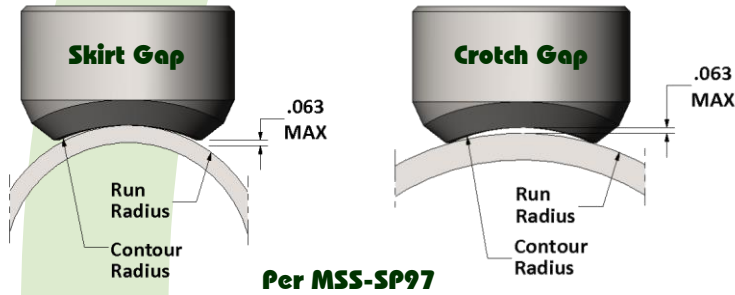


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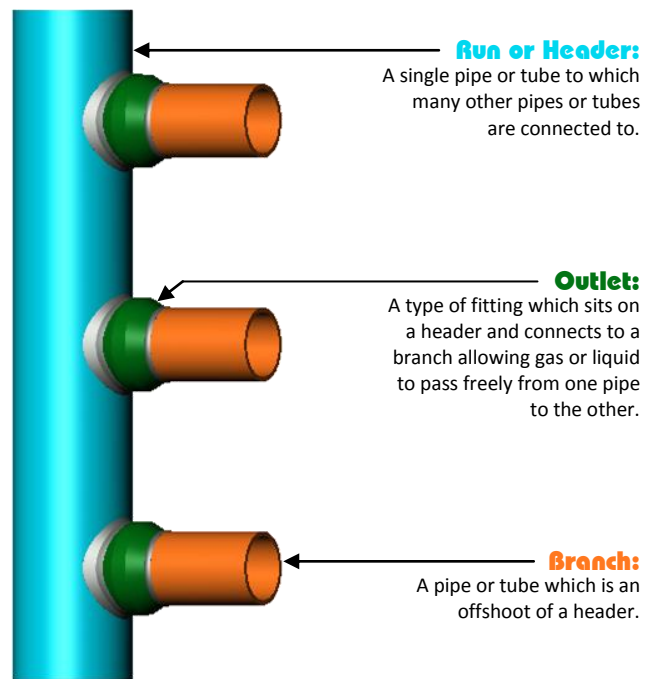
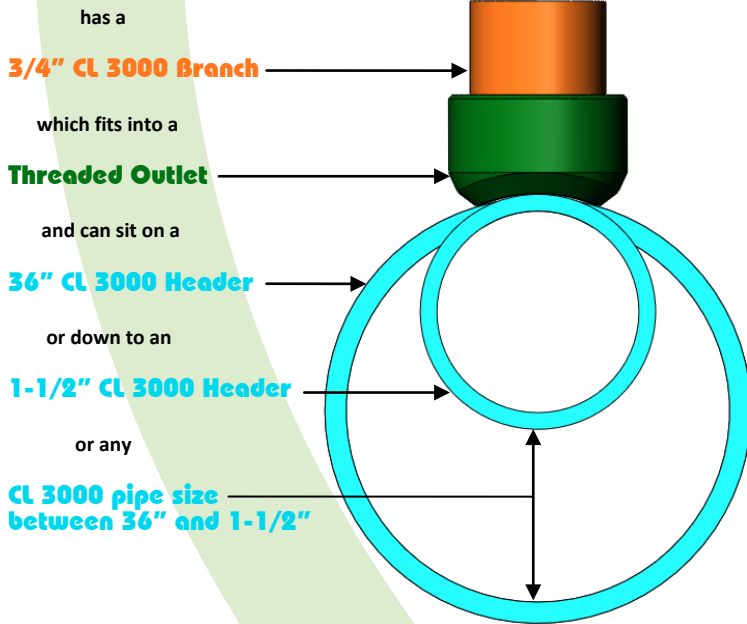


What does Consolidation mean in the Piping Industry?
Consolidations are the merging of run pipes, which the outlet sits upon. The contour of the outlet will have a certain radius which is in between the largest and smallest radius of the run pipe consolidation. Therefore, the outlet will not sit precisely on any of the pipes within the consolidation. This is acceptable, as long as the gap distance between the top of the run pipe and the bottom of the outlet, at the center or the end, does not exceed 1/16" as per MSS-SP97 (see image on left).

Why are Consolidations good for you?
Creating outlets to sit on a number of different pipe sizes rather than one specific size is beneficial to you for a few reasons. It gives a single, versatile product that simplifies your purchase as well as inventory when the project demands a variety of pipe sizes.

Are you unfamiliar with piping terminology?

Example: 36" - 1-1/2" x 3/4" Class 3000 Threaded Outlet



**CL 3000 THREADED OUTLET • CL 3000 SOCKET WELD OUTLET
STD/S40 BUTT WELD OUTLET • XH/S80 BUTT WELD OUTLET**

BRANCH SIZE	RUN CONSOLIDATION										
1/8	36 - 1/8	FLAT									
1/4	3/8 - 1/4	36 - 1/2	FLAT								
3/8	1/2 - 3/8	36 - 3/4	FLAT								
1/2	1/2	36 - 3/4	FLAT								
3/4	1-1/4 - 3/4	36 - 1-1/2	FLAT								
1	1	2-1/2 - 1-1/4	36 - 3	FLAT							
1-1/4	1-1/2 - 1-1/4	3-1/2 - 2	36 - 4	FLAT							
1-1/2	1-1/2	2-1/2 - 2	5 - 3	36 - 6	FLAT						
2	2	3-1/2 - 2-1/2	6 - 4	36 - 8	FLAT						
2-1/2	2-1/2	3-1/2 - 3	5 - 4	8 - 6	36 - 10	FLAT					
3	3	4 - 3-1/2	6 - 5	14 - 8	38 - 16	FLAT					
3-1/2	3-1/2	4	5	8 - 6	14 - 10	36 - 16	52 - 38	FLAT			
4	4	5	6	10 - 8	18 - 12	36 - 20	68 - 38	FLAT			
5	5	6	8	10	14 - 12	22 - 16	36 - 24	114 - 38	FLAT		
6	6	8	10	14 - 12	18 - 16	24 - 20	36 - 26	56 - 38	156 - 60	FLAT	

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**CL 6000 THREADED OUTLET • CL 6000 SOCKET WELD OUTLET
S160 BUTT WELD OUTLET • XXH BUTTWELD OUTLET**

BRANCH SIZE	RUN CONSOLIDATION							
1/8	36 - 1/8	FLAT						
1/4	36 - 1/4	FLAT						
3/8	36 - 3/8	FLAT						
1/2	1/2	36 - 3/4	FLAT					
3/4	1 - 3/4	36 - 1-1/4	FLAT					
1	1	2-1/2 - 1-1/4	36 - 3	FLAT				
1-1/4	1-1/4	4 - 1-1/2	36 - 5	FLAT				
1-1/2	1-1/2	2-1/2 - 2	5 - 3	36 - 6	FLAT			
2	2	3-1/2 - 2-1/2	6 - 4	36 - 8	FLAT			
2-1/2	3 - 2-1/2	5 - 3-1/2	18 - 6	36 - 20	FLAT			
3	3-1/2 - 3	5 - 4	10 - 6	26 - 12	36 - 28	FLAT		
4	4	5	8 - 6	14 - 10	36 - 16	46 - 38	FLAT	
5	5	6	10 - 8	18 - 12	36 - 20	72 - 38	FLAT	
6	6	8	10	14 - 12	20 - 16	36 - 22	102 - 38	FLAT

**CL 3000 & 6000 THREADED ELBOW OUTLET
CL 3000 & 6000 SOCKET WELD ELBOW OUTLET
STD, XH, S160 & XXH BUTTWELD ELBOW OUTLET**

BRANCH SIZE	RUN
1/4	36 - 1-1/4
3/8	36 - 1-1/4
1/2	36 - 1-1/4
3/4	36 - 1-1/4
1	36 - 2
1-1/4	36 - 2
1-1/2	36 - 2
2	36 - 3

**CL 3000 THREADED LATERAL OUTLET
CL 3000 SOCKET WELD LATERAL OUTLET
STD & XH BUTTWELD LATERAL OUTLET**

BRANCH SIZE	RUN CONSOLIDATION		
1/4	2-1/2 - 1-1/4	12 - 3	
3/8	2-1/2 - 1-1/4	12 - 3	
1/2	2-1/2 - 1-1/4	12 - 3	
3/4	1-1/2 - 1-1/4	5 - 2	12 - 6
1	2-1/2 - 2	5 - 3	12 - 6
1-1/4	2-1/2 - 2	5 - 3	12 - 6
1-1/2	2-1/2 - 2	5 - 3	12 - 6
2	5 - 4	8 - 6	12 - 10

**CL 6000 THREADED LATERAL OUTLET
CL 6000 SOCKET WELD LATERAL OUTLET
S160 & XXH BUTTWELD LATERAL OUTLET**

BRANCH SIZE	RUN CONSOLIDATION		
1/4	2-1/2 - 1-1/4	12 - 3	
3/8	2-1/2 - 1-1/4	12 - 3	
1/2	1-1/2 - 1-1/4	5 - 2	12 - 6
3/4	2-1/2 - 2	5 - 3	12 - 6
1	2-1/2 - 2	5 - 3	12 - 6
1-1/4	2-1/2 - 2	5 - 3	12 - 6
1-1/2	5 - 4	8 - 6	12 - 10