

**APPROVED MATERIALS LIST  
LONGMONT POWER & COMMUNICATIONS  
January 2019**

All materials shall meet the requirements of the City's Design Standards and Construction Specifications.

**Specification for Meter Housings 200 Amps or less Single-Phase**

1. General

- 1.1. Description: Socket, Meter, 5 Terminal, 200 Amp, Continuous Duty Bypass required
- 1.2. Unit of Measure: Each
- 1.3. Use: Mounting watt-hour meters for residential and commercial revenue metering
- 1.4. Recommended dimensions for individual meter sockets used in underground installations shall be: up to 200 amp – 19" height by 13" width

2. Standards

- 2.1. All sockets shall have a lever-operated bypass and shall be constructed in accordance with and conform to the following ANSI (American National Standards Institute) publications.
- 2.2. Meter socket bypass lever shall be constructed of metal.
- 2.3. Two piece lids are not allowed unless combination meter main equipment is being used.
- 2.4. Meter sockets shall have ringless style covers with latch capable of accommodating City seal and lock mechanism.
- 2.5. Meter sockets shall be suitable for outdoor installation, i.e. weatherproof (NEMA 3R,IP,14, or equivalent)

3. Construction

- 3.1. Meter sockets shall be constructed of galvanized steel, 16-gauge minimum. Non-metallic or aluminum enclosures are not acceptable
- 3.2. Cover shall be of the one piece ringless type, equipped with a suitable device for closing and sealing with padlock type seals.
- 3.3. Finish shall be bonderized with light neutral gray baked enamel.
- 3.4. Knockout for load carrying cable shall be concentric type.
- 3.5. The general construction of the socket shall provide protection to personnel against accidental contact with energized elements of the meter and socket; and shall provide protection to the electrical components against adverse environmental weather conditions.
- 3.6. All three wire sockets, both single-phase and network, shall have a fifth jaw installed at the 9 o'clock position.

4. Electrical

- 4.1. The neutral terminal shall be electrically bonded to the enclosure by means of a bolted or riveted connection. A bonding jumper in the form of a separate screw, strap, or other means shall bond the enclosure to the grounded (neutral) conductor using a #4 AWG copper jumper.

The following are pre-approved products:  
Milbank part number: Z911531-AC  
Durham part number: ARPO I074  
Landis and Gyr #HQ Block, part number: 64 560-1

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**Specifications for 320 Class, NEMA 3R, IP, 14 or Equivalent Meter Housing**

- 400 amp K-Base meter housings are not acceptable

1. General

- 1.1. Socket, Meter, Self-Contained, 120/240 or 120/208 volt, single-phase, rated for up to 320 amps (continuous duty) shall have jaw-clamping, lever-operated bypass mechanism that can operate as a continuous duty bypass device.
- 1.2. 320 class meter sockets shall be equipped with anti-inversion clips that prevent normal width terminal blades from being installed in a 320 class socket. All three wire sockets, both single-phase and network, shall have a fifth terminal installed at the 9 o'clock position.
- 1.3. Two piece lids are not allowed, unless combination meter main equipment is being used. Recommended dimensions for individual meter sockets used in underground installations shall be:
  - 320 amp – 26.5" height by 13" width

2. Standards

- 2.1. Meter sockets should be constructed of galvanized steel, 16-gauge minimum. Non-metallic or aluminum enclosures are not acceptable.
- 2.2. Meter sockets shall be suitable for outdoor installation, i.e. weatherproof (NEMA 3R, IP, 14, or equivalent).
- 2.3. 320 class meter sockets shall be equipped with anti-inversion clips that prevent normal width terminal blades from being installed in a 320 socket.
- 2.4. ANSI C12.7 American National Standard Requirements for Watt-hour Meter Sockets dated 1993 or latest revision.

3. Construction

- 3.1. Sockets shall be constructed of 16 gauge (minimum) galvanized sheet steel.
- 3.2. Cover shall be equipped with a suitable device for closing and sealing with padlock type seals.
- 3.3. Finish shall be bonderized with light neutral gray baked enamel.
- 3.4. Knockout for load carrying cable shall be concentric type.
- 3.5. The general construction of the socket shall provide protection to personnel against accidental contact with energized elements of the meter and socket; and shall provide protection to the electrical components against adverse environmental weather conditions.

4. Electrical

- 4.1. The neutral terminal shall be electrically bonded to the enclosure by means of a bolted or riveted connection.