

FIXTURES	WHERE NOT AFFECTED BY SIDE WALLS <sup>1</sup> (INCHES)	WHERE AFFECTED BY SIDE WALLS <sup>2</sup> (INCHES)
EFFECTIVE OPENINGS <sup>3</sup> NOT GREATER THAN 1/2 INCH IN DIAMETER	1	1 1/2
EFFECTIVE OPENINGS <sup>3</sup> NOT GREATER THAN 3/4 INCH IN DIAMETER	1 1/2	2 1/4
EFFECTIVE OPENINGS <sup>3</sup> NOT GREATER THAN 1 INCH IN DIAMETER	2	3
EFFECTIVE OPENINGS <sup>3</sup> GREATER THAN 1 INCH IN DIAMETER	TWO TIMES DIAMETER OF EFFECTIVE OPENING	THREE TIMES DIAMETER OF EFFECTIVE OPENING

FOR SI UNITS: 1 INCH = 25.4mm

CITY OF EUGENE BUILDING AND PERMITS REVIEW - SR

FUNC	BY	CHK	APP
DES	SLW		SLW
DWN			SLW
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	PWR		
UPDATED TABLE			
DWG NO			REV
WD6-6.2000			3
1 of 2			

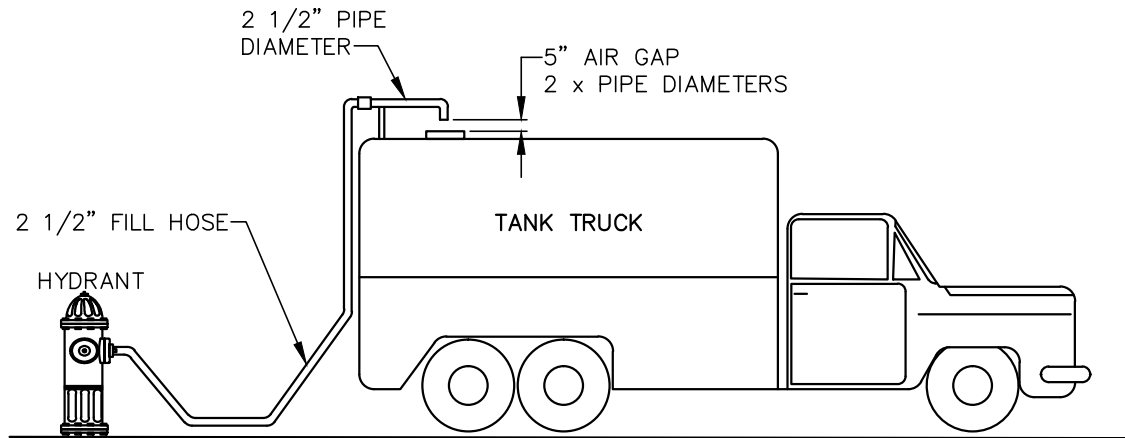
- 1 SIDE WALLS, RIBS, OR SIMILAR OBSTRUCTIONS DO NOT AFFECT AIR GAPS WHEN SPACED FROM THE INSIDE EDGE OF THE SPOUT OPENING A DISTANCE GREATER THAN THREE TIMES THE DIAMETER OF THE EFFECTIVE OPENING FOR A SINGLE WALL, OR A DISTANCE GREATER THAN FOUR TIMES THE EFFECTIVE OPENING FOR TWO INTERSECTING WALLS.
- 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.
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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FUNC	BY	CHK	APP
DES	SLW		SLW
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WATER STANDARDS  
 REGIONAL DESIGN STANDARDS  
 AIRGAP BACKFLOW PROTECTION  
 EUGENE WATER & ELECTRIC BOARD - EUGENE, OREGON

SCALE: NTS			
REV DATE	BY	CHK	APP
1-11-17	ESR		
REMOVED SUB & RWD			
DWG NO			REV
WD6-6.2000			3
2 of 2			