

8.09 SEALS

The Company will seal all meters and points of access to the wiring, ahead of the meter. All cabinets, switchboxes, terminal boxes, etc., either inside or outside the building, which contain unmetered wires, shall be made sealable by the Customer before service will be supplied. Where equipment is not arranged for sealing, 1/8" diameter holes shall be provided by the Customer for sealing purposes. All service entrance conduit fittings used outside the building ahead of the meter shall have non-removable covers. All such fittings used inside the building ahead of the meter, if not of the non-removable cover-type, shall be drilled for sealing. The Company prohibits the **breaking** of Company seals by unauthorized persons, or tampering with meters or with any wiring equipment located ahead of the meter.

9.0 METER SOCKETS

9.01 GENERAL

A self-contained meter socket will be used for single-phase and 3-phase electric service not exceeding 320 amperes at service voltages less than 600 volts. All meter sockets shall be of the ring-less type and conform to Section 9.05 METER SOCKET SPECIFICATIONS.

A self-contained meter socket shall be an outdoor-type, weatherproof construction, Underwriter's Laboratories (UL) listed, suitable for overhead or underground installation and plug-in type meter. The enclosure shall be a minimum of 16-gauge galvanized or zinc coated steel or 14-gauge aluminum with painted finish. Provision shall be made for sealing by wire and padlock.

Meter sockets shall be securely mounted in a true vertical position on a wall or other support with a minimum of four (4) corner fasteners. For non-masonry structures, meter sockets shall be secured to bracing installed between exterior wall studs with 1/4" lag screws (or No. 12 sheet metal screws) embedded 1-1/2" into the wood. Where secured to brick or other masonry, 1/4" lag screws (or No. 12 sheet metal screws) with lead anchor shields embedded 1-1/2" into the masonry shall be used. For manufactured homes (HUD approved) mounted on a permanent foundation, meter sockets shall be mounted to the exterior wall studs using the center hole positions in the socket. Meter sockets and service conduits **shall not** be recessed into the wall. All cable or conduit connections on the top of the meter socket shall be rain tight. The socket shall be mounted so that the top of the socket is between 5'-6" and 4'-0" above the finished grade.

9.02 COMPANY-FURNISHED METER SOCKETS

The Company will furnish meter sockets for the following:
(See Section 9.03 for Customer-furnished meter sockets)

- (a) Transformer-rated meters.
- (b) Meter sockets mounted on 3-phase, pad-mounted transformers.
- (c) Meter sockets **shall not** be installed on single-phase, pad-mounted transformers.
- (d) **WEST VIRGINIA ONLY:** All self-contained, single-position meter sockets will be furnished by the Company and installed by the Customer. The Customer shall obtain the Company's approval, prior to purchase, for installation of other than Company-supplied meter sockets.

WEST VIRGINIA ONLY: METER SOCKETS SUPPLIED BY ALLEGHENY POWER				
Company Stock No.	Cont. Ampacity	Phase	Approx. Size*	Description
188319	100	1	8" X 10.5"	For overhead 250kcmil lugs
188320	200	1	11" X 14"	For overhead 350kcmil lugs
188317	200	1	13" X 15.5"	For underground use only (350kcmil)
188322	320	1	15" X 30"	For overhead and underground 3/8" studs
188008	200	3	12" X 19"	For overhead 350kcmil lugs
188106	320	3	18" X 33"	For overhead and underground 3/8" studs

* Consult Company for actual size.

9.03 CUSTOMER-FURNISHED METER SOCKETS

The Customer will furnish meter sockets for the following: (See Section 9.02 for Company-furnished meter sockets and Section 9.05 for meter socket specifications).

- All self-contained sockets for 100, 200 and 320 ampere, single-phase, 120/240 volt service. Also, all self-contained sockets for 100 and 200 ampere, single-phase, network, 120/208 volt service, only where 120/208 volt is available.
- All self-contained sockets for 200 and 320 ampere, 3-phase, 4-wire, 240/120 volt delta, 208/120 volt wye and 480/277 volt wye services.
- All 2, 4 or 6 position multi-gang meter sockets, factory assembled multi-meter centers, mobile home pedestals and other special locations requiring 120/240 volt and 120/208 volt, single-phase, 3-wire service.
- WEST VIRGINIA ONLY -- See Section 9.02 (d).

9.04 METER SOCKET REPAIRS/REPLACEMENTS

Customers are responsible for the maintenance and replacement of their meter sockets, except those listed in Section 9.02. In the event of a failure, damage or the replacement of the socket due to rewiring, the Customer shall engage an electrical contractor to have this work performed.

WEST VIRGINIA ONLY: In the event of failure of a Company-owned standard meter socket, the Company will repair the socket or provide a replacement for the failed meter socket. The Customer is responsible for the installation of the replacement meter socket. If the Customer's service entrance conductors require replacement, the Company will furnish a replacement socket to the Customer for installation by the Customer's electrical contractor.

9.05 METER SOCKET SPECIFICATIONS

Single-phase, 3-wire 120/240 volt meter sockets

General: 4-terminal, ring-less, UL label, socket suitable for plug-in meter. For 120/208 volt (network), meter sockets require a fifth terminal (jaw) in the 9 o'clock position. Requirements for approximate physical dimensions do not apply to multi-position sockets. Number of concentric knockouts may be increased on multi-position sockets.

100 Ampere Continuous (Overhead Service)

- Line and load lugs: lay-in for #2 AL or CU.
- Neutral: double lay-in for #2 AL or CU.
- By-pass: horn-type
- Approximate physical dimensions: 8.0"W X 10.5"H X 3.5"D minimum.
- Raised hub opening in the top with provisions for interchangeable gasket-less conduit hubs or closure plate.

200 Ampere Continuous (Overhead Service)

- Line and load lugs: lay-in for up to 350kcmil AL or CU.
- Neutral: double lay-in for up to 350kcmil AL or CU.
- By-pass: horn-type.
- Approximate physical dimensions: 11.0"W X 14.0"H X 4.5"D minimum.
- Raised hub opening in the top with provisions for interchangeable gasket-less conduit hubs or closure plate.

200 Ampere Continuous (Underground Service)

- Line and load lugs: lay-in for up to 350kcmil AL or CU. Line terminals to be offset (bussed) to side.
- Neutral: double lay-in for up to 350kcmil AL or CU offset (bussed) to side.
- By-pass: horn-type.
- Approximate physical dimensions: 13"W X 15.5"H X 5"D minimum.
- Knockouts: two sets of concentric knockouts in bottom plate for 3" conduit.

320 Ampere Continuous (Overhead/Underground Service)

- Line and load: 3/8" stud with belleville washer and nut to accommodate Al/Cu terminal lugs. Line terminals to be offset (bussed) to side.
- Neutral: two 3/8" studs, same as line and load.
- By-pass: lever arm by-pass with jaw tension release.
- Approximate physical dimensions 15.0"W X 29" H X 5.0"D minimum.

- (5) Knockouts: two sets of concentric knockouts in bottom plate for 3" conduit.
- (6) Raised hub opening in the top with provisions for interchangeable gasket-less conduit hubs or closure plate.
- (7) Socket shall be able to accept either a 200 or 320 ampere meter.

Three-phase, 4-wire, 240/120 volt delta, 208/120 volt wye and 480/277 volt wye meter sockets

General: 7-terminal, ring-less, UL label, socket suitable for plug-in meter. Meter socket shall have a transparent, crack resistant safety shield to provide protection from shorts and shock. Requirements for approximate physical dimensions do not apply to multi-position sockets. Number of concentric knockouts may be increased on multi-position sockets.

200 Ampere Continuous (Overhead Service)

- (1) Line and load lugs: lay-in for up to 350kcmil AL or CU.
- (2) Neutral: double lay-in for up to 350kcmil AL or CU.
- (3) By-pass: lever arm by-pass with jaw tension release.
- (4) Raised hub opening in the top with provisions for interchangeable gasket-less 3" conduit hubs or closure plate.
- (5) Approximate physical dimensions: 12.0"W X 19.0"H X 5.0"D minimum.
- (6) Knockouts: two sets of concentric knockouts in bottom plate for 3" conduit.

320 Ampere Continuous (Overhead/Underground)

- 1) Line and load: 3/8" stud with belleville washer and nut to accommodate Al/Cu terminal lugs. Line terminals to be offset (bussed) to side.
- 2) Neutral: two 3/8" studs, same as line and load.
- 3) By-pass: lever arm by-pass with jaw tension release.
- 4) Approximate physical dimensions 18.0"W X 33.0" H X 6.0"D minimum.
- 5) Knockouts: two sets of concentric knockouts in bottom plate for 4" conduit.
- 6) Raised hub opening in the top with provisions for interchangeable gasket-less conduit hubs or closure plate.
- 7) Socket shall be able to accept either a 200 or 320 ampere meter.