



# Fittings

Power-Loc™, Compression,  
and Tape-Loc®

More  
Crop  
per  
Drop™

 **JAIN**<sup>®</sup>  
[www.JAINSUSA.com](http://www.JAINSUSA.com)

# Power-Loc™ Fittings



*For use with polyethylene irrigation tubing. Power-Loc™ Fittings are positive locking, insert type fittings with a threaded ring, available now in six sizes: 50, 55, 60, 70, 80 and 100.*

## Product Features

- Very easy to install tubing over single barb
- Positive stop to assure tubing is fully installed
- Low effort, square thread drive ring quickly locks tubing in place — no tools needed
- Barb design ensures tubing will not slip out or blow off at high pressure and temperature
- Each fitting will accommodate a wide range of hose diameter and wall thickness
- Working pressure: 60 psi
- Wide range of fitting configurations available
- Unique Patent Pending family of fittings for 50-70 series allows rapid response to custom configurations customer needs, including integral ball valve

## Size Chart – Tubing Size Limits

Fitting Series Number	Acceptable I.D.		Acceptable Wall Thickness	
	in	mm	in	mm
50	0.500 to 0.580	12.7 to 14.7	0.035 to 0.055	0.89 to 1.40
55	0.520 to 0.620	13.2 to 15.7	0.045 to 0.055	1.14 to 1.40
60	0.580 to 0.675	14.7 to 17.1	0.025 to 0.055	0.64 to 1.40
70	0.665 to 0.765	16.9 to 19.4	0.035 to 0.055	0.89 to 1.40
80	0.790 to 0.845	20.1 to 21.5	0.045 to 0.065	1.14 to 1.65
100	1.035 to 1.075	26.3 to 27.3	0.062 to 0.075	1.57 to 1.91



# Compression Fittings



*In 1972, Agricultural Products offered the first Compression Fittings. These fittings were needed because conventional insert fittings were causing existing polyethylene drip tubing to crack and split. Today, compression fittings are a preferred method of connecting PE tubing, because of their full-flow characteristics and ease of installation.*

*Now, Jain Irrigation's API™ compression fittings are made with glass-reinforced polypropylene or PVC for durability under the most demanding conditions. Jain Irrigation is the leader in drip irrigation fittings, known for reliability, service, and dedicated attention to customers' needs.*

## Product Features

- Easy no-tool installation
- Full range of color-coded sizes
- Chemically resistant
- Time and field-tested
- Some configurations are available with shut-off and/or pressure check
- Full flow — outside diameter of the PE tube “relaxes” against the fitting barb, sealing the connection while allowing unobstructed water flow

## Compression Size Selection Chart – Nominal Tubing Size

Fitting Series Guide	Color of Ends	O.D.	I.D.	O.D.	I.D.
		in	in	mm	mm
250	Orange	.250	.170	6.4	4.3
350	Black	.350	.250	8.9	6.4
400	Red	.455	.375	11.6	9.5
435	Brown	.490	.400	12.4	10.2
600	Green	.620	.520	15.7	13.2
700	Black	.685 - .700	.590	17.4 - 17.8	15.0
710	Blue	.700 - .715	.600	17.8 - 18.2	15.2
790	Green	.790	.680	20.1	17.3
800	Black	.830	.720	21.1	18.3
900	Grey	.927	.817	23.5	20.8
1000	Black	1.174	1.050	29.8	26.7



# Tape-Loc® Fittings



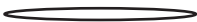





*For use with all drip tape products. Tape-Loc® Fittings are designed to provide tight, fast, reliable leak proof connections on thin wall tape and tape-like products. For maximum strength and chemical resistance the body is molded from PVC or Polypropylene with 2% carbon black added. The lock ring for the 11 and 14 series is manufactured of glass-reinforced polypropylene. The lock ring for the 06 and 09 series is manufactured of ABS. Available in sizes to fit all major brands of 5/8", 3/4", 7/8", 1", 1 1/8" and 1 3/8" tape.*

## Product Features

- Extensive fitting line, largest selection of configurations for all major brands
- Available in 5/8", 7/8", 1", 1 1/8", and 1 3/8" sizes to fit all major brands
- 5/8" and 7/8" (06 & 09) fittings are available with fluorescent orange ring for better field visibility
- Easy take-off connections to Jain Oval Hose®, Layflat or PVC
- Time tested durability for superior in-field performance
- Reusable year after year
- Chemical, UV and heat resistant
- Fits most 4 Mil. to 25 Mil. tapes

## Tape-Loc® Size Selection Chart

Tape-Loc® Fittings are designed for use with drip tape.

	Flat Tape Widths (Shown Actual Size)
"06" Series used for 5/8" I.D. tapes.....	5/8" 
"08" Series used for 3/4" I.D. tapes.....	3/4" 
"09" Series used for 7/8" I.D. tapes.....	7/8" 
"10" Series used for 1" I.D. tapes.....	1" 
"11" Series used for 1 1/8" I.D. tapes.....	1 1/8" 
"14" Series used for 1 3/8" I.D. tapes.....	1 3/8" 

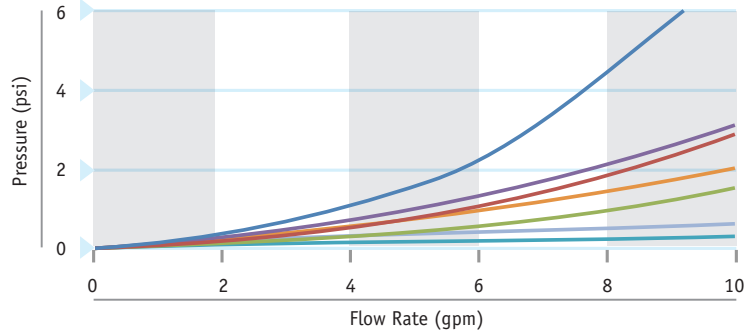


# Fittings - Connection Flow Rates

## Couplers



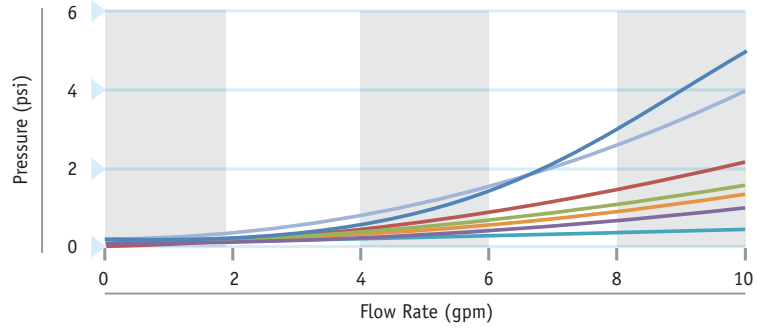
- PL-50-PC
- PL-60-PC
- PL-70-PC
- CPT-06-LS
- CPT-14-LS
- 710 CC
- 900 CC



## Tees



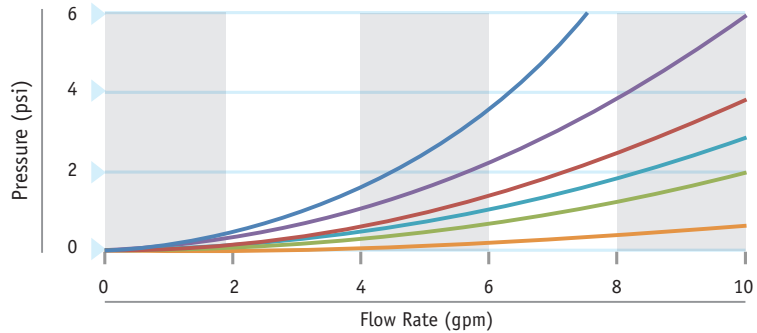
- PL-50-P3T
- PL-60-P3T
- PL-70-P3T
- PL-80-P3T
- PL-100-P3T
- 710-C3T
- TEE-06-LS



## Elbows



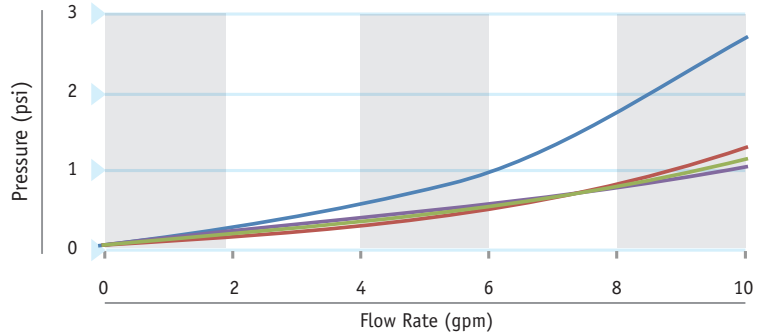
- PL-50-PELL
- PL-60-PELL
- PL-70-PELL
- ELL-06-LS
- 710-CELL
- 900-CELL



## SSP Adapters



- SSP-06-LS
- SSP-09-LS
- SSP-09-LS1
- SSP-09-LS2

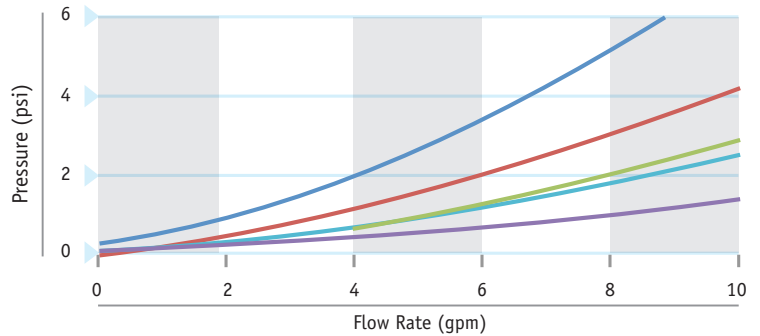


# Fittings - Connection Flow Rates

## 1/2" Male Adapters



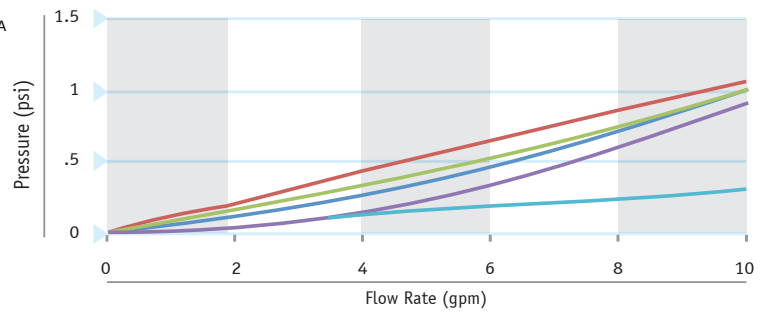
- PL-50-P1/2-MA
- PL-600-P1/2-MA
- PL-70-P1/2-MA
- 710-CMA
- MA-06-LS



## 3/4" and 1" Male Adapters



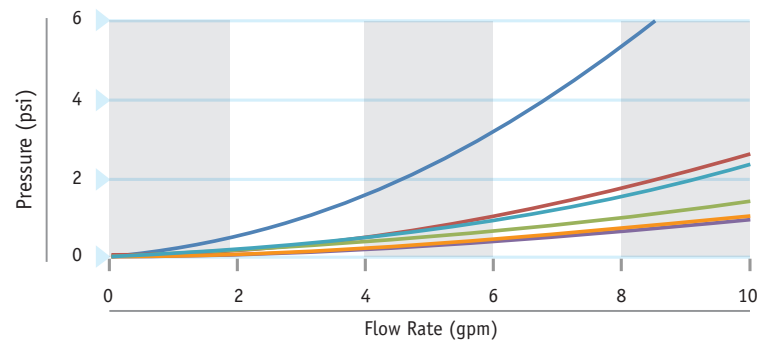
- PL-80-p3/4-MA
- 900-CMA
- MA-09-LS
- MA-09-LS1
- PL-100-P1-MA



## Male Hose Adapters



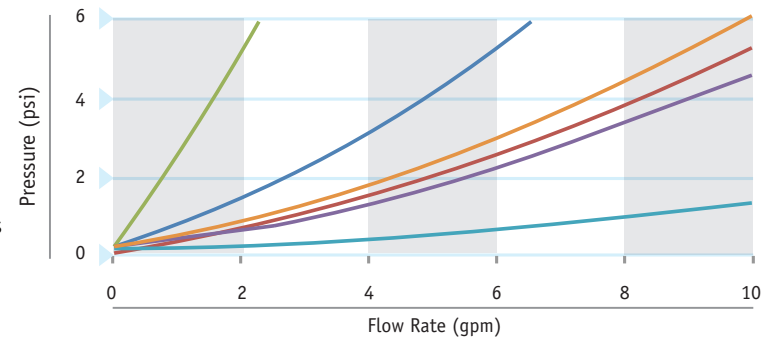
- PL-50-PMT
- PL-55-PMT
- PL-70-PMT
- PL-80-PMT
- MHT-06-LS
- MHT-09-LS



## Lay-Flat Adapters



- PL-50-KMA
- PL-60-KMA
- PL-70-KMA
- FHC-06-LS
- FHC-09-LS
- FHC-1-06-LS

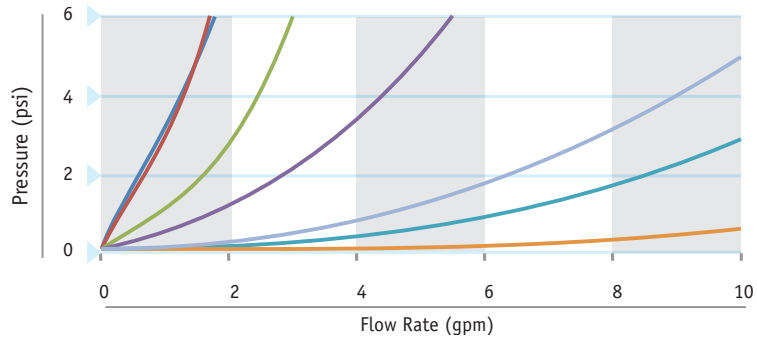


# Fittings - Connection Flow Rates

## Barb x Tape Adapters



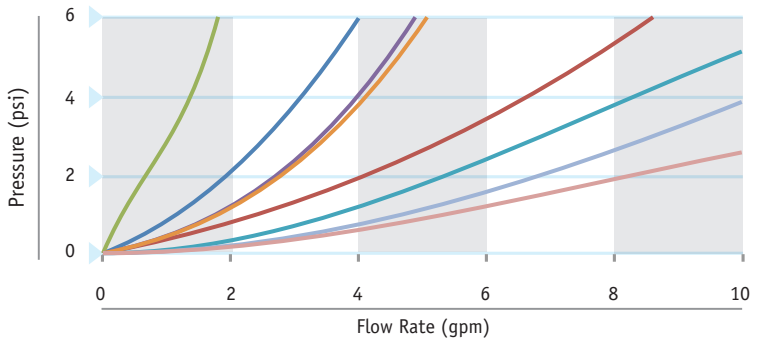
- 250B-04-LS
- 250B-06-LS
- 400B-04-LS
- 400B-06-LS
- 700B-09-LS
- 1000B-14-LS
- 520I-06-LS



## Barb x Hose Adapters



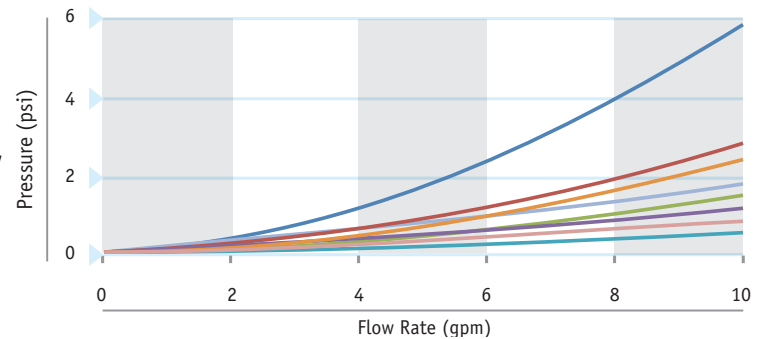
- 400B-PL-50
- 700B-PL-50
- 250B-PL-60
- 400B-PL-60
- 700B-PL-60
- 400B-PL-55
- 700B-PL-55
- 700B-PL-75



## Swivel Adapters



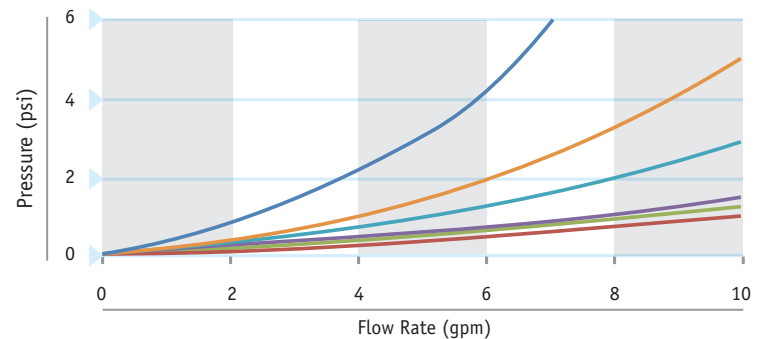
- PL-50-PHS-WW
- PL-60-PHS-WW
- PL-70-PHS-WW
- PL-80-PHS-WW
- PL-100-PHS-WW
- FHS-06-LS-WW
- 710-CHS
- 900-CHS



## Swivel Tees



- PL-50-PST-WS
- PL-80-PST-WS
- PL-100-PST-WS
- 710-CST
- 900-CST
- LST-06-LS-WS

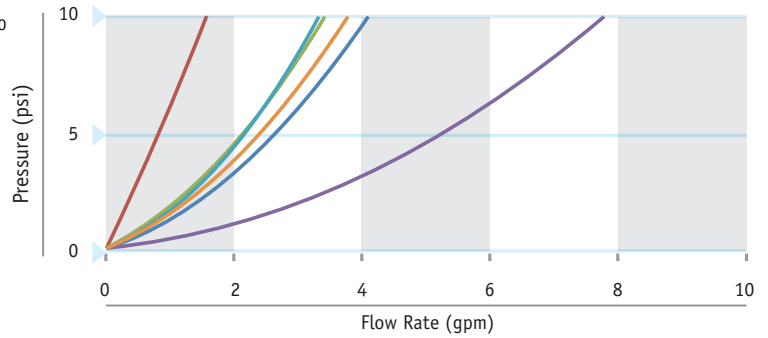


# Fittings - Connection Flow Rates

## Fitting Valves



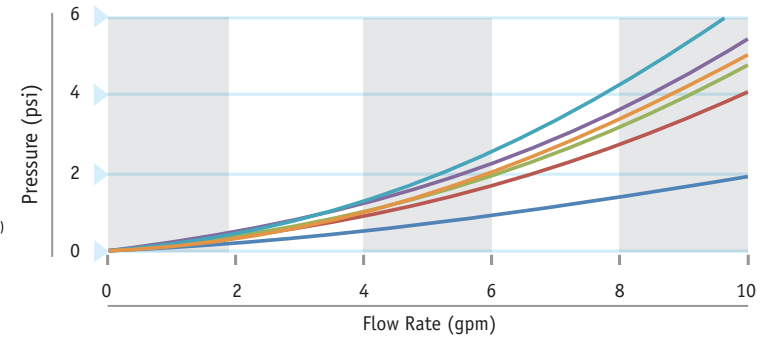
- 400B-BV-PL-50
- 250BV-06-S
- 400BV-06-LS
- 420BV-06-LS
- CPT-BV-60-LS
- 425BV-04-LS
- 425-BV-06-LS



## Valves



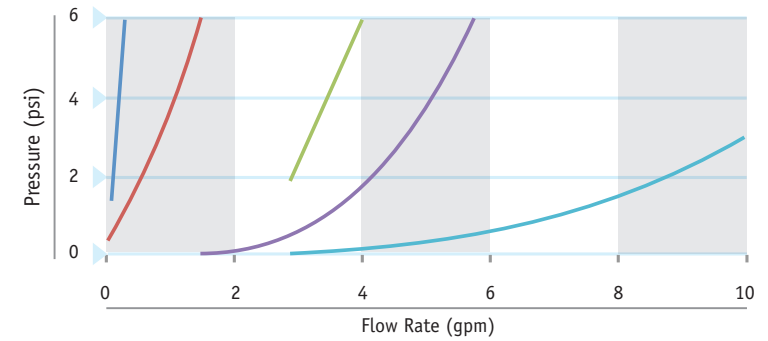
- 1/2-3/4 BU
- 3/4-B-NS
- 3/4-B-NS-SG
- SAS-1 JU (closed)
- SAS-1 (closed)
- SAS-1 JU (opened)
- SAS-3 (opened)



## Barb Couplers



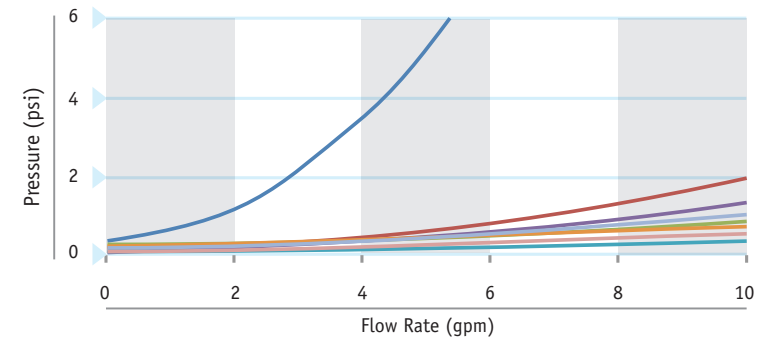
- TB-125
- TB-170
- 250-TB
- 400-TB
- 700-TB



## Accessories



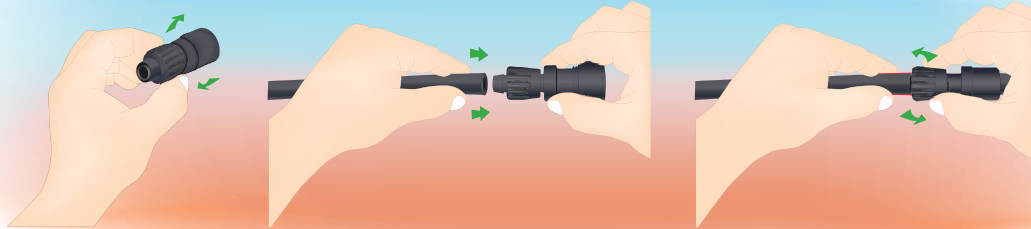
- 250-PIA
- 400-PIA
- 700-PIA
- 1000-PIA
- 1/2 MA
- 1/2 MHA
- 3/4 MHS
- 3/4 MHA





# Installation Instructions

## POWER-LOC™ FITTINGS

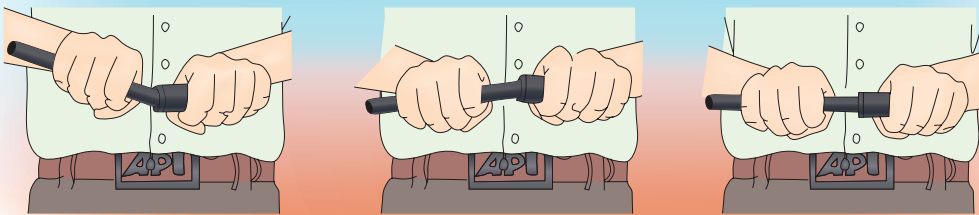


1. Twist collar clockwise toward center of fitting

2. Slide main line tubing over exposed barbed fitting

3. While holding tubing, twist collar counter-clockwise to secure tubing

## COMPRESSION FITTINGS

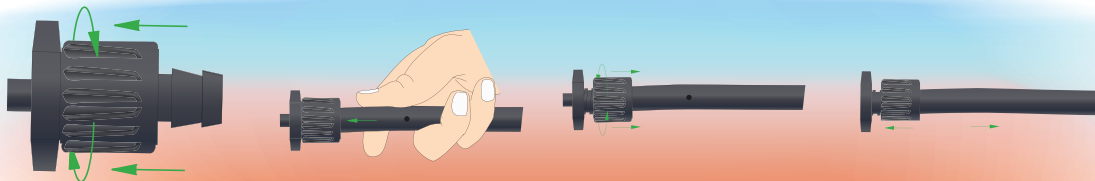


1. Hold the tubing in your dominant hand. Angle the tubing into the fitting until one edge is caught on the inner barb.

2. Holding your hands close to your torso while applying constant pressure, move your elbows up and down in a "flying" motion. This action will "walk" the tubing past the inner barb.

3. Once the tubing is "walked" 1/2" past the barb, test the connection by trying to pull it apart. Caution: Do not twist hose into compression ring.

## TAPE-LOC® FITTINGS



1. Turn sleeve until it moves back tightly against stop and barb is fully exposed.

2. Push tape over barb and as far as possible into sleeve opening.

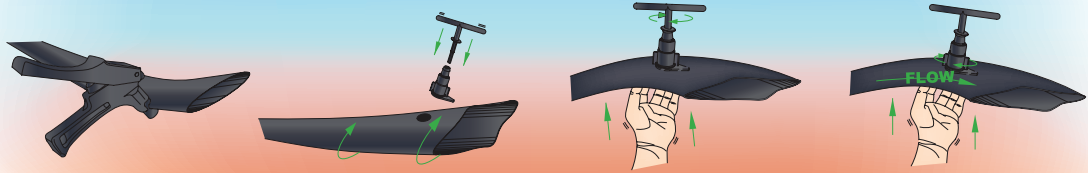
3. Turn sleeve counter clockwise until it slides out and fits tightly onto the tape.

4. Pull fitting & tape firmly in opposite directions to insure that you have achieved a tight connection.



# Installation Instructions

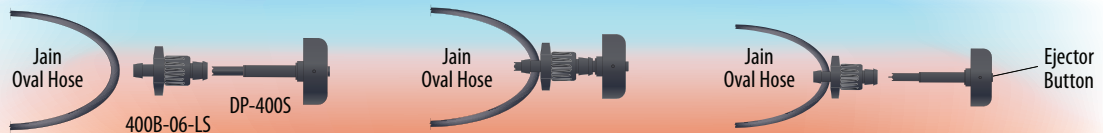
## INSTALLING LAYFLAT FITTINGS INTO LAYFLAT HOSE



1. Punch hole at fold line in layflat with the appropriate punch. Layflat fold must be fully inserted into the slot of the punch.
2. Orient the hose so that the hole is in the center of the flattened area. Insert Tee-Handle into center hex of the fitting.
3. Hook bottom of teardrop into the hole in the Layflat. Twist Tee-Handle while pushing against backside of fitting with the other hand to prevent fitting from backing out.
4. While holding the Tee-Handle, tighten 'Eared' locking collar until snug on the hose. Teardrop on the bottom of the fittings should be oriented with direction flow.

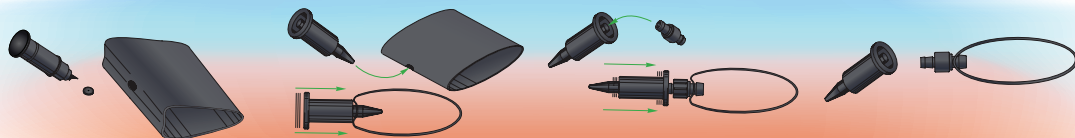
## INSTALLING BARB END FITTINGS INTO JAIN OVAL HOSE

### 400B-06-LS



1. Insert punch into barbed fitting.
2. Push and twist to pop barb into Jain Oval Hose.
3. Remove punch and eject cutout by pushing the ejector button.

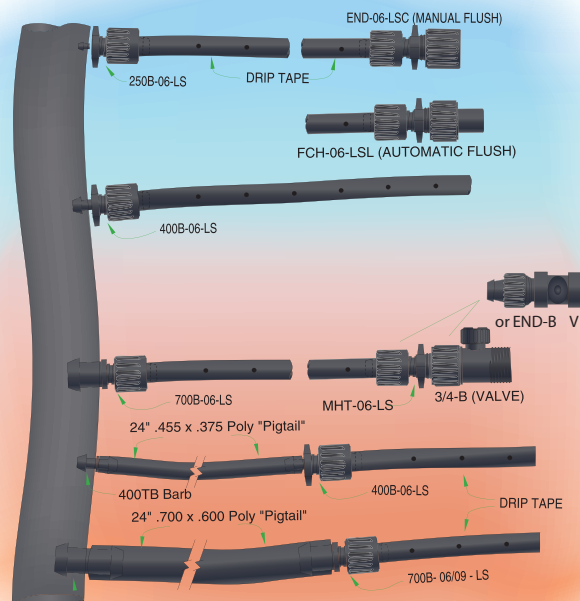
### 700B-06-LS and 700B-09-LS



1. Use DP-700-KIT punch to cut hole for fitting in Jain Oval Hose.
2. After cutting hole in Jain Oval Hose, push point of flaring and insertion tool into hole to relax and temporarily enlarge opening.
3. Nest fitting or plug onto inner shaft in body of tool, then push barb end into previously enlarged opening in Jain Oval Hose.
4. Remove tool. Fitting or plug is now securely locked in Jain Oval Hose.



## JAIN OVAL HOSE TO TAPE CONNECTIONS



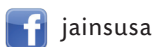
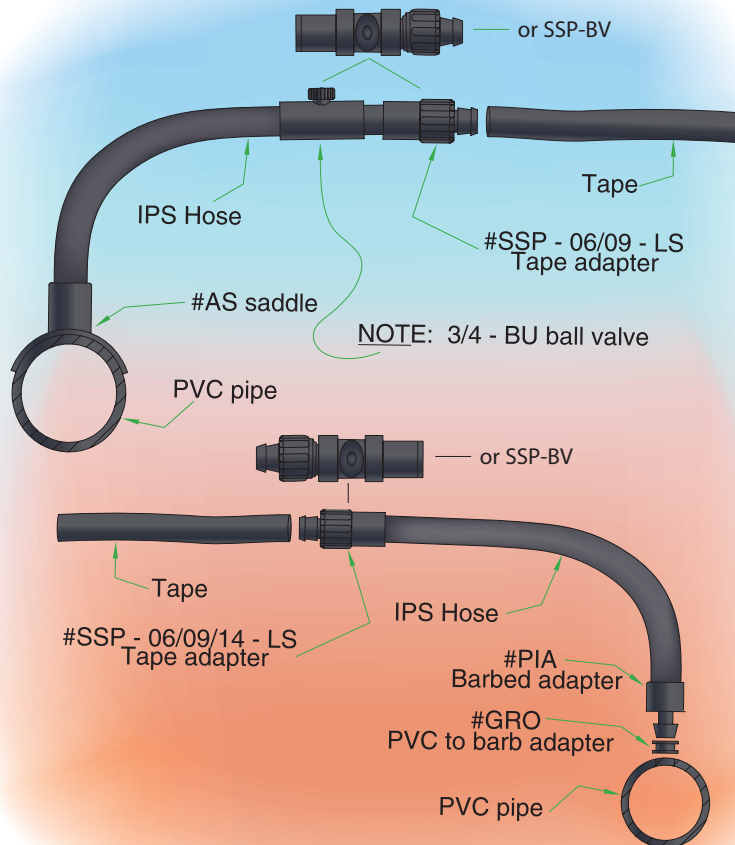
### Tools used per Connection

Connection	Hole Size	Punch / Installation Tool	Plug
250 Barb to Poly	1/8"	HPT125	MP-1
400 Barb to Poly	1/4"	PP-400 / DP-400S	MP-400
420 Barb to Poly	5/16"	DP-420	MP-400
700 Barb to Poly	7/16"	DP-700 Kit	MP-700
400 Barb to PVC (use 400-GRO)	9/16"	400-Drill Bit	MP-400GRO
700 Barb to PVC (use 700-GRO)	13/16"	700-Drill Bit	MP-700
1000 Barb to PVC (use 1000-GRO)	1-5/16"	1000-Drill Bit	1000 PIA w/PVC Cap
Layflat to Tape	19 mm	LFP-1 / AP-H-1 (09) / AP-H-2 (06)	FHC-06-PLUG
Layflat Valve to Tape	15 mm	LFP-LS-1 / AP-H-1 (09) / AP-H-2 (06)	FHC-06-PLUG
Layflat to Poly	15 mm	LFP-LS-1 / AP-H-1 (70) / AP-H-2 (50-60)	FHC-06-PLUG
Layflat Valve to Poly	15 mm	LFP-LS-1 / AP-H-1 (70) / AP-H-2 (50-60)	FHC-06-PLUG



# PVC Pipe to Tape Connections

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