT Tee



37373
BL-401-101
3/4" BL x 1/2" BLR Tee



37387
BL-401-074
3/4" BL x 1/2" BLR Bull Tee



37375
BL-407-101
3/4" BL x 1/2" FIPT Ell



37376
BL-429-007
3/4" BL Coupling



37377
BL-429-101
3/4" BL x 1/2" BLR Coupling



37378
BL-436-007
3/4" BL x MIPT Adapter



37383
BL-436-131
3/4" BL x 1" MIPT Adapter



37380
BL-447-007
3/4" BL Cap



37374
BL-406-007
3/4" BL Ell



37379
BLA-075-BF-75
3/4" BL x FIPT Adapter



37384
BL-474-007
3/4" BL x Soc Adapter



37385
BL-474-131
3/4" BL x 1" Soc Adapter



37901
BL-1474-101
3/4" Insert x 1/2" BLR Adapter



37903
BL-1401-101
3/4" Insert x 1/2" BLR Tee



03134
HRM-075-UB-1x
3/4" BL x Buttress Adapter

3/4" BLU-LOCK® HDPE PIPE



37381
BLP-075-SL-20
3/4" x 20' Blu-Lock®
100 PSI SIDR 15 Pipe –
Straight



37382
BLP-075-CL-1X
3/4" x 100' Blu-Lock®
100 PSI SIDR 15 Pipe –
Coil



37388
BLP-075-CL-3X
3/4" x 300' Blu-Lock®
100 PSI SIDR 15 Pipe –
Coil



37396
BLP-075-CR-1X
3/4" x 100' Blu-Lock®
100 PSI SIDR 15 Pipe
Reclaimed – Coil

BLU-LOCK® TOOLS



26113
BLB-CUT-25-1X
1" Poly Pipe Cutter



37908
BL-RTL-100
1" BL Release Tool



37909
BI-RTL-075
3/4" BL Release Tool



Blu-Lock® 3X

BLU-LOCK® SWING PIPE FITTINGS

For use with Blu-Lock® Swing Pipe (37980)



37604
BLJ-050-SS-6X
6" x ½" Street Ell Swing
Assembly

37605
BLJ-050-SS-12
12" x ½" Street Ell
Swing Assembly

37985
BLJ-410-005
½" BLR x ½" NPT
Swing Joint

37986
BLJ-410-101
½" BLR x ¾" NPT
Swing Joint

37900
BL-FPA-050
½" BLR x ¾" Swing
Pipe Adapter

37974
BL-436-005
½" BLR x ½" NPT
Adapter



37975
BL-436-101
½" BLR x ¾" NPT Adapter

37976
BL-429-005
½" BLR Coupling

37977
BL-401-005
½" BLR Tee

37970
BL-410-005
½" BLR x ½" NPT Ell

37971
BL-410-007
½" BLR x ¾" NPT Ell

37972
BL-407-005
½" BLR x ½" FIPT Ell



37973
BL-407-074
½" BLR x ¾" FIPT Ell

37979
BL-409-005
½" BLR x Street Ell

37987
BL-406-005
½" BLR Ell

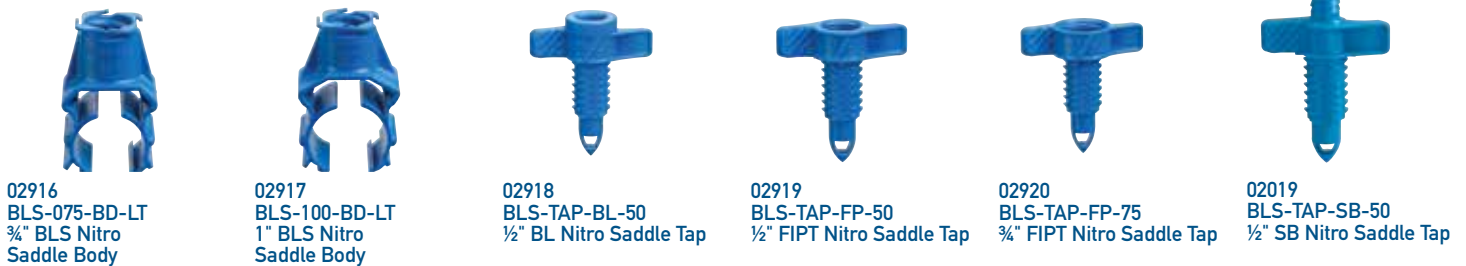
37980
BLP-050-CL-1X
½" x 100' Blu-Lock®
Swing Pipe - Coil

02602
BLD-050-BX-50
½" BL Auto Drain Valve

BLS NITRO SADDLE TEES

Universal, for use with 80# and 100# SIDR 15 3408 Polyethylene Pipe

Note: BLS-TAP Series Max Flow:
14 GPM (52.4 LPM) @ 40 PSI (2.75 Bar)



02916
BLS-075-BD-LT
¾" BLS Nitro
Saddle Body

02917
BLS-100-BD-LT
1" BLS Nitro
Saddle Body

02918
BLS-TAP-BL-50
½" BL Nitro Saddle Tap

02919
BLS-TAP-FP-50
½" FIPT Nitro Saddle Tap

02920
BLS-TAP-FP-75
¾" FIPT Nitro Saddle Tap

02019
BLS-TAP-SB-50
½" SB Nitro Saddle Tap

VALVES, MANIFOLDS & SPRINKLERS



02030
HRP-100-PF-BL
1" Push-Fit Reverse
Flow Inline Valve w/
Blu-Lock Outlet

02117
HRZ-100-BL-30
2-in-1 Push-Fit Drip
Filter & 30 PSI Regulator
1" NPT x 1" Spigot

08686
PVCL-444-010
1" PVC-Lock® x
1" PVC-Lock® x
1" Spigot Manifold Tee

08680
PVCL-447-010
1" PVC-Lock® Cap

03015
HRS-200-04-FB
4" Spray Head with
Flush Cap and
½" BLR Ell

01010
HRX-075-ADJ
HRX ¾" NPT
Adjustable Rotor