



# Thermoplastic Fittings and Valves



## **TrueSeal™**

*Acetal Fittings meet NSF-61  
All Plastic Body Designs  
FDA Compliant  
NSF-51 Listed*



## **Polypropylene Ball Valves**

*Corrosion Resistant  
FDA Compliant  
NSF-51 Listed  
Bi-directional*



## **Fast & Tite®**

*Stainless Steel Grab Ring  
FDA Compliant  
NSF-51 Listed  
O-ring Seal*



## **Par-Barb®**

*FDA Compliant  
NSF-51 Listed  
High Strength,  
Chemically Inert*



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<b>TrueSeal™</b>	<b>MC</b> Male Connector Tube to Pipe  Page D5	<b>EU</b> Elbow Union Tube to Tube  Page D5	<b>TU</b> Tee Union Tube to Tube  Page D5	<b>WY</b> "Y" Union Tube to Tube  Page D5	<b>MES</b> Male Elbow Swivel Tube to Pipe  Page D6	<b>MRS</b> Male Run Swivel Tube to Pipe  Page D6	
	<b>MTS</b> Male Tee Swivel Tube to Pipe  Page D6	<b>UC</b> Union Connector Tube to Tube  Page D6	<b>CU</b> Cross Union Tube to Tube  Page D7	<b>FA</b> Faucet Adapter Tube to Faucet  Page D7	<b>FC</b> Female Connector Tube to Pipe  Page D7	<b>FF</b> Female Flare Tube to Flare  Page D7	<b>TMC</b> Tube Stem Adapter Tube Stem to Pipe  Page D7
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	<b>TAF</b> Tube Faucet Adapter (Male Thread)  Page D14	<b>SC</b> Safety Clip  Page D14	<b>TS</b> Tube Support  Page D14	<b>AQRT</b> Quick Release Tool  Page D14			

<b>Fast &amp; Tite®</b>	<b>MC</b> Male Connector Tube to Male Pipe  Page D16	<b>UC</b> Union Connector Tube to Tube  Page D16	<b>ME</b> Male Elbow Tube to Male Pipe  Page D16	<b>EU</b> Elbow Union Tube to Tube  Page D16	<b>BU</b> Bulkhead Union Tube to Tube  Page D17	<b>FE</b> Female Elbow Tube to Female Pipe  Page D17
	<b>FC</b> Female Connector Tube to Female Pipe  Page D17	<b>MR</b> Male Run Tee Tube to Tube to Male Pipe  Page D17	<b>TU</b> Tee Union Tube to Tube  Page D17	<b>MT</b> Male branch Tee Tube to Male Pipe  Page D17	<b>GR</b> Grab Ring Stainless or Plastic  Page D18	<b>OR</b> O-Ring  Page D18
<b>NS</b> Nut & Spacer Sets  Page D18						
<b>Par-Barb®</b>	<b>TUB</b> Tee Union  Page D20	<b>EUB</b> Elbow Union  Page D20	<b>MTB</b> Tee Male Branch  Page D20	<b>HPL</b> Hex Head Pipe Plug  Page D20	<b>MEB</b> Male Elbow Con- nector  Page D21	<b>UCB</b> Union Connector  Page D21
	<b>HPN</b> Hex Pipe Nipple  Page D21	<b>MCB</b> Male Connector Adapter  Page D22				

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# TrueSeal™ Thermoplastic Push-In Fittings

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MATERIALS OF CONSTRUCTION		
MATERIAL	FITTING COLOR	O-RING
ACETAL	GRAY	EPDM
POLYPROPYLENE	WHITE	EPDM
KYNAR®	NATURAL	FLUOROCARBON

NOMENCLATURE	
EXAMPLE: A4MC4-MG-V	ATTRIBUTE:
A	FITTING BODY MATERIAL (A = ACETAL, PP = POLYPROPYLENE, F = KYNAR (PVDF))
4	TUBE O.D. IN SIXTEENTHS OF AN INCH
MC	BODY STYLE
4	END TERMINATION SIZE
MG	METAL GRIPPER COLLET
V	O-RING MATERIALS (BLANK = REFERENCE STANDARD MATERIALS, EPDM = ETHYLENE PROPYLENE, N = NITRILE, V = FLUOROCARBON)



WORKING PRESSURE AND TEMPERATURE			
FITTING SIZE	ACETAL	POLYPROPYLENE	KYNAR®
1/4"	300	150	300
5/16"	300		
3/8"	300	150	300
1/2"	250	150	
TEMP. RANGE	-20°F (-29°C) TO +180°F (85°C)	0°F (-18°C) TO +225°F (110°C)	0°F (-18°C) TO +275°F (135°C)

SPECIFICATIONS	
TUBE MATERIAL:	POLYETHYLENE, POLYPROPYLENE, NYLON, VINYL, FLUOROPOLYMER, POLYURETHANE. 3/8" AND 1/2" SIZES OF POLYURETHANE AND ALL SIZES OF VINYL SHOULD USE TUBE SUPPORTS.
TUBE O.D.:	1/4, 5/16, 3/8, 1/2
OPERATING FLUID:	AIR, WATER, SOFT DRINKS, BEER, WINE, DYES
NOTE:	FOR OTHER TYPES OF FLUIDS OR GASSES, PLEASE CONSULT FACTORY

An all plastic push-to-connect fitting manufactured from FDA compliant materials and are NSF-51 listed for contact with food. Gray acetal fittings meet NSF-61 requirements for drinking water (potable water) system components. Fittings are light weight, field attachable and connect to tubing without the use of tools. Black nitrile o-rings and colored collets in black, white, red, blue, green, yellow and orange are also available. Consult Division. KYNAR® is a registered trademark of Atochem North America, Inc. \*U.S. Patent 5,584,513.

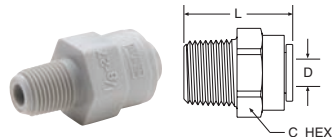
### Assembly Instructions

1. Cut tubing square and clean. (Use a Parker plastic tube cutter, Part No. PTC.)
2. Mark from end of tube the length of insertion (see table right).
3. Push tube into the fitting until it bottoms out.
4. To remove, depress collet and pull tubing out.
5. Use TrueSealant™ (Part No. PTS) on threads.

TUBE SIZES	O.D. TOLERANCE	INSERTION DEPTH
5/32"	±005"	9/16"
1/4"	±005"	11/16"
5/16"	±005"	13/16"
3/8"	±005"	3/4"
1/2"	±005"	7/8"

### MC - Male Connector

Tube-to-Pipe

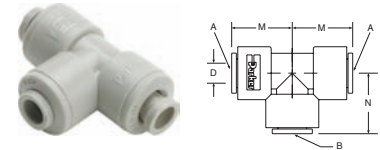


GRAY ACETAL EPDM SEAL	WHITE PPL EPDM SEAL	NATURAL KYNAR FLUOROCARBON SEAL	NOM. TUBE O.D.	NPTF THD SIZE	C HEX	L OVERALL LENGTH	D THRU HOLE MIN.
A4MC2-MG	PP4MC2	F4MC2	1/4	1/8	11/16	1.28	.175
A4MC4-MG	PP4MC4	F4MC4	1/4	1/4	11/16	1.14	.175
A4MC6-MG	PP4MC6	F4MC6	1/4	3/8	11/16	1.18	.175
A5MC2-MG			5/16	1/8	13/16	1.46	.175
A5MC4-MG			5/16	1/4	13/16	1.41	.188
A5MC6-MG			5/16	3/8	13/16	1.27	.188
A6MC2-MG		F6MC2	3/8	1/8	13/16	1.46	.175
A6MC4-MG	PP6MC4	F6MC4	3/8	1/4	13/16	1.41	.250
A6MC6-MG	PP6MC6	F6MC6	3/8	3/8	13/16	1.27	.250
A6MC8-MG		F6MC8	3/8	1/2	15/16	1.45	.250
A8MC6-MG	PP8MC6		1/2	3/8	15/16	1.65	.360
A8MC8-MG	PP8MC8		1/2	1/2	15/16	1.46	.375

For nonstandard plastic collet, remove -MG suffix.

### TU - Tee Union

Tube-to-Tube



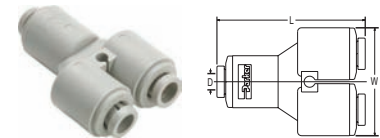
GRAY ACETAL EPDM SEAL	WHITE PPL EPDM SEAL	NATURAL KYNAR FLUOROCARBON SEAL	NOM. TUBE O.D.		M	N	D THRU HOLE MIN.
			TUBE A RUN	TUBE B STEM			
A4TU4-MG	PP4TU4	F4TU4	1/4	1/4	0.81	0.85	.175
A5TU5-MG			5/16	5/16	1.02	1.02	.188
A6TU4-MG	PP6TU4	F6TU4	3/8	1/4	1.02	1.03	.175
A6TU6-MG	PP6TU6	F6TU6	3/8	3/8	1.02	1.02	.290
A8TU8-MG	PP8TU8		1/2	1/2	1.20	1.20	.375

For nonstandard plastic collet, remove -MG suffix.



### WY - "Y" Union

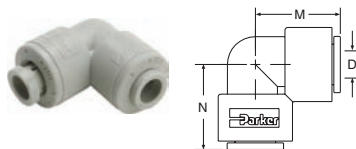
Tube-to-Tube



GRAY ACETAL EPDM SEAL	WHITE PPL EPDM SEAL	NATURAL KYNAR FLUOROCARBON SEAL	NOM. TUBE O.D.		L	W	D THRU HOLE MIN.
			INLET TUBE A RUN	OUTLET TUBE B STEM			
A5WY5-MG			5/16	5/16	2.250	1.75	0.190
A6WY4-MG			3/8	1/4	2.100	1.43	0.190
A6WY5-MG			3/8	5/16	2.200	1.75	0.190
A6WY6-MG			3/8	3/8	2.175	1.75	0.250

### EU - Elbow Union

Tube-to-Tube



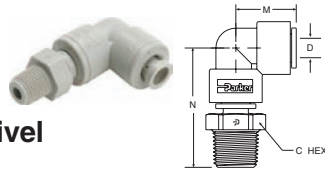
GRAY ACETAL EPDM SEAL	WHITE POLYPROPYLENE EPDM SEAL	NATURAL KYNAR FLUOROCARBON SEAL	NOM. TUBE O.D.	M	N	D THRU HOLE MIN.
A4EU4-MG	PP4EU4	F4EU4	1/4	0.87	0.87	.175
A5EU4-MG			5/16-1/4	1.052	0.90	.175
A5EU5-MG			5/16	1.02	1.02	.188
A6EU4-MG	PP6EU4	F6EU4	3/8-1/4	1.02	0.90	.212
A6EU5-MG			3/8-5/16	1.02	1.02	.175
A6EU6-MG	PP6EU6	F6EU6	3/8	1.02	1.02	.250
A8EU6-MG			1/2-3/8	1.20	1.20	.250
A8EU8-MG	PP8EU8		1/2	1.20	1.20	.375

For nonstandard plastic collet, remove -MG suffix.

NOTE: PPL refers to Polypropylene. FCB refers to Fluorocarbon.





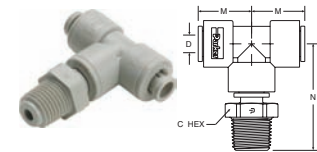


### MES - Male Elbow Swivel

Tube-to-Pipe

GRAY ACETAL EPDM SEAL	WHITE PPL EPDM SEAL	NATURAL KYNAR FCB SEAL	NOM. TUBE O.D.	NPTF THD SIZE	C HEX	M	N	D THRU HOLE MIN.
A4MES2-MG	PP4MES2	F4MES2	1/4	1/8	9/16	0.87	1.60	.175
A4MES4-MG	PP4MES4	F4MES4	1/4	1/4	11/16	0.87	1.71	.175
A4MES6-MG	PP4MES6	F4MES6	1/4	3/8	13/16	0.90	1.91	.212
A5MES2-MG			5/16	1/8	9/16	1.02	1.78	.188
A5MES4-MG			5/16	1/4	11/16	1.02	1.90	.188
A5MES6-MG			5/16	3/8	13/16	1.02	1.90	.188
A6MES2-MG		F6MES2	3/8	1/8	9/16	1.02	1.65	.175
A6MES4-MG	PP6MES4	F6MES4	3/8	1/4	13/16	1.02	1.90	.250
A6MES6-MG	PP6MES6	F6MES6	3/8	3/8	13/16	1.02	1.90	.250
A8MES4-MG			1/2	1/4	13/16	1.20	2.10	.240
A8MES6-MG	PP8MES6		1/2	3/8	13/16	1.20	2.10	.375
A8MES8-MG	PP8MES8		1/2	1/2	1	1.20	2.32	.375

\* Part consists of elbow union and tube stem adaptor.  
 Note: Assemblies with metal gripper collets are permanent.  
 Assemblies with plastic collets can be taken apart.

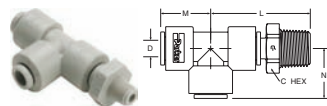


### MTS - Male Tee Swivel

Tube-to-Pipe

GRAY ACETAL EPDM SEAL	WHITE PPL EPDM SEAL	NATURAL KYNAR FCB SEAL	NOM. TUBE O.D.	NPTF THD SIZE	C HEX	M	N	D THRU HOLE MIN.
A4MTS2-MG	PP4MTS2	F4MTS2	1/4	1/8	9/16	0.81	1.60	.175
A4MTS4-MG	PP4MTS4	F4MTS4	1/4	1/4	11/16	0.81	1.71	.175
A5MTS2-MG			5/16	1/8	9/16	1.02	1.78	.188
A5MTS4-MG			5/16	1/4	11/16	1.02	1.90	.188
A5MTS6-MG			5/16	3/8	13/16	1.02	1.90	.188
A6MTS2-MG		F6MTS2	3/8	1/8	9/16	1.02	1.75	.175
A6MTS4-MG	PP6MTS4	F6MTS4	3/8	1/4	13/16	1.02	1.90	.250
A6MTS6-MG	PP6MTS6	F6MTS6	3/8	3/8	13/16	1.02	1.90	.250
A8MTS4-MG			1/2	1/4	13/16	1.20	2.10	.240
A8MTS6-MG	PP8MTS6		1/2	3/8	13/16	1.20	2.10	.375
A8MTS8-MG	PP8MTS8		1/2	1/2	1	1.20	2.32	.375

\* Part consists of tee union and tube stem adaptor.  
 Note: Assemblies with metal gripper collets are permanent.  
 Assemblies with plastic collets can be taken apart.

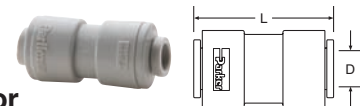


### MRS - Male Run Swivel

Tube-to-Pipe

GRAY ACETAL EPDM SEAL	WHITE PPL EPDM SEAL	NATURAL KYNAR FCB SEAL	NOM. TUBE O.D.	NPTF THD SIZE	C HEX	L	M	N	D THRU HOLE MIN.
A4MRS2-MG	PP4MRS2	F4MRS2	1/4	1/8	9/16	1.55	0.81	0.85	.175
A4MRS4-MG	PP4MRS4	F4MRS4	1/4	1/4	11/16	1.67	0.81	0.85	.175
A5MRS2-MG			5/16	1/8	9/16	1.78	1.02	1.02	.188
A5MRS4-MG			5/16	1/4	11/16	1.90	1.02	1.02	.188
A5MRS6-MG			5/16	3/8	13/16	1.90	1.02	1.02	.188
A6MRS4-MG	PP6MRS4	F6MRS4	3/8	1/4	13/16	1.90	1.02	1.02	.250
A6MRS6-MG	PP6MRS6	F6MRS6	3/8	3/8	13/16	1.90	1.02	1.02	.250
A8MRS4-MG			1/2	1/4	13/16	2.10	1.20	1.20	.240
A8MRS6-MG	PP8MRS6		1/2	3/8	13/16	2.10	1.20	1.20	.375
A8MRS8-MG	PP8MRS8		1/2	1/2	1	2.32	1.20	1.20	.375

\*Part consists of tee union and tube stem adaptor.  
 Note: Assemblies with metal gripper collets are permanent.  
 Assemblies with plastic collets can be taken apart.



### UC - Union Connector

Tube-to-Tube

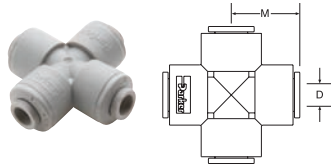
GRAY ACETAL EPDM SEAL	WHITE POLYPROPYLENE EPDM SEAL	NATURAL KYNAR FLUOROCARBON SEAL	NOM. TUBE O.D.	L OVERALL LENGTH	D THRU HOLE MIN.
A4UC4-MG	PP4UC4	F4UC4	1/4	1.49	.175
A5UC4-MG			5/16-1/4	1.70	.175
A5UC5-MG			5/16	1.70	.188
A6UC4-MG	PP6UC4	F6UC4	3/8-1/4	1.70	.175
A6UC5-MG			3/8-5/16	1.70	.188
A6UC6-MG	PP6UC6	F6UC6	3/8	1.70	.250
A8UC5-MG			1/2-5/16	1.90	.188
A8UC6-MG	PP8UC6		1/2-3/8	1.90	.250
A8UC8-MG	PP8UC8		1/2	1.91	.375

For nonstandard plastic collet, remove -MG suffix.

NOTE: PPL refers to Polypropylene. FCB refers to Fluorocarbon.



### CU - Cross Union

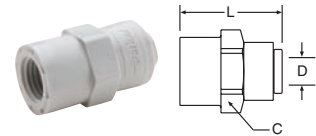


Tube-to-Tube

GRAY ACETAL EPDM SEAL	WHITE PPL EPDM SEAL	NATURAL KYNAR FLUOROCARBON SEAL	NOM. TUBE O.D.	M	D THRU HOLE MIN.
A4CU4-MG			1/4	.91	.175
A6CU6-MG			3/8	1.08	.250

For nonstandard plastic collet, remove -MG suffix.

### FF - 45° Female Flare



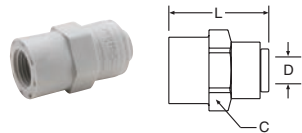
Tube-to-Flare

GRAY ACETAL EPDM SEAL	WHITE PPL EPDM SEAL	NATURAL KYNAR FLUOROCARBON SEAL	NOM. TUBE O.D.	UNF-2B THREAD SIZE	C HEX	L OVERALL LENGTH	D THRU HOLE MIN.
A4FF4-MG	PP4FF4	F4FF4	1/4	7/16-20	23/32	1.32	.190
A6FF4-MG		F6FF4	3/8	7/16-20	13/16	1.41	.190
A6FF6-MG	PP6FF6	F6FF6	3/8	5/8-18	1	1.50	.250

For nonstandard plastic collet, remove -MG suffix.



### FA - Faucet Adapter

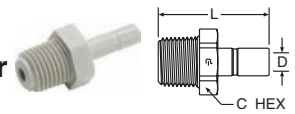


Tube-to-Faucet

GRAY ACETAL EPDM SEAL	WHITE PPL EPDM SEAL	NATURAL KYNAR FLUOROCARBON SEAL	NOM. TUBE O.D.	UNS-2B THREAD SIZE	C HEX	L OVERALL LENGTH	D THRU HOLE MIN.
A4FA7-MG	PP4FA7	F4FA7	1/4	7/16-24	23/32	1.32	.190
A5FA7-MG			5/16	7/16-24	13/16	1.41	.190
A6FA7-MG	PP6FA7	F6FA7	3/8	7/16-24	13/16	1.41	.190

For nonstandard plastic collet, remove -MG suffix.

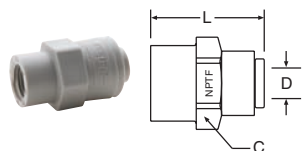
### TMC - Tube Stem Adapter



Tube Stem-to-Pipe

GRAY ACETAL EPDM SEAL	WHITE PPL EPDM SEAL	NATURAL KYNAR FLUOROCARBON SEAL	NOM. TUBE O.D.	NPTF THREAD SIZE	C HEX	L OVERALL LENGTH	D THRU HOLE MIN.
A4TMC2	PP4TMC2	F4TMC2	1/4	1/8	9/16	1.44	.175
A4TMC4	PP4TMC4	F4TMC4	1/4	1/4	11/16	1.56	.175
A5TMC2			5/16	1/8	9/16	1.5	.188
A5TMC4			5/16	1/4	11/16	1.67	.188
A5TMC6			5/16	3/8	13/16	1.67	.188
A6TMC4	PP6TMC4	F6TMC4	3/8	1/4	13/16	1.70	.250
A6TMC6	PP6TMC6	F6TMC6	3/8	3/8	13/16	1.70	.250
A8TMC4			1/2	1/4	13/16	1.82	.240
A8TMC6	PP8TMC6		1/2	3/8	13/16	1.82	.375
A8TMC8	PP8TMC8		1/2	1/2	1	2.04	.375

### FC - Female Connector



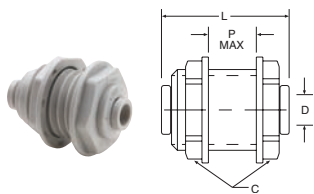
Tube-to-Pipe

GRAY ACETAL EPDM SEAL	WHITE PPL EPDM SEAL	NATURAL KYNAR FLUOROCARBON SEAL	NOM. TUBE O.D.	NPTF THREAD SIZE	C HEX	L OVERALL LENGTH	D THRU HOLE MIN.
A4FC2-MG	PP4FC2	F4FC2	1/4	1/8	11/16	1.20	.175
A4FC4-MG	PP4FC4	F4FC4	1/4	1/4	23/32	1.32	.175
A5FC4-MG			5/16	1/4	13/16	1.41	.188
A5FC6-MG			5/16	3/8	1	1.50	.188
A6FC4-MG	PP6FC4	F6FC4	3/8	1/4	13/16	1.41	.250
A6FC6-MG	PP6FC6	F6FC6	3/8	3/8	1	1.50	.250
A6FC8-MG			3/8	1/2	1-1/8	1.52	.250
A8FC6-MG	PP8FC6		1/2	3/8	1-1/8	1.60	.375
A8FC8-MG	PP8FC8		1/2	1/2	1-1/8	1.75	.375

For nonstandard plastic collet, remove -MG suffix.

NOTE: PPL refers to Polypropylene. FCB refers to Fluorocarbon.





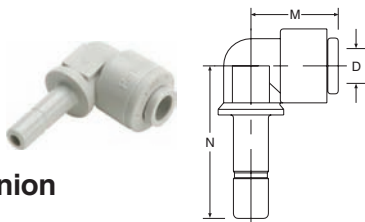
### BU - Bulkhead Union

Tube-to-Tube

GRAY ACETAL EPDM SEAL	WHITE PPL EPDM SEAL	NATURAL KYNAR FCB SEAL	NOM. TUBE O.D.	C1 HEX	C2 HEX	L OVERALL LENGTH	P MAX. WALL THK.	D THRU HOLE MIN.	BKHD HOLE DRILL SIZE
A4BU4-MG	PP4BU4	F4BU4	1/4	15/16	15/16	1.50	.50	.175	7/8
A5BU5-MG			5/16	1-1/16	1-1/16	1.75	.62	.188	1
A6BU4-MG	PP6BU4		3/8-1/4	1-1/16	1-1/16	1.75	.62	.175	1
A6BU6-MG	PP6BU6	F6BU6	3/8	1-1/16	1-1/16	1.75	.62	.250	1
A8BU8-MG			1/2	1-1/4	1-1/4	2.04	.70	.375	1-1/8

For nonstandard plastic collet, remove -MG suffix.

D



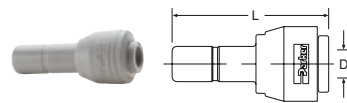
### TEU - Tube Elbow Union

Tube-to-Tube Stem

GRAY ACETAL EPDM SEAL	WHITE PPL EPDM SEAL	NATURAL KYNAR FLUOROCARBON SEAL	NOM. TUBE O.D.	TUBE STEM O.D.	M	N	D THRU HOLE MIN.
A4TEU4-MG	PP4TEU4	F4TEU4	1/4	1/4	.84	1.21	.125
A4TEU6-MG		F4TEU6	1/4	3/8	.84	1.35	.125
A5TEU5-MG			5/16	5/16	1.03	1.40	.188
A6TEU4-MG		F6TEU4	3/8	1/4	1.03	1.29	.125
A6TEU6-MG	PP6TEU6	F6TEU6	3/8	3/8	1.03	1.64	.250
A8TEU8-MG	PP8TEU8		1/2	1/2	1.21	1.64	.380

For nonstandard plastic collet, remove -MG suffix.

### RD - Tube Reducer



Tube-to-Tube Stem

GRAY ACETAL EPDM SEAL	WHITE POLYPROPYLENE EPDM SEAL	NATURAL KYNAR FLUOROCARBON SEAL	NOM. TUBE O.D.	TUBE STEM O.D.	L	D THRU HOLE MIN.
A4RD5-MG	PP4RD5		1/4	5/16	1.62	.18
A4RD6-MG	PP4RD6		1/4	3/8	1.62	.18
A5RD6-MG			5/16	3/8	1.78	.25
A5RD8-MG			5/16	1/2	1.90	.25
A6RD8-MG			3/8	1/2	1.90	.25

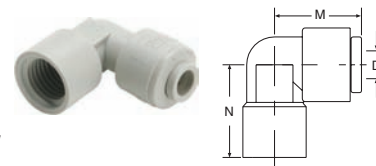
For nonstandard plastic collet, remove -MG suffix.



### CAP - Tube Cap

GRAY ACETAL EPDM SEAL	WHITE POLYPROPYLENE EPDM SEAL	NATURAL KYNAR FLUOROCARBON SEAL	NOM. TUBE O.D.	L OVERALL LENGTH
A4CAP-MG	PP4CAP	F4CAP	1/4	0.77
A6CAP-MG	PP6CAP		3/8	0.88

For nonstandard plastic collet, remove -MG suffix.



### FE - Female Elbow

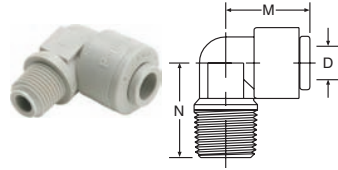
Tube-to-Tube

GRAY ACETAL EPDM SEAL	WHITE PPL EPDM SEAL	NATURAL KYNAR FLUOROCARBON SEAL	NOM. TUBE O.D.	NPTF THREAD SIZE	M	N	D THRU HOLE MIN.
A4FE4-MG			1/4	1/4	0.84	1.00	.18
A6FE4-MG			3/8	1/4	1.03	1.00	.25
A6FE6-MG			3/8	3/8	1.03	1.00	.25

For nonstandard plastic collet, remove -MG suffix.

NOTE: PPL refers to Polypropylene. FCB refers to Fluorocarbon.



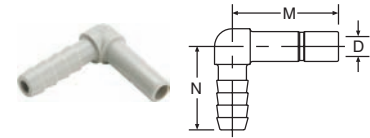


### ME - Male Elbow

Tube-to-Pipe

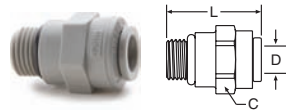
GRAY ACETAL EPDM SEAL	WHITE POLYPROPYLENE EPDM SEAL	NATURAL KYNAR FLUOROCARBON SEAL	NOM. TUBE O.D.	NPTF THD SIZE	M	N	D THRU HOLE MIN.
A4ME2-MG	PP4ME2	F4ME2	1/4	1/8	0.84	0.94	.175
A4ME4-MG	PP4ME4	F4ME4	1/4	1/4	0.84	0.94	.175
A4ME6-MG	PP4ME6	F4ME6	1/4	3/8	0.84	1.04	.175
A5ME4-MG			5/16	1/4	1.03	1.08	.175
A5ME6-MG			5/16	3/8	1.03	1.06	.188
A6ME4-MG	PP6ME4	F6ME4	3/8	1/4	1.03	1.08	.250
A6ME6-MG	PP6ME6	F6ME6	3/8	3/8	1.03	1.06	.250

For nonstandard plastic collet, remove -MG suffix.



### TEB - Tube Elbow Barb Connector

GRAY ACETAL	WHITE POLYPROPYLENE	NATURAL KYNAR	TUBE STEM O.D.	TUBE I.D.	M	N	D THRU HOLE MIN.
A4TEB4	PP4TEB4	F4TEB4	1/4	1/4	0.89	1.00	.140
A6TEB6	PP6TEB6	F6TEB6	3/8	3/8	1.34	1.21	.250
A8TEB8			1/2	1/2	1.30	1.30	.390

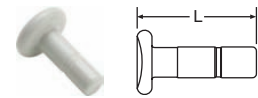


### ST - Straight Thread

Tube-to-Male O-Ring Boss

GRAY ACETAL EPDM SEAL	WHITE PPL EPDM SEAL	NATURAL KYNAR FLUOROCARBON SEAL	NOM. TUBE O.D.	UNF-2B THD SIZE	C HEX	L OVERALL LENGTH	D THRU HOLE MIN.
A6ST9-MG		F6ST9 (+)	3/8	9/16-18	13/16	1.39	.250

For nonstandard plastic collet, remove -MG suffix.



### TPL - Plug

GRAY ACETAL	WHITE POLYPROPYLENE	NATURAL KYNAR	FITTING SIZE	L OVERALL LENGTH
A4TPL	PP4TPL	F4TPL	1/4	0.88
A6TPL	PP6TPL	F6TPL	3/8	1.45
A8TPL	PP8TPL		1/2	1.50



### TCB - Tube-to-Barb Connector

GRAY ACETAL	WHITE POLYPROPYLENE	NATURAL KYNAR	TUBE STEM O.D.	TUBE I.D.	L OVERALL LENGTH	D THRU HOLE MIN.
A4TCB4	PP4TCB4	F4TCB4	1/4	1/4	1.67	.140
A6TCB4		F6TCB4	3/8	1/4	1.82	.140
A6TCB6	PP6TCB6	F6TCB6	3/8	3/8	1.98	.250
A8TCB6			1/2	3/8	2.10	.250
A8TCB8			1/2	1/2	2.10	.375

NOTE: PPL refers to Polypropylene. FCB refers to Fluorocarbon.

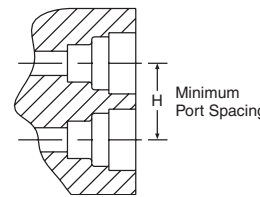
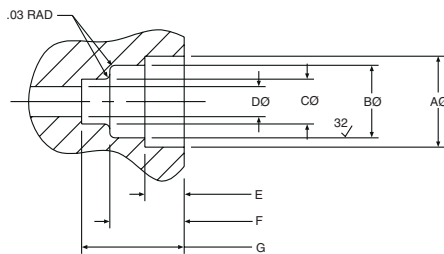




### TSC - Cartridge Insert

PART NUMBER WITH EPDM SEAL	NOM. TUBE O.D.	A* DIAMETER ±.002	B DIAMETER ±.003	C DIAMETER ±.003	D DIAMETER MINIMUM	E DEPTH ±.002	F DEPTH ±.002	G DEPTH ±.002	H* CENTERLINE OF PORTS MINIMUM
ATSC4-MG	1/4	.528	.421	.260	.19	.230	.435	.600	.670
ATSC6-MG	3/8	.632	.545	.385	.31	.280	.455	.705	.790
ATSC8-MG	1/2	.774	.668	.510	.41	.315	.510	.810	1.250

D



#### Parker TrueSeal™ Cartridge Inserts:

Allow you to machine or mold a tube connection into your equipment or components. By using cartridge inserts, you will reduce your material and assembly costs, reduce potential leak paths, and give your equipment a new, clean profile by eliminating the need for threaded connections. TSC Cartridge Inserts consist of 1 o-ring, 1 cartridge, and 1 collet.

\*Cartridge inserts are rated at 300 psi in ports dimensioned as above and having Noryl as the receiving material. Other materials may have different ratings and require different port dimensions. Consult the Brass Products Division when using polypropylene, unfilled polypropylene, ABS or Nylon.

NORYL® is a registered trademark of the General Electric Co.

#### Assembly Instructions:

**Step 1**—Machine or mold the receiving orifice as per the above dimensions.

**Step 2**—Place the cartridge insert squarely onto the prepared port opening making sure that the barbs of the cartridge are going into the hole and the lettering on the face of the cartridge is visible.

**Step 3**—Using a rubber mallet or press, insert the cartridge into the first gland orifice until its face is flush with the top surface of the port.

**Step 4**—Insert the o-ring into the cartridge and seat it evenly into the second gland orifice.

**Step 5**—Insert the collet into the cartridge opening.

**Step 6**—Insert tubing.

### TrueSeal Check Valves

Push-to-Connect check valves that ensures protection against reversal of flow. The valves have an arrow molded into the body to indicate the direction of flow. Valves are designed for connection with either thermoplastic or soft metal tubing and are intended for use with liquids only.

#### Materials of Construction

Body: Acetal

O-ring: EPDM

Metal Grip Edge: 300 Stainless

#### Working Pressure

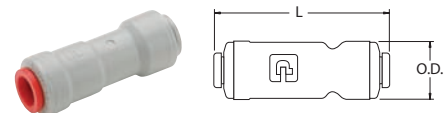
Up to 150 PSI depending on tubing being used

#### Temperature Range

+34°F (1° C) to +150°F (65°C)

#### Cracking Pressure

1/3 PSI



### VC – Check Valve

PART NO.	TUBE SIZE	L	O.D.
A4VC4-MG	1/4	2.00	.66
A5VC5-MG	5/16	2.10	.70
A6VC6-MG	3/8	2.15	.80

NOTE: PPL refers to Polypropylene. FCB refers to Fluorocarbon.



# Polypropylene Ball Valves

For proven leak-free performance, specify **Polypropylene Ball Valves**. Their corrosion-resistant, all-plastic design makes them ideal for water filtration units, coffee and beverage machines and a wide variety of other fluid applications. Polypropylene material meets all FDA and NSF-51 requirements for food contact.

**Features/Benefits:**

- Precision molded, all-plastic design is leak free and corrosion resistant.
- Polypropylene material offers a wider chemical acceptance range, as well as a wide temperature range.
- Bi-directional flow maximizes productivity.
- Full flow design reduces pressure drop across the valve.
- Special o-ring seal ensures a reliable leak-tight connection.
- TrueSeal™ connection reduces potential leaks.

**Specifications:**

- Temperature range: 0°F to 225°F (-18°C to 107°C).
- O-ring seal material: Nitrile.
- NSF-51 listed.
- Pressure rated to 150 PSI with a 600 PSI burst pressure. Actual working pressures will be lower at elevated temperatures

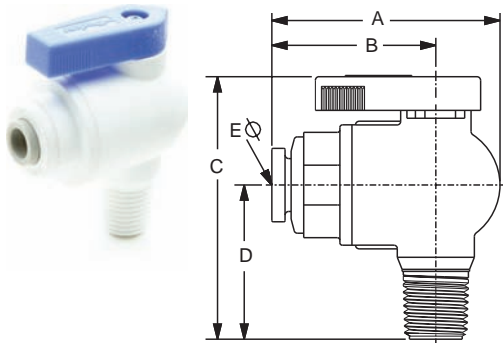
**Advantages:**

- Reduce costs—Built-in TrueSeal™ connection eliminates the need for a secondary fitting.
- Save space—Low-profile design allows for easy assembly and access where space is at a premium.

**Assembly Instructions:**

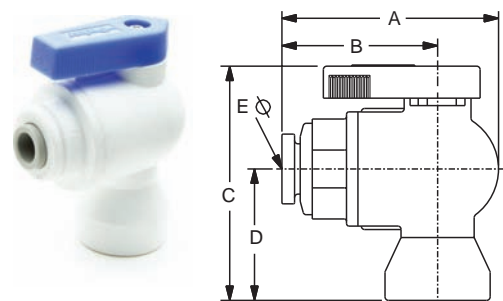
1. Inspect the mating threads for debris or damage. Remove any old fluoropolymer tape or sealant on previously used threads. If threads are damaged, replace with new adapter before proceeding.
2. Apply 2 to 3 wraps of fluoropolymer tape, Parker TrueSealant™ or an NSF/FDA approved silicon sealant. Do not use Plumbers Putty or Pipe Dope. These chemically react with plastic materials and could cause a failure.
3. Align ball valve to mating thread to ensure cross threading does not occur.
4. Screw ball valve onto mating thread 3 to 5 turns. This should be sufficient to properly seal the threads.
5. Pressurize system and check for leaks.

**VME - Valve Male Elbow**



PART NUMBER	NOM. TUBE O. D.	NPTF THREAD SIZE	A	B	C	D	ØE THRU HOLE MIN.
PP4VME2-MG (+)	1/4	1/8	1.74	1.21	2.00	1.10	.19
PP4VME4-MG	1/4	1/4	1.74	1.21	2.18	1.28	.19
PP4VME6-MG	1/4	3/8	1.74	1.21	2.18	1.28	.19
PP4VME8-MG (+)	1/4	1/2	1.74	1.21	2.37	1.47	.19
PP6VME2-MG (+)	3/8	1/8	1.85	1.32	2.00	1.10	.25
PP6VME4-MG	3/8	1/4	1.85	1.32	2.18	1.28	.25
PP6VME6-MG	3/8	3/8	1.85	1.32	2.18	1.28	.25
PP6VME8-MG	3/8	1/2	1.85	1.32	2.37	1.47	.25

**VFE - Valve Female Elbow**

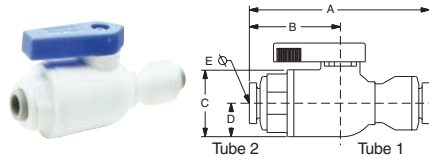


PART NUMBER	NOM. TUBE O. D.	NPTF THREAD SIZE	A	B	C	D	ØE THRU HOLE MIN.
PP4VFE2-MG (+)	1/4	1/8	1.74	1.21	1.82	0.92	.19
PP4VFE4-MG	1/4	1/4	1.74	1.21	2.05	1.15	.19
PP4VFE6-MG	1/4	3/8	1.74	1.21	2.18	1.28	.19
PP6VFE2-MG (+)	3/8	1/8	1.85	1.32	1.82	0.92	.25
PP6VFE4-MG	3/8	1/4	1.85	1.32	2.05	1.15	.25
PP6VFE6-MG	3/8	3/8	1.85	1.32	2.18	1.28	.25

(+) Non Standard.

NOTE: PPL refers to Polypropylene. FCB refers to Fluorocarbon.

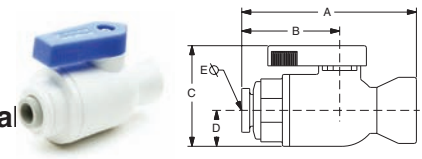




**VUC - Valve Union Connector**

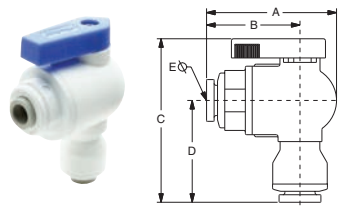
PART NUMBER	1 TUBE SIZE	2 TUBE SIZE	A	B	C	D	ØE THRU HOLE MIN.
PP4VUC4-MG	1/4	1/4	2.55	1.22	1.0	0.5	.19
PP4VUC6-MG	1/4	3/8	2.55	1.22	1.0	0.5	.19
PP6VUC4-MG	3/8	1/4	2.57	1.30	1.0	0.5	.19
PP6VUC6-MG	3/8	3/8	2.67	1.32	1.4	0.5	.25

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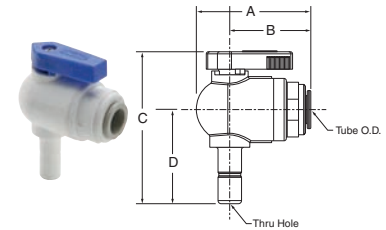
**VFC - Valve Female Connector**

PART NUMBER	NOM. TUBE O.D.	NPTF THREAD SIZE	A	B	C	D	ØE THRU HOLE MIN.
PP4VFC2-MG	1/4	1/8	2.04	1.21	1.4	0.5	.19
PP4VFC4-MG	1/4	1/4	2.27	1.21	1.4	0.5	.19
PP4VFC6-MG	1/4	3/8	2.40	1.21	1.4	0.5	.19
PP6VFC2-MG	3/8	1/8	2.15	1.32	1.4	0.5	.25
PP6VFC4-MG	3/8	1/4	2.38	1.32	1.4	0.5	.25
PP6VFC6-MG	3/8	3/8	2.51	1.32	1.4	0.5	.25



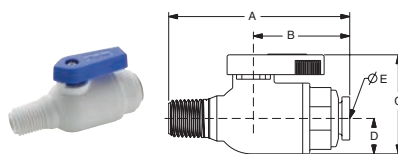
**VEU - Valve Elbow Union**

PART NUMBER	1 TUBE SIZE	2 TUBE SIZE	A	B	C	D	ØE THRU HOLE MIN.
PP4VEU4-MG	1/4	1/4	1.75	1.22	2.33	1.42	.19
PP4VEU6-MG	1/4	3/8	1.75	1.22	2.33	1.42	.11
PP6VEU4-MG	3/8	1/4	1.83	1.30	2.32	1.40	.19
PP6VEU6-MG	3/8	3/8	1.85	1.32	2.34	1.44	.25



**VTEU - Valve Tube Elbow Union**

PART NUMBER	NOM. TUBE O.D.	STEM	A	B	C	D	ØE THRU HOLE MIN.
PP4VTEU6-MG	1/4	3/8	1.75	1.22	2.43	1.50	.17
PP6VTEU6-MG	3/8	3/8	1.83	1.30	2.43	1.50	.25



**VMC - Valve Male Connector**

PART NUMBER	NOM. TUBE O.D.	NPTF THREAD SIZE	A	B	C	D	ØE THRU HOLE MIN.
PP4VMC2-MG (+)	1/4	1/8	2.22	1.21	1.4	0.5	.19
PP4VMC4-MG	1/4	1/4	2.40	1.21	1.4	0.5	.19
PP4VMC6-MG	1/4	3/8	2.40	1.21	1.4	0.5	.19
PP4VMC8-MG (+)	1/4	1/2	2.59	1.21	1.4	0.5	.19
PP6VMC2-MG (+)	3/8	1/8	2.33	1.32	1.4	0.5	.25
PP6VMC4-MG	3/8	1/4	2.51	1.32	1.4	0.5	.25
PP6VMC6-MG	3/8	3/8	2.51	1.32	1.4	0.5	.25
PP6VMC8-MG (+)	3/8	1/2	2.70	1.32	1.4	0.5	.25

NOTE: PPL refers to Polypropylene. FCB refers to Fluorocarbon.

### Cold Water Supply Valve

(Patent No. 6,213,149)

Parker's water supply valve is intended for use with Point Of Use water appliances requiring a cold water supply such as POU faucets, instant hot water faucets, reverse osmosis systems and water filtration systems. The Parker TrueSeal™ Cold Water Supply Valve is designed for temporary cold water shut-off to a POU appliance to change filters, tanks or when servicing the appliance — all while maintaining full water flow to the sink or water basin above. When the POU system is removed from service, the Parker TrueSeal™ Cold Water Supply Valve is to be removed also.

TrueSeal™ Cold Water Supply Valves are for cold water service at temperatures above freezing to 125°F ambient. Not for use in hot water service applications.

**Features/Benefits:**

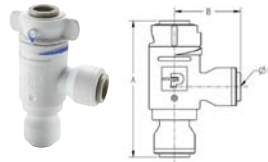
- Fast, easy installation.
- No pierced lines or saddle hookups.
- Optimum flow to the faucet - full flow porting.
- No need to pierce the supply line.
- Connects 3/8" OD tubing directly to valve.
- 1/2" NPT connections available.
- Excellent resistance to chlorine and other chemicals.
- Integrated handle for easy on/off operation.
- Visual indicator shows open/closed position.

**Specifications:**

- NSF Standard 51 listed.
- Pressure rating: 150 PSI with a 600 PSI burst pressure.
- Design factor: 4:1
- O-ring seal material: EPDM.
- Meets the pressure integrity test of NSF-53 and NSF-58.

**Applications:**

- Reverse osmosis systems.
- Under sink filtration systems.
- POU faucets.
- Water supply valves are intended for cold water service at temperatures from above freezing to 125°F ambient.
- NOT for use in hot water service applications.



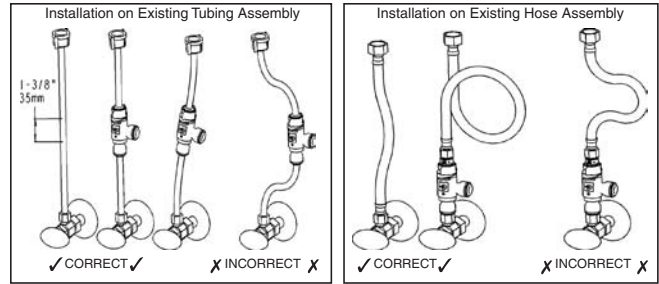
### VTU - Water Supply Valve

WHITE POLYPROPYLENE	NOM. TUBE O.D.	A	B	D THRU HOLE MIN.
PP6VTU6-MG	3/8	2.92	1.3	.30

(+) Non Standard.

NOTE: PPL refers to Polypropylene. FCB refers to Fluorocarbon.

### TrueSeal™ Cold Water Supply Valve Assembly Instructions



**For Installation with 3/8" Plastic Tubing:**

1. Shut off water at the chrome or brass valve.
2. Disconnect existing tube assembly.
3. Cut out a 1-3/8" (35 mm) section near the center of the existing tubing. Cut the tube squarely and remove any burrs.
4. Place an insertion depth mark 3/4" (19 mm) from the end of each cut on the tubing to be reused. Refer to "TrueSeal Assembly Instructions," Steps 2 and 3, for tubing assembly (reverse side).
5. Reconnect tube assembly with new valve.
6. Make sure new valve is closed before opening water valve. Open valve in Step 1 and check for leaks.
7. Insert 3/8" tubing from water appliance into side port.
8. Open new valve by turning pointer to large end of flow indicator.

**For Installation with Flexible Hose:**

1. Shut off water at the chrome or brass valve.
2. Disconnect one end of existing hose assembly.
3. Place the appropriate adapters on the chrome or brass valve and the hose end.
4. Tighten adapter on chrome or brass valve finger tight plus 1/2 turn. Do not over tighten.
5. Push tube portion of adapters into top and bottom of valve until bottomed out. Hose should not be kinked. A longer hose assembly might be required if a gently loop cannot be made.
6. Make sure new valve is closed before opening water valve. Pointer will be at the small end of triangle flow indicator. Open valve in Step 1 and check for leaks.
7. Insert 3/8" tubing from water appliance into side port.
8. Open new valve by turning pointer to large end of flow indicator.

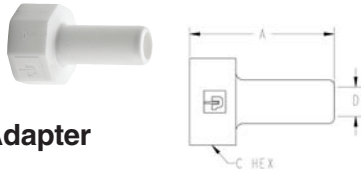


### Water Supply Valve Kits

PART NO.	CONNECTS TO:	KIT CONTAINS
WSV4-KIT	1/4" COMPRESSION VALVE	AW6TAF7-MG, AW6TFA7-MG, PP6VTU6-MG
WSV6-KIT	3/8" COMPRESSION VALVE	AW6TAF9-MG, AW6TFA9-MG, PP6VTU6-MG
WSV8-KIT	1/2" NPSM FAUCET STEM	AW6TAF8-MG, AW6TFA8-MG, PP6VTU6-MG



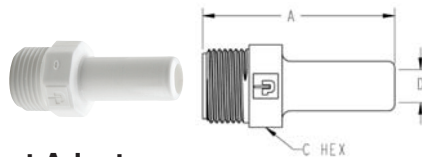




**TFA - Tube Faucet Adapter**

(Female Thread)

WHITE ACETAL	TUBE STEM O.D.	THREAD SIZE	A	C HEX	D MIN.
AW6TFA7-MG	3/8	7/16-24	1.25	.69	.17
AW6TFA8-MG	3/8	1/2-14 NPSM	1.45	1.06	.22
AW6TFA9-MG	3/8	9/16-24	1.25	.75	.22



**TAF - Tube Faucet Adapter**

(Male Thread)

WHITE ACETAL	TUBE STEM O.D.	THREAD SIZE	A	C HEX	D MIN.
AW6TAF7-MG	3/8	7/16-24	1.41	.50	.22
AW6TAF8-MG	3/8	1/2-14 NPSM	1.65	.88	.22
AW6TAF9-MG	3/8	9/16-24	1.45	.63	.22

**SC - Safety Clip**

(Patent No. 6,065,779)



PART NUMBER	PART NUMBER	FOR NOMINAL TUBE O.D.
SC-4	SC-4-B	1/4
SC-5	SC-5-B	5/16
SC-6	SC-6-B	3/8
SC-8	SC-8-B	1/2

NOTE: PPL refers to Polypropylene. FCB refers to Fluorocarbon.



**TS - Tube Supports**



NYLON PART NUMBER	POLYPROPYLENE PART NUMBER
N4TS3	P4TS3
N5TS3	P5TS3
N6TS4	P6TS4
N8TS6	P8TS6

To be used with soft durometer tubing.

**AQRT - Quick Release Tool**



Makes disconnection of tube adapters and tubing a breeze.



# Fast & Tite Thermoplastic Fittings

**D**

MATERIALS OF CONSTRUCTION	
BODIES:	WHITE POLYPROPYLENE, BLACK POLYPROPYLENE, WHITE NYLON
NUT & SPACERS:	WHITE POLYPROPYLENE, BLACK POLYPROPYLENE, WHITE NYLON
GRAB RING:	302 STAINLESS STEEL
O-RING:	NITRILE

AIR-OIL-WATER PRESSURE IN PSI			
TUBE O. D., IN.	UP TO 75°F	76° TO 125°F	126° TO 175°F
1/4	300	300	300
5/16	300	300	300
3/8	250	250	150
1/2	200	200	150
5/8	150	100	50

TEMPERATURE RANGE	
BLACK / WHITE POLYPROPYLENE:	0°F (-18°C) TO +212°F (+100°C)
WHITE NYLON:	-40°F (-40°C) TO +200°F (+93°C)

APPLICABLE TUBE	
TUBE MATERIAL:	THERMOPLASTIC TUBING, GLASS, SOFT METAL
TUBE O.D.:	1/4, 5/16, 3/8, 1/2, 5/8

SPECIFICATIONS	
OPERATING FLUID:	WATER, AIR, OTHER FLUIDS COMPATIBLE WITH MATERIALS OF CONSTRUCTION
NOTE:	FOR OTHER TYPES OF FLUIDS OR GASSES, PLEASE CONSULT FACTORY

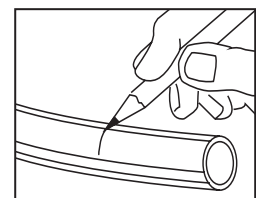
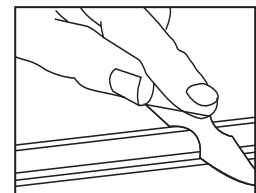
INSERTION LENGTH		
TUBE O.D. (IN.)	INSERTION LENGTH WITH TUBE SUPPORT (IN.)	INSERTION LENGTH WITHOUT TUBE SUPPORT (IN.)
1/4	5/8	9/16
5/16	5/8	9/16
3/8	13/16	3/4
1/2	7/8	13/16
5/8	1	15/16



A compression style fitting that installs in seconds without tools and provides a tight, sure, leak proof seal without clamps or adjustments. A unique grab ring for tube retention, coupled with a Nitrile O-ring creates a positive seal and assures good tube retention with only hand tight assembly. Fast & Tite™ fittings meet FDA and NSF-51 requirements for food contact.

### Assembly Instructions

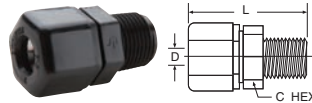
1. Cut the tube squarely and remove any burrs.
2. Mark from end of tube the length of insertion. If using a tube support, insert fully into tube and then mark from end of tube support length of insertion. (See insertion length table left)
3. Loosen nut on fitting until three threads are visible. Fittings for glass tubes must be disassembled and the grab ring removed. If the fitting has been disassembled the components are to be placed in the following order: fitting body, o-ring, spacer, grab ring and nut. Assemble the nut until three threads are showing on the body before inserting tube.
4. Moisten end of the tube with water. Push the tube Straight into fitting until it bottoms on the fitting's shoulder. Tighten nut by hand. Additional tightening should not be necessary, but 1/4 additional turn may be added if desired. Do not overtighten nut as the threads will strip and the fitting will not function properly. A proper assembly will not show the insertion mark extending beyond the nut. If the insertion mark is visible, then steps 1 thru 4 must be repeated.



Note: Provide adequate fail-safe mechanisms such as leakage detection sensors, automatic shut-off controls or other industry and code appropriate fail-safe devices in the design of your water-handling appliance to protect against personal injury and property damage. Plastic fittings containing an o-ring have a finite life depending on the environment, media and severity of the application. Frequent inspections and replacement of the fitting when anomalies are found is recommended.

### MC - Male Connector

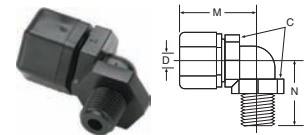
Tube to male pipe



WHITE PPL PART NUMBER	BLACK PPL PART NUMBER	WHITE NYLON PART NUMBER	NOM TUBE O.D.	NPTF THREAD SIZE	C HEX	L OVERALL LENGTH	D THRU HOLE MIN.
W4MC4	P4MC4	N4MC4	1/4	1/4	11/16	1.51	.170
W4MC6 (+)	P4MC6 (+)	N4MC6 (+)	1/4	3/8	11/16	.148	.170
W5MC2 (+)	P5MC2	N5MC2	5/16	1/8	11/16	1.38	.170
W5MC4 (+)	P5MC4	N5MC4	5/16	1/4	11/16	1.50	.250
W6MC2 (+)	P6MC2	N6MC2	3/8	1/8	13/16	1.50	.170
W6MC4	P6MC4	N6MC4	3/8	1/4	13/16	1.67	.250
W6MC6	P6MC6	N6MC6	3/8	3/8	13/16	1.67	.250
W6MC8 (+)	P6MC8	N6MC8	3/8	1/2	1	1.78	.250
W6MC12	P6MC12	N6MC12	3/8	3/4	1	1.84	.250
W8MC2 (+)	P8MC2	N8MC2	1/2	1/8	1	1.61	.170
W8MC4 (+)	P8MC4	N8MC4	1/2	1/4	1	1.74	.250
W8MC6	P8MC6	N8MC6	1/2	3/8	1	1.74	.375
W8MC8	P8MC8	N8MC8	1/2	1/2	1	1.87	.375
W8MC12 (+)	P8MC12	N8MC12	1/2	3/4	1	1.89	.375
W10MC2 (+)	P10MC2	N10MC2	5/8	1/8	1-18	1.75	.170
W10MC4 (+)	P10MC4	N10MC4	5/8	1/4	1-18	1.90	.250
W10MC6 (+)	P10MC6	N10MC6	5/8	3/8	1-18	1.90	.375
W10MC8 (+)	P10MC8	N10MC8	5/8	1/2	1-18	2.01	.500
W10MC12 (+)	P10MC12	N10MC12	5/8	3/4	1-18	2.04	.500

### ME - Male Elbow

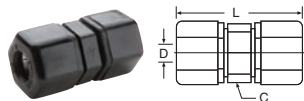
Tube to male pipe



WHITE PPL PART NUMBER	BLACK PPL PART NUMBER	WHITE NYLON PART NUMBER	NOM TUBE O.D.	NPTF THD SIZE	C HEX	M	N	D THRU HOLE MIN.
W4ME2	P4ME2	N4ME2	1/4	1/8	3/4	1.06	0.81	.170
W4ME4	P4ME4	N4ME4	1/4	1/4	3/4	1.06	1.02	.170
W4ME6	P4ME6	N4ME6	1/4	3/8	3/4	1.06	1.02	.170
W5ME2 (+)	P5ME2	N5ME2	5/16	1/8	3/4	1.06	0.81	.193
W5ME4 (+)	P5ME4	N5ME4	5/16	1/4	3/4	1.06	1.02	.193
W5ME6 (+)	P5ME6	N5ME6	5/16	3/8	3/4	1.06	1.02	.193
W6ME4	P6ME4	N6ME4	3/8	1/4	7/8	1.28	1.12	.250
W6ME6	P6ME6	N6ME6	3/8	3/8	7/8	1.28	1.12	.250
W6ME8	P6ME8	N6ME8	3/8	1/2	1	1.28	1.34	.250
W6ME12 (+)	P6ME12	N6ME12	3/8	3/4	1-3/16	1.59	1.40	.250
W8ME4 (+)	P8ME4	N8ME4 (+)	1/2	1/4	1-1/16	1.48	1.22	.250
W8ME6	P8ME6	N8ME6	1/2	3/8	1-1/16	1.56	1.21	.375
W8ME8	P8ME8	N8ME8	1/2	1/2	1-1/16	1.56	1.34	.375
W8ME12 (+)	P8ME12 (+)	N8ME12 (+)	1/2	3/4	1-1/8	1.50	1.40	.375
W10ME8 (+)	P10ME8	N10ME8	5/8	1/2	1-3/16	1.72	1.40	.500

### UC - Union Connector

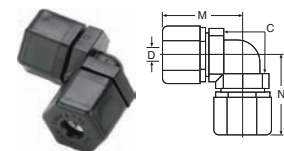
Tube to tube



WHITE PPL PART NUMBER	BLACK PPL PART NUMBER	WHITE NYLON PART NUMBER	NOM. TUBE O.D.	C HEX	L OVERALL LENGTH	D THRU HOLE MIN.
W4UC4	P4UC4	N4UC4	1/4	11/16	1.62	.170
W5UC4 (+)	P5UC4	N5UC4	5/16-1/4	11/16	1.62	.170
W5UC5 (+)	P5UC5	N5UC5	5/16	11/16	1.62	.190
W6UC4	P6UC4	N6UC4	3/8-1/4	13/16	1.80	.170
W6UC5 (+)	P6UC5	N6UC5	3/8-5/16	13/16	1.80	.190
W6UC6	P6UC6	N6UC6	3/8	13/16	1.92	.250
W8UC6	P8UC6	N8UC6	1/2-3/8	1	1.95	.250
W8UC8	P8UC8	N8UC8	1/2	1	2.03	.375
W10UC6 (+)	P10UC6	N10UC6	5/8-3/8	1-18	2.19	.250
W10UC8 (+)	P10UC8	N10UC8	5/8-1/2	1-1/8	2.24	.375
W10UC10 (+)	P10UC10	N10UC10	5/8	1-1/8	2.40	.500

### EU - Elbow Union

Tube to tube



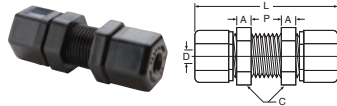
WHITE PPL PART NUMBER	BLACK PPL PART NUMBER	WHITE NYLON PART NUMBER	NOM. TUBE O.D.	C HEX	M	N	D THRU HOLE MIN.
W4EU4	P4EU4	N4EU4	1/4	3/4	1.06	1.06	.170
W5EU4 (+)	P5EU4	N5EU4	5/16-1/4	3/4	1.06	1.06	.170
W5EU5 (+)	P5EU5	N5EU5	5/16	3/4	1.06	1.06	.193
W6EU4	P6EU4	N6EU4	3/8-1/4	7/8	1.06	1.28	.170
W6EU5 (+)	P6EU5	N6EU5	3/8-5/16	7/8	1.06	1.28	.170
W6EU6	P6EU6	N6EU6	3/8	7/8	1.28	1.28	.250
W8EU6	P8EU6	N8EU6	1/2-3/8	1-1/16	1.37	1.56	.250
W8EU8	P8EU8	N8EU8	1/2	1-1/16	1.56	1.56	.375
W10EU10 (+)	P10EU10	N10EU10	5/8	1-3/16	1.72	1.72	.500

NOTE: PPL refers to Polypropylene. FCB refers to Fluorocarbon.



### BU - Bulkhead Union

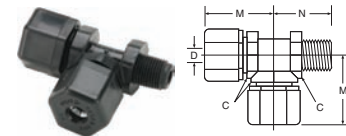
Tube to tube



WHITE PPL PART NUMBER	BLACK PPL PART NO.	WHITE NYLON PART NO.	NOM TUBE O.D.	A REF.	C HEX	L OVERALL LENGTH	P MAX	D THRU HOLE MIN.	BLKHD HOLE DRILL SIZE
W4BU4	P4BU4	N4BU4	1/4	1/4	13/16	2-11/64	3/8	.170	21/32
W5BU5(+)	P5BU5	N5BU5	5/16	1/4	13/16	2-11/64	3/8	.187	21/32
W6BU6	P6BU6	N6BU6	3/8	9/32	15/16	2-39/64	1/2	.250	25/32
W8BU8	P8BU8	N8BU8	1/2	5/16	1-5/32	2-3/4	1/2	.375	31/32

### MR - Male Run Tee

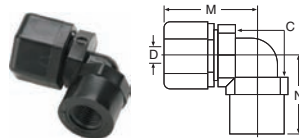
Tube to male pipe



WHITE PPL PART NUMBER	BLACK PPL PART NUMBER	WHITE NYLON PART NUMBER	NOM TUBE O.D.	NPTF THD SIZE	C HEX	M	N	D THRU HOLE MIN.
W4MR2	P4MR2	N4MR2	1/4	1/8	11/16	1.09	0.89	.170
W6MR4	P6MR4	N6MR4	3/8	1/4	13/16	1.30	1.17	.250
W8MR6	P8MR6	N8MR6	1/2	3/8	1	1.46	1.28	.375
W10MR8(+)	P10MR8	N10MR8	5/8	1/2	1-1/8	1.68	1.50	.500

### FE - Female Elbow

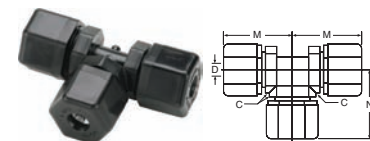
Tube to female pipe



WHITE PPL PART NUMBER	BLACK PPL PART NUMBER	WHITE NYLON PART NUMBER	NOM TUBE O.D.	NPTF THD SIZE	C HEX	M	N	D THRU HOLE MIN.
W4FE2	P4FE2	N4FE2	1/4	1/8	11/16	1.10	0.84	.170
W4FE4	P4FE4	N4FE4	1/4	1/4	11/16	1.10	0.94	.170
W5FE2(+)	P5FE2	N5FE2	5/16	1/8	11/16	1.10	0.84	.193
W6FE4	P6FE4	N6FE4	3/8	1/4	13/16	1.30	1.06	.250
W6FE6	P6FE6	N6FE6	3/8	3/8	13/16	1.30	1.03	.250
W8FE6(+)	P8FE6	N8FE6	1/2	3/8	1	1.50	1.16	.375
W8FE8	P8FE8	N8FE8	1/2	1/2	1	1.50	1.27	.375
W10FE8(+)	P10FE8	N10FE8	5/8	1/2	1-1/8	1.70	1.34	.500

### TU - Tee Union

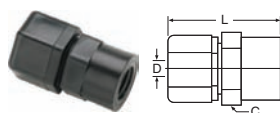
Tube to tube



WHITE PPL PART NUMBER	BLACK PPL PART NUMBER	WHITE NYLON PART NUMBER	NOM. TUBE O.D.	C HEX	M	N	D THRU HOLE MIN.
W4TU4	P4TU4	N4TU4	1/4	11/16	1.09	1.09	.170
W5TU5(+)	P5TU5	N5TU5	5/16	11/16	1.09	1.09	.187
W6TU6	P6TU6	N6TU6	3/8	13/16	1.30	1.30	.250
W8TU6(+)	P8TU6	N8TU6	1/2-3/8	1	1.46	1.39	.250
W8TU8	P8TU8	N8TU8	1/2	1	1.46	1.46	.375
W10TU6(+)	P10TU6	N10TU6	5/8-3/8	1-1/8	1.68	1.46	.250
W10TU10(+)	P10TU10	N10TU10	5/8	1-3/16	1.68	1.68	.500

### FC - Female Connector

Tube to female pipe



WHITE PPL PART NUMBER	BLACK PPL PART NUMBER	WHITE NYLON PART NUMBER	NOM TUBE O.D.	NPTF THREAD SIZE	C HEX	M	N	D THRU HOLE MIN.
W4FE2	P4FE2	N4FE2	1/4	1/8	11/16	1.10	0.84	.170
W4FE4	P4FE4	N4FE4	1/4	1/4	11/16	1.10	0.94	.170
W5FE2(+)	P5FE2	N5FE2	5/16	1/8	11/16	1.10	0.84	.193
W6FE4	P6FE4	N6FE4	3/8	1/4	13/16	1.30	1.06	.250
W6FE6	P6FE6	N6FE6	3/8	3/8	13/16	1.30	1.03	.250
W8FE6(+)	P8FE6	N8FE6	1/2	3/8	1	1.50	1.16	.375
W8FE8	P8FE8	N8FE8	1/2	1/2	1	1.50	1.27	.375
W10FE8(+)	P10FE8	N10FE8	5/8	1/2	1-1/8	1.70	1.34	.500

### MT - Male Branch Tee

Tube to male pipe



WHITE PPL PART NUMBER	BLACK PPL PART NUMBER	WHITE NYLON PART NUMBER	NOM. TUBE O.D.	NPTF THD SIZE	C HEX	M	N	D THRU HOLE MIN.
W4MT2	P4MT2	N4MT2	1/4	1/8	11/16	1.09	0.89	.170
W4MT4	P4MT4	N4MT4	1/4	1/4	11/16	1.09	1.06	.170
W5MT2(+)	P5MT2	N5MT2	5/16	1/8	11/16	1.09	0.89	.170
W5MT4(+)	P5MT4	N5MT4	5/16	1/4	11/16	1.09	1.06	.187
W6MT4	P6MT4	N6MT4	3/8	1/4	13/16	1.30	1.12	.250
W6MT6	P6MT6	N6MT6	3/8	3/8	13/16	1.30	1.10	.250
W8MT6	P8MT6	N8MT6	1/2	3/8	1	1.46	1.22	.375
W8MT8	P8MT8	N8MT8	1/2	1/2	1	1.46	1.43	.375
W10MT8(+)	P10MT8	N10MT8	5/8	1/2	1-1/8	1.68	1.41	.500

NOTE: PPL refers to Polypropylene. FCB refers to Fluorocarbon.



**GR - Grab Ring**



(Stainless or Plastic)

STAINLESS GRAB RING PART NUMBER	PLASTIC GRAB RING PART NUMBER	FOR NOM. TUBE O. D.
4GR	4GRP	1/4
5GR	5GRP	5/16
6GR	6GRP	3/8
8GR	8GRP	1/2
10GR	10GRP	5/8

**D**

**NS - Nut and Spacer Sets**



WHITE POLYPROPYLENE PART NUMBER	BLACK POLYPROPYLENE PART NUMBER	WHITE NYLON PARTNUMBER	FOR NOM. TUBE O. D.
W4NS	P4NS	N4NS	1/4
W5NS	P5NS	N5NS	5/16
W6NS	P6NS	N6NS	3/8
W8NS	P8NS	N8NS	1/2
W10NS	P10NS	N10NS	5/8

**TS - Tube Support**



POLYPROPYLENE PART NUMBER	NYLON PART NUMBER	FOR TUBE PART NUMBER
P4TS3	N4TS3	PV43
P5TS3	N5TS3	PV53
P6TS4	N6TS3	PV64
P8TS6	N8TS6	PV86
P10TS8	N10TS8	PV108

**OR - O-Ring**



O-RING PART NUMBER	FOR NOM. TUBE O. D.
4OR	1/4
5OR	5/16
6OR	3/8
8OR	1/2
10OR	5/8

NOTE: PPL refers to Polypropylene. FCB refers to Fluorocarbon.





# Par-Barb® Thermoplastic Fittings

MATERIALS OF CONSTRUCTION	
BODIES:	BLACK HIGH DENSITY POLYETHYLENE, WHITE NYLON

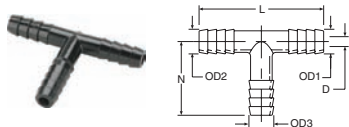
NOMENCLATURE	
EXAMPLE: P4TUB2	ATTRIBUTE:
P	POLYETHYLENE
4	I. D. OF TUBING ON STEM IN SIXTEENTHS OF AN IN.
TU	STYLE TEE UNION (TU)
B	BARB
2	I. D. OF TUBING ON STEM IN SIXTEENTHS OF AN IN.

SPECIFICATIONS	
PRESSURE RANGE	UP TO 125 PSI.
TEMPERATURE RANGE	BLACK POLYETHYLENE: -65°F (-54°C) TO +190°F (+88°C.) WHITE NYLON: -40°F (-40°C) TO +200°F (+93°C.)
TUBE MATERIAL:	VINYL, POLYURETHANE, RUBBER HOSE
TUBE I.D.:	1/8, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4
OPERATING FLUID:	AIR, WATER, OTHER FLUIDS COMPATIBLE WITH MATERIALS OF CONSTRUCTION
NOTE:	FOR OTHER TYPES OF FLUIDS OR GASSES, PLEASE CONSULT FACTORY



Par-Barb® fittings are injection molded from high strength, chemically inert, thermoplastic materials. These fittings meet FDA and NSF-51 specifications for food contact. The four barb design generates the maximum gripping and sealing power when combined with a hose clamp.

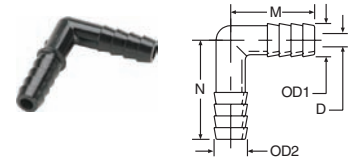
D



**TUB - Tee Union**

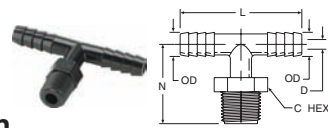
BLACK HIGH DENSITY LINEAR POLYETHYLENE PART NUMBER	WHITE NYLON PART NUMBER	TUBE OR HOSE I.D. 1&2	TUBE OR HOSE I.D. 3	O.D. 1&2	O.D. 3	L	N	D FLOW DIA.
P2TUB2	N2TUB2	1/8	1/8	.141	.141	1.203	0.594	.078
P3TUB3	N3TUB3	3/16	3/16	.245	.245	1.941	1.256	.106
P4TUB3 (+)	N4TUB3	1/4	3/16	.308	.245	2.004	1.256	.106
P4TUB4	N4TUB4	1/4	1/4	.308	.308	2.004	1.256	.153
P5TUB5	N5TUB5	5/16	5/16	.361	.361	2.058	1.256	.215
P6TUB3 (+)	N6TUB3 (+)	3/8	3/16	.425	.245	1.941	1.256	.106
P6TUB4	N6TUB4	3/8	1/4	.425	.308	2.121	1.256	.153
P6TUB6	N6TUB6	3/8	3/8	.425	.425	2.134	1.256	.247
P6TUB8	N6TUB8	3/8	1/2	.425	.550	2.121	1.256	.247
P8TUB4 (+)	N8TUB4 (+)	1/2	1/4	.550	.308	2.246	1.256	.153
P8TUB6	N8TUB6	1/2	3/8	.550	.425	2.248	1.256	.247
P8TUB8	N8TUB8	1/2	1/2	.550	.550	2.248	1.256	.372
P10TUB8	N10TUB8	5/8	1/2	.644	.550	2.340	1.256	.372
P10TUB10	N10TUB10	5/8	5/8	.644	.644	2.340	1.256	.465

\*P2UCB2, P2TUB2, P12HPN6 are not FDA compliant.



**EUB - Elbow Union**

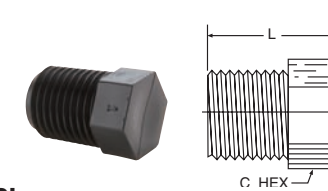
BLACK HIGH DENSITY LINEAR POLYETHYLENE PART NUMBER	WHITE NYLON PART NUMBER	TUBE OR HOSE I.D.		O.D. 1	O.D. 2	M	N	D FLOW DIA.
		1	2					
P4EUB4	N4EUB4	1/4	1/4	.308	.308	1.002	1.256	.153
P6EUB6	N6EUB6	3/8	3/8	.425	.425	1.060	1.256	.247
P8EUB4	N8EUB4	1/2	1/4	.550	.308	1.002	1.256	.153
P8EUB6	N8EUB6	1/2	3/8	.550	.425	1.060	1.256	.247
P8EUB8	N8EUB8	1/2	1/2	.550	.550	1.123	1.256	.372
P10EUB10	N10EUB10	5/8	5/8	.644	.644	1.170	1.256	.465
P12EUB12	N12EUB12	3/4	3/4	.788	.788	1.242	1.256	.606



**MTB - Tee Male Branch**

BLACK HIGH DENSITY LINEAR PEL PART NUMBER	WHITE NYLON PART NUMBER	TUBE OR HOSE I.D.	NPTF PIPE THD SIZE	O.D.	C HEX	L	N	D FLOW DIA.
P3MTB2	N3MTB2	3/16	1/8	.245	7/16	1.941	1.187	.106
P3MTB4	N3MTB4	3/16	1/4	.245	9/16	1.941	1.406	.106
P4MTB2	N4MTB2	1/4	1/8	.308	7/16	2.004	1.187	.153
P4MTB4	N4MTB4	1/4	1/4	.308	9/16	2.004	1.406	.153
P4MTB6	N4MTB6	1/4	3/8	.308	11/16	2.004	1.436	.153
P6MTB4	N6MTB4	3/8	1/4	.425	9/16	2.121	1.406	.247
P6MTB6	N6MTB6	3/8	3/8	.425	11/16	2.121	1.436	.247
P6MTB8	N6MTB8	3/8	1/2	.425	7/8	2.121	1.626	.247
P8MTB4	N8MTB4	1/2	1/4	.550	9/16	2.246	1.406	.281
P8MTB6	N8MTB6	1/2	3/8	.550	11/16	2.246	1.436	.372
P8MTB8	N8MTB8	1/2	1/2	.550	7/8	2.246	1.626	.372
P12MTB12	N12MTB12 (+)	3/4	3/4	.788	1-1/8	2.484	1.636	.606

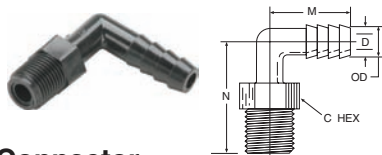
\*PEL refers to Polyethylene



**HPL - Hex Head Pipe Plug**

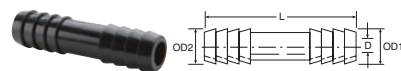
BLACK HIGH DENSITY LINEAR POLYETHYLENE PART NUMBER	WHITE NYLON PART NUMBER	NPTF PIPE THREAD SIZE	C HEX	L OVERALL LENGTH
P2HPL	N2HPL	1/8	7/16	0.660
P4HPL	N4HPL	1/4	9/16	0.880
P6HPL	N6HPL	3/8	11/16	0.905
P8HPL	N8HPL	1/2	7/8	1.092
P12HPL	N12HPL	3/4	1-1/8	1.115

NOTE: PPL refers to Polypropylene. FCB refers to Fluorocarbon.



**MEB - Male Elbow Connector**

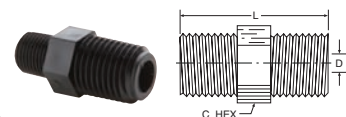
BLACK HIGH DENSITY LINEAR POLYETHYLENE PART NUMBER	WHITE NYLON PART NUMBER	TUBE OR HOSE I.D.	NPTF PIPE THD SIZE	O.D.	C HEX	M	N	D FLOW DIA.
P3MEB2	N3MEB2	3/16	1/8	.245	7/16	1.971	1.186	.106
P3MEB4	N3MEB4	3/16	1/4	.245	9/16	1.971	1.406	.106
P4MEB2	N4MEB2	1/4	1/8	.308	7/16	1.002	1.186	.153
P4MEB4	N4MEB4	1/4	1/4	.308	9/16	1.002	1.406	.153
P4MEB6	N4MEB6	1/4	3/8	.308	11/16	1.002	1.436	.153
P4MEB8	N4MEB8	1/4	1/2	.308	7/8	1.002	1.626	.153
P4MEB12	N4MEB12	1/4	3/4	.308	1-1/8	1.002	1.636	.153
P6MEB2	N6MEB2	3/8	1/8	.425	7/16	1.060	1.186	.247
P6MEB4	N6MEB4	3/8	1/4	.425	9/16	1.060	1.406	.247
P6MEB6	N6MEB6	3/8	3/8	.425	11/16	1.060	1.436	.247
P6MEB8	N6MEB8	3/8	1/2	.425	7/8	1.060	1.626	.247
P6MEB12	N6MEB12	3/8	3/4	.425	1-1/8	1.060	1.636	.247
P8MEB4	N8MEB4	1/2	1/4	.550	9/16	1.123	1.406	.372
P8MEB6	N8MEB6	1/2	3/8	.550	11/16	1.123	1.436	.372
P8MEB8	N8MEB8	1/2	1/2	.550	7/8	1.123	1.626	.372
P8MEB12	N8MEB12	1/2	3/4	.550	1-1/8	1.123	1.636	.372
P10MEB6	N10MEB6	5/8	3/8	.644	11/16	1.170	1.436	.465
P10MEB8	N10MEB8	5/8	1/2	.644	7/8	1.170	1.626	.465
P10MEB12	N10MEB12	5/8	3/4	.644	1-1/8	1.170	1.636	.465
P12MEB8	N12MEB8	3/4	1/2	.788	7/8	1.242	1.626	.606



**UCB - Union Connector**

BLACK HIGH DENSITY LINEAR POLYETHYLENE PART NUMBER	WHITE NYLON PART NUMBER	TUBE OR HOSE I.D. 1&2	TUBE OR HOSE I.D. 3	O.D. 1&2	O.D. 3	L	D FLOW DIA.
P2UCB2	N2UCB2	1/8	1/8	.152	.152	.625	.090
P3UCB3	N3UCB3	3/16	3/16	.245	.245	1.750	.106
P4UCB3	N4UCB3	1/4	3/16	.308	.245	1.750	.106
P4UCB4	N4UCB4	1/4	1/4	.308	.308	1.750	.153
P5UCB5	N5UCB5	5/16	5/16	.361	.361	1.750	.215
P6UCB4	N6UCB4	3/8	1/4	.425	.308	1.750	.153
P6UCB6	N6UCB6	3/8	3/8	.425	.425	1.733	.247
P8UCB4	N8UCB4	1/2	1/4	.550	.308	1.750	.153
P8UCB6	N8UCB6	1/2	3/8	.550	.425	1.750	.247
P8UCB8	N8UCB8	1/2	1/2	.550	.550	1.750	.372
P10UCB6	N10UCB6	5/8	3/8	.644	.425	1.750	.247
P10UCB8	N10UCB8	5/8	1/2	.644	.550	1.750	.372
P10UCB10	N10UCB10	5/8	5/8	.644	.644	1.750	.465

\*P2UCB2, P2TUB2, P12HPN6 are not FDA compliant.



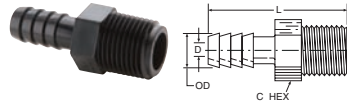
**HPN - Hex Pipe Nipple**

BLACK HIGH DENSITY LINEAR POLYETHYLENE PART NUMBER	WHITE NYLON PART NUMBER	SIDE 1	SIDE 2	C HEX	L	D1 DIA.	D2 DIA.
P2HPN2	N2HPN2	1/8	1/8	7/16	1.062	.187	.187
P4HPN2	N4HPN2	1/4	1/8	9/16	1.281	.286	.187
P4HPN4	N4HPN4	1/4	1/4	9/16	1.469	.285	.285
P6HPN2	N6HPN2	3/8	1/8	11/16	1.332	.406	.187
P6HPN4	N6HPN4	3/8	1/4	11/16	1.488	.406	.285
P6HPN6	N6HPN6	3/8	3/8	11/16	1.500	.406	.406
P8HPN2	N8HPN2	1/2	1/8	7/8	1.485	.618	.187
P8HPN4	N8HPN4	1/2	1/4	7/8	1.687	.618	.285
P8HPN6	N8HPN6	1/2	3/8	7/8	1.687	.618	.406
P8HPN8	N8HPN8	1/2	1/2	7/8	1.875	.618	.618
P12HPN6	N12HPN6	3/4	3/8	1-1/8	1.703	.750	.408
P12HPN8	N12HPN8	3/4	1/2	1-1/8	1.891	.750	.618
P10HPN12	N10HPN12	3/4	3/4	1-1/8	1.932	.750	.750

\*P2UCB2, P2TUB2, P12HPN6 are not FDA compliant.

NOTE: PPL refers to Polypropylene. FCB refers to Fluorocarbon.





**MCB - Male Connector Adapter**

BLACK HIGH DENSITY LINEAR POLYETHYLENE PART NUMBER	WHITE NYLON PART NUMBER	TUBE OR HOSE I.D.	NPTF PIPE THD SIZE	O.D.	C HEX	L	D FLOW DIA.
P3MCB2	N3MCB2	3/16	1/8	.245	7/16	1.530	.106
P3MCB4	N3MCB4	3/16	1/4	.245	9/16	1.750	.106
P3MCB8	N3MCB8	3/16	1/2	.245	7/8	1.970	.106
P4MCB2	N4MCB2	1/4	1/8	.308	7/16	1.530	.153
P4MCB4	N4MCB4	1/4	1/4	.308	9/16	1.750	.153
P4MCB6	N4MCB6	1/4	3/8	.308	11/16	1.780	.153
P4MCB8	N4MCB8	1/4	1/2	.308	7/8	1.970	.153
P4MCB12	N4MCB12	1/4	3/4	.308	1-1/8	1.980	.153
P5MCB2	N5MCB2	5/16	1/8	.361	7/16	1.530	.215
P5MCB4	N5MCB4	5/16	1/4	.361	9/16	1.750	.215
P5MCB6	N5MCB6	5/16	3/8	.361	11/16	1.780	.215
P6MCB2	N6MCB2	3/8	1/8	.425	7/16	1.530	.187
P6MCB4	N6MCB4	3/8	1/4	.425	9/16	1.750	.247
P6MCB6	N6MCB6	3/8	3/8	.425	11/16	1.780	.247
P6MCB8	N6MCB8	3/8	1/2	.425	7/8	1.970	.247
P6MCB12	N6MCB12	3/8	3/4	.425	1-1/8	1.980	.247
P8MCB4	N8MCB4	1/2	1/4	.550	9/16	1.750	.372
P8MCB6	N8MCB6	1/2	3/8	.550	11/16	1.780	.372
P8MCB8	N8MCB8	1/2	1/2	.550	7/8	1.970	.372
P8MCB12	N8MCB12	1/2	3/4	.550	1-1/8	1.980	.372
P10MCB6	N10MCB6	5/8	3/8	.644	11/16	1.780	.465
P10MCB8	N10MCB8	5/8	1/2	.644	7/8	1.970	.465
P10MCB12	N10MCB12	5/8	3/4	.644	1-1/8	1.980	.465
P12MCB8	N12MCB8	3/4	1/2	.788	7/8	1.970	.606
P12MCB12	N12MCB12	3/4	3/4	.788	1-1/8	1.980	.606

D

NOTE: PPL refers to Polypropylene. FCB refers to Fluorocarbon.

