RATING	ANSI 150# (PN 20)													
SIZE	1"	1 1/2"	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
1"	105													
1 1/2"	130	130												
2"	130	130	155											
3"	155	155	155	180										
4"	180	180	180	205	205									
6"	205	205	205	230	230	255								
8"	230	230	230	255	255	305	335							
10"	255	255	280	280	305	335	360	385						
12"	305	305	305	335	335	360	385	410	435					
14"	335	335	335	360	360	385	410	435	460	485				
16"	360	360	360	385	385	435	460	485	510	510	535			
18"	360	385	385	410	410	435	460	485	535	535	560	585		
20"	410	410	410	435	435	460	485	535	560	560	585	610	640	
24"	460	460	485	485	510	535	560	585	610	610	640	665	690	740

ANSI 150# (PN 20)

RATING	ANSI 150# (PN 20)													
SIZE	1"	1 1/2"	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
1"	130	130	130	155	180	205	230	255	305	335	360	385	410	460
1 1/2"	130	130	155	155	180	205	230	255	305	335	360	385	410	460
2"	130	155	155	155	180	205	230	280	305	335	360	385	410	490
3"	155	180	180	180	205	230	255	280	335	360	390	410	435	490
4"	205	205	205	230	230	255	280	305	335	360	385	410	435	510
6"	230	230	255	255	280	305	335	360	390	385	435	435	460	535
8"	255	280	280	280	305	335	360	385	410	435	460	485	510	560
10"	305	305	335	335	360	385	410	435	460	460	485	510	535	585
12"	335	335	360	360	385	410	435	460	490	485	510	535	560	610
14"	360	360	385	385	410	435	460	485	510	510	535	560	585	640
16"	410	410	410	435	435	460	485	510	535	560	585	610	640	690
18"	435	435	435	460	460	490	510	535	560	585	610	640	665	715
20"	460	460	490	490	485	535	560	585	610	610	640	665	690	740
24"	535	535	535	560	560	585	610	640	665	690	720	740	765	815

ANSI 600# (PN 100)

RATING	ANSI 300# (PN 50)													
SIZE	1"	1 1/2"	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
1"	130	130	130	155	180	205	230	255	305	330	360	385	410	460
1 1/2"	130	130	155	155	180	205	230	255	305	330	360	385	410	460
2"	130	155	155	155	180	205	230	280	305	335	360	385	410	485
3"	155	180	180	180	205	230	255	280	335	360	385	410	435	485
4"	180	180	205	205	230	255	280	305	335	360	385	410	435	510
6"	205	230	230	230	255	280	305	335	360	385	435	435	460	535
8"	255	255	255	280	280	305	335	360	385	410	460	460	485	560
10"	280	280	280	305	305	360	385	410	435	435	485	485	535	585
12"	305	335	335	335	360	385	410	435	460	485	510	535	560	610
14"	360	360	360	385	385	410	435	460	485	510	535	560	585	640
16"	385	385	385	410	410	460	485	510	535	535	560	585	610	665
18"	410	410	435	435	460	485	510	535	560	560	585	610	640	690
20"	435	460	460	460	485	510	535	560	585	610	640	665	690	740
24"	510	510	535	535	560	585	610	640	665	665	690	715	740	790

ANSI 300# (PN 50)

RATING	ANSI 300# (PN 50)													
SIZE	1"	1 1/2"	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
1"	130													
1 1/2"	130	130												
2"	130	155	155											
3"	155	180	180	180										
4"	180	180	205	205	230									
6"	205	230	230	230	255	280								
8"	255	255	255	280	280	305	335							
10"	280	280	280	305	305	360	385	410						
12"	305	335	335	335	360	385	410	435	450					
14"	360	360	360	385	385	410	435	460	490	510				
16"	385	385	385	410	410	460	490	510	535	535	560			
18"	410	410	435	435	460	490	510	535	560	560	585	610		
20"	435	460	460	460	490	510	535	560	585	610	640	665	690	
24"	510	510	535	535	560	585	610	640	665	665	690	720	740	790

ANSI 600# (PN 100)

RATING	ANSI 600# (PN 100)													
SIZE	1"	1 1/2"	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
1"	130													
1 1/2"	130	130												
2"	130	155	155											
3"	155	180	180	180										
4"	205	205	205	230	230									
6"	230	230	255	255	280	305								
8"	255	280	280	280	305	335	360							
10"	305	305	335	335	360	410	410	435						
12"	335	335	360	360	385	410	435	460	485					
14"	360	360	385	385	410	435	460	485	510	510				
16"	410	410	410	435	435	460	485	510	535	560	585			
18"	435	435	435	460	460	485	510	535	560	585	610	640		
20"	460	460	485	485	510	535	560	585	610	610	640	665	690	
24"	535	535	535	560	560	585	610	640	665	690	715	740	765	815

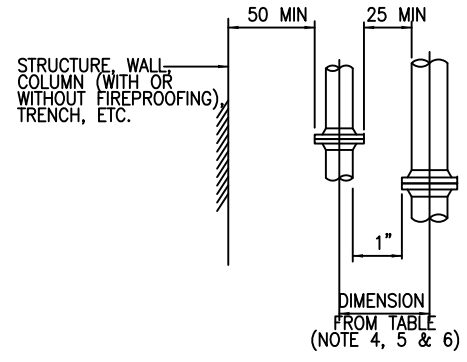
ANSI 600# (PN 100)

NOTES:

TO OBTAIN A PRELIMINARY ESTIMATE OF THE PIPEWAY WIDTH REQUIRED FOR A SELECTION OF LINES WITHOUT FLANGES, IN THE SIZE RANGE 2" THRU 8", EITHER OF THE FOLLOWING FACTORS MAY BE USED:

1. IF ALL PIPE SIZES ARE KNOWN, ADD NOMINAL SIZES IN INCHES TOGETHER & MULTIPLY BY 0.34 TO ESTIMATE THE WIDTH IN FEET. (THIS IS THE PREFERRED METHOD.)
2. IF ONLY THE NUMBER OF LINES IS KNOWN, MULTIPLY THIS NUMBER BY 1.43 TO ESTIMATE THE WIDTH IN FEET.

   EITHER FACTOR GIVES A PIPEWAY WIDTH WHICH INCLUDES INSULATION FOR 25% OF LINES, ALLOWS 20% OF THE WIDTH FOR THE ADDITION & RE-SIZING OF LINES, & ALLOCATES A FURTHER 20% OF THE WIDTH FOR FUTURE PIPING.
3. LINE SPACING DIMENSIONS LISTED ARE BASED ON 1" FLANGE TO PIPE CLEARANCE (ROUNDED OFF TO EVEN DIMENSIONS) WITH FLANGES ON LARGER LINE & ALL LINES BEING ON A 4" SHOE.
4. WHERE AN INSULATED & BARE LINE RUN ADJACENT, THE INSULATION THICKNESS IS TO BE ADDED TO THE SPACING DIMENSION.
5. WHERE TWO INSULATED LINES WITH UNINSULATED FLANGES RUN ADJACENT, THE LARGER OF THE TWO INSULATION THICKNESSES IS TO BE ADDED TO THE SPACING DIMENSION.
6. WHERE TWO INSULATED LINES RUN ADJACENT & EITHER ONE OR BOTH LINES HAVE INSULATED FLANGES, TWICE THE LARGER OF THE TWO INSULATION THICKNESSES IS TO BE ADDED TO THE SPACING DIMENSION.
7. REVIEW THE 1" GAP BETWEEN LINES WHEN CHECKING LATERAL THERMAL MOVEMENTS OF ADJACENT LINES AT CORNERS, EXPANSION LOOPS, LINES THAT CONTAIN PN 100 (ANSI 600#) FLANGES, ETC.
8. INCREASED SPACING MAY BE REQUIRED WHERE ORIFICE FLANGES ARE REQUIRED.
9. INCREASED SPACING MAY BE REQUIRED WHERE PIPE CLAMPS ARE USED. (eg. ANTI-VIBRATION SERVICE, FRP PIPE SUPPORTS, ETC.)



DRAWING NO.	REFERENCE DRAWINGS		REV.	DESCRIPTION	BY	DATE	CHK	APP.	CLIENT

DRAWN BY:	DATE
DESIGNED BY:	DATE
CHECKED BY:	DATE
APPROVED BY:	DATE
CLIENT BY:	DATE

TITLE

PIERACK AND PIPEWAY
LINE SPACING CHART
SAG15

SCALE	JOB NO.	DRAWING NO.	REV.
N.T.S.			

SCALE APPLIES IF PLOTTED ON SIZE 'D' (22"X34")