

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



Notes

NATURAL NYLON

- Formulated to resist physical stress and abrasion
- Autoclavable
- Material: NSF-51 and NSF-61 nylon type 6; ingredients meet FDA standards
- Temperature Range^{**}: -40°F to 200°F
- Working Pressure^{**}: 150 psi maximum with appropriate clamps
- Limited styles in 1-1/4" and 1-1/2" sizes are available; call for details

BLACK POLYETHYLENE (PE)

- Formulated for chemical compatibility and high impact resistance at lower temperatures
- Material: NSF-61 listed, high molecular weight linear polyethylene
- Temperature Range^{**}: -65°F to 190°F
- Working Pressure^{**}: 150 psi maximum with appropriate clamps

NATURAL PVDF

- Formulated to resist creep and fatigue under mechanical stress and load
- Offers excellent resistance to abrasion and UV
- Autoclavable
- Material: semi-crystalline, low molecular weight, vinylidene fluoride polymer with FDA approved ingredients
- Temperature Range^{**}: -80°F to 226°F
- Working Pressure^{**}: 250 psi maximum with appropriate clamps
- Material compound is NSF-61 listed

NATURAL POLYPROPYLENE (NATURAL PP)

- Formulated for excellent chemical and solvent resistance
- Autoclavable
- Material: FDA-approved, high impact copolymer polypropylene
- Temperature Range^{**}: 10°F to 220°F
- Working Pressure^{**}: 150 psi maximum with appropriate clamps

BLACK POLYPROPYLENE (BLACK PP)

- Formulated for excellent chemical and solvent resistance
- Autoclavable
- Material: FDA-approved, high impact copolymer polypropylene
- Temperature Range^{**}: 10°F to 220°F
- Working Pressure^{**}: 150 psi maximum with appropriate clamps

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

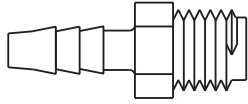
^{**}Values listed are typical for the material used in manufacture, except where noted, and are meant only as a guide to aid in design. Field testing should be performed to find the actual values for your application. Clamps must be used in higher pressure applications; testing recommended.

Recommended Clamps

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

Plastic Barbed Fittings & Hose Nipples

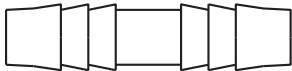
■ Note that sizes are listed first due to the variety of materials offered



Male Adapter

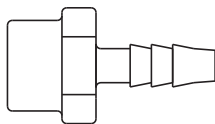
HOSE ID x NPT (IN.)	PART NO. NYLON	PART NO. PE	PART NO. PVDF*	PART NO. NATURAL PP	PART NO. BLACK PP
5/32 x 1/8			507 0044	502 2983	508 0110
3/16 x 1/8	500 0030	501 0033	507 0065	502 3004	508 0131
3/16 x 1/4	500 0170	501 0173		502 3025	508 0152
1/4 x 1/8	500 0065	501 0068	507 0128	502 3067	508 0194
1/4 x 1/4	500 0205	501 0208	507 0149	502 3088	508 0215
1/4 x 3/8	500 0345	501 0348	507 0170	502 3109	508 0236
1/4 x 1/2	500 0555*	501 0558	507 0191	502 3130	508 0257*
1/4 x 3/4		501 0733*			
5/16 x 1/8	500 0100*	501 0103	507 0233	502 3172	
5/16 x 1/4	500 0240	501 0243	507 0254	502 3193	508 0320*
5/16 x 3/8	500 0380				
3/8 x 1/8	500 0135	501 0138	507 0296	502 3235	
3/8 x 1/4	500 0275	501 0278	507 0317	502 3256	508 0383
3/8 x 3/8	500 0415	501 0418	507 0338	502 3277	508 0404
3/8 x 1/2	500 0590	501 0593	507 0359	502 3298	508 0425
3/8 x 3/4	500 0800	501 0768	507 0387	502 3326	
1/2 x 1/4	500 0310	501 0313		502 3347	
1/2 x 3/8	500 0450	501 0453	507 0429	502 3368	508 0495
1/2 x 1/2	500 0625	501 0628	507 0450	502 3389	508 0516
1/2 x 3/4	500 0835	501 0803	507 0471	502 3410	508 0537
5/8 x 3/8	500 0485	501 0488		502 3431	508 0558*
5/8 x 1/2	500 0660	501 0663		502 3452	
5/8 x 3/4	500 0870	501 0838		502 3480	508 0607
3/4 x 1/2	500 0695	501 0698		502 3501	508 0628*
3/4 x 3/4	500 0905	501 0873	507 0583	502 3522	508 0649
3/4 x 1	500 0975*			502 3543	508 0670*
1 x 1/2	500 0730			502 3564	508 0691*
1 x 3/4	500 0940			502 3585	508 0712*
1 x 1	500 1010		507 0667	502 3606	508 0733

Connector



HOSE ID (IN.)	PART NO. NYLON	PART NO. PE	PART NO. PVDF*	PART NO. NATURAL PP	PART NO. BLACK PP
1/8	500 1185^	501 1048^	507 0856	502 3795^	508 0922^
3/16	500 1220	501 1083	507 0870	502 3809	508 0936*
1/4	500 1255	501 1118	507 0884	502 3823	508 0950*
5/16	500 1290	501 1153		502 3837	508 0964
3/8	500 1325	501 1188	507 0912	502 3851	
1/2	500 1360	501 1223	507 0926	502 3865	508 0992
5/8	500 1395*	501 1258*		502 3879	508 1006
3/4	500 1430	501 1293		502 3893	
1	500 1465*	501 1328*		502 3907	508 1034

Female Adapter



HOSE ID x FNPT (IN.)	PART NO. NYLON
3/16 x 1/8	500 5861^
3/16 x 1/4	500 5868^
1/4 x 1/8	500 5896
1/4 x 1/4	500 5903
3/8 x 1/8	500 5966
3/8 x 1/4	500 5973
3/8 x 3/8	500 5980
3/8 x 1/2	500 5987
1/2 x 1/4	500 6022
1/2 x 3/8	500 6029
1/2 x 1/2	500 6036
5/8 x 1/2	500 6064
3/4 x 1/2	500 6099
3/4 x 3/4	500 6106

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

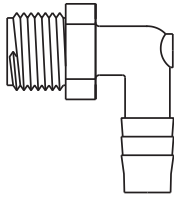
^Available in single-barb style only — actual product differs from illustration.

All items on this page sold in increments of 50 pieces.

Plastic Barbed Fittings & Hose Nipples

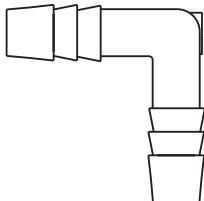
■ Note that sizes are listed first due to the variety of materials offered

Male 90° Elbow



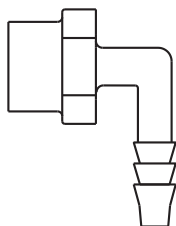
HOSE ID x NPT (IN.)	PART NO. NYLON	PART NO. PE	PART NO. PVDF*	PART NO. NATURAL PP	PART NO. BLACK PP
3/16 x 1/8	500 3215^	501 3008	507 2417	502 5356	508 2483
3/16 x 1/4	500 3355^	501 3148*^		502 5370	
1/4 x 1/8	500 3250	501 3043	507 2473	502 5412	508 2539
1/4 x 1/4	500 3390	501 3183	507 2487	502 5426	508 2553
1/4 x 3/8	500 3530	501 3323	507 2501	502 5440	
1/4 x 1/2	500 3670*	501 3498*			
1/4 x 3/4	500 3880*	501 3673*			
5/16 x 1/8	500 3285	501 3078	507 2564	502 5503	508 2630
5/16 x 1/4	500 3425	501 3218		502 5517	508 2644*
3/8 x 1/8	500 3320	501 3113	507 2627	502 5566	
3/8 x 1/4	500 3460	501 3253	507 2641	502 5580	508 2707
3/8 x 3/8	500 3565	501 3393	507 2655	502 5594	508 2721
3/8 x 1/2	500 3705	501 3533		502 5608	508 2735*
3/8 x 3/4		501 3708	507 2683	502 5622	
1/2 x 1/4	500 3495	501 3288		502 5671	508 2798
1/2 x 3/8	500 3600	501 3428	507 2746	502 5685	508 2812
1/2 x 1/2	500 3740	501 3568	507 2760	502 5699	508 2826
1/2 x 3/4	500 3950	501 3743	507 2774	502 5713	508 2840*
5/8 x 3/8	500 3635*	501 3463		502 5748	508 2875
5/8 x 1/2	500 3775	501 3603		502 5762	
5/8 x 3/4	500 3985	501 3778*			
3/4 x 1/2	500 3810	501 3638	507 2886	502 5825	508 2952
3/4 x 3/4	500 4020	501 3813		502 5839	508 2966*
1 x 1/2	500 3845				
1 x 3/4	500 4055				
1 x 1	500 4090		507 2977	502 5916	508 3043

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
1/4 x 1/4	500 2795	501 2623		502 5041	508 2168
3/8 x 3/8	500 2830	501 2658	507 2137	502 5076	508 2203
1/2 x 1/4	500 2865	501 2693		502 5111	
1/2 x 3/8	500 2900	501 2728		502 5125	508 2252
1/2 x 1/2	500 2935	501 2763	507 2200	502 5139	508 2266
5/8 x 5/8	500 2970	501 2798	507 2235	502 5174	508 2301
3/4 x 3/4	500 3005	501 2833		502 5223	
1 x 1	500 3040			502 5272	

Female 90° Elbow



HOSE ID x FNPT (IN.)	PART NO. NYLON
1/4 x 1/8	500 5567
1/4 x 1/4	500 5574
1/4 x 3/8	500 5581
5/16 x 1/8	500 5602
5/16 x 1/4	500 5609
3/8 x 1/8	500 5637
3/8 x 1/4	500 5644
3/8 x 3/8	500 5651
3/8 x 1/2	500 5658
1/2 x 1/4	500 5686
1/2 x 3/8	500 5693
1/2 x 1/2	500 5700

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

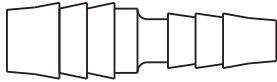
^Available in single-barb style only — actual product differs from illustration.

All items on this page sold in increments of 50 pieces.

Plastic Barbed Fittings & Hose Nipples

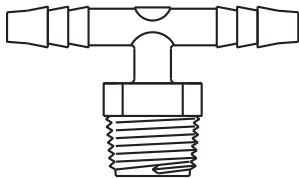
■ Note that sizes are listed first due to the variety of materials offered

Reducer Connector



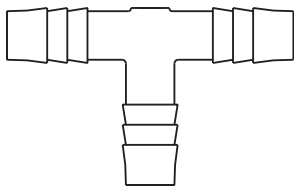
HOSE ID x HOSE ID (IN.)	PART NO. NYLON	PART NO. PE	PART NO. PVDF*	PART NO. NATURAL PP	PART NO. BLACK PP
1/4 x 1/8	500 1640	501 1503	507 1080	502 4019	508 1146
1/4 x 3/16	500 1675	501 1538	507 1094	502 4033	
3/8 x 1/4	500 1710	501 1573		502 4047	
1/2 x 1/4	500 1745	501 1608		502 4061	508 1188
1/2 x 3/8	500 1780	501 1643	507 1171	502 4110	508 1237
5/8 x 3/8	500 1815	501 1678		502 4131	
5/8 x 1/2	500 1850*	501 1713	507 1248	502 4187	
3/4 x 1/2					

Male Tee



HOSE ID x NPT (IN.)	PART NO. NYLON	PART NO. PE	PART NO. PVDF*	PART NO. NATURAL PP	PART NO. BLACK PP
3/16 x 1/8	500 4265	501 3988*	507 3089	502 6028	508 3155
3/16 x 1/4	500 4335			502 6042	508 3169
1/4 x 1/8	500 4300	501 4023*			508 3204
1/4 x 1/4	500 4370	501 4093*		502 6091	
1/4 x 3/8	500 4475			502 6105	
3/8 x 1/4	500 4405	501 4128*		502 6154	508 3281
3/8 x 3/8	500 4510	501 4233*		502 6168	
3/8 x 1/2	500 4580*	501 4303*			
1/2 x 1/4	500 4440				
1/2 x 3/8	500 4545	501 4268*		502 6245	
1/2 x 1/2	500 4615	501 4338*		502 6259	
1 x 1/2	500 4650*				
3/4 x 3/4	500 4685				
1 x 3/4	500 4720				

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
1/8 x 1/8 x 1/8	500 4895^	501 4513^	507 3544	502 6483	508 3610*
5/32 x 5/32 x 5/32	500 4965*	501 4583^	507 3607	502 6546	
3/16 x 3/16 x 3/16	500 5000^	501 4618^	507 3656	502 6595	508 3722
3/16 x 3/8 x 3/8	500 5035*	501 4653	507 3677	502 6616	508 3743*
1/4 x 1/4 x 1/4	500 5070	501 4688		502 6665	508 3792
1/4 x 5/16 x 5/16		501 4723*			
1/4 x 3/8 x 3/8	500 5140	501 4758		502 6693	508 3820
1/4 x 1/2 x 1/2	500 5175	501 4793	507 3768	502 6707	
5/16 x 5/16 x 5/16	500 5210	501 4828		502 6756	508 3883
5/16 x 1/2 x 1/2		501 4863*			
3/8 x 3/8 x 3/8	500 5245	501 4898	507 3866	502 6805	508 3932
3/8 x 1/2 x 1/2	500 5280*	501 4933*		502 6826	
1/2 x 3/8 x 3/8	500 5315	501 4968	507 3936	502 6875	
1/2 x 1/2 x 1/2	500 5350	501 5003	507 3957	502 6896	508 4023
5/8 x 5/8 x 5/8	500 5385	501 5038		502 6945	508 4072
3/4 x 3/4 x 3/4	500 5420	501 5073	507 4055	502 6994	508 4121*
1 x 1 x 1	500 5455			502 7043	

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

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

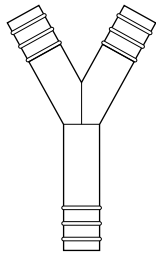
All items on this page sold in increments of 50 pieces.

Plastic Barbed Fittings & Hose Nipples

FDA-APPROVED POLYPROPYLENE (FDA PP)

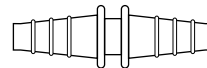
- Excellent temperature and chemical resistance
- Autoclavable
- Widely used in industry and laboratories
- Temperature range**: 32°F to 212°F
- Working pressure**: 21.75 psi maximum at 70°F with appropriate clamps

**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.



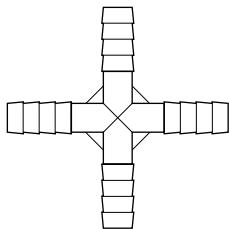
'Y' Connector

PART NO.	HOSE ID (IN.)
502 0596	1/8
502 0631	3/16
502 0666	1/4
502 0701	3/8
502 0736	7/16
502 0771	1/2
502 0806	9/16



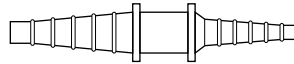
Connector

PART NO.	HOSE ID (IN.)
502 0106	1/8 – 7/32
502 0141	3/16 – 5/16
502 0176	1/4 – 3/8
502 0211	3/8 – 7/16
502 0246	7/16 – 9/16
502 0281	1/2 – 5/8



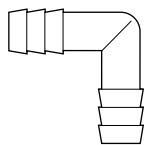
4-Way Connector

PART NO.	HOSE ID (IN.)
502 0946	1/8
502 0981	3/16
502 1016	1/4
502 1051	3/8
502 1086	7/16
502 1121	1/2



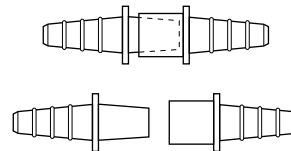
Reducer Connector

PART NO.	HOSE ID (IN.)
502 0421	1/8 – 5/16 and 1/4 – 7/16
502 0456	1/8 – 5/16 and 7/16 – 5/8
502 0491	5/16 – 7/16 and 7/16 – 5/8



Barbed 90° Elbow

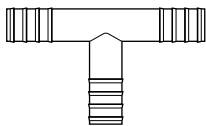
PART NO.	HOSE ID (IN.)
502 1681	1/8
502 1716	3/16
502 1751	1/4
502 1786	3/8
502 1821	7/16
502 1856	1/2
502 1891	9/16



Quick Disconnect†

PART NO.	HOSE ID (IN.)
502 1366*	1/8 – 7/32
502 1401*	3/16 – 5/16
502 1436*	1/4 – 3/8
502 1471*	3/8 – 7/16
502 1506*	7/16 – 9/16
502 1541*	1/2 – 5/8

†This part is made from FDA-approved polyethylene and is not autoclavable. Working pressure is 21 psi maximum at 70°F. Maximum safe working temperature is 122°F; 140°F intermittently.



Barbed Tee

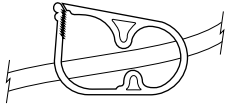
PART NO.	HOSE ID (IN.)
502 2031	1/8
502 2066	3/16
502 2101	1/4
502 2136	3/8
502 2171	7/16
502 2206	1/2
502 2241	9/16

*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

Pinch Clamp



- Chemical resistant
- Autoclavable
- One piece construction for easy operation; no sharp edges to damage tubing
- Accurate flow rate

Check Valve



- Body made of polypropylene
- Internal gasket made of Dutral synthetic rubber
- Prevents back flow of liquid when pressure is stopped

PART NO. <i>POLYPROPYLENE</i>	PART NO. <i>POLYESTER</i>	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.)
502 2451	1/4 – 3/8
502 2465	7/16 – 5/8

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

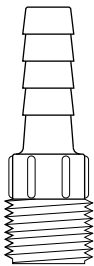
Glass Fiber Reinforced Nylon

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. <i>NYLON</i>	PART NO. <i>POLYPROPYLENE</i>	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
- Applications include general industrial, food, pharmaceutical and medical, protective coverings, insulation sleeving, 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
- Suction hose offers full vacuum rating



Polyurethane Braid-Reinforced, Unreinforced, Colors

- Select from reinforced hose, unreinforced tubing, or a special formulation for pneumatic applications
- Naturally flexible – no plasticizers to migrate out and cause flow contamination
- Resistant to weathering, U.V., 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.



Kwik Clamp, Thermobarb, NewAge, "Fluid Transfer Specialists," and The "N" Logo are trademarks of NewAge® Industries, Inc. • Oetiker reg. TM Oetiker, Inc.

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.

NOTICE: NewAge Industries, Inc. has been a privately owned corporation since 1954. Neither the corporation nor its principals are affiliated, in any way, with any other group or entity either representing themselves as or being referred to by the term New-Age.

© NewAge Industries, Inc. 2011 Specifications are subject to change without notice.

4/15/11

DISTRIBUTOR PARTNER



145 James Way
Southampton, PA 18966
www.newageindustries.com

800-50-NEWAGE
(800-506-3924)
215-526-2300

Fax: 800-837-1856
215-526-2190

info@newageindustries.com