

The MUELLER / McCullough 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.

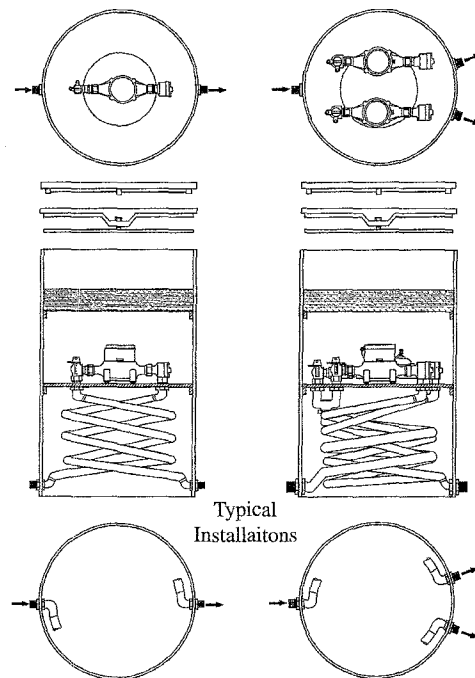
MUELLER / McCullough THERMAL-COIL Meter Boxes are shipped fully assembled, ready for meter installation. Their light weight saves shipping costs and makes installation a one man job in most cases. Every box is factory tested and has a 150 psig maximum working pressure rating.

MUELLER / McCullough 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 / McCullough 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



8F-PVC/BOXES/VALVES

Rev. 4-99

MUELLER / McCullough THERMAL-COIL Meter Box ordering instructions

To order a MUELLER / McCullough 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 1-800-821-3553 or fax 1-615-895- 7686.

Catalog Number

(1) _____ (2) _____ (3) _____ (4) _____ (5) _____ (6) _____ (7) _____ (8) _____

Options

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

Meter size	Code number
5/8"	200
5/8"x3/4"	203
3/4"	250
1"	330

5 Meter inlet type

Meter inlet	Code number
Lockwing angle meter stop	L
Lockwing angle ball valve (full port)	F
Lockwing angle ball valve (reduced port)	R

2 Box Style

Box style	Code number
Single meter	CS
Double meter	CD
Tandem	CT

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

3 Box diameter

Box diameter	Code number
15" box is for use with: 5/8, 5/8x3/4 or 3/4 single meters 5/8, 5/8x3/4 or 3/4 tandems *	15
18" box is for use with: 1" single meters 1" tandems 5/8, 5/8x3/4 or 3/4 double meters	18

7 Box bottom type

Bottom type	Code number
Attached aluminum bottom	A
Less bottom	B

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

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

Tandem box order information

Type of tandem device (regulator, backflow preventer etc) _____
Size _____ and length _____ of 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.

Tamper Resistant Security Screw: Requires special utility-only tool to remove.

Dual Inlet Port Design: Balances water flow to reduce component wear and provide long-term accuracy.

Oscillating Piston: Superior sensitivity for accurate measuring in all flow ranges.

AMR System Register: For use with all Invensys AMR Systems. See page 16 for its many superior features and benefits. Also available with visual read registers.

Magnetic Drive: Eliminates mechanical linkage and allows register upgrades without interrupting service.

Bottom Plate: Available in bronze and frost protection materials.

Direction of flow

SR II® Positive Displacement Meters

(Metric sizes to nearest millimeter)

		$\frac{5}{8}$ " & $\frac{3}{4}$ " x $\frac{3}{4}$ " SR II (DN 15 and DN 15 x 20)	$\frac{3}{4}$ " & $\frac{3}{4}$ " Short and $\frac{3}{4}$ " x 1" SR II (DN 20 and DN 20 x 25)	1" SR II (DN 25)
AWWA Normal Flow	GPM	1-20	2-30	3-50
	m ³ /h	0.25-4.5	0.45-7.0	0.7-11.0
AWWA Minimum Flow	GPM	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{3}{4}$
	m ³ /h	0.06	0.10	0.15
AWWA Continuous Flow	GPM	10	15	25
	m ³ /h	2.5	3.5	6.0
Height – Base to Lid	Inches	5	5 $\frac{1}{2}$	6 $\frac{5}{16}$
	Metric	127	140	167
Height – Base to Center Line	Inches	1 $\frac{1}{4}$	2 $\frac{3}{16}$	2 $\frac{7}{16}$
	Metric	44	56	62
Width	Inches	3 $\frac{3}{8}$	4 $\frac{1}{2}$	6 $\frac{1}{2}$
	Metric	98	114	165
Pressure Loss – Maximum Flow	psi at GPM	7.0 at 20	9.0 at 30	7.3 at 50
	bar at m ³ /h	0.5 at 4.5	0.6 at 7.0	0.5 at 11.0

		$\frac{5}{8}$ " (DN 15)	$\frac{5}{8}$ " x $\frac{3}{4}$ " (DN 15x33)	$\frac{3}{4}$ " (DN 20)	$\frac{3}{4}$ " Short (DN 20)	$\frac{3}{4}$ " x 1" (DN 20x42)	1" (DN 25)
Laying Length	Inches	7 $\frac{1}{2}$	7 $\frac{1}{2}$	9	7 $\frac{1}{2}$	9	10 $\frac{3}{4}$
	Metric	190	190	229	190	229	273
Meter Connections	Inches	$\frac{3}{4}$	1	1	1	1 $\frac{1}{4}$	1 $\frac{1}{4}$
	Metric	26	33	33	33	42	42
Net weight	Pounds	4.3	4.4	6.4	6.2	6.6	11.9
	Kilograms	1.9	2	2.9	2.8	3	5.4

All SR II meters are available with standard read or the following remote type registers; Invensys Electronic Communications Registers (ECR), Electronic Communications/Waterproof (ECR/WP), TouchRead PitLid (TR/PL).