

## Polypropylene Non-Spill Chemical Transfer Couplings

The non-spill coupling virtually eliminates fluid loss upon disconnection. It is designed to help meet the demand for closed system transfer and dispensing of chemicals with minimal environmental contamination. The push-to-connect design allows ease of connection/disconnection and the flush valve enables ease of cleaning. They can be used with concentrated or diluted agricultural chemicals when transferring from bulk storage tanks, returnable containers, applicators, etc.

### Materials:

- body - polypropylene
- springs - 316 stainless steel
- seals - chemical resistant fluorocarbon

Size	Pressure Ratings	<i>coupler</i>		<i>nipple</i>	
		Part #	Price/E	Part #	Price/E
1/2"	100 PSI at 68°F	<b>PFC50</b>	<b>\$71.80</b>	<b>PFN50</b>	<b>\$35.00</b>
1"	60 PSI at 68°F	<b>PFC100</b>	<b>86.80</b>	<b>PFN100</b>	<b>60.00</b>
2"	100 PSI at 68°F	<b>PFC200</b>	<b>233.30</b>	<b>PFN200</b>	<b>110.30</b>



## Acetal Push-In Fittings

### Construction:

- material - acetal copolymer
- O-ring - nitrile rubber
- three piece construction, body, collet and O-ring pre-assembled
- collets are produced with stainless steel locking teeth

### Working Pressure and Temperature Range:

- temperature range: **-20°F (-20°C) to 185°F (85°C)**
- maximum water pressure: 1/4": **230 PSI**; 3/8" and 1/2": **170 PSI**

### Advantages:

- FDA compliant and NSF 51 listed non toxic material
- Easy to install - no tools required. Easy to disconnect and reuse

### Applications:

- Water conditioning, filtration, reverse osmosis, soft drink, beer and condiment dispensing equipment where no metal contamination can be present.
- Industrial applications include low pressure pneumatic, hydraulic and vacuum lines commonly used in packaging systems, robotics, machine tools, agricultural spraying, car and industrial wash systems and air logic systems.



Plastic Fittings

## Push-In Straight Unions

### tube x tube

Tube OD	<i>Acetal</i>	
	Part #	Price/E
1/4"	<b>462-4</b>	<b>\$3.40</b>
3/8"	<b>462-6</b>	<b>4.80</b>
3/8" x 1/4"	<b>462-64</b>	<b>4.65</b>
1/2"	<b>462-8</b>	<b>5.55</b>
1/2" x 3/8"	<b>462-86</b>	<b>5.60</b>



## Push-In Union Tees

### tube x tube x tube

Tube OD		<i>Acetal</i>	
Run	Branch	Part #	Price/E
1/4"	1/4"	<b>464-4</b>	<b>\$4.70</b>
3/8"	3/8"	<b>464-6</b>	<b>5.85</b>
3/8"	1/4"	<b>464-664</b>	<b>5.80</b>
1/2"	1/2"	<b>464-8</b>	<b>6.95</b>
1/2"	3/8"	<b>464-886</b>	<b>6.60</b>



## Push-In Hose Barb Connectors

### tube x hose barb

Tube OD	<i>Acetal</i>	
	Part #	Price/E
1/4"	<b>489-4</b>	<b>\$2.40</b>
3/8"	<b>489-6</b>	<b>3.05</b>
1/2"	<b>489-8</b>	<b>3.40</b>



**Acetal Push-In Fittings****Push-In Female Adapters**

tube x female NPT

Tube OD	Female NPT	Acetal	
		Part #	Price/E
1/4"	1/4"	<b>466-4B</b>	<b>\$4.10</b>
3/8"	1/4"	<b>466-6B</b>	<b>5.15</b>

**Push-In Male Adapters**

tube x male NPT

Tube OD	Male NPT	Acetal	
		Part #	Price/E
1/4"	1/8"	<b>468-4A</b>	<b>\$2.70</b>
1/4"	1/4"	<b>468-4B</b>	<b>3.00</b>
1/4"	3/8"	<b>468-4C</b>	<b>3.50</b>
3/8"	1/8"	<b>468-6A</b>	<b>3.90</b>
3/8"	1/4"	<b>468-6B</b>	<b>4.55</b>
3/8"	3/8"	<b>468-6C</b>	<b>4.85</b>
3/8"	1/2"	<b>468-6D</b>	<b>5.15</b>
1/2"	3/8"	<b>468-8C</b>	<b>5.60</b>
1/2"	1/2"	<b>468-8D</b>	<b>6.15</b>

**Push-In Male Elbows**

tube x 90° male NPT

Tube OD	Male NPT	Acetal	
		Part #	Price/E
1/4"	1/8"	<b>469-4A</b>	<b>\$3.45</b>
1/4"	1/4"	<b>469-4B</b>	<b>3.60</b>
1/4"	3/8"	<b>469-4C</b>	<b>3.80</b>
3/8"	1/4"	<b>469-6B</b>	<b>4.65</b>
3/8"	3/8"	<b>469-6C</b>	<b>5.00</b>
1/2"	3/8"	<b>469-8C</b>	<b>5.70</b>
1/2"	1/2"	<b>469-8D</b>	<b>6.35</b>

**Push-In Union Elbows**

tube x 90° tube

Tube OD	Acetal	
	Part #	Price/E
1/4"	<b>465-4</b>	<b>\$4.00</b>
3/8"	<b>465-6</b>	<b>5.30</b>
3/8" x 1/4"	<b>465-6A</b>	<b>5.15</b>
1/2" x 3/8"	<b>465-8B</b>	<b>6.10</b>
1/2"	<b>465-8</b>	<b>6.55</b>

**Push-In 360° Swivel Elbows**

tube x 360° swivel male NPT

Tube OD	Male NPT	Acetal	
		Part #	Price/E
1/4"	1/8"	<b>469S-4A</b>	<b>\$5.80</b>
1/4"	1/4"	<b>469S-4B</b>	<b>5.85</b>
3/8"	1/4"	<b>469S-6B</b>	<b>8.15</b>
3/8"	3/8"	<b>469S-6C</b>	<b>8.35</b>
1/2"	3/8"	<b>469S-8C</b>	<b>9.20</b>
1/2"	1/2"	<b>469S-8D</b>	<b>9.30</b>

## Clear PVC Tubing

Clear PVC Tubing is designed to be used with standard shank fittings.  
Tubing sold only in lengths shown below.

### domestic

Size		Working Pressure @ 72°F	Length	PVC	
ID	OD			Part #	Price/length
3/16"	5/16"	55	100	<b>CL0305</b>	<b>\$43.25</b>
1/4"	3/8"	55	100	<b>CL0406</b>	<b>50.60</b>
1/4"	1/2"	60	100	<b>CL0408</b>	<b>113.00</b>
5/16"	7/16"	50	100	<b>CL0507</b>	<b>58.60</b>
3/8"	1/2"	40	100	<b>CL0608</b>	<b>72.25</b>
3/8"	5/8"	55	100	<b>CL0610</b>	<b>149.00</b>
1/2"	5/8"	30	100	<b>CL0810</b>	<b>97.00</b>
1/2"	3/4"	45	100	<b>CL0812</b>	<b>180.00</b>
5/8"	7/8"	40	100	<b>CL1014</b>	<b>224.00</b>
3/4"	1"	35	100	<b>CL1216</b>	<b>258.00</b>
1"	1-1/4"	28	100	<b>CL1620</b>	<b>340.00</b>
1-1/4"	1-3/4"	45	50	<b>CL2028-50</b>	<b>430.00</b>
1-1/2"	2"	40	50	<b>CL2432-50</b>	<b>500.00</b>

### Domestic

- produced from FDA materials, but not FDA approved
- for non-critical hospital use such as suction and draining
- maximum temperature: **135°F**
- shipped in individually boxed bundles



Plastic Fittings

### imported

Size		Working Pressure @ 72°F	Length	PVC	
ID	OD			Part #	Price/length
1/4"	3/8"	50	100	<b>ICL0406</b>	<b>\$25.50</b>
3/8"	1/2"	35	100	<b>ICL0608</b>	<b>35.45</b>
1/2"	5/8"	35	100	<b>ICL0810</b>	<b>46.30</b>
1/2"	3/4"	50	100	<b>ICL0812</b>	<b>96.55</b>
3/4"	1"	35	100	<b>ICL1216</b>	<b>136.90</b>
1"	1-1/4"	30	100	<b>ICL1620</b>	<b>178.55</b>
1-1/2"	2"	15	50	<b>ICL2432</b>	<b>290.55</b>

### Imported

- temperature range: **14°F to 149°F**
- shipped in bundles wrapped with PVC film

## Clear PVC Braided Tubing

Tubing sold only in lengths shown below.

### domestic

Size		Working Pressure @ 72°F	Length	PVC	
ID	OD			Part #	Price/length
3/16"	3/8"	250	300	<b>BR0306</b>	<b>\$299.50</b>
1/4"	7/16"	250	300	<b>BR0446</b>	<b>280.00</b>
3/8"	5/8"	225	300	<b>BR0609</b>	<b>589.45</b>
1/2"	3/4"	200	300	<b>BR0812</b>	<b>520.00</b>
5/8"	7/8"	200	300	<b>BR1014</b>	<b>820.00</b>
3/4"	1-1/16"	150	300	<b>BR1218</b>	<b>820.00</b>
1"	1-5/16"	125	200	<b>BR1621</b>	<b>1315.50</b>
1-1/4"	1-11/16"	100	100	<b>BR2027</b>	<b>825.00</b>
1-1/2"	1-15/16"	100	100	<b>BR2431</b>	<b>1730.75</b>

### Domestic

- high grade tensile strength polyester yarn reinforcement
- temperature range: **27°F to 150°F**
- shipped in coils



### imported

Size		Working Pressure @ 72°F	Length	PVC	
ID	OD			Part #	Price/length
1/4"	1/2"	142	300	<b>IBR0446</b>	<b>\$191.00</b>
3/8"	5/8"	114	300	<b>IBR0609</b>	<b>246.25</b>
1/2"	3/4"	100	300	<b>IBR0812</b>	<b>310.00</b>
3/4"	1-1/16"	71	300	<b>IBR1218</b>	<b>661.30</b>
1"	1-5/16"	71	200	<b>IBR1621</b>	<b>513.10</b>

### Imported

- temperature range: **14°F to 149°F**
- for various machine tools and transportation of chemicals
- shipped in bundles wrapped with PVC film

## PVC Tubing and Hose Cutters



- rugged construction permits cutting up to 3/4" tubing or hose
- corrosion resistant hardened steel blade ensures straight, crisp cuts for optimum fit

Part #	Price/E
<b>TC97</b>	<b>\$17.00</b>
<b>TC97RB</b> (replacement blade)	<b>5.75</b>



- cuts low pressure fabric reinforced hose up to 1" OD
- reversible blade

Part #	Price/E
<b>HC90</b>	<b>\$26.55</b>
<b>HC90RB</b> (replacement blade)	<b>11.15</b>



- cuts hose and tubing up to 2" OD; Polyethylene up to 1 1/2" ID; PVC up to 1 1/4" ID
- stainless steel blade

Part #	Price/E
<b>LHC95</b>	<b>\$47.70</b>
<b>LHC95RB</b> (replacement blade)	<b>19.00</b>

## Copper Tubing Cutters

### Hi-Duty Tube Cutter



- for 1/8" through 1-1/8" OD tubing
- rugged aluminum alloy body is nickel chrome plated
- Foldaway hardened steel reamer with turned cutting edge removes burrs cleanly, filing surface removes outside burrs.
- includes 2 general purpose cutter wheels
- chromium steel cutting wheels
- replacement parts available, contact the factory for more information

Description	Part #	Price/E
length 5", weight 6.5 oz.	<b>TC-1000</b>	<b>\$104.10</b>

### Ratcheting Tube Cutter



- for 1/8" through 5/8" OD tubing
- use cutter with or without handle - snaps into place in seconds
- includes 1 general purpose cutter wheel
- Enclosed feed screw minimizes contamination ensuring continued smooth operation.
- corrosion resistant stainless steel rollers positioned at bottom of cutter allows for easier cutter engagement on tubing and smoother cutting action
- replacement parts available, contact the factory for more information

Description	Part #	Price/E
length with handle 4 3/4", weight 4 oz., 4" swing radius with handle	<b>TC-1050RH</b>	<b>\$84.85</b>

### Tube Cutter



- for 3/8" through 1-1/8" OD tubing
- includes 2 general purpose cutter wheels
- replacement parts available, contact the factory for more information

Description	Part #	Price/E
length 2-11/16", weight 5 oz., 1-15/16" swing radius	<b>174-F</b>	<b>\$98.65</b>

## Properties of Tuff-Lite Materials

Nylon fittings should not be used with acid-based fertilizers, bromine, chlorine, fluorine, hydrochloric acid, iodine, nitric acid, phosphoric acid, sulfuric acid or xylene. Made with material approved by FDA. Nylon should not be used with compressed gas. Parts are white.

**SAFETY**  
ALERT

Polypropylene fittings should not be used with aromatic hydrocarbons, carbon tetra-chloride, gasoline, hexane, kerosene, nitric acid, sodium hydrochlorite, toluene, trichloroethylene or xylene. Polypropylene should not be used with compressed gas. Parts are black.

**SAFETY**  
ALERT

### Male Inserts

- Parts showing package quantities are sold in package quantities only.

#### hose shank x male NPT

Hose Shank	Male NPT	Nylon			Polypropylene		
		Part #	Price/E	Pkg Qty	Part #	Price/E	Pkg Qty
1/4"	1/8"	<b>TN21</b>	<b>\$0.68</b>	50	<b>PPN21</b>	<b>\$0.82</b>	50
	1/4"	<b>TN22</b>	<b>0.70</b>	50	<b>PPN22</b>	<b>0.81</b>	50
	3/8"	<b>TN23</b>	<b>0.76</b>	50	<b>PPN23</b>	<b>0.83</b>	50
	1/2"	<b>TN24</b>	<b>0.87</b>	50	<b>PPN24</b>	<b>0.87</b>	50
	3/4"	<b>TN26</b>	<b>0.91</b>	50	---	---	--
5/16"	1"	<b>TN28</b>	<b>1.38</b>	50	---	---	--
	1/4"	<b>TN252</b>	<b>0.70</b>	50	---	---	--
3/8"	1/8"	<b>TN31</b>	<b>0.80</b>	50	<b>PPN31</b>	<b>0.82</b>	50
	1/4"	<b>TN32</b>	<b>0.88</b>	50	<b>PPN32</b>	<b>0.80</b>	50
	3/8"	<b>TN33</b>	<b>0.92</b>	50	<b>PPN33</b>	<b>0.81</b>	50
	1/2"	<b>TN34</b>	<b>1.00</b>	50	<b>PPN34</b>	<b>0.93</b>	50
	3/4"	<b>TN36</b>	<b>1.08</b>	50	<b>PPN36</b>	<b>0.90</b>	50
1/2"	1/8"	<b>TN41</b>	<b>0.75</b>	50	---	---	--
	1/4"	<b>TN42</b>	<b>0.77</b>	50	<b>PPN42</b>	<b>0.83</b>	50
	3/8"	<b>TN43</b>	<b>0.79</b>	50	<b>PPN43</b>	<b>0.88</b>	50
	1/2"	<b>TN44</b>	<b>0.91</b>	50	<b>PPN44</b>	<b>0.72</b>	50
5/8"	3/4"	<b>TN46</b>	<b>1.03</b>	50	<b>PPN46</b>	<b>1.07</b>	50
	3/8"	<b>TN53</b>	<b>0.87</b>	50	---	---	--
	1/2"	<b>TN54</b>	<b>0.94</b>	50	<b>PPN54</b>	<b>0.93</b>	50
3/4"	3/4"	<b>TN56</b>	<b>1.10</b>	50	<b>PPN56</b>	<b>1.12</b>	50
	3/8"	<b>TN63</b>	<b>0.83</b>	50	---	---	--
	1/2"	<b>TN64</b>	<b>1.07</b>	50	<b>PPN64</b>	<b>1.00</b>	50
1"	3/4"	<b>TN66</b>	<b>1.17</b>	50	<b>PPN66</b>	<b>0.93</b>	50
	1"	<b>TN68</b>	<b>1.37</b>	25	<b>PPN68</b>	<b>1.38</b>	25
	3/4"	<b>TN86</b>	<b>1.29</b>	25	<b>PPN86</b>	<b>1.16</b>	25
1-1/4"	1"	<b>TN88</b>	<b>1.56</b>	25	<b>PPN88</b>	<b>1.49</b>	25
	1"	<b>TN158</b>	<b>2.35</b>	15	---	---	--
	1-1/4"	<b>TN150</b>	<b>3.70</b>	10	<b>PPN150</b>	<b>3.11</b>	10
1-1/2"	1-1/2"	<b>TN1520</b>	<b>3.90</b>	10	---	---	--
	1-1/4"	<b>TN2015</b>	<b>3.90</b>	10	---	---	--
2"	1-1/2"	<b>TN200</b>	<b>4.00</b>	10	<b>PPN200</b>	<b>3.20</b>	10
	2"	<b>TN250</b>	<b>5.60</b>	5	<b>PPN250</b>	<b>4.55</b>	5



nylon



polypropylene

Plastic Fittings

### Female Inserts

#### hose shank x female NPT

Hose Size	Female NPT	Nylon	
		Part #	Price/E
1/4"	1/4"	<b>TFS22</b>	<b>\$3.15</b>
1/4"	1/2"	<b>TFS42</b>	<b>3.30</b>
1/2"	1/2"	<b>TFS44</b>	<b>2.90</b>
3/4"	3/4"	<b>TFS66</b>	<b>3.65</b>





## Tuff-Lite

### Female Barbed Fittings



hose shank x female NPSM  
ball seat type

Hose Size	Female NPSM	Nylon	
		Part #	Price/E
1/4"	1/4"	<b>TF22</b>	<b>\$0.92</b>
3/8"	3/8"	<b>TF33</b>	<b>1.07</b>

### Short Shank Couplings

- Parts showing package quantities are sold in package quantities only.
- female shipped with a red vinyl washer (**TVW7**), replacement washers on page 340

#### nylon short shank couplings



Hose Shank	Thread Size	female		male		Pkg Qty
		Part #	Price/E	Part #	Price/E	
1/4"	3/4" NPSM	<b>TCF62</b>	<b>\$1.55</b>	<b>TN26</b>	<b>\$0.91</b>	50
3/8"	3/4" NPSM	<b>TCF63</b>	<b>1.55</b>	<b>TN36</b>	<b>1.08</b>	50
1/2"	3/4" NPSM	<b>TCF64</b>	<b>1.60</b>	<b>TN46</b>	<b>1.03</b>	50
5/8"	3/4" NPSM	<b>TCF65</b>	<b>1.60</b>	<b>TN56</b>	<b>1.10</b>	50
3/4"	3/4" NPSM	<b>TCF66</b>	<b>1.65</b>	<b>TN66</b>	<b>1.17</b>	50
1/4"	3/4" GHT	<b>TCF72</b>	<b>1.85</b>	<b>TCM72</b>	<b>0.94</b>	--
3/8"	3/4" GHT	<b>TCF73</b>	<b>1.85</b>	<b>TCM73</b>	<b>0.98</b>	--
1/2"	3/4" GHT	<b>TCF74</b>	<b>1.90</b>	<b>TCM74</b>	<b>1.03</b>	--
5/8"	3/4" GHT	<b>TCF75</b>	<b>1.90</b>	<b>TCM75</b>	<b>1.04</b>	--
3/4"	3/4" GHT	<b>TCF76</b>	<b>1.95</b>	<b>TCM76</b>	<b>1.04</b>	--

- female shipped with a red vinyl washer (**TVW7**), replacement washers on page 340

#### polypropylene short shank couplings



Hose Shank	Thread Size	female		male	
		Part #	Price/E	Part #	Price/E
1/4"	3/4" GHT	<b>PPCF72</b>	<b>\$1.69</b>	---	---
3/8"	3/4" GHT	<b>PPCF73</b>	<b>1.55</b>	<b>PPCM73</b>	<b>\$1.10</b>
1/2"	3/4" GHT	<b>PPCF74</b>	<b>1.57</b>	<b>PPCM74</b>	<b>1.11</b>
5/8"	3/4" GHT	<b>PPCF75</b>	<b>1.74</b>	<b>PPCM75</b>	<b>1.14</b>
3/4"	3/4" GHT	<b>PPCF76</b>	<b>1.75</b>	<b>PPCM76</b>	<b>1.18</b>

### Reducing Bushings



#### male NPT x female NPT

Male NPT	Female NPT	Nylon	
		Part #	Price/E
3/8"	1/4"	<b>THB32</b>	<b>\$1.80</b>
1/2"	1/4"	<b>THB42</b>	<b>1.75</b>
1/2"	3/8"	<b>THB43</b>	<b>1.75</b>
3/4"	1/2"	<b>THB64</b>	<b>2.05</b>
1"	3/4"	<b>THB86</b>	<b>2.90</b>

### Couplers

- Parts showing package quantities are sold in package quantities only.



#### female NPT x female NPT

Female NPT	Female NPT	Nylon		Pkg Qty
		Part #	Price/E	
1/2"	1/2"	<b>TA994</b>	<b>\$3.90</b>	25
3/4"	3/4"	<b>TA996</b>	<b>4.30</b>	25

## Tuff-Lite Male GHT x Female NPT Adapters

- Parts showing package quantities are sold in package quantities only.

### male GHT x female NPT

Female NPT	Nylon			Polypropylene		
	Part #	Price/E	Pkg Qty	Part #	Price/E	Pkg Qty
1/4"	<b>TA792</b>	<b>\$1.44</b>	50	<b>PPA792</b>	<b>\$2.93</b>	50
3/8"	<b>TA793</b>	<b>1.49</b>	50	---	---	--
1/2"	<b>TA794</b>	<b>1.51</b>	50	<b>PPA794</b>	<b>2.85</b>	50
3/4"	<b>TA796</b>	<b>1.60</b>	50	<b>PPA796</b>	<b>2.98</b>	25



nylon



polypropylene

## Female GHT x NPT Adapters

- Parts showing package quantities are sold in package quantities only.

### female GHT x male NPT

### female GHT x female NPT

Male NPT	Nylon			Female NPT	Nylon		
	Part #	Price/E	Pkg Qty		Part #	Price	Pkg Qty
1/4"	<b>TA972</b>	<b>\$1.46</b>	50	---	---	---	---
3/8"	<b>TA973</b>	<b>1.49</b>	50	---	---	---	---
1/2"	<b>TA974</b>	<b>1.53</b>	50	1/2"	<b>TA974F</b>	<b>\$3.90</b>	50
3/4"	<b>TA976</b>	<b>1.55</b>	50	3/4"	<b>TA976F</b>	<b>6.35</b>	50

**New  
for 2012**



nylon



Plastic  
Fittings

## Male GHT x Male NPT Adapters

- Parts showing package quantities are sold in package quantities only.

### male GHT x male NPT

Male NPT	Nylon			Polypropylene		
	Part #	Price/E	Pkg Qty	Part #	Price/E	Pkg Qty
1/4"	<b>TA772</b>	<b>\$0.95</b>	50	---	---	--
3/8"	<b>TA773</b>	<b>1.03</b>	50	<b>PPA773</b>	<b>\$1.15</b>	50
1/2"	<b>TA774</b>	<b>1.12</b>	50	<b>PPA774</b>	<b>1.14</b>	50
3/4"	<b>TA776</b>	<b>1.14</b>	50	<b>PPA776</b>	<b>1.14</b>	50
1"	<b>TA778</b>	<b>1.59</b>	25	---	---	--



nylon



polypropylene

## Male NPT x Female Swivel Adapters

- female shipped with a red vinyl washer (**TVW7**), replacement washers on page 340

### male NPT x female threaded swivel nut

Male NPT	Female Thread	Nylon	
		Part #	Price/E
1/4"	3/4" GHT	<b>TSA72</b>	<b>\$1.90</b>
3/8"	3/4" GHT	<b>TSA73</b>	<b>1.95</b>
1/4"	3/4" NPS	<b>TSA62</b>	<b>1.90</b>
3/8"	3/4" NPS	<b>TSA63</b>	<b>1.95</b>



## Nuts

### female threaded swivel nuts

Thread Size	Nylon	
	Part #	Price/E
3/4" NPS	<b>TCF6</b>	<b>\$0.65</b>
3/4" GHT	<b>TCF7</b>	<b>0.61</b>



**Tuff-Lite****Female NPT x 90° Hose Barb Elbows**

female NPT x 90° hose barb



Hose Size	Female NPT	Nylon	
		Part #	Price/E
1/2"	1/2"	<b>TLFS44</b>	<b>\$2.65</b>
1/2"	3/4"	<b>TLFS64</b>	<b>3.05</b>
3/4"	3/4"	<b>TLFS66</b>	<b>3.25</b>

**Male x 90° Hose Barb Elbows**

- Parts showing package quantities are sold in package quantities only.

**News  
for 2012**

male NPT x 90° hose barb

male GHT x 90° hose barb

Hose Size	Male NPT	Nylon			Pkg Qty	Nylon		
		Part #	Price/E	Price/E		Part #	Price/E	Pkg Qty
1/4"	1/8"	<b>TLS21</b>	<b>\$0.82</b>	50	---	---	---	
	1/4"	<b>TLS22</b>	<b>0.91</b>	50	---	---	---	
	3/8"	<b>TLS23</b>	<b>1.17</b>	50	---	---	---	
3/8"	1/8"	<b>TLS31</b>	<b>0.87</b>	50	---	---	---	
	1/4"	<b>TLS32</b>	<b>0.91</b>	50	---	---	---	
	3/8"	<b>TLS33</b>	<b>1.17</b>	50	---	---	---	
	1/2"	<b>TLS34</b>	<b>1.36</b>	50	---	---	---	
	3/4"	<b>TLS36</b>	<b>1.46</b>	50	<b>TLS37</b>	<b>\$2.80</b>	50	
1/2"	1/4"	<b>TLS42</b>	<b>1.17</b>	50	---	---	---	
	3/8"	<b>TLS43</b>	<b>1.17</b>	50	---	---	---	
	1/2"	<b>TLS44</b>	<b>1.36</b>	50	---	---	---	
	3/4"	<b>TLS46</b>	<b>1.46</b>	25	<b>TLS47</b>	<b>2.35</b>	50	
5/8"	1"	<b>TLS48</b>	<b>1.90</b>	25	---	---	---	
	3/8"	<b>TLS53</b>	<b>1.36</b>	25	---	---	---	
	1/2"	<b>TLS54</b>	<b>1.46</b>	25	---	---	---	
	3/4"	<b>TLS56</b>	<b>1.55</b>	25	<b>TLS57</b>	<b>2.90</b>	50	
3/4"	1"	<b>TLS58</b>	<b>1.64</b>	25	---	---	---	
	3/8"	<b>TLS63</b>	<b>1.64</b>	25	---	---	---	
	1/2"	<b>TLS64</b>	<b>1.55</b>	25	---	---	---	
	3/4"	<b>TLS66</b>	<b>1.64</b>	25	<b>TLS67</b>	<b>3.45</b>	50	
1"	1"	<b>TLS68</b>	<b>1.72</b>	15	---	---	---	
	3/4"	<b>TLS86</b>	<b>1.64</b>	15	---	---	---	
	1"	<b>TLS88</b>	<b>2.61</b>	15	---	---	50	

**Street Elbows**

female NPT x 90° male NPT



Female NPT	Male NPT	Nylon	
		Part #	Price/E
1/4"	1/4"	<b>TSE22</b>	<b>\$3.70</b>
1/2"	1/2"	<b>TSE44</b>	<b>3.55</b>
3/4"	3/4"	<b>TSE66</b>	<b>4.85</b>

**GHT x Male NPT Elbows**

- Parts showing package quantities are sold in package quantities only.

male NPT x male GHT



Male NPT	Nylon		Pkg Qty
	Part #	Price/E	
3/8"	<b>TLT73</b>	<b>\$1.66</b>	25
1/2"	<b>TLT74</b>	<b>1.60</b>	25
3/4"	<b>TLT76</b>	<b>1.66</b>	25



## Tuff-Lite Hose x Hose Elbows

- Parts showing package quantities are sold in package quantities only.

### hose barb x 90° hose barb

Hose Shank	Nylon		Pkg Qty	Polypropylene		Pkg Qty
	Part #	Price/E		Part #	Price/E	
1/4"	<b>TLSS22</b>	<b>\$1.17</b>	50	<b>PPLSS22</b>	<b>\$1.25</b>	50
3/8"	<b>TLSS33</b>	<b>1.21</b>	50	<b>PPLSS33</b>	<b>1.25</b>	50
1/2"	<b>TLSS44</b>	<b>1.35</b>	50	<b>PPLSS44</b>	<b>1.25</b>	50
3/4"	<b>TLSS66</b>	<b>1.42</b>	50	<b>PPLSS66</b>	<b>1.54</b>	50



nylon



polypropylene

## Hose x Male NPT Tees

- Parts showing package quantities are sold in package quantities only.

### hose run x male NPT branch

Hose Size	Male NPT	Nylon		Pkg Qty
		Part #	Price/E	
1/4"	1/4"	<b>TSST222</b>	<b>\$1.23</b>	50
3/8"	3/8"	<b>TSST333</b>	<b>1.35</b>	50
1/2"	1/2"	<b>TSST444</b>	<b>1.52</b>	50
3/4"	3/4"	<b>TSST666</b>	<b>1.68</b>	25



Plastic Fittings

## Hose x Hose Tees

- Parts showing package quantities are sold in package quantities only.

### hose run x hose branch

Hose Size	Nylon		Pkg Qty
	Part #	Price/E	
1/4"	<b>TSSS222</b>	<b>\$1.17</b>	50
3/8"	<b>TSSS333</b>	<b>1.21</b>	50
1/2"	<b>TSSS444</b>	<b>1.35</b>	50
3/4"	<b>TSSS666</b>	<b>1.42</b>	25



## Menders

- Parts showing package quantities are sold in package quantities only.

### hose shank x hose shank

Hose Size	Nylon		Pkg Qty	Polypropylene		Pkg Qty
	Part #	Price/E		Part #	Price/E	
1/4"	<b>TM2</b>	<b>\$0.80</b>	50	<b>PPM2</b>	<b>\$0.76</b>	50
5/16"	<b>TM25</b>	<b>0.82</b>	50	---	---	---
3/8"	<b>TM3</b>	<b>0.84</b>	50	<b>PPM3</b>	<b>0.78</b>	50
1/2"	<b>TM4</b>	<b>1.10</b>	50	<b>PPM4</b>	<b>0.91</b>	50
5/8"	<b>TM5</b>	<b>1.48</b>	50	<b>PPM5</b>	<b>1.00</b>	50
3/4"	<b>TM6</b>	<b>1.48</b>	50	<b>PPM6</b>	<b>1.18</b>	50
1"	<b>TM8</b>	<b>1.82</b>	25	<b>PPM8</b>	<b>1.47</b>	50



nylon



polypropylene

## Tuff-Lite

### Washers for Garden Hose Fittings



red vinyl



white rubber

- Parts showing package quantities are sold in package quantities only.

Description	Part #	Price/E	Opt Qty
red vinyl	<b>TVW7</b>	<b>\$0.10</b>	100
white styrene butadiene rubber	<b>TRW7</b>	<b>0.25</b>	100

### Close Nipples

- Parts showing package quantities are sold in package quantities only.



#### male NPT x male NPT

NPT Size	Nylon		Pkg Qty
	Part #	Price/E	
1/4"	<b>TCN202</b>	<b>\$0.72</b>	50
3/8"	<b>TCN303</b>	<b>0.81</b>	50
1/2"	<b>TCN404</b>	<b>0.93</b>	50
3/4"	<b>TCN606</b>	<b>1.10</b>	50

### Threaded Caps

- Parts showing package quantities are sold in package quantities only.



#### female NPT

Thread Size	Nylon		Pkg Qty
	Part #	Price/E	
1/4" NPT	<b>TTC2</b>	<b>\$0.47</b>	50
3/8" NPT	<b>TTC3</b>	<b>0.57</b>	50
1/2" NPT	<b>TTC4</b>	<b>0.71</b>	50
3/4" NPT	<b>TTC6</b>	<b>0.80</b>	50
3/4" GHT	<b>TTC7</b>	<b>0.80</b>	50

### Square Head Drain Plugs

- Parts showing package quantities are sold in package quantities only.



#### male NPT

Male NPT	Nylon		Pkg Qty
	Part #	Price/E	
1/8"	<b>TPS1</b>	<b>\$0.55</b>	50
1/4"	<b>TPS2</b>	<b>0.57</b>	50
3/8"	<b>TPS3</b>	<b>0.68</b>	50
1/2"	<b>TPS4</b>	<b>0.76</b>	50
3/4"	<b>TPS6</b>	<b>0.90</b>	50
1"	<b>TPS8</b>	<b>1.12</b>	50
1 1/4"	<b>TPS10</b>	<b>1.67</b>	25

### Hex Head Drain Plugs

- Parts showing package quantities are sold in package quantities only.



#### male NPT

Male NPT	Nylon		Pkg Qty
	Part #	Price/E	
1/8"	<b>TPX1</b>	<b>\$0.64</b>	50
1/4"	<b>TPX2</b>	<b>0.68</b>	50
3/8"	<b>TPX3</b>	<b>0.71</b>	50
1/2"	<b>TPX4</b>	<b>0.82</b>	50
3/4"	<b>TPX6</b>	<b>0.96</b>	50
1"	<b>TPX8</b>	<b>1.17</b>	50
1 1/4"	<b>TPX10</b>	<b>1.55</b>	50



Plastic Fittings

## Tuff-Lite

### Push-On Male Inserts

- Parts showing package quantities are sold in package quantities only.
- No clamps are needed when these fittings are used with push-on hose.

#### push-on hose shank x male NPT

Hose Size	Male NPT	Nylon		Pkg Qty
		Part #	Price/E	
1/4"	1/8"	<b>TPN21</b>	<b>\$0.70</b>	50
	1/4"	<b>TPN22</b>	<b>0.72</b>	50
	3/8"	<b>TPN23</b>	<b>0.78</b>	50
3/8"	1/4"	<b>TPN32</b>	<b>0.74</b>	50
	3/8"	<b>TPN33</b>	<b>0.79</b>	50
	1/2"	<b>TPN34</b>	<b>0.93</b>	50
1/2"	3/8"	<b>TPN43</b>	<b>1.15</b>	50
	1/2"	<b>TPN44</b>	<b>1.15</b>	50
	3/4"	<b>TPN46</b>	<b>1.10</b>	50



### Push-On Female Inserts

- Parts showing package quantities are sold in package quantities only.
- No clamps are needed when these fittings are used with push-on hose.

#### push-on hose shank x female NPT

Hose Size	Female NPT	Nylon		Pkg Qty
		Part #	Price/E	
1/4"	1/4"	<b>TPF22</b>	<b>\$1.02</b>	50
3/8"	1/4"	<b>TPF32</b>	<b>1.26</b>	50
	3/8"	<b>TPF33</b>	<b>1.26</b>	50
1/2"	3/8"	<b>TPF43</b>	<b>1.13</b>	50
	1/2"	<b>TPF44</b>	<b>1.32</b>	50



### Push-On Menders

- Parts showing package quantities are sold in package quantities only.
- No clamps are needed when these fittings are used with push-on hose.

#### push-on hose shank x push-on hose shank

Hose Size	Nylon		Pkg Qty
	Part #	Price/E	
1/4"	<b>TPM2</b>	<b>\$0.65</b>	50
3/8"	<b>TPM3</b>	<b>0.71</b>	50
1/2"	<b>TPM4</b>	<b>0.87</b>	50

