

Compression Fittings Use with Polyethylene Tubing

API 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.



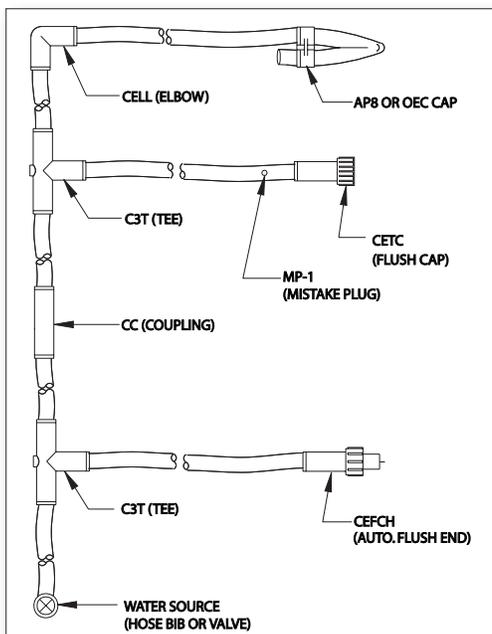
PRODUCT FEATURES

-  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

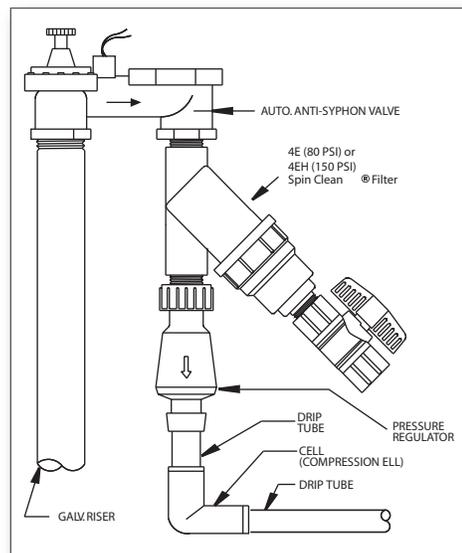


INSTALLATION DETAILS

Typical Connections



Automatic Head Assembly



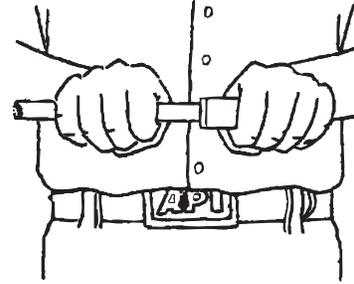
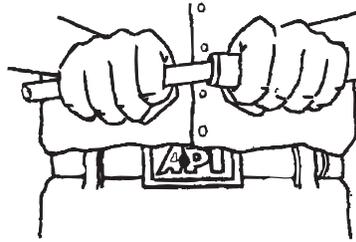
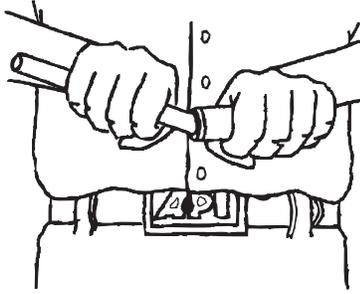
INSTALLATION INSTRUCTIONS

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

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.

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.



Compression Size Selection Chart

Nominal Tubing Size					
Fitting Series	Color of Ends	O.D. Inches	I.D. Inches	O.D. Millimeters	I.D. Millimeters
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

SPECIFICATIONS

	Standard Compression		Combination Compression	
	Fitting Body	Fiting Tip	Fitting Body	Fitting Tip
Body Identification	Black matte finish	Color coded for easy identification	White PVC	Color coded for easy identification
Material	20% glass-reinforced polypropylene with a minimum of 2% carbon black	20% glass-reinforced polypropylene UV stabilized	Schedule 40 PVC	PVC/ABS blend
Special Properties	Heat resistant to 270° Chemically resistant	Heat resistant to 270° Chemically resistant	Heat resistant Chemically resistant	Heat resistant Chemically resistant
Assembly	Agricultural Products custom sonic welding process	Agricultural Products custom sonic welding process	Solvent or sonic-welded	Solvent or sonic-welded

Gluing Compression Adapters

When gluing compression adapters into PVC fittings, use IPS #793 or equivalent (for fittings made of ABS) and IPS #711 (for fittings made of PVC). See the specifications above for fitting tip materials.

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