



**FIGURE 4**



NO.	DESCRIPTION	QTY.
1	FLANGE	2
2	EXPANSION BELLWS	12
3	SUPPORT TUBE	2
4	ROD	2
5	WASHER	12
6	LOCK WASH	12
7	NUT	12
8	WASHER	12
9	ROD	2
10	NUT	2
11	WASHER	2
12	LOCK WASH	2
13	FLANGE	2

DIMENSIONAL SPECIFICATION	
A. ALL DIMENSIONS ARE IN IN.	
B. DIMENSIONS ARE TO BE MAINTAINED TO THE EXTENT POSSIBLE.	
C. DIMENSIONS TO BE MAINTAINED TO THE EXTENT POSSIBLE.	
D. DIMENSIONS TO BE MAINTAINED TO THE EXTENT POSSIBLE.	
E. DIMENSIONS TO BE MAINTAINED TO THE EXTENT POSSIBLE.	
F. DIMENSIONS TO BE MAINTAINED TO THE EXTENT POSSIBLE.	
G. DIMENSIONS TO BE MAINTAINED TO THE EXTENT POSSIBLE.	
H. DIMENSIONS TO BE MAINTAINED TO THE EXTENT POSSIBLE.	
I. DIMENSIONS TO BE MAINTAINED TO THE EXTENT POSSIBLE.	
J. DIMENSIONS TO BE MAINTAINED TO THE EXTENT POSSIBLE.	
K. DIMENSIONS TO BE MAINTAINED TO THE EXTENT POSSIBLE.	
L. DIMENSIONS TO BE MAINTAINED TO THE EXTENT POSSIBLE.	
M. DIMENSIONS TO BE MAINTAINED TO THE EXTENT POSSIBLE.	
N. DIMENSIONS TO BE MAINTAINED TO THE EXTENT POSSIBLE.	
O. DIMENSIONS TO BE MAINTAINED TO THE EXTENT POSSIBLE.	
P. DIMENSIONS TO BE MAINTAINED TO THE EXTENT POSSIBLE.	
Q. DIMENSIONS TO BE MAINTAINED TO THE EXTENT POSSIBLE.	
R. DIMENSIONS TO BE MAINTAINED TO THE EXTENT POSSIBLE.	
S. DIMENSIONS TO BE MAINTAINED TO THE EXTENT POSSIBLE.	
T. DIMENSIONS TO BE MAINTAINED TO THE EXTENT POSSIBLE.	
U. DIMENSIONS TO BE MAINTAINED TO THE EXTENT POSSIBLE.	
V. DIMENSIONS TO BE MAINTAINED TO THE EXTENT POSSIBLE.	
W. DIMENSIONS TO BE MAINTAINED TO THE EXTENT POSSIBLE.	
X. DIMENSIONS TO BE MAINTAINED TO THE EXTENT POSSIBLE.	
Y. DIMENSIONS TO BE MAINTAINED TO THE EXTENT POSSIBLE.	
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10	NUT	2
11	WASHER	2
12	LOCK WASH	2
13	FLANGE	2

**EXPANSION BELLOW**  
**FOR PIPE LINE**

**W & S CO. / S.A. Div.**  
**W & S**



**TABLE 1**

NO.	NO. OF BELLWS	F	W	FOD	W	B	NO. OF BELLWS	F	W	FOD	W	B	NO. OF BELLWS	F	W	FOD	W	B
1	24	30	82.8	76.8	128.0	10	4	312	312	18	3.0	--						
2	24	30	83.0	88.0	117.0	10	4	312	312	18	3.0	--						
3	48	30	75.0	84.4	137.0	12	4	312	312	18	3.0	--						
4	30	30	83.0	130.4	150.4	12	4	312	312	18	3.0	--						
5	30	30	120.0	138.7	177.0	12	4	312	312	18	3.0	--						
6	60	300	127.0	131.4	190.0	12	4	312	312	20	3.0	--						
7	100	330	157.0	160.0	208.0	14	8	312	312	20	4.0	--						
8	144	330	186.7	170.4	234.0	14	8	300	300	20	4.0	--						
9	180	330	181.4	181.7	219.4	16	8	300	300	20	4.0	--						
10	200	330	208.4	188.4	241.4	16	8	300	300	20	4.0	--						
11	240	330	211.0	201.8	268.4	20	12	300	300	20	4.0	--						
12	300	330	201.0	421.8	481.4	24	12	300	300	20	4.0	--						
13	380	380	431.7	478.2	533.4	24	12	304	304	20	4.0	--						
14	400	380	403.0	558.7	593.0	24.0	18	304	304	20	4.0	--						
15	480	380	533.0	577.8	630.0	24	18	307	307	20	4.0	--						
16	600	380	644.3	630.0	664.0	24	20	307	307	20	4.0	--						
17	600	376	644.0	598.0	675.0	28	20	300	300	20	7.0	--						

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**EXPANSION BELLOW**  
**FOR PIPE LINE**  
**TABLE**

**W & S CO. / S.A. Div.**  
**W & S**

