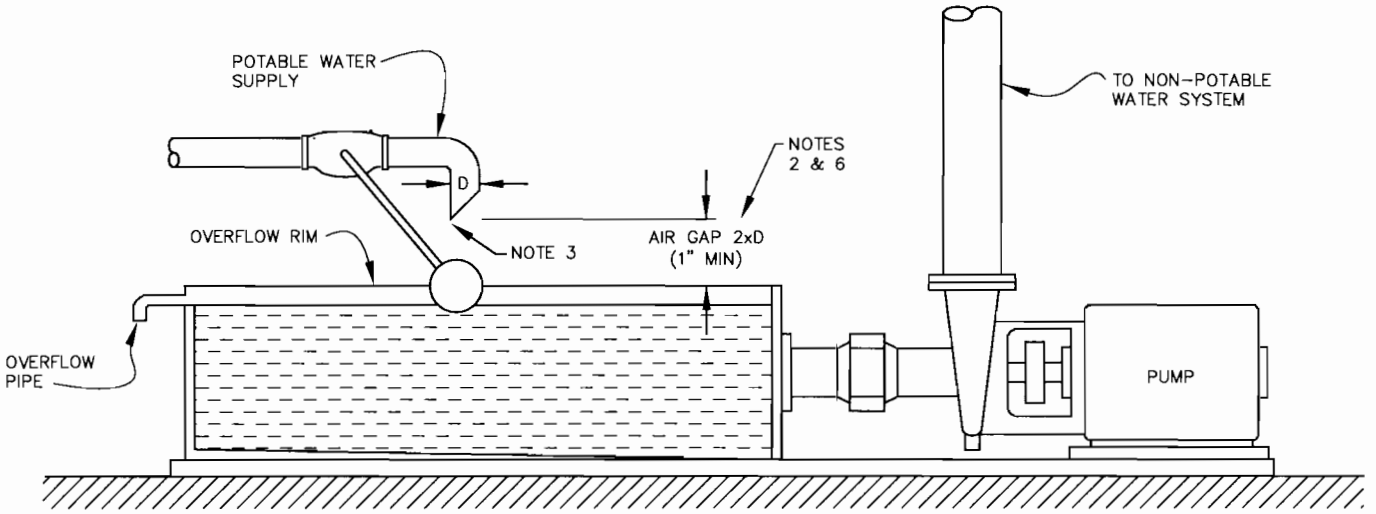

FIXTURES	WHEN NOT AFFECTED BY SIDE WALLS[1] INCHES (MM)	WHEN AFFECTED BY SIDE WALLS[2] INCHES (MM)
FIXTURES WITH EFFECTIVE OPENINGS[3] NOT GREATER THAN ONE HALF (1/2) INCH (13 MM) IN DIAMETER	1" (25 MM)	1 1/2" (38 MM)
FIXTURES WITH EFFECTIVE OPENINGS[3] NOT GREATER THAN THREE QUARTER (3/4) INCH (19 MM) IN DIAMETER	1 1/2" (38 MM)	2 1/4" (57 MM)
FIXTURES WITH EFFECTIVE OPENINGS[3] NOT GREATER THAN ONE (1) INCH (25 MM) IN DIAMETER	2" (51 MM)	3" (76 MM)
EFFECTIVE OPENINGS[3] GREATER THAN ONE (1) INCH (25 MM) IN DIAMETER	TWO (2) TIMES DIAMETER OF EFFECTIVE OPENING	THREE (3) TIMES DIAMETER OF EFFECTIVE OPENING

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SPONSOR			SLW
DATE: 01/01/95			

WATER STANDARDS
REGIONAL DESIGN STANDARDS

AIRGAP BACKFLOW PROTECTION

EUGENE WATER & ELECTRIC BOARD - EUGENE, OREGON

SCALE: NTS

REV DATE	BY	CHK	APP
05/21/09	NLN		WDM

5 YEAR REVIEW

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[1] SIDE WALLS, RIBS, OR SIMILAR OBSTRUCTIONS DO NOT AFFECT AIR GAPS WHEN SPACED FROM THE INSIDE EDGE OF THE SPOUT OPENING A DISTANCE GREATER THAN THREE TIMES THE DIAMETER OF THE EFFECTIVE OPENING FOR A SINGLE WALL, OR A DISTANCE GREATER THAN FOUR TIMES THE EFFECTIVE OPENING FOR TWO INTERSECTING WALLS.

[2] VERTICAL WALLS, RIBS, OR SIMILAR OBSTRUCTIONS EXTENDING FROM THE WATER SURFACE TO OR ABOVE THE HORIZONTAL PLANE OF THE SPOUT OPENING OTHER THAN SPECIFIED IN NOTE 1 ABOVE. THE EFFECT OF THREE OR MORE SUCH VERTICAL WALLS OR RIBS HAS NOT BEEN DETERMINED. IN SUCH CASES, THE AIR GAP SHALL BE MEASURED FROM THE TOP OF THE WALL.

[3] THE EFFECTIVE OPENING SHALL BE THE MINIMUM CROSS-SECTIONAL AREA AT THE SEAT OF THE CONTROL VALVE OR THE SUPPLY PIPE OR TUBING WHICH FEEDS THE DEVICE OR OUTLET. IF TWO OR MORE LINES SUPPLY ONE OUTLET, THE EFFECTIVE OPENING SHALL BE THE SUM OF THE CROSS-SECTIONAL AREAS OF THE INDIVIDUAL SUPPLY LINES OR THE AREA OF THE SINGLE OUTLET, WHICHEVER IS SMALLER.

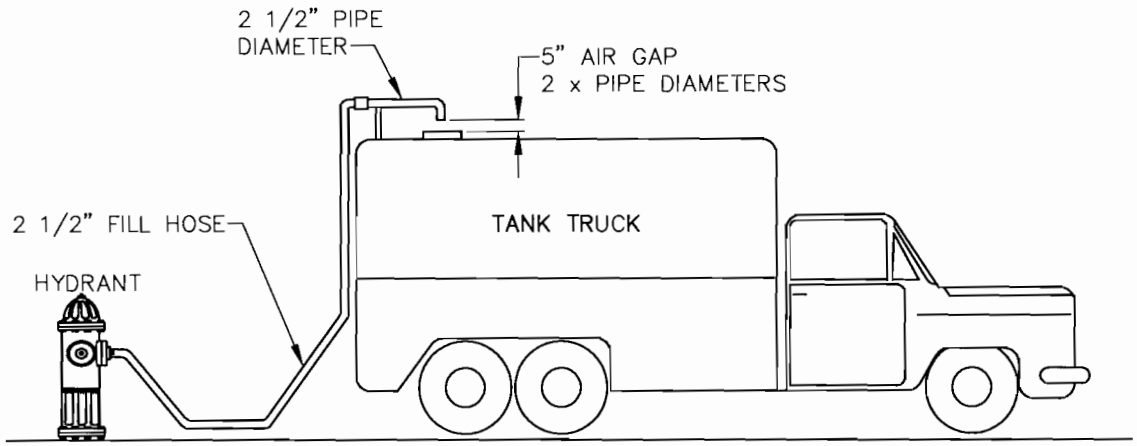
[4] AIR GAPS LESS THAN ONE (1) INCH (25 MM) SHALL BE APPROVED AS A PERMANENT PART OF A LISTED ASSEMBLY THAT HAS BEEN TESTED UNDER ACTUAL BACKFLOW CONDITIONS WITH VACUUMS OF FROM 0 TO 25 INCHES OF MERCURY.

NOTES:

1. AIR GAP PROTECTION MAY BE USED IN LIEU OF MECHANICAL BACKFLOW PROTECTION, WITH EWEB, SUB OR RWD APPROVAL IN THEIR RESPECTIVE SERVICE AREA.
2. ALL AIR GAPS ARE MEASURED FROM THE BOTTOM OF THE SUPPLY LINE TO THE TOP OF THE OVERFLOW RIM OF THE SINK OR BASIN THAT IS BEING FILLED. THE AIR GAP SHALL BE TWICE THE DIAMETER (2XD) OF THE SUPPLY LINE, BUT IN NO CASE LESS THAN 1". IF THE SUPPLY LINE IS ADJACENT TO A WALL, THE AIR GAP SHALL BE INCREASED TO THREE TIMES THE DIAMETER (3XD) OF SUPPLY PIPING.
3. IF THE SUPPLY LINE IS CUT AT AN ANGLE, THE POINT CLOSEST TO THE BASIN IS USED FOR MEASUREMENT.
4. IF THE SUPPLY LINE IS REDUCED AT THE OPENING, THE DIAMETER USED FOR AIR GAP IS TAKEN AT THE LARGEST PORTION OF THE SUPPLY PIPING.
5. THERE SHALL BE NO EXTENSIONS OR ATTACHMENTS ON THE OPEN END OF THE SUPPLY PIPING. ANY SUCH EXTENSIONS OR ATTACHMENTS WILL VOID THE AIR GAP PROTECTION.

REFERENCE: OREGON PLUMBING SPECIALTY CODE, CHAPTER 6 WATER SUPPLY AND DISTRIBUTION, 603.2.1, TABLE 6-3

REFERENCE: OREGON ADMINISTRATIVE RULES 333-061-0020 (5)



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WATER STANDARDS
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AIRGAP BACKFLOW PROTECTION

EUGENE WATER & ELECTRIC BOARD - EUGENE, OREGON

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