

Appendix E. Connection separations for new services

Connections of new services to an existing main that are done by “tapping” the main (taps) must be at least the following distances from other taps and appurtenances, including but not limited to joints, valves, bends, blowoffs, and tees. All dimensions are from the center of the tap to the center of the tap, or from the center of the tap to the edge of the pipe joint.

	2" main	4" main	6" main	8" main	10–14" main	16" + main
One tap						
1"	N/A ¹	18"	18"	18"	18"	18"
2"	N/A ¹	18"	18"	18"	18"	18"
4"	-	3'	2'	2'	2'	2'
6"	-	-	3'	2'	2'	2'
8"	-	-	-	3'	3'	3'
10"	-	-	-	-	4'	4'
12"	-	-	-	-	4'	4'
Two taps						
4" and 4"	-	6'	4'	4'	4'	4'
4" and 6"	-	-	4'	4'	4'	4'
4" and 8"	-	-	-	4'	4'	4'
4" and 10"	-	-	-	-	5'	5'
4" and 12"	-	-	-	-	5'	5'
6" and 6"	-	-	6'	4'	4'	4'
6" and 8"	-	-	-	5'	4'	4'
6" and 10"	-	-	-	-	5'	5'
6" and 12"	-	-	-	-	5'	5'
8" and 8"	-	-	-	6'	4'	4'
8" and 10"	-	-	-	-	5'	5'
8" and 12"	-	-	-	-	5'	5'
10" and 10"	-	-	-	-	6'	6'
10" and 12"	-	-	-	-	6'	6'
12" and 12"	-	-	-	-	6'	6'

¹ The Portland Water Bureau always installs a tee on 2-inch mains.