

# COMPRESSION FITTINGS

**For Use With Polyethylene Irrigation Tubing**

**DURABLE**

**RELIABLE**

**PROVEN**

**TRUSTED**

## Applications

### Agriculture



### Landscape









### Greenhouse/Nursery



## Product Features

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.

Agricultural Products compression fittings are made with glass-reinforced polypropylene or PVC for durability under the most demanding conditions. Agricultural Products is the leader in drip irrigation fittings, known for reliability, service, and dedicated attention to customers' needs.

-  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

## Size Selection Chart

Tubing O.D.			Agricultural Products			Thread/ Socket Size*
Nominal Inches	Millimeters	Minimum Wall	Compression Series	Compression Tip	Tubing Size	
.255 to .245	6.4	.035	<b>250</b>	Orange	.250 x .170 PE	1/2"
.312 to .302	7.8	.038	<b>307</b>	Grey	.307 x .250 PE	1/2"
.355 to .345	8.9	.040	<b>350</b>	Black	.350 x .250 PE	1/2"
.460 to .450	11.6	.040	<b>400</b>	Red	.455 x .375 PE	1/2"
.495 to .485	12.4	.042	<b>435</b>	Brown	—	1/2"
.515 to .505	13.0	.045	<b>450</b>	White	—	1/2"
.585 to .575	14.7	.045	<b>500</b>	Grey	—	1/2"
.625 to .615	15.7	.045	<b>600</b>	Green	.620 x .520 PE	1/2"
.665 to .655	16.8	.045	<b>660</b>	Lt. Brown	—	1/2"
.705 to .690	17.4 to 17.8	.047	<b>700</b>	Black	.700 x .600 PE	1/2"
.715 to .705	17.8 to 18.2	.047	<b>710</b>	Blue	—	1/2"
.795 to .787	20.1	.050	<b>790</b>	Green	—	3/4"
.835 to .827	21.1	.055	<b>800</b>	Black	—	3/4"
.921 to .914	23.3	.055	<b>890</b>	Lt. Blue	—	3/4"
.932 to .925	23.5	.055	<b>900</b>	Grey	.940 x .820 PE	3/4"

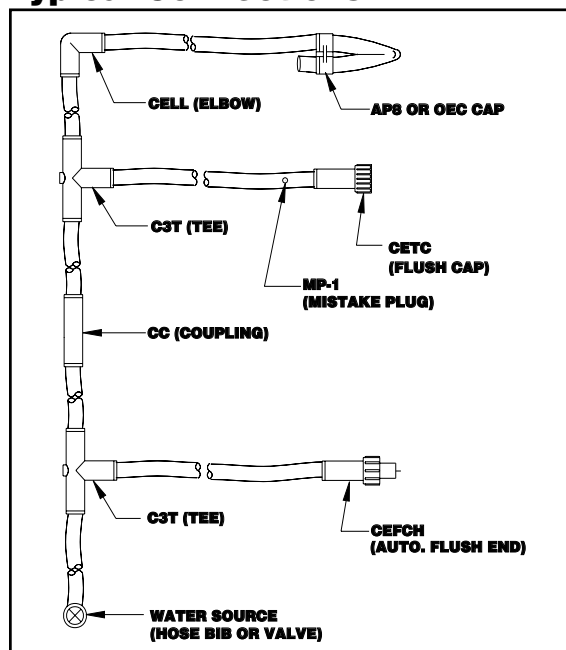
\*Where applicable. Excludes hose threads and reducing couplers.

For more detailed size information, see the Agricultural Products, Inc. Fitting Selection Slide Chart.

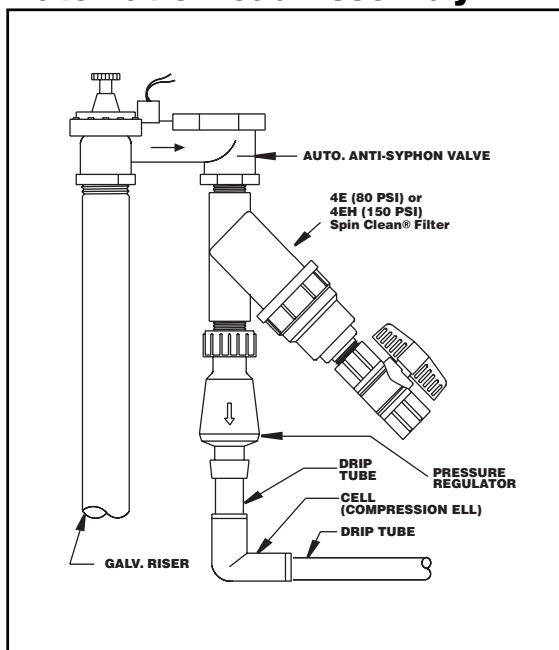
**Note:** Drip tubing may occasionally deviate from the manufacturer's published dimensions. Agricultural Products compression fittings generally allow for these variations. Please contact Agricultural Products if you have questions about which fittings best match your selected tubing size.

## Installation Details

### Typical Connections



### Automatic Head Assembly



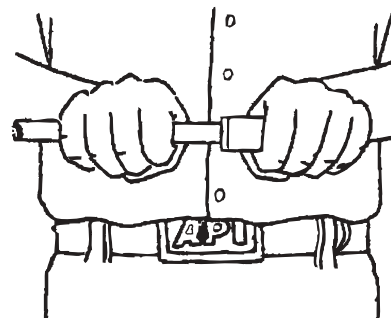
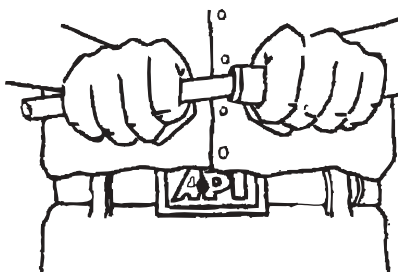
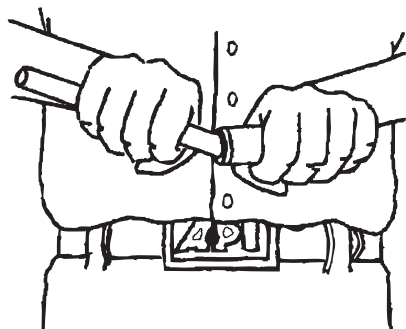
## Installation Instructions

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.



## Specifications

	Standard Compression		Combination Compression	
	Fitting Body	Fitting Tip	Fitting Body	Fitting Tip
<b>Body Identification</b>	Black matte finish	Color coded for easy identification	White PVC	Color coded for easy identification
<b>Material</b>	20% glass-reinforced polypropylene with a minimum of 2% carbon black	20% glass-reinforced polypropylene UV stabilized	Schedule 40 PVC	PVC/ABS blend
<b>Special Properties</b>	<ul style="list-style-type: none"><li>Heat resistant to 270°</li><li>Chemically resistant</li></ul>	<ul style="list-style-type: none"><li>Heat resistant to 270°</li><li>Chemically resistant</li></ul>	<ul style="list-style-type: none"><li>Heat resistant</li><li>Chemically resistant</li></ul>	<ul style="list-style-type: none"><li>Heat resistant</li><li>Chemically resistant</li></ul>
<b>Assembly</b>	Agricultural Products custom sonic welding process	Agricultural Products custom sonic welding process	Solvent or sonic-welded	Solvent or sonic-welded

For detailed specifications, see the Agricultural Products Technical Manual.

## Gluing Compression Adapters

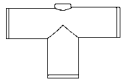
When gluing compression adapters into PVC fittings, use IPS #793 or equivalent (for fittings made of ABS) and IPS #711 (for fittings made of PVC). See the specifications above for fitting tip materials.



# Quick Guide

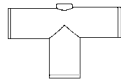
## Tees

### C3T



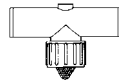
3-WAY COMPRESSION

### CTEES



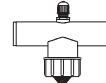
SOCKET

### CST



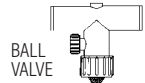
3/4" FH SWIVEL  
(WITH WASHER OR SCREEN WASHER)

### CSTV PRESSURE CHECK VALVE



3/4" FH SWIVEL  
(WITH WASHER OR SCREEN WASHER)

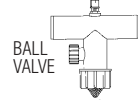
### CSTVA



3/4" FH SWIVEL  
(WITH WASHER OR SCREEN WASHER)

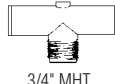
### CSTVVA

PRESSURE CHECK VALVE



3/4" FH SWIVEL  
(WITH WASHER OR SCREEN WASHER)

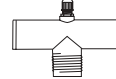
### C3TM



3/4" MHT

### C3TMTV

PRESSURE CHECK VALVE



3/4" MHT

### CTEEF



FPT

## Ells

### CELL



### CELLS



SOCKET

### CELLF



FPT

### CELL-SN



3/4" FH SWIVEL  
(WITH WASHER  
OR SCREEN WASHER)

### CELLM



MPT

## Adapters and Couplings

### CA-1/2



FITS 1/2" SOCKET

### CA-3/4



FITS 3/4" SOCKET

### CA-1/2Z



1/2" SOCKET  
3/4" SPIGOT

### RCC



REDUCING COUPLER

### CC



### CS



SOCKET

### CFA



FPT

### CMA



MPT

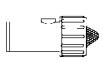
### CRMA



3/4" MPT  
REDUCING

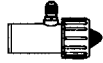
MPT

### CHS



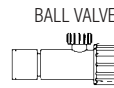
3/4" FH SWIVEL  
(WITH WASHER  
OR SCREEN WASHER)

### CHSTV



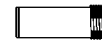
3/4" FH SWIVEL  
(WITH WASHER  
OR SCREEN  
WASHER)

### CHSVA



BALL VALVE  
3/4" FH SWIVEL  
(WITH WASHER  
OR SCREEN  
WASHER)

### CE



3/4" MHT

## Ends

### CETC



THREADED  
CAP

### CE-3/4B



3/4" MHT BALL VALVE

3/4" MHT

### CEC



CAP

### CEFCH



THREADED  
AUTOMATIC  
FLUSH VALVE

For additional fittings with compression connections, see:

- Spin Loc™ Fittings: S3TS-C, CSP
- Tape Loc™ Fittings: TEE-LSL, CSP-LS
- Accessories-Valves: 3/4"-BU-CA, I-BU-CA
- Accessories: Take-Off Fittings, ASC, Saddles, CPIA
- Barb Adapters: TPA 1/2" and 3/4", Pipe Adapters



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