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COPPER PACK JOINT TO MALE FITTING (CPPJ X MIP) WITH BRASS REDUCER RECOMMENDED IF REDUCING PIPE DIAM.

36" TYP. BETWEEN METER VALVES

METER VALVES (TYP.)  
SEE NOTE 9

NL METER COUPLING  
w/ SWIVEL NUT

MIN. DISTANCE 10 PIPE  
DIAMETERS BETWEEN  
METER VALVE AND  
BACKFLOW PREVENTER

6" MIN.  
CLEARANCE

PIPE ANCHORS REQUIRED (TYP.)

6" MIN.  
CLEARANCE

BACKFLOW  
PREVENTER

FLOOR

SPACER DETAIL

METER

SIZE	LENGTH	HEIGHT
5/8" (DN 15mm)	7-1/2" (190mm)	6-1/10" (155mm)
3/4" (DN 20mm)	9" (229mm)	6-1/10" (155mm)
1" (DN 25mm)	10-3/4" (273mm)	6-1/10" (155mm)

## NOTES

1. PORTLAND WATER DISTRICT (PWD) PERSONNEL WILL INSTALL THE WATER METER. ONLY PWD PERSONNEL SHALL OPERATE SERVICE VALVES.
2. PWD WILL SUPPLY THE WATER METER. ALL INLINE METER FITTINGS AND SPACER TO BE SUPPLIED AND INSTALLED BY THE CUSTOMER.
3. COPPER PIPE SHALL BE USED BETWEEN METER VALVES.
4. THE METER SHALL BE INSTALLED IMMEDIATELY AFTER THE SERVICE PIPE ENTERS THE BUILDING, AT A LOCATION NO MORE THAN 10 FEET FROM THE EXTERIOR FACE OF THE BUILDING.
5. A SPACER THE SAME LAY LENGTH OF THE METER WITH GASKETS IS REQUIRED TO BE INSTALLED BY THE CUSTOMER FOR ALIGNMENT AS WELL AS MAINTAINING PROPER SPACING FOR METER INSTALLATION. SEE TABLE BELOW.
6. THE METER SHALL NOT BE PERMANENTLY ENCLOSED WITHOUT SUFFICIENT ACCESS FOR FUTURE SERVICE. THERE SHALL BE A MINIMUM OF 36" OF WORKING SPACE TO ENABLE SERVICING OF THE METER.
7. BACKFLOW PREVENTION IS REQUIRED BY PWD. TYPE OF SERVICE AND DEGREE OF CROSS-CONNECTION HAZARD WILL DETERMINE DEVICE TYPE. DEVICE SHALL BE INSTALLED DOWNSTREAM OF METER AND METER VALVES PRIOR TO METER SET.
8. THERMAL EXPANSION SHOULD BE ADDRESSED BY CUSTOMER'S PLUMBER. CHECK LOCAL PLUMBING CODES FOR REQUIREMENTS.
9. AT THE METER SET LOCATION, THE CUSTOMER SHALL INSTALL METER VALVES, ENSURING A MINIMUM CLEARANCE OF SIX (6) INCHES BETWEEN THE SERVICE PIPE AND THE FLOOR. METER VALVES SHALL BE INSTALLED USING EITHER SOLDERED CONNECTIONS OR PROGRESS FITTINGS.



**Portland Water District**

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## REVISIONS

DATE	BY	PRJ # / DESCRIPTION
06/23/2023		Min dist btwn MV & BFP callout added
07/30/2025	RAA	NOTE 4 modified, NOTE 9 added

FILE: WS01A\_REV2.DWG

**WS01A - HORIZONTAL METER  
INSTALLATION - INLINE (5/8" TO 1")**

**STANDARD METER SET DETAILS**

DRAWN BY:	RAA
CHECKED BY:	RAB
APPROVED BY:	GJP
PROJECT #:	N/A
DATE:	08/13/2025
SCALE:	NTS
SHEET:	1 OF 1