

Rev. 10-15 Shaded area indicates changes

**Mueller Drilling and Tapping Machine equipment required to install corporation valves having Mueller 110® Compression Connection outlet**

| Valve size (nominal) (If two numbers: Inlet x Outlet)                         |                 | 1/2"   | 3/4"   |        | 3/4"x1" |        | 1"     |        | 1-1/2"   | 2"        |
|-------------------------------------------------------------------------------|-----------------|--------|--------|--------|---------|--------|--------|--------|----------|-----------|
| Combined drill and tap size - see section 1 for part numbers                  |                 | CTS    | CTS    | IPS PE | CTS     | IPS PE | CTS    | IPS PE | CTS      | CTS       |
| B-101/B-100 inserting tool                                                    |                 | 1/2"   | 3/4"   |        |         |        | 1"     |        | 1-1/2"   | 2"        |
| A-3 inserting tool                                                            |                 | 680598 | 680600 | 680688 | 680601  | 680689 | 680601 | 680689 | -        | -         |
| Maximum allowable size drill or shell cutter - see section 2 for part numbers | AWWA I.P.       | 7/16"  | 11/16" | 11/16" | 11/16"  | 11/16" | 7/8"   | 7/8"   | 1-7/16** | 1-3/4**   |
|                                                                               | CC (AWWA taper) | 7/16"  | 11/16" | 11/16" | 11/16"  | 11/16" | 15/16" | 15/16" | 1-7/16** | 1-15/16** |
| Mega-Cut™/E-5 machine adapter nipple                                          |                 | 63796  | 52019  | 508919 | 36750   | 508920 | 36750  | 508920 | 501949   | 508199    |
| D-5 machine adapter nipple                                                    |                 | 37900  | 37902  | 508917 | 37903   | 508918 | 37903  | 508918 | 597644   | 507645    |
| Tru-Cut/PL-2 machine adapter nipple for use on 1.125" max. wall PVC           |                 | -      | 507632 | 509050 | 507633  | 509051 | 507633 | 509051 | -        | -         |

\*Ball and ORI-CORP® Corporation valves IP and CC inlet: 1-7/8" maximum.

**Tubing, pipe and liners used with Mueller 110 Compression Connection**

| Nominal size of connection | Material*       | Tubing or pipe O.D. range - inches | Tubing or pipe wall thickness range - inches | Tubing or pipe I.D. range - inches | Liner part number |
|----------------------------|-----------------|------------------------------------|----------------------------------------------|------------------------------------|-------------------|
| 1/2" CTS                   | Type "K" copper | 0.622 - 0.628                      | 0.045 - 0.053                                | -                                  | -                 |
| 3/4" CTS                   | Type "K" copper | 0.872 - 0.878                      | 0.061 - 0.069                                | -                                  | -                 |
|                            | Polyethylene    | 0.871 - 0.879                      | 0.097 - 0.107                                | 0.657 - 0.685                      | 504281            |
| 1" CTS                     | Type "K" copper | 1.121 - 1.129                      | 0.061 - 0.069                                | -                                  | -                 |
|                            | Polyethylene    | 1.120 - 1.130                      | 0.125 - 0.137                                | 0.846 - 0.880                      | 504385            |
| 1-1/4" CTS                 | Type "K" copper | 1.371 - 1.379                      | 0.060 - 0.070                                | -                                  | -                 |
|                            | Polyethylene    | 1.370 - 1.380                      | 0.153 - 0.168                                | 1.034 - 1.074                      | 505142            |
| 1-1/2" CTS                 | Type "K" copper | 1.621 - 1.630                      | 0.067 - 0.077                                | -                                  | -                 |
|                            | Polyethylene    | 1.619 - 1.631                      | 0.181 - 0.199                                | 1.221 - 1.269                      | 506139            |
| 2" CTS                     | Type "K" copper | 2.120 - 2.130                      | 0.076 - 0.090                                | -                                  | -                 |
|                            | Polyethylene    | 2.119 - 2.131                      | 0.236 - 0.260                                | 1.599 - 1.659                      | 506141            |
| 3/4" IPS                   | Polyethylene    | 1.045 - 1.110                      | 0.118 - 0.138                                | 0.809 - 0.834                      | 505141            |
| 1" IPS                     | Polyethylene    | 1.329 - 1.399                      | 0.150 - 0.170                                | 1.029 - 1.059                      | 505142            |

\*Type "K" soft copper tubing per ASTM B88; CTS polyethylene (PE) per ASTM D-2737 - SDR-9; IPS polyethylene (PE) per ASTM D-2239 - PE SDR-7; IPS polyvinylchloride (PVC) per ASTM D1785



Liner

**Mueller 110 Compression Connection replacement parts**

| Size        | Kit    | Gasket part number† | Connection nut |
|-------------|--------|---------------------|----------------|
| 1/2" CTS    |        | 681516              | 147542         |
| 3/4" CTS    | 682600 | 581949              | 507831         |
| 1" CTS      | 682601 | 581951              | 507835         |
| 1-1/2" CTS  | 682602 | 581955              | 507847         |
| 2" CTS      | 682603 | 581957              | 507851         |
| 3/4" IPS PE | -      | 89599               | 508826         |
| 1" IPS PE   | -      | 89788               | 508827         |

†Gasket and gripper band assembly



Gasket



Nut

**Corporation Valve Wrench**


H-10048

For operating up to and including 1" corporation valves.