



Nipples Technical  
**Materials & Styles of Nipples**

**PVC, CPVC & PE Nipples**

PVC/CPVC/PE Nipples furnished may be produced from extruded stock, or from molding grade PVC/CPVC compounds. Both processes provide quality products meeting ASTM requirements. Spears® thermoplastic nipples are produced in a variety of styles, several of which are illustrated below. These are referred to as Plain (no threads), TOE (Threaded One End), TBE (Threaded Both Ends), Grooved (which can be Plain x Groove, Groove x Thread, & Groove x Groove). Special varieties of Polyethylene Nipples include Cut-off, Four-In-One Cut-off and Four-In-One Cut-off Reducing.



Plain x Groove



TOE (Threaded One End)



PE Riser Extension Cut-Off Nipple



Groove x Thread



Plain



PE Cut-Off Nipple



Groove x Groove



TBE (Threaded Both Ends)



PE Four-In-One Cut-Off Nipple

Close Nipples are simply two (2) threads back to back. Short Nipples is a term commonly used to designate a slightly longer nipple that is usually the smallest length above "close." The following table shows length of Close and Short nipples:

**Length of Close & Short Nipples**

| Size         | 1/8"  | 1/4"  | 3/8"  | 1/2"  | 3/4"  | 1"    | 1-1/4" | 1-1/2" | 2"    | 2-1/2" | 3"    | 4"    | 6"    | 8"    | 10"   | 12"   |
|--------------|-------|-------|-------|-------|-------|-------|--------|--------|-------|--------|-------|-------|-------|-------|-------|-------|
| <b>Close</b> | 3/4   | 7/8   | 1     | 1-1/8 | 1-3/8 | 1-1/2 | 1-5/8  | 1-3/4  | 2     | 2-1/2  | 2-5/8 | 2-7/8 | 3-3/4 | 3-5/8 | 4     | 4-3/8 |
| <b>Short</b> | 1-1/2 | 1-1/2 | 1-1/2 | 1-1/2 | 1-1/2 | 2     | 2      | 2      | 2-1/2 | 3      | 3     | 3-1/2 | 4-1/2 | 4-1/2 | 4-1/2 | 5     |