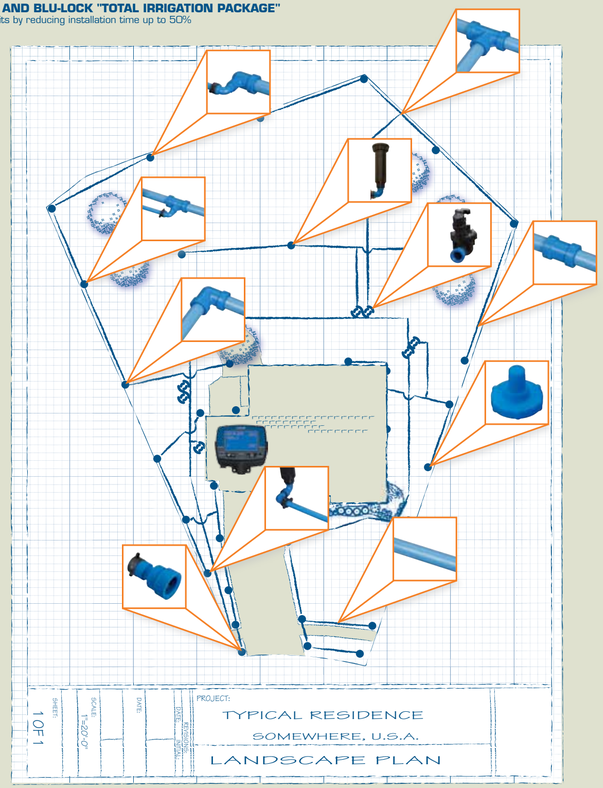
HYDRO▸RAIN®
Built for Speed™

Blu-Lock® BY HYDRO-RAIN®

HYDRO-RAIN® AND BLU-LOCK "TOTAL IRRIGATION PACKAGE"

Increase your profits by reducing installation time up to 50%



THE FUTURE OF IRRIGATION

HYDRO▸RAIN®
Built for Speed™

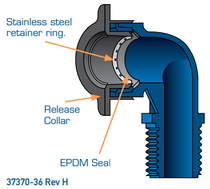
Blu-Lock® BY HYDRO-RAIN®

SPECIFICATIONS

- Blu-Lock® 1/2" (1.3 cm) 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)
  - Body Material: ABS
  - Retaining Ring Material: Stainless Steel
  - Seal Material: EPDM
- Blu-Lock® 3/4" (1.9 cm) 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)
  - Body Material: ABS
  - Retaining Ring Material: Stainless Steel
  - Seal Material: EPDM
- Blu-Lock® 1" (2.5 cm) 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)
  - Body Material: ABS
  - Retaining Ring Material: Stainless Steel
  - Seal Material: EPDM
- Blu-Lock® 1/2" (1.3 cm) Lateral and Swing Pipe (LLD):
  - Operating Pressure: 80 PSI (5.5 BAR)
  - Pressure loss at 6 GPM: 5 PSI (0.3 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) & 3/4" (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: 3/4" .944 (2.4 cm), 1.21" (3.1 cm)
  - Inner Dimensions: 3/4" .824" (2.1 cm), 1.07" (2.1 cm)
  - Wall Thickness: .060" (0.2 cm)
  - Wt. Foot: .074 lbs. (0.03 Kg)

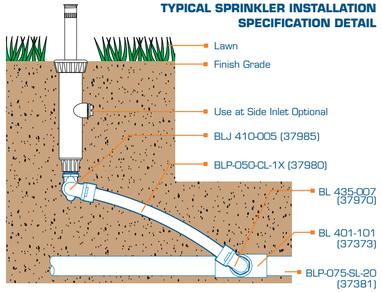
* For non-constant pressure valve-out outdoor irrigation connections only.

BLU-LOCK CUTAWAY



37370-36 Rev H

TYPICAL SPRINKLER INSTALLATION SPECIFICATION DETAIL



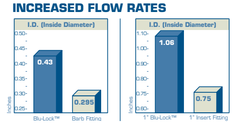
1" (2,54 CM) PIPE PRESSURE LOSS

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

3/4" (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

INCREASED FLOW RATES



PSI VS. FLOW RATE*

PSI	1" GPM	3/4" GPM
40	11	8
50	13	9
60	14	10
70	16	11

* Measured in 100' lengths

Build It GREEN MEMBER

THE FUTURE OF IRRIGATION

HYDRO▸RAIN®
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Blu-Lock® BY HYDRO-RAIN®

Working in a sprinkler trench is tough enough—don't make it harder by using traditional pipe fitting methods that require hot, toxic glue, clamps or frustrating barbed fittings. Hydro-Rain offers a better way: Blu-Lock.

Everything you do from the valve out, you can now do faster and easier with Blu-Lock. Primer? Glue? Clamps? Tools? With the Blu-Lock system, you don't need them!

Simply stated, Blu-Lock by Hydro-Rain 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.
- **And Both are Chemical Free**—Glueless, 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.
- **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.
- **Patented Quick-Release Collar**—1/2" swing fittings feature quick-release mechanism that allows tool-free removal.
- **Hydro-Rain Warranty**—3-year limited warranty on fittings, 30-year limited warranty on pipe. Some restrictions apply.

*Minimum burst pressure varies according to pipe and fitting size. See specifications for details.

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FLUID
P 801 295 9820
F 801 951 5815
www.fluid-studio.net
1065 South 500 West
Bountiful, Utah 84010

PROOF NO: 2
DATE: 01.14.11
DES: MZ
CLIENT: Orbit
SKU: 37370
UPC: N/A
FILE NAME: 37370-36 rH.indd
SOFTWARE: InDesign CS5

DIMENSIONS:
FLAT: W: 25.5" H: 11"
FINISHED: W: 8.5" H: 11"

COLORS
Registration
CMYK
color non printing
PMS 2955
color non printing
PMS 777
PMS 7777

ADDITIONAL INSTRUCTIONS:
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Printers are responsible for meeting print production requirements. Any changes must be approved by the client and Fluid Studio. Printed piece MUST MEET DESIGNATED SPECIFICATIONS ON THIS FORM.

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

For use with Blu-Lock 100 lb SIDR 15 3408 HDPE Irrigation Pipe*

37683
BL 402-131
1" BL x 3/4" BL Tee

37684
BL 401-102
1" BL x 3/4" 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

37671
BL 402-101
1" BL x 1/2" FIPT Tee

37672
BL 402-130
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

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

For use with Blu-Lock 100 lb SIDR 15 3408 HDPE Irrigation Pipe*

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

1/2" (1,3 CM) BLU-LOCK SWING FITTINGS & SWING PIPE

For use with 1/2" Blu-Lock Swing Pipe

37604
BLJ-050-SS-6X
6" x 1/2" Street Ell
Swing Assembly

37605
BLJ-050-SS-12
12" x 1/2" Street Ell
Swing Assembly

37985
BLJ 410-005
1/2" BLR x MIPT
Combo Swing Joint

37986
BLJ 410-101
1/2" BLR x 3/4" MIPT
Combo Swing Joint

37980
BLP-050-CL-1X
1/2" x 100' Blu-Lock
Swing Pipe – Coil

37900
BL FPA 050
1/2" BLR x 3/8"
Funny Pipe™ Adapter

37974
BL 436-005
1/2" BLR x 1/2" MIPT
Adapter

37975
BL 436-101
1/2" BLR x 3/4" MIPT
Adapter

37976
BL 429-005
1/2" BLR Coupling

37977
BL 401-005
1/2" BLR Tee

02602
BLD-050-BX-50
1/2" BL Auto Drain
Valve

37970
BL 435-007
1/2" BLR x 1/2" MIPT
Ell

37971
BL 410-007
1/2" BLR x 3/4" MIPT
Ell

37972
BL 407-005
1/2" BL x 1/2" FIPT Ell

37973
BL 407-074
1/2" BLR x 3/4" FIPT
Ell

37979
BL 409-005
1/2" BLR x Street
Ell

37987
BL 406-005
1/2" BLR Ell

1" (2,5 CM) BLU-LOCK 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

37698
BLP-300-CR-3X
1" x 100' Blu-Lock 100 PSI
SIDR 15 Pipe Reclaimed –
Coil

3/4" (1,9 CM) BLU-LOCK 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-3X
3/4" x 100' Blu-Lock 100 PSI
SIDR 15 Pipe Reclaimed –
Coil

"BUILT FOR SPEED" INSTALLATION-READY VALVES AND SPRINKLERS

05107
HRB-100-FB-1X
1" NPT Commercial
Valve with 1" BL Adapter

02007
HRJ-100-FB-1X
1" NPT Jar Top Valve with
1" (3/4" also available
model #02002) BL Adapter

94524
*HRS-100-04-FB
4" Slim Spray Head with
Flush Cap and 1/2" BL Ell

03015
*HRS-200-04-FB
4" Commercial Spray Head
with Flush Cap and 1/2" Bl Ell

BLS NITRO SADDLE TEES Universal, for use with 80# and 100# SIDR 15 3408 Polyethylene Pipe

02916
BLS-075-BD-LT
3/4" BLS Nitro Saddle
Body

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

02918
BLS-TAP-BL-50
1/2" BL Nitro Saddle Tap

02919
BLS-TAP-FP-50
1/2" FIPT Nitro
Saddle Tap

02920
BLS-TAP-FP-75
3/4" FIPT Nitro
Saddle Tap

Note: BLS-TAP Series Max Flow: 14 GPM (52.4 LPM) @ 40 PSI (2.75 Bar)
*For non-constant pressure valve-out outdoor irrigation connections only.

BLU-LOCK ACCESSORIES

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

*For non-constant pressure valve-out outdoor irrigation connections only.

BLU-LOCK MERCHANDISING PIECES

98448
BLD-CTR-MT-EN
Blu-Lock® Counter Mat

98496
BLD-SMP-BX-EN
Blu-Lock® Promo Sample Box

BLU-LOCK MAKES SPRINKLER INSTALLATION EASY

1. Set swing assembly
2. Cut-into the lateral line
3. Insert lateral line into assembly
4. Set sprinkler

*Spray head body compatible with Hydro-Rain® HRS series nozzles, Rainbird®, Hunter®.

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