

# Thermobarb® Plastic

Plastic Barbed Fittings & Hose Nipples



Recommended for  **BrewSavor**  
by NewAge Industries

**ESOP**  
Employee Owned  
for Your Benefit

Certified  
  
Corporation

 A Solar Powered,  
Zero Landfill Company

 **NEWAGE  
INDUSTRIES**

**Fluid Transfer Specialists®**

## Plastic Barbed Fittings & Hose Nipples



- Precision molded in nylon-6, high density polyethylene, PVDF, polypropylene, glass-fiber reinforced nylon, or glass-fiber reinforced polypropylene
- Lightweight, compact, easy to install and disconnect
- High impact strength
- Excellent chemical resistance
- REACH and RoHS compliant
- Free of phthalates



### Notes

#### **NATURAL NYLON** Series 500

- Formulated to resist physical stress and abrasion
- Material: nylon 6 compound, NSF-51 and NSF-61 listed; FDA-approved ingredients
- Free of animal derived ingredients and conflict minerals
- Maximum Operating Temperature\*\*: 149°F
- Excellent mechanical properties and strength
- Limited styles in 1-1/4" and 1-1/2" sizes are available; call for details

#### **BLACK POLYETHYLENE (PE)** Series 501

- Formulated for chemical compatibility and high impact resistance at lower temperatures
- Material: bimodal polyethylene
- Free of animal derived ingredients, conflict minerals and BPA
- Minimum Temperature\*\*: -103°F

#### **NATURAL PVDF** Series 507

- Formulated to resist creep and fatigue under mechanical stress and load
- Offers excellent resistance to abrasion and UV
- Excellent chemical resistance
- Material: semi-crystalline, low molecular weight, vinylidene fluoride polymer with FDA and USP Class VI approved ingredients
- Free of animal derived ingredients, conflict minerals and BPA
- California Prop 65 compliant
- Maximum Operating Temperature\*\*: 239°F

#### **NATURAL POLYPROPYLENE (NATURAL PP)** Series 502

- Formulated for excellent chemical and solvent resistance
- Material: high impact polypropylene copolymer, FDA-approved ingredients
- Free of animal derived ingredients, conflict minerals and BPA
- California Prop 65 compliant
- Maximum Operating Temperature\*\*: 220°F
- A robust barb and fitting design

#### **BLACK POLYPROPYLENE (BLACK PP)** Series 508

- Formulated for excellent chemical and solvent resistance
- Material: high impact polypropylene copolymer, FDA-approved ingredients
- Free of animal derived ingredients, conflict minerals and BPA
- California Prop 65 compliant
- Maximum Operating Temperature\*\*: 220°F
- A robust barb and fitting design

**See page 6 for other POLYPROPYLENE Thermobarb fittings in styles such as Y and 4-way connectors.**

\*\*Values listed are typical for the material used in manufacture, except where noted, and are meant only as a guide to aid in design. Field testing should be performed to find the actual values for your application. Clamps must be used in high pressure applications; testing recommended.

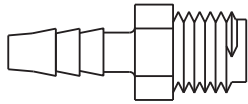
### Recommended Clamps

- Oetiker® ear type clamps
- Kwik Clamp™ nylon double bond hose clamps
- Worm gear clamps

## Plastic Barbed Fittings & Hose Nipples

■ Note that sizes are listed first due to the variety of materials offered

### Male Adapter



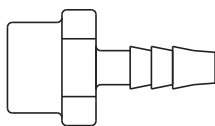
HOSE ID x NPT (IN.)	PART NO. NYLON	PART NO. PE	PART NO. NATURAL PP	PART NO. BLACK PP	PACKAGE QUANTITY
5/32 x 1/8			502 2983*	508 0110*	100
3/16 x 1/8	500 0030	501 0033	502 3004*	508 0131	100
3/16 x 1/4	500 0170	501 0173	502 3025	508 0152	100
1/4 x 1/8	500 0065	501 0068	502 3067*	508 0194*	100
1/4 x 1/4	500 0205	501 0208	502 3088*	508 0215	100
1/4 x 3/8			502 3109		100
1/4 x 1/2	500 0555*	501 0558			100
5/16 x 1/8		501 0103*	502 3172		100
5/16 x 1/4	500 0240*	501 0243	502 3193*		100
3/8 x 1/8	500 0135	501 0138	502 3235*		100
3/8 x 1/4	500 0275	501 0278		508 0383	100
3/8 x 3/8	500 0415	501 0418			100
3/8 x 1/2	500 0590	501 0593	502 3298*		100
3/8 x 3/4	500 0800	501 0768*	502 3326		100
1/2 x 1/4	500 0310	501 0313	502 3347*		100
1/2 x 3/8	500 0450	501 0453			100
1/2 x 1/2	500 0625	501 0628	502 3389*	508 0516	100
1/2 x 3/4	500 0835	501 0803			100
5/8 x 3/8	500 0485				100
5/8 x 1/2	500 0660				100
5/8 x 3/4	500 0870	501 0838			100
3/4 x 1/2	500 0695	501 0698	502 3501*		100
3/4 x 3/4	500 0905	501 0873	502 3522*	508 0649	50 or 100##
3/4 x 1	500 0975*		502 3543		100
1 x 3/4	500 0940				100
1 x 1	500 1010				100

### Connector



HOSE ID (IN.)	PART NO. NYLON	PART NO. PE	PART NO. NATURAL PP	PART NO. BLACK PP	PACKAGE QUANTITY
1/8	500 1185^	501 1048^		508 0922^	100
3/16	500 1220	501 1083	502 3809*		100
1/4	500 1255	501 1118	502 3823*		100
5/16	500 1290	501 1153	502 3837*		100
3/8	500 1325	501 1188	502 3851*		100
1/2	500 1360	501 1223			100
5/8	500 1395*				100
3/4	500 1430	501 1293	502 3893*		50 or 100‡

### Female Adapter



HOSE ID x FNPT (IN.)	PART NO. NYLON	PACKAGE QUANTITY
3/16 x 1/8	500 5861^	100
3/16 x 1/4	500 5868^	100
1/4 x 1/4	500 5903	100
3/8 x 1/8	500 5966*	100
3/8 x 1/4	500 5973	100
3/8 x 3/8	500 5980	100
3/8 x 1/2	500 5987	100
1/2 x 1/4	500 6022	100
1/2 x 3/8	500 6029	100
1/2 x 1/2	500 6036	100
5/8 x 1/2	500 6064	100
3/4 x 3/4	500 6106	100

^Available in single-barb style only — actual product differs from illustration.

\*Limited stock availability; lead times and minimums may apply — call for details.

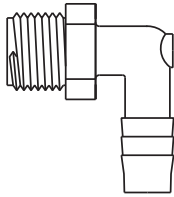
‡Nylon and PE sold in quantities of 100 pcs; other materials sold in quantities of 50 pcs.

##Natural PP sold in quantities of 50 pcs; other materials sold in quantities of 100 pcs.

## Plastic Barbed Fittings & Hose Nipples

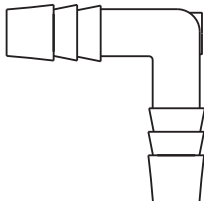
■ Note that sizes are listed first due to the variety of materials offered

### Male 90° Elbow



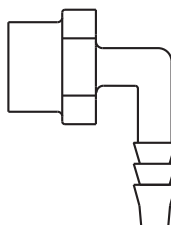
HOSE ID x NPT (IN.)	PART NO. NYLON	PART NO. PE	PART NO. PVDF*†	PART NO. NATURAL PP	PART NO. BLACK PP	PACKAGE QUANTITY EXCEPT PVDF‡
3/16 x 1/8	500 3215	501 3008			508 2483*	100
3/16 x 1/4	500 3355 <sup>^</sup> *			502 5370		100
1/4 x 1/8	500 3250	501 3043			508 2539*	100
1/4 x 1/4	500 3390	501 3183		502 5426*	508 2553*	100
1/4 x 3/8	500 3530*	501 3323*		502 5440*		10 or 100#
5/16 x 1/8	500 3285	501 3078				100
5/16 x 1/4	500 3425	501 3218		502 5517*		100
3/8 x 1/8	500 3320	501 3113		502 5566*		100
3/8 x 1/4	500 3460	501 3253	507 2641	502 5580*	508 2707	100
3/8 x 3/8	500 3565	501 3393				100
3/8 x 1/2	500 3705	501 3533				100
3/8 x 3/4				502 5622*		100
1/2 x 1/4	500 3495	501 3288			508 2798*	100
1/2 x 3/8	500 3600					100
1/2 x 1/2	500 3740	501 3568		502 5699	508 2826	100
1/2 x 3/4	500 3950	501 3743*				50 or 100‡†
5/8 x 3/8		501 3463		502 5748*	508 2875*	100
5/8 x 1/2	500 3775	501 3603		502 5762*		100
5/8 x 3/4	500 3985					100
3/4 x 1/2	500 3810	501 3638				100
3/4 x 3/4	500 4020	501 3813				100
1 x 1/2	500 3845					100
1 x 3/4	500 4055*					50
1 x 1	500 4090*				508 3043*	100

### Barbed 90° Elbow



HOSE ID x HOSE ID (IN.)	PART NO. NYLON	PART NO. PE	PART NO. PVDF*†	PART NO. NATURAL PP	PART NO. BLACK PP	PACKAGE QUANTITY EXCEPT PVDF‡
1/4 x 1/4	500 2795	501 2623		502 5041*		100
3/8 x 3/8	500 2830	501 2658		502 5076	508 2203	100
1/2 x 1/4	500 2865*					100
1/2 x 3/8	500 2900	501 2728		502 5125*		100
1/2 x 1/2	500 2935	501 2763				100
5/8 x 5/8	500 2970	501 2798	507 2235	502 5174		100
3/4 x 3/4	500 3005					100
1 x 1	500 3040*					50

### Female 90° Elbow



HOSE ID x FNPT (IN.)	PART NO. NYLON	PACKAGE QUANTITY
1/4 x 1/4	500 5574	100
3/8 x 1/8	500 5637*	100
3/8 x 1/4	500 5644	100
3/8 x 3/8	500 5651*	100
1/2 x 1/4	500 5686	100
1/2 x 3/8	500 5693	100
1/2 x 1/2	500 5700	100

<sup>^</sup>Available in single-barb style only — actual product differs from illustration.

\*Limited stock availability; lead times and minimums may apply — call for details.

†PVDF fittings are packaged and sold in bags of 5,000 fittings per bag.

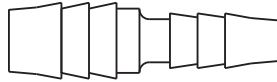
‡Nylon sold in quantities of 100 pcs; other materials sold in quantities of 50 pcs.

#PE sold in quantities of 10 pcs; other materials sold in quantities of 100 pcs.

## Plastic Barbed Fittings & Hose Nipples

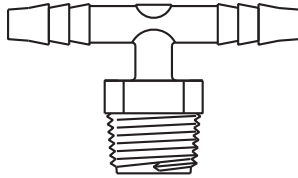
■ Note that sizes are listed first due to the variety of materials offered

### Reducer Connector



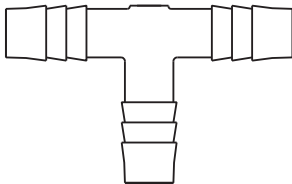
HOSE ID x HOSE ID (IN.)	PART NO. NYLON	PART NO. PE	PART NO. NATURAL PP	PART NO. BLACK PP	PACKAGE QUANTITY
1/4 x 1/8	500 1640		502 4019*	508 1146	100
1/4 x 3/16	500 1675	501 1538*			100
3/8 x 1/4	500 1710	501 1573	502 4047*		100
1/2 x 1/4	500 1745	501 1608		508 1188*	100
1/2 x 3/8	500 1780	501 1643		508 1237*	100
5/8 x 3/8	500 1815		502 4131		100
5/8 x 1/2	500 1850*	501 1713	502 4187		100

### Male Tee



HOSE ID x NPT (IN.)	PART NO. NYLON	PART NO. PE	PART NO. NATURAL PP	PART NO. BLACK PP	PACKAGE QUANTITY
3/16 x 1/8	500 4265		502 6028*	508 3155*	100
3/16 x 1/4			502 6042		100
1/4 x 1/8	500 4300				100
1/4 x 1/4	500 4370		502 6091*		100
1/4 x 3/8	500 4475*				100
3/8 x 1/4				508 3281*	100
3/8 x 3/8	500 4510*		502 6168*		100
1/2 x 1/2	500 4615		502 6259		100

### Barbed Tee



HOSE ID x HOSE ID x HOSE ID (IN.)	PART NO. NYLON	PART NO. PE	PART NO. PVDF*†	PART NO. NATURAL PP	PART NO. BLACK PP	PACKAGE QUANTITY EXCEPT PVDF†
1/8 x 1/8 x 1/8		501 4513^		502 6483^*		100
5/32 x 5/32 x 5/32				502 6546^*		100
3/16 x 3/16 x 3/16	500 5000^	501 4618^		502 6595^*	508 3722^	100
3/16 x 3/8 x 3/8		501 4653		502 6616*		100
1/4 x 1/4 x 1/4	500 5070	501 4688		502 6665	508 3792	100
1/4 x 3/8 x 3/8	500 5140	501 4758			508 3820*	100
1/4 x 1/2 x 1/2	500 5175	501 4793				100
5/16 x 5/16 x 5/16	500 5210	501 4828		502 6756*	508 3883*	100
3/8 x 3/8 x 3/8	500 5245	501 4898	507 3866	502 6805		100
3/8 x 1/2 x 1/2				502 6826		100
1/2 x 3/8 x 3/8	500 5315*	501 4968*		502 6875*		100
1/2 x 1/2 x 1/2	500 5350	501 5003	507 3957	502 6896*		50 or 100‡
5/8 x 5/8 x 5/8	500 5385	501 5038			508 4072	100
3/4 x 3/4 x 3/4	500 5420	501 5073	507 4055	502 6994*		50 or 100‡
1 x 1 x 1				502 7043		100

^Available in single-barb style only — actual product differs from illustration.

\*Limited stock availability; lead times and minimums may apply — call for details.

†PVDF fittings are packaged and sold in bags of 5,000 fittings per bag.

‡Nylon and PE sold in quantities of 100 pcs; other materials (except PVDF) sold in quantities of 50 pcs.

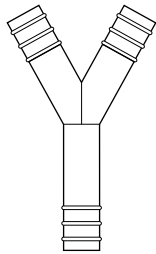
## Plastic Barbed Fittings & Hose Nipples

### FDA-APPROVED POLYPROPYLENE (FDA PP) Series 509

- Excellent temperature and chemical resistance
- Material: polypropylene homopolymer, FDA approved ingredients
- Free of BPA
- California Prop 65 and EMEA 410 compliant
- Low profile ribs for easy assembly
- Lightweight
- Gamma sterilizable
- Widely used in industry and laboratories
- Maximum Operating Temperature\*\*: 207°F

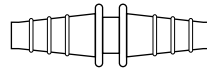
Note: Older style barbs, which differ from ribs, still exist in some inventory, depending on size.

\*\*Values listed at left are typical for the material used in manufacture, except where noted, and are meant only as a guide to aid in design. Field testing should be performed to find the actual values for your application. Clamps must be used in higher pressure applications; testing recommended.



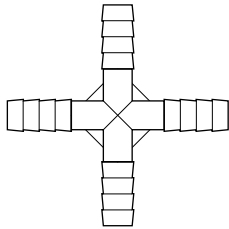
#### 'Y' Connector

PART NO.	HOSE ID (IN.)
509 0596	1/8
509 0631	3/16
509 0666	1/4
509 0701	3/8
509 0736	7/16
509 0771	1/2
509 0806	9/16



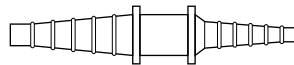
#### Connector

PART NO.	HOSE ID (IN.)
509 0106	1/8 – 7/32
509 0141	3/16 – 5/16
509 0176	1/4 – 3/8
509 0211	3/8 – 7/16
509 0246	7/16 – 9/16
509 0281	1/2 – 5/8



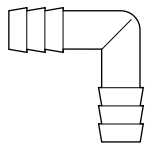
#### 4-Way Connector

PART NO.	HOSE ID (IN.)
509 0946	1/8
509 0981	3/16
509 1016	1/4
509 1086	7/16
509 1121	1/2



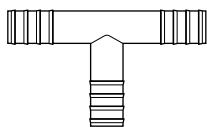
#### Reducer Connector

PART NO.	HOSE ID (IN.)
509 0421	1/8 – 5/16 and 1/4 – 7/16
509 0456	1/8 – 5/16 and 7/16 – 5/8



#### Barbed 90° Elbow

PART NO.	HOSE ID (IN.)
509 1681	1/8
509 1716	3/16
509 1751	1/4
509 1786	3/8
509 1891	9/16

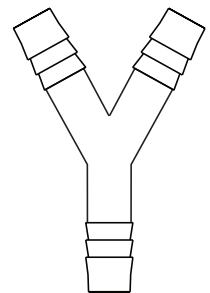


#### Barbed Tee

PART NO.	HOSE ID (IN.)
509 2031	1/8
509 2101	1/4
509 2171	7/16

### USP CLASS VI POLYPROPYLENE Y FITTINGS

- Precision molded of FDA-approved polypropylene random copolymer
- Meets USP Class VI standards; compliant with FDA 21 CFR 177.1520
- Smooth interior for unrestricted, uniform flow
- No mold parting lines or flashing
- Longer, more tapered lead barb slides easily into tubing and provides a secure attachment and reduced leakage
- Sterilizable by gamma radiation
- Three popular sizes
- REACH, RoHS and California Prop 65 compliant
- Free of phthalates, BPA, animal derived ingredients and conflict minerals
- Max. Operating Temp.\*\*: 178°F
- Ideal for single-use/disposable tubing assemblies

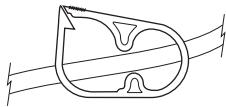


Part numbers on this page beginning with 509 are sold in increments of 10 pieces.

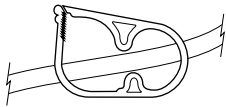
PART NO.	SIZE (IN.)	PCS PER PACKAGE
502 7106	1/4	100
502 7120*	3/8	50
502 7148*	1/2	50

\*Limited stock availability; lead times and minimums may apply — call for details.

## Plastic Barbed Fittings & Hose Nipples



502 2521

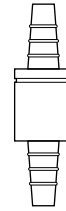


502 2556 & 502 2591

### Pinch Clamp

- Chemical resistant
- Autoclavable
- One piece construction for easy operation; no sharp edges to damage tubing
- Free of animal derived ingredients and conflict minerals
- Accurate flow rate\*
- Gamma stable†
- Free of BPA; California Prop 65 compliant††

### Check Valve



- Prevents back flow of liquid when pressure is stopped
- Body made of polypropylene
- Internal gasket made of Dutral synthetic rubber
- Made from FDA approved ingredients
- Free of BPA and latex
- EMEA 410 compliant

PART NO. POLYPROPYLENE	PART NO. POLYESTER	TUBING OD (IN.)
502 2521		Fits up to 1/4
502 2556		Fits up to 1/2
	502 2591	Fits up to 3/4

PART NO.	TUBING ID (IN.)
509 2451	1/4 – 3/8
509 2465	7/16 – 5/8

\*Applies to 502 2556 and 502 2591 only. 502 2521 does not offer an adjustable flow rate; open or closed only.

†Applies to 502 2521 and 502 2591 only. Discoloration may occur from exposure.

††Applies to 502 2521 and 502 2556 only.

### Reinforced Nipples

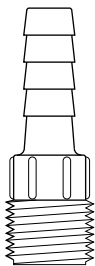
- Made from glass fiber-reinforced nylon (yellow in color) or glass fiber-reinforced polypropylene (black in color)
- High impact strength yet much lighter in weight than metal
- Resistant to most hydrocarbons, solvents, mild acids, and agricultural chemicals
- Made to MIL-C-27487 dimensions; fully interchanged with other materials made to the same standard
- Electrically non-conductive

### Glass Fiber Reinforced Nylon

Temperature Range\*\*: -30°F to 200°F  
 Working Pressure\*\*: 1/2" thru 1" 175 psi  
 1-1/4" thru 2" 150 psi

### Glass Fiber Reinforced Polypropylene

Temperature Range\*\*: 10°F to 180°F  
 Working Pressure\*\*: 1/2" thru 1" 125 psi  
 1-1/4" thru 2" 100 psi



### Hose Nipples – Hose x MNPT

PART NO. NYLON	PART NO. POLYPROPYLENE	SIZE (IN.)
560 3297*	561 3832*	1/2
560 3325*	561 3860*	3/4
560 3353	561 3888	1
560 3381*	561 3916*	1-1/4
560 3409	561 3944*	1-1/2
560 3437	561 3972*	2

\*Limited stock availability; lead times and minimums may apply — call for details.

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All items on this page sold in increments of 10 pieces.



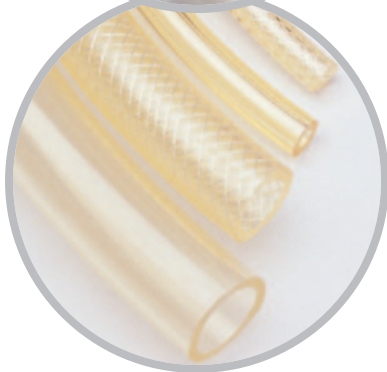
## PVC A Wide Range of Styles

- Chemical and corrosion resistance with rubber-like flexibility
- Choose from various construction options: braid reinforced, unreinforced, rigid pipe, wire reinforced, push-on style, spiral reinforced
- NSF, antimicrobial and DEHP-free versions available
- Applications include general industrial, food and beverage, pharmaceutical and medical, protective coverings, equipment components, many more



## Silicone Platinum or Peroxide Cured, Medical Grades

- Braid-reinforced hose or unreinforced tubing
- Flexible, resilient, odorless
- Ingredients meet USP Class VI and FDA requirements
- Handles temperatures ranging from -100°F to 500°F
- Peroxide or platinum cured



## Polyurethane Braid-Reinforced or Unreinforced

- Select from reinforced hose or ester or ether based unreinforced tubing
- Naturally flexible – no plasticizers to migrate out and cause flow contamination
- Resistant to weathering, moisture, chemicals, petroleum products
- Well-suited for applications involving repeated flexing, vibration, abrasion situations, radiation exposure, impact

## Request a Fittings & Clamps catalog

Inside you'll find details on all of NewAge Industries' barbed fittings and clamps. Catalogs for PVC, polyurethane, silicone, fluoropolymer, rubber, and semi-rigid tubing and hose are available, as well as push-to-connect fittings and custom products. Contact your NewAge Industries' sales representative or local distributor to request a copy of the catalog you need, or visit [www.newageindustries.com](http://www.newageindustries.com).



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9/30/22

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