

Thermobarb® Plastic

Plastic Barbed Fittings & Hose Nipples



ESOP Employee Owned
for Your Benefit

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
- California Prop 65 compliant
- 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 higher pressure applications; testing recommended.

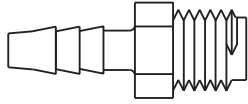
Recommended Clamps

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

Plastic Barbed Fittings & Hose Nipples

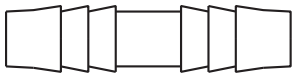
■ Note that sizes are listed first due to the variety of materials offered

Male Adapter



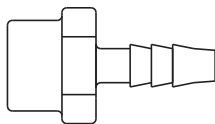
HOSE ID x NPT (IN.)	PART NO. NYLON	PART NO. PE	PART NO. PVDF*†	PART NO. NATURAL PP	PART NO. BLACK PP	PACKAGE QUANTITY EXCEPT PVDF‡
5/32 x 1/8				502 2983	508 0110	100
3/16 x 1/8	500 0030	501 0033		502 3004	508 0131	100
3/16 x 1/4	500 0170	501 0173		502 3025	508 0152	100
1/4 x 1/8	500 0065	501 0068		502 3067	508 0194	100
1/4 x 1/4	500 0205	501 0208		502 3088	508 0215	100
1/4 x 3/8	500 0345	501 0348		502 3109		10 or 100‡
1/4 x 1/2	500 0555*	501 0558			508 0257*	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	507 0317	502 3256	508 0383	100
3/8 x 3/8	500 0415	501 0418		502 3277		100 [^]
3/8 x 1/2	500 0590	501 0593		502 3298	508 0425	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		502 3368		100
1/2 x 1/2	500 0625	501 0628		502 3389	508 0516	100 [^]
1/2 x 3/4	500 0835	501 0803		502 3410	508 0537	50 or 100††
5/8 x 3/8	500 0485	501 0488			508 0558*	100
5/8 x 1/2	500 0660	501 0663				50
5/8 x 3/4	500 0870	501 0838		502 3480		50
3/4 x 1/2	500 0695	501 0698		502 3501		50
3/4 x 3/4	500 0905	501 0873		502 3522	508 0649	50
3/4 x 1	500 0975*			502 3543		50
1 x 1/2	500 0730					50
1 x 3/4	500 0940			502 3585		50
1 x 1	500 1010			502 3606	508 0733	50

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 [^]	502 3795 [^]	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	502 3865		100
5/8	500 1395*	501 1258*	502 3879	508 1006	50
3/4	500 1430	501 1293	502 3893		50 or 100††
1	500 1465*		502 3907		50

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	50
3/4 x 3/4	500 6106	50

[^]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 10 pcs; other materials (except PVDF) sold in quantities of 100 pcs.

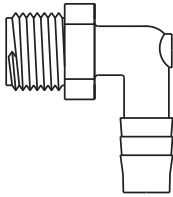
[^]Nylon sold in quantities of 10 pcs; other materials (except PVDF) sold in quantities of 100 pcs.

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

Plastic Barbed Fittings & Hose Nipples

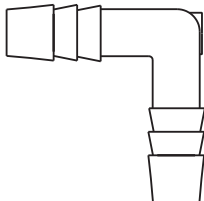
■ Note that sizes are listed first due to the variety of materials offered

Male 90° Elbow



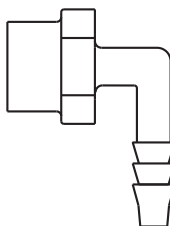
HOSE ID x NPT (IN.)	PART NO. NYLON	PART NO. PE	PART NO. PVDF*†	PART NO. NATURAL PP	PART NO. BLACK PP	PACKAGE QUANTITY EXCEPT PVDF†
3/16 x 1/8	500 3215	501 3008		502 5356	508 2483	100
3/16 x 1/4	500 3355 [^]	501 3148*		502 5370		100
1/4 x 1/8	500 3250	501 3043		502 5412	508 2539	100
1/4 x 1/4	500 3390	501 3183		502 5426	508 2553	100 or 200‡‡
1/4 x 3/8	500 3530	501 3323		502 5440		10 or 100#
1/4 x 1/2	500 3670*	501 3498*				100
1/4 x 3/4		501 3673*				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			508 2721	100
3/8 x 1/2	500 3705	501 3533		502 5608		100
3/8 x 3/4				502 5622		100
1/2 x 1/4	500 3495	501 3288		502 5671	508 2798	100
1/2 x 3/8	500 3600			502 5685	508 2812	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
5/8 x 3/8		501 3463		502 5748	508 2875	100
5/8 x 1/2	500 3775	501 3603		502 5762		50
5/8 x 3/4	500 3985					50
3/4 x 1/2	500 3810	501 3638		502 5825		50
3/4 x 3/4	500 4020	501 3813		502 5839		50
1 x 1/2	500 3845					50
1 x 3/4	500 4055					50
1 x 1	500 4090			502 5916	508 3043	50

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	508 2168	100
3/8 x 3/8	500 2830	501 2658		502 5076	508 2203	100
1/2 x 1/4	500 2865	501 2693		502 5111		100
1/2 x 3/8	500 2900	501 2728		502 5125		100
1/2 x 1/2	500 2935	501 2763		502 5139	508 2266	100
5/8 x 5/8	500 2970	501 2798	507 2235	502 5174	508 2301	50
3/4 x 3/4	500 3005			502 5223		50
1 x 1	500 3040			502 5272		50

Female 90° Elbow



HOSE ID x FNPT (IN.)	PART NO. NYLON	PACKAGE QUANTITY
1/4 x 1/8	500 5567	100
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

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*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 10 pcs; other materials (except PVDF) sold in quantities of 100 pcs.

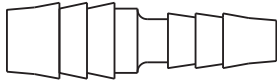
‡‡Nylon sold in quantities of 200 pcs; other materials (except PVDF) sold in quantities of 100 pcs.

#PE sold in quantities of 10 pcs; other materials (except PVDF) sold in quantities of 100 pcs.

Plastic Barbed Fittings & Hose Nipples

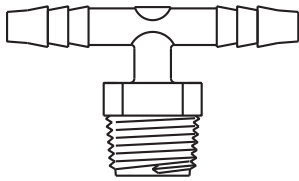
■ Note that sizes are listed first due to the variety of materials offered

Reducer Connector



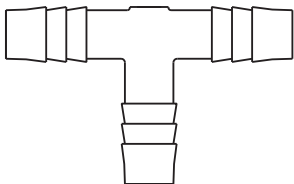
HOSE ID x HOSE ID (IN.)	PART NO. NYLON	PART NO. PE	PART NO. PVDF*†	PART NO. NATURAL PP	PART NO. BLACK PP	PACKAGE QUANTITY EXCEPT PVDF†
1/4 x 1/8	500 1640	501 1503		502 4019*	508 1146	100
1/4 x 3/16	500 1675	501 1538		502 4033		100 ^{^^}
3/8 x 1/4	500 1710	501 1573		502 4047		100
1/2 x 1/4	500 1745	501 1608		502 4061	508 1188	100 ^{^^}
1/2 x 3/8	500 1780	501 1643	507 1171	502 4110	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	500 4335		502 6042		100 ^{^^}
1/4 x 1/8	500 4300	501 4023*			100
1/4 x 1/4	500 4370	501 4093*	502 6091		100 ^{^^}
1/4 x 3/8	500 4475				100
3/8 x 1/4	500 4405	501 4128*	502 6154	508 3281	100 ^{^^}
3/8 x 3/8	500 4510	501 4233*	502 6168		100 ^{^^}
3/8 x 1/2	500 4580*				100
1/2 x 1/4	500 4440				100
1/2 x 3/8	500 4545				10
1/2 x 1/2	500 4615	501 4338*	502 6259		50

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	500 4965* [^]			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	500 5035*	501 4653		502 6616		100
1/4 x 1/4 x 1/4	500 5070	501 4688		502 6665	508 3792	100 or 200 ^{‡‡}
1/4 x 3/8 x 3/8	500 5140	501 4758		502 6693	508 3820	100 ^{^^}
1/4 x 1/2 x 1/2	500 5175	501 4793		502 6707		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	500 5280*	501 4933*		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	508 4023	50
5/8 x 5/8 x 5/8	500 5385	501 5038		502 6945	508 4072	50
3/4 x 3/4 x 3/4	500 5420	501 5073	507 4055	502 6994		50
1 x 1 x 1	500 5455			502 7043		50

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

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

[^]Nylon sold in quantities of 10 pcs; other materials (except PVDF) sold in quantities of 100 pcs.

^{‡‡}Nylon sold in quantities of 200 pcs; other materials (except PVDF) sold in quantities of 100 pcs.

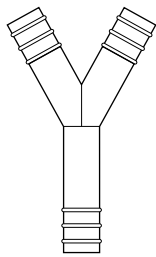
Plastic Barbed Fittings & Hose Nipples

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

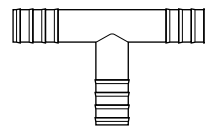
Note: Older style barb, which differ from ribs, still exist in some inventory, depending on size.

**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.



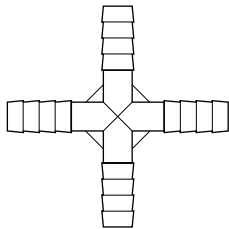
'Y' Connector

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



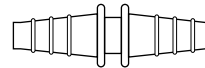
Barbed Tee

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



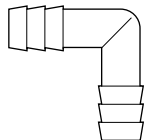
4-Way Connector

PART NO.	HOSE ID (IN.)
509 0946	1/8
509 0981	3/16
509 1016	1/4
509 1051*	3/8
509 1086	7/16
509 1121	1/2



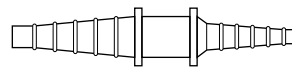
Connector

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



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



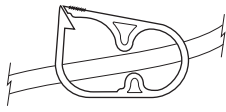
Reducer Connector

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

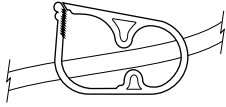
*Limited stock availability; lead times and minimums may apply — call for details.

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

Plastic Barbed Fittings & Hose Nipples



502 2521

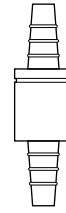


502 2556 & 502 2591

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

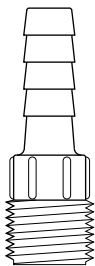
- Made from glass fiber-reinforced nylon (yellow in color) or glass fiber-reinforced polypropylene (black in color)
- High impact strength yet much lighter in weight than metal
- Resistant to most hydrocarbons, solvents, mild acids, and agricultural chemicals
- Made to MIL-C-27487 dimensions; fully interchangeable 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

**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 higher pressure applications; testing recommended.

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.



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WARRANTY: NewAge Industries' products are warranted to be free from defects in material and workmanship. Any product found to carry such defects will be replaced without charge. This warranty is limited only to the replacement of NewAge Industries' products, item for item, which after examination by NewAge Industries are deemed defective. NewAge Industries specifically disclaims any other liability. The data supplied is provided as a helpful guideline and is believed to be reliable; however, nothing stated shall constitute a guarantee, recommendation, or warranty for any application.

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12/7/17

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