

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.

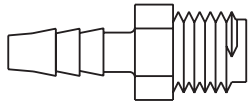
Recommended Clamps

- 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



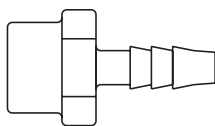
HOSE ID x NPT (IN.)	PART NO. NYLON	PART NO. PE	PART NO. PVDF*	PART NO. NATURAL PP	PART NO. BLACK PP
5/32 x 1/8			507 0044	502 2983	508 0110
3/16 x 1/8	500 0030	501 0033	507 0065	502 3004	508 0131
3/16 x 1/4	500 0170	501 0173		502 3025	508 0152
1/4 x 1/8	500 0065	501 0068	507 0128	502 3067	508 0194
1/4 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	508 0299
5/16 x 1/4	500 0240	501 0243	507 0254	502 3193	508 0320
5/16 x 3/8	500 0380	501 0383*			
3/8 x 1/8	500 0135	501 0138	507 0296	502 3235	508 0362
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	508 0453
1/2 x 1/4	500 0310	501 0313		502 3347	508 0474
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	508 0579
5/8 x 3/4	500 0870	501 0838		502 3480	508 0607
3/4 x 1/2	500 0695	501 0698	507 0562	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	508 0978
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	508 1020
1	500 1465*	501 1328*	507 0968	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.

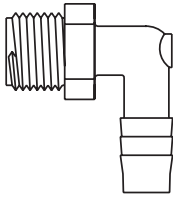
^Available in single-barb style only — actual product differs from illustration.

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

Plastic Barbed Fittings & Hose Nipples

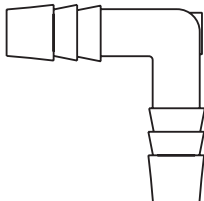
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Male 90° Elbow



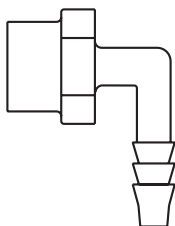
HOSE ID x NPT (IN.)	PART NO. NYLON	PART NO. PE	PART NO. PVDF*	PART NO. NATURAL PP	PART NO. BLACK PP
3/16 x 1/8	500 3215^	501 3008	507 2417	502 5356	508 2483
3/16 x 1/4	500 3355^	501 3148*^		502 5370	508 2497
1/4 x 1/8	500 3250	501 3043	507 2473	502 5412	508 2539
1/4 x 1/4	500 3390	501 3183	507 2487	502 5426	508 2553
1/4 x 3/8	500 3530	501 3323	507 2501	502 5440	508 2567
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	508 2693
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	507 2669	502 5608	508 2735
3/8 x 3/4		501 3708	507 2683	502 5622	508 2749
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	508 2889
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	508 2238
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	508 2350
1 x 1	500 3040			502 5272	508 2399

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.

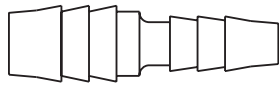
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Plastic Barbed Fittings & Hose Nipples

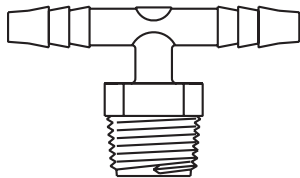
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Reducer Connector



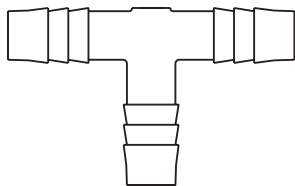
HOSE ID x HOSE ID (IN.)	PART NO. NYLON	PART NO. PE	PART NO. PVDF*	PART NO. NATURAL PP	PART NO. BLACK PP
1/4 x 1/8	500 1640	501 1503	507 1080	502 4019	508 1146
1/4 x 3/16	500 1675	501 1538	507 1094	502 4033	508 1160
3/8 x 1/4	500 1710	501 1573		502 4047	508 1174
1/2 x 1/4	500 1745	501 1608		502 4061	508 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	508 1258
5/8 x 1/2	500 1850*	501 1713	507 1248	502 4187	508 1314
3/4 x 1/2			507 1269		

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	501 4058*		502 6042	508 3169
1/4 x 1/8	500 4300	501 4023*		502 6077	508 3204
1/4 x 1/4	500 4370	501 4093*		502 6091	508 3218
1/4 x 3/8	500 4475	501 4198*		502 6105	508 3232
3/8 x 1/4	500 4405	501 4128*		502 6154	508 3281
3/8 x 3/8	500 4510	501 4233*		502 6168	508 3295
3/8 x 1/2	500 4580*	501 4303*			
1/2 x 1/4	500 4440	501 4163*			
1/2 x 3/8	500 4545	501 4268*		502 6245	508 3372
1/2 x 1/2	500 4615	501 4338*		502 6259	508 3386
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	508 3673
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	507 3726	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	508 3834
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	508 3953
1/2 x 3/8 x 3/8	500 5315	501 4968	507 3936	502 6875	508 4002
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	508 4170

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

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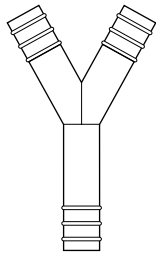
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Plastic Barbed Fittings & Hose Nipples

FDA-APPROVED POLYPROPYLENE (FDA PP)

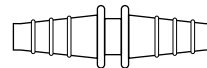
- Excellent temperature and chemical resistance
- Autoclavable
- Widely used in industry and laboratories
- Temperature range**: 32°F to 212°F
- Working pressure**: 21.75 psi maximum at 70°F with appropriate clamps

**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.



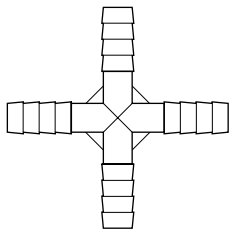
'Y' Connector

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



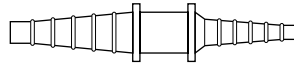
Connector

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



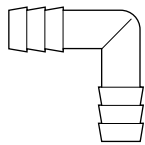
4-Way Connector

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



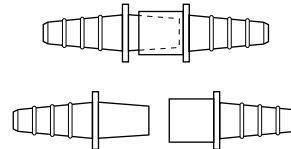
Reducer Connector

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

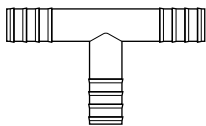
PART NO.	HOSE ID (IN.)
502 1681	1/8
502 1716	3/16
502 1751	1/4
502 1786	3/8
502 1821	7/16
502 1856	1/2
502 1891	9/16



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.



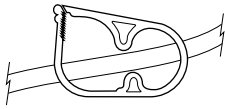
Barbed Tee

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

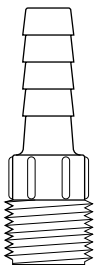
- Made from glass fiber-reinforced nylon (yellow in color) or glass fiber-reinforced polypropylene (black in color)
- High impact strength yet much lighter in weight than metal
- Resistant to most hydrocarbons, solvents, mild acids, and agricultural chemicals
- Made to MIL-C-27487 dimensions; fully interchangeable 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
	3"	100 psi
	4"	50 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
	3"	75 psi
	4"	50 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
560 3493	561 4028	3
560 3521	561 4056	4

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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.



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info@newageindustries.com