

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.

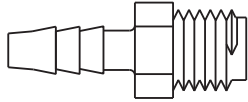
Recommended Clamps

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

Plastic Barbed Fittings & Hose Nipples

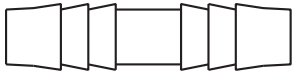
■ Note that sizes are listed first due to the variety of materials offered

Male Adapter



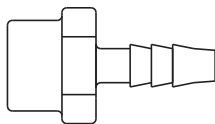
HOSE ID x NPT (IN.)	PART NO. NYLON	PART NO. PE	PART NO. PVDF*†	PART NO. NATURAL PP	PART NO. BLACK PP	PACKAGE QUANTITY EXCEPT PVDF†
5/32 x 1/8			507 0044	502 2983	508 0110	100
3/16 x 1/8	500 0030	501 0033	507 0065	502 3004	508 0131	100
3/16 x 1/4	500 0170	501 0173		502 3025	508 0152	100
1/4 x 1/8	500 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	507 0170	502 3109		10 or 100‡
1/4 x 1/2	500 0555*	501 0558	507 0191		508 0257*	100
5/16 x 1/8		501 0103	507 0233	502 3172		100
5/16 x 1/4	500 0240	501 0243		502 3193		100
3/8 x 1/8	500 0135	501 0138	507 0296	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	507 0338	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	507 0387	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	507 0583	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		507 0667	502 3606	508 0733	50

Connector



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	500 1185 [^]	501 1048 [^]	507 0856	502 3795 [^]	508 0922 [^]	100
3/16	500 1220	501 1083		502 3809		100
1/4	500 1255	501 1118	507 0884	502 3823		100
5/16	500 1290	501 1153		502 3837		100
3/8	500 1325	501 1188	507 0912	502 3851		100
1/2	500 1360	501 1223	507 0926	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.

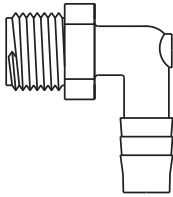
^{^^}Nylon sold in quantities of 10 pcs; other materials (except PVDF) sold in quantities of 100 pcs.

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

Plastic Barbed Fittings & Hose Nipples

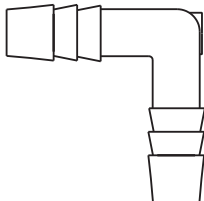
■ Note that sizes are listed first due to the variety of materials offered

Male 90° Elbow



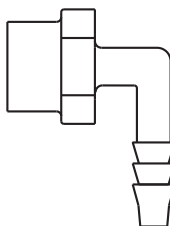
HOSE ID x NPT (IN.)	PART NO. <i>NYLON</i>	PART NO. <i>PE</i>	PART NO. <i>PVDF</i> *†	PART NO. <i>NATURAL PP</i>	PART NO. <i>BLACK PP</i>	PACKAGE QUANTITY EXCEPT PVDF†
3/16 x 1/8	500 3215	501 3008	507 2417	502 5356	508 2483	100
3/16 x 1/4	500 3355 [^]	501 3148*		502 5370		100
1/4 x 1/8	500 3250	501 3043	507 2473	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	507 2501	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	507 2655	502 5594*	508 2721	100
3/8 x 1/2	500 3705	501 3533		502 5608		100
3/8 x 3/4			507 2683	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	507 2760	502 5699	508 2826	100
1/2 x 3/4	500 3950	501 3743	507 2774	502 5713*		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	507 2886	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. <i>NYLON</i>	PART NO. <i>PE</i>	PART NO. <i>PVDF</i> *†	PART NO. <i>NATURAL PP</i>	PART NO. <i>BLACK PP</i>	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	507 2137	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	507 2200	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. <i>NYLON</i>	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

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

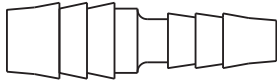
‡‡Nylon sold in quantities of 200 pcs; other materials (except PVDF) sold in quantities of 100 pcs.

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

Plastic Barbed Fittings & Hose Nipples

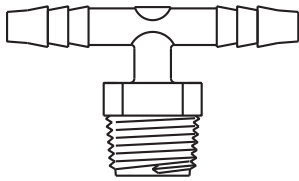
■ Note that sizes are listed first due to the variety of materials offered

Reducer Connector



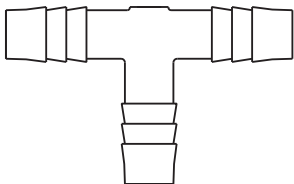
HOSE ID x HOSE ID (IN.)	PART NO. NYLON	PART NO. PE	PART NO. PVDF*†	PART NO. NATURAL PP	PART NO. BLACK PP	PACKAGE QUANTITY EXCEPT PVDF†
1/4 x 1/8	500 1640	501 1503		502 4019*	508 1146	100
1/4 x 3/16	500 1675	501 1538		502 4033		100 ^{^^}
3/8 x 1/4	500 1710	501 1573		502 4047		100
1/2 x 1/4	500 1745	501 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	507 1248	502 4187		100

Male Tee



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 4265	501 3988*	507 3089	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*	501 4303*				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	500 4895* [^]	501 4513 [^]	507 3544	502 6483 [^]		100
5/32 x 5/32 x 5/32	500 4965* [^]	501 4583 [^]	507 3607	502 6546 [^]		100
3/16 x 3/16 x 3/16	500 5000 [^]	501 4618 [^]	507 3656	502 6595 [^]	508 3722 [^]	100
3/16 x 3/8 x 3/8	500 5035*	501 4653	507 3677	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	507 3768	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	507 3936	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.

*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.

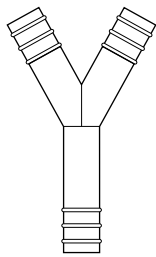
Plastic Barbed Fittings & Hose Nipples

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

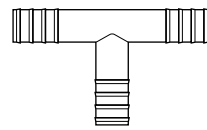
Note: Older style barb, which differ from ribs, still exist in some inventory, depending on size.

**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.



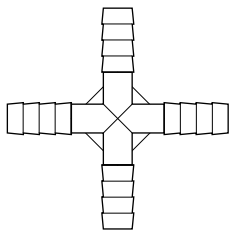
'Y' Connector

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



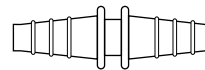
Barbed Tee

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



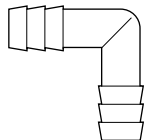
4-Way Connector

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



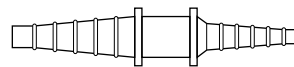
Connector

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



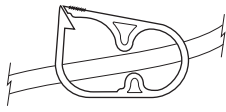
Reducer Connector

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

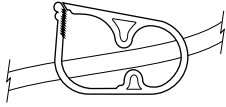
*Limited stock availability; lead times and minimums may apply — call for details.

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

Plastic Barbed Fittings & Hose Nipples



502 2521

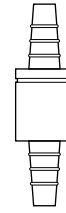


502 2556 & 502 2591

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

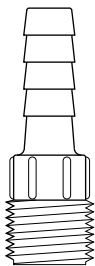
- Made from glass fiber-reinforced nylon (yellow in color) or glass fiber-reinforced polypropylene (black in color)
- High impact strength yet much lighter in weight than metal
- Resistant to most hydrocarbons, solvents, mild acids, and agricultural chemicals
- Made to MIL-C-27487 dimensions; fully interchangeable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