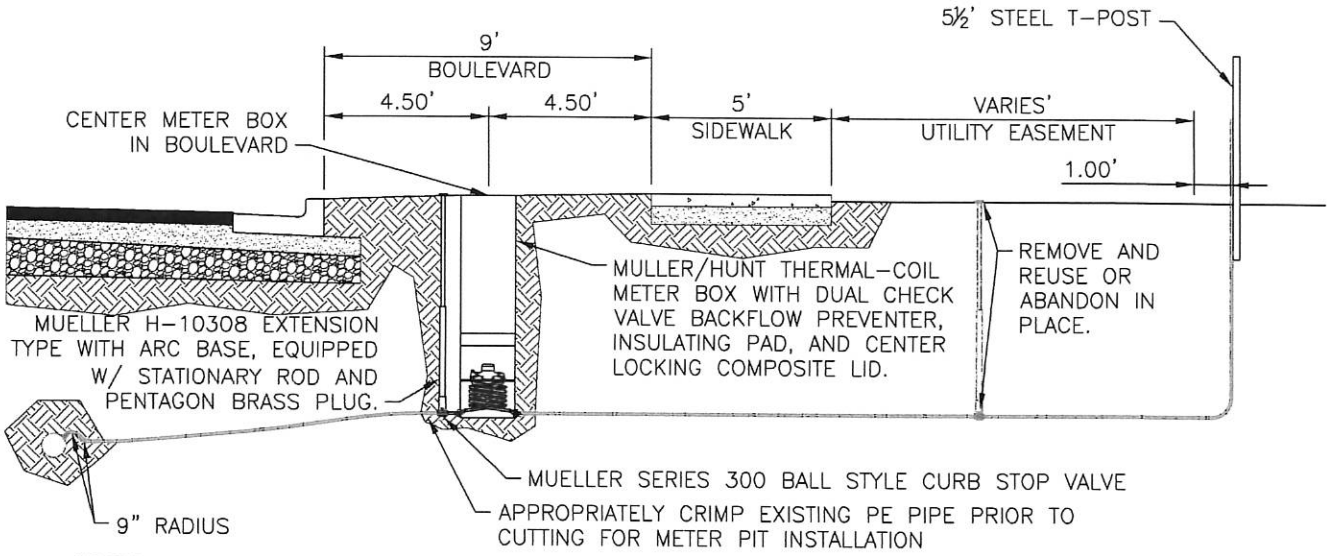
City of Kalispell
Post Office Box 1997 - Kalispell, Montana 59903
Telephone: (406) 758-7701 Fax: (406) 758-7758

NOTICE TO CONTRACTORS

In conformance with the City of Kalispell's most recent Standards for Design and Construction adopted April 6, 2015 all new construction and reconstruction require the installation of a water meter pit or vault.

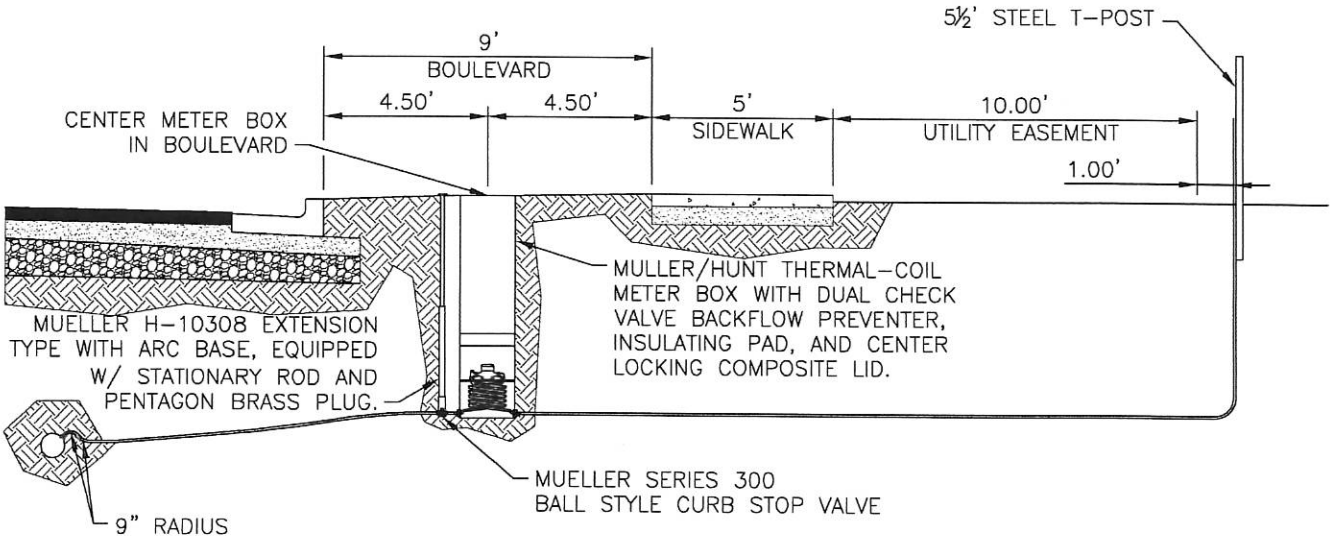
- Meter Pit must be an approved pit or vault (see attached)
- Meter Pit to be installed between curb and boulevard
- Curb stop to be installed ahead of meter pit (remove and reuse or abandon in place any existing curb stop).
- **Meter pit must be inspected prior to backfill.** Call 758-7720 for inspection (24 hour notice required). A City of Kalispell employee can install the water meter at time of inspection with verification that an account for water service has been completed.
- No other plumbing connections or branches between the City's meter pit and water main.
- If installing an underground irrigation system on the service, at minimum, a PVB backflow device must be installed on the service line to the irrigation system in accordance with the Uniform Plumbing Code.
- A flexible sleeve is advised for any water service going through a cement slab or wall.



NOTES:

1. ¾" AND 1" SERVICES SHALL BE MUELLER THERMAL-COIL METER BOX. 1½" AND 2" SERVICES SHALL BE MUELLER EZ VAULT.
2. IF CONTRACTOR DOESN'T OWN A CRIMPER APPROPRIATE FOR PE SERVICE LINES, PLEASE COORDINATE WITH PUBLIC WORKS TO CRIMP THE SERVICE.
3. WATER METER DEPARTMENT SHALL INSPECT CONNECTIONS TO METER PIT PRIOR TO BACKFILL.
4. CONTRACTOR SHALL TAKE CARE DURING BACKFILL TO COMPACT EVENLY AROUND METER PIT TO AVOID OVALLING THE METER PIT.
5. METER PITS IN DRIVEWAYS AND OTHER VEHICULAR SURFACES SHALL INCLUDE A LID FRAME.

W.1 EXISTING STUB-OUT METER PIT DETAIL WITH CURB STOP OUTSIDE OF CITY RIGHT OF WAY



NOTES:

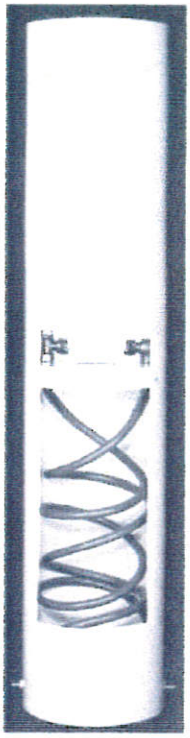
1. ¾" – 2" SERVICES SHALL BE INSTALLED WITH BR2 SERIES SERVICE SADDLES AND PE SERVICE LINE.
2. 4" AND LARGER SERVICES SHALL BE INSTALLED WITH A ROMAC SSTIII STAINLESS STEEL TAPING SLEEVE AND CLASS 150 PVC SERVICE LINE.
3. WATER METER DEPARTMENT SHALL INSPECT CONNECTIONS TO METER PIT PRIOR TO BACKFILL.
4. CONTRACTOR SHALL TAKE CARE DURING BACKFILL TO COMPACT EVENLY AROUND METER PIT TO AVOID OVALLING THE METER PIT.
5. METER PITS IN DRIVEWAYS AND OTHER VEHICULAR SURFACES SHALL INCLUDE A LID FRAME.

W.2 NEW WATER SERVICE CONNECTION DETAIL

MUELLER® THERMAL-COIL® METER BOX

Mueller Co. **8F.1**

Shaded area indicates change Rev. 4-14



The MUELLER THERMAL-COIL Meter Box provides a means to allow a meter to be read and maintained even though it is set deep in the ground to resist freezing. The THERMAL-COIL Meter Box is designed with the meter installed on a platform that normally sets near the bottom of the box where the ground temperature keeps it warmer. The meter and platform are connected to the service line by coils of polybutylene tubing which allow the meter and platform to be raised to the surface.

The body of the meter box is made from rigid PVC which has a high insulating "R" value to resist frost bridging" inside the box. For extremely cold climates, an optional insulating pad is available which traps the relatively warm air rising from the earth inside the box.

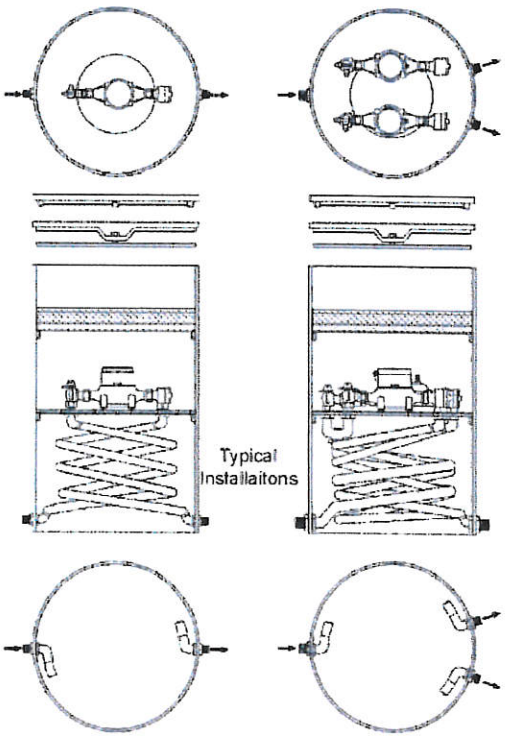
MUELLER THERMAL-COIL Meter Boxes are shipped fully assembled, ready for meter installation. Their light weight saves shipping costs and makes installation a one man job in most cases. Every box is factory tested and has a 150 psig maximum working pressure rating.

MUELLER THERMAL-COIL Meter Boxes are available for 5/8" to 1" meters. A wide variety of end connections, control valves, box depths, lids and other options provide you with the meter set you need. Due to the almost endless combination of features available, each box is custom built to your specifications. See page 8F.2 for options and ordering instructions.

Manufactured under one or more of the following: U.S. Patent No. 4,614,113; 4,813,281

MUELLER THERMAL-COIL Meter Box Features

- Rigid .300 minimum wall PVC material holds shape and resists frost bridging
- Optional insulation pad traps earth's heat to prevent freezing in extremely cold climates
- White interior aids visibility
- Meter set is anchored to moveable platform to maintain alignment and stability
- Platform support and reinforcing ring add rigidity to box
- Poly coil tubing provides low friction loss equivalent to a typical conventional meter set of the same size and depth
- Male I.P. thread inlet and outlet connections accept a variety of MUELLER Service Fittings–see section 6
- Optional aluminum bottom available
- Large selection of optional lids



MUELLER Valves and Couplings used in these meter box assemblies are manufactured and tested in accordance with ANSI/AWWA C800. Components in contact with potable water will also comply with latest requirements of the Federal Safe Drinking Water Act.

8F.2 Mueller Co. MUELLER® THERMAL-COIL® METER BOX

Rev. 4-14 Shaded area indicates change

MUELLER THERMAL-COIL Meter Box ordering instructions

To order a MUELLER THERMAL - COIL Meter Box, simply choose the options you require from the eight categories listed below and place the option code on the appropriate line of the catalog number shown below. If the box you need is a tandem type, please fill out the tandem information box shown below the options listing and contact the factory for price and delivery information. Phone 1-800-423-1323 or fax 1-217-425-7537.

Catalog Number

(1)_____ (2)CS (3)_____ (4)72 (5)F (6)S (7)_____ (8)L (9)N

Options

1 Meter size NOTE: Meter is **not** furnished. Order meter separately.

Meter Size	Code Number
5/8"	200
5/8" x 3/4"	203
3/4"	250
1"	330

2 Box Style

Box Style	Code Number
Single meter	CS
Double meter	CD
Tandem	CT

3 Box diameter

Box Diameter	Code Number
15" box is for use with: 5/8, 5/8 x 3/4 or 3/4 single meters 5/8, 5/8 x 3/4 or 3/4 tandems*	15
18" box is for use with: 1" single meters 1" tandems 5/8, 5/8 x 3/4 or 3/4 double meters	21

4 Box depth

Depth	Code Number	Depth	Code Number
30"	30	66"	66
36"	36	72"	72
42"	42	78"	78
48"	48	84"	84
54"	54	90"	90
60"	60	96"	96

5 Meter inlet type

Meter Inlet	Code Number
Meter coupling	A
Lockwing angle meter stop	L
Lockwing angle ball valve (full port)	F
Lockwing angle ball valve (reduced port)	R

6 Meter outlet type

Meter Outlet	Code Number
Meter coupling	A
Dual check valve	B
A.S.S.E. Dual check valve	S
A.S.S.E. Top entry vertical check	V
Lockwing angle meter stop	L
Lockwing angle ball valve (full port)	F
Lockwing angle ball valve (reduced port)	R

7 Box bottom type

Bottom Type	Code Number
Attached aluminum bottom	A
Less bottom	B

8 Type of box locking device (box is ordered with device to accept either a non-locking lid, center locking or side locking lid) Lids must be ordered separately.

Lock Type	Code Number
Non-locking	N
Center locking	L
Side locking	S

9 Low lead brass

Code Number
N

Tandem box order information

Type of tandem device (regulator, backflow preventer etc.)
Size _____, lay length _____ and end connections (MIP, FIP, etc.) _____ of the tandem device
Tandem device manufacturer's name Tandem device model number

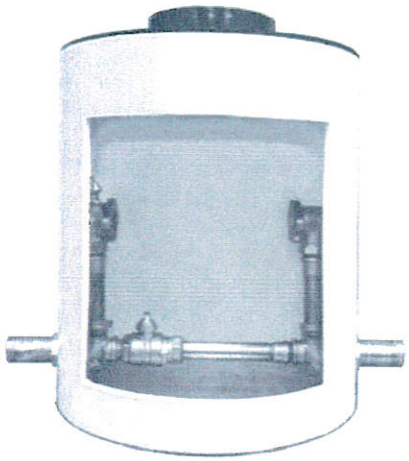
* NOTE: Tandem device is not included and must be purchased separately. ALSO, 3/4" tandems systems when used with certain regulators may need to be placed within a 18" box; list the regulator model when specifying this system. If an ASSE check valve or ball valve is being used in a 3/4" setting then an 18" meter box will be required.

MUELLER Valves and Couplings used in these meter box assemblies are manufactured and tested in accordance with ANSI/AWWA C800. Components in contact with potable water will also comply with latest requirements of the Federal Safe Drinking Water Act.

MUELLER® EZ-VAULT® METER SETTERS

Mueller Co.

Shaded area indicates change Rev. 4-14



Above box shown with optional lid ring and lid and is sectioned to illustrate valves and fittings.

The MUELLER EZ-VAULT Meter Setters provide a means to quickly install a 1-1/2" or 2"meter. The EZ-VAULT permits cities and water companies to standardize larger meter sets increasing convenience and efficiency during construction. The factory pre-aligned setter is stabilized to prevent shifting during backfilling. This makes it easier and more efficient to install or change out meters at a later time. The EZ-VAULT Meter Setter eliminates on-site fabrication and construction, saving time, material and labor costs.

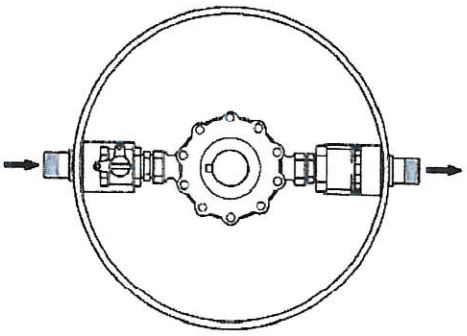
MUELLER EZ-VAULT Meter Setters are shipped fully assembled, ready for meter installation. Their light weight saves shipping costs and makes installation a one man job in most cases. Every box is factory tested and has a 150 psig maximum working pressure rating.

The MUELLER EZ-VAULT Meter Setter is available for 1-1/2" and 2" meters. A wide variety of end connections, control valves, box depths, lids and other options provide you with the meter set the way you want it. Due to the almost endless combination of features available, each box is custom built to your specifications. See page 8F.10 for ordering instructions.

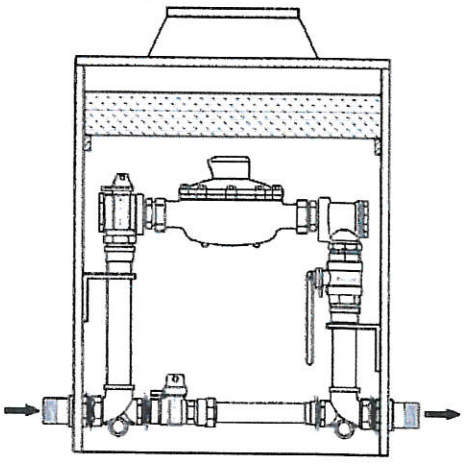
Manufactured under one or more of the following: U.S. Patent No. 4,614,113; 4,813,281

MUELLER EZ-VAULT Meter Setter Features

- Rigid .486 minimum wall PVC material holds shape and resists frost bridging
- Lightweight - can be handled by one man in most cases
- White interior aids visibility
- PVC brackets attached to shell stabilize brass meter risers
- For 1-1/2" and 2" meters
- Optional insulation pad traps earth's heat
- Male I.P. thread inlet and outlet connections accept a variety of MUELLER Service Fittings--see section 6
- Optional aluminum bottom available
- 150 psig maximum working pressure



Typical Installation



MUELLER Valves and Couplings used in these meter box assemblies are manufactured and tested in accordance with ANSI/AWWA C800. Components in contact with potable water will also comply with latest requirements of the Federal Safe Drinking Water Act.

8F.10 Mueller Co. MUELLER® EZ-VAULT® METER SETTERS

Rev. 4-14 Shaded area indicates change

MUELLER EZ-VAULT Meter Setter ordering instructions

To order a MUELLER EZ-VAULT Meter Setter, simply choose the options you require from the seven catagories listed below and place the option code on the appropriate line of the catalog number shown below. If you require options not listed, please fill out the information box shown below the options listing and contact the factory for price and delivery information.
Phone 1-800-423-1323 or fax 1-217-425-7537

Catalog Number

(1)_____ (2)VS (3)_____ (4)60 (5)F (6)V (7)_____ (8)N

Options

1 Meter size
NOTE: Meter is **not** furnished. Order meter separately

Meter Size	Code Number
1-1/2"	500
2"	550

2 Box style

Box Style	Code Number
Single meter	VS
Single meter with by-pass	VB

3 Box diameter

Box Diameter	Code Number
24" box is for use with: 1-1/2" single flanged meter with or without by-pass	24
27" box is for use with: 2" single flanged meter with or without by-pass	27

4 Box depth

Depth	Code Number	Depth	Code Number
30"	30	48"	48
36"	36	54"	54
42"	42	60"	60

5 Meter inlet type

Meter Inlet	Code Number
Meter coupling	A
Lockwing angle meter stop	L
Lockwing angle ball valve (full port)	F

6 Meter outlet type

Meter Outlet	Code Number
Meter coupling	A
Dual check valve	B
A.S.S.E. Top entry vertical check	V
Lockwing angle meter stop	L
Lockwing angle ball valve (full port)	F

7 Box bottom type

Bottom Type	Code Number
Attached aluminum bottom	A
Less bottom	B

8 Low lead brass

Code Number
N

Special requirements order information

Please specify special requirements and include drawing or photo if possible:

8F-PVC/BOXES/VAULTS

MUELLER Valves and Couplings used in these meter box assemblies are manufactured and tested in accordance with ANSI/AWWA C800. Components in contact with potable water will also comply with latest requirements of the Federal Safe Drinking Water Act.