

Fig. B-268, C-268

Spring Hangers (Type A)

Type A is the basic unit of Fig. B-268 Anvil Variable Spring Hanger. It is designed for attachment to its supporting member by screwing a rod into a tapped hole in the top cap of the hanger the full depth of the top cap ("G" dimension). The upper jam nut should then be locked, securing the hanger. Adjustment of the hanger load is accomplished by turning the coupling on the lower hanger rod until the hanger picks up the load and the load indicator points to the desired position.

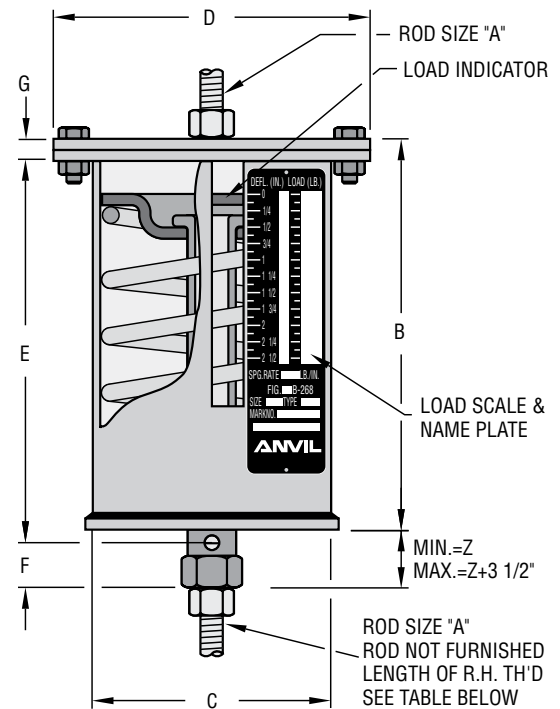


FIG. B-268, FIG. C-268 TYPE A: DIMENSIONS (IN) • WEIGHT (LBS)

Hanger Size	Weight	Rod Size A	R.H. Thread Length	Casing Length B	Casing Diam C	Flange Diam D	Rod Take Out E	Min. Thread Engagement F	Thread Depth G	Z
000	5	1/2	5	5 5/8	4	5 1/8	5 1/16	1 5/16	7/16	1 3/16
00	6			7 9/16			7 3/8			1 3/16
0	8	1/2	5	6 11/16	4	5 1/8	6 1/16	1 5/16	7/16	3/4
1	8			7 9/16			6 15/16			1
2	9	1/2	5	8 5/16	5 9/16	6 15/16	7 15/16	1 5/16	7/16	1
3	14			7 15/16			7 9/16			1
4	15	1/2	5	7 15/16	5 9/16	6 15/16	7 15/16	1 5/16	7/16	1 3/8
5	16			8 5/8						11 1/16
6	26	5/8	5	8 13/16	6 5/8	8 3/8	7 13/16	1 5/16	5/8	9/16
7	29			10			9 1/16			5/8
8	31	3/4	6	10 7/16	8 5/8	10 3/4	8 15/16	1 1/4	1	3/4
9	65			12 7/8			11 3/8			1 1/2
10	71	1	6	10 7/16	8 5/8	10 3/4	9 7/8	1 1/4	1	1 1/16
11	65			13 3/8			11 3/8			1/2
12	71	1 1/4	7	13 3/4	8 5/8	10 3/4	11 3/8	1 1/4	1 1/4	3/8
13	89			13 3/4			11 3/8			3/8
14	93	1 1/2	8	16 1/16	8 5/8	11 3/8	14 13/16	1 15/16	1 3/8	2 1/16
15	111			18 7/8			16 3/4			1 15/16
16	133	2	9	18 1/4	12 3/4	15 7/8	16	2 3/4	2 1/4	2 9/16
17	162			20 1/2			18 3/8			2 1/16
18	330	2 1/4	10	23 3/4	12 3/4	16 7/8	21 5/8	3 5/8	2 3/4	3 1/16
19	376			27 5/16			23 7/8			3 1/16
20	480	2 3/4	10	33 3/8	12 3/4	16 7/8	29 3/4	3 5/8	3	3 3/4
21	556			29 3/4			29 3/4			3 5/8
22	705	3	11	33 3/8	12 3/4	16 7/8	29 3/4	3 5/8	3	3 3/4

SPRING HANGERS

Fig. B-268, C-268

Spring Hangers (Type B & Type C)

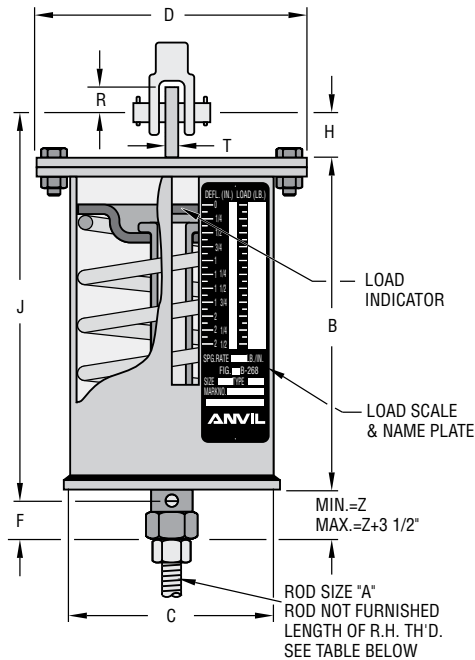


Fig. B-268 Type B

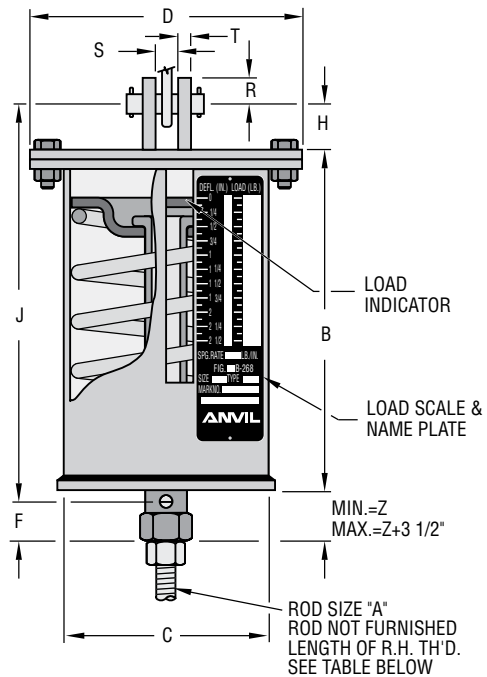


Fig. B-268 Type C

Type B is furnished with a single lug for attachment to the building structure. The lug permits use of a clevis, welded beam attachment or a pair of angles for attachment where headroom is limited.

Type C is furnished with two lugs for attachment to the building structure. These two lugs permit the use of an eye rod, Fig. 55L or a single plate for attachment where headroom is limited.

FIG. B-268, FIG. C-268 TYPE B, C: DIMENSIONS (IN) • WEIGHT (LBS)

Hanger Size	Weight (lbs)	Rod Size A	R.H. Thread Length	Lug Hole Size	Casing Length B	Casing Diam C	Flange Diam D	Min. Thd Engagement F	Height of Pin H	Rod Take Out J	R	Clevis Opening S	Thickness T	Z						
000	5	1/2	5	1 1/16	5 5/8	4	5 5/8	1 5/16	1 1/2	7	1 1/4	7/8	1/4	1 3/16						
00	6				7 7/16					9 1/2				1 3/16						
0	8	1/2	5	1 1/16	6 11/16	4	5 5/8	1 5/16	1 1/2	8	1 1/4	7/8	1/4	3/4						
1	9				7 9/16					8 5/8				1						
2	10				8 5/16					9 5/8				1						
3	14	1/2	5	1 1/16	7 15/16	5 5/16	6 15/16	1 5/16	1 1/2	9 1/2	1 1/4	7/8	1/4	1						
4	16				8 5/8					1 3/8										
5	17				8 5/8					1 1/16										
6	27				8 13/16					9/16										
7	30	5/8	5	1 3/16	10	6 5/8	8 5/8	1 5/16	1 1/2	11 1/16	1 1/4	1 1/16	1/4	5/8						
8	32				11 1/16					5/8										
9	66	3/4	6	1 5/16	10 7/16	8 5/8	10 3/4	1 1/4	1 1/2	11 7/16	1 1/4	1 1/4	3/8	3/4						
10	72				12 1/8					1 1/2										
11	66				10 7/16					1 1/16										
12	71	1	6	1 1/4	10 7/16	8 5/8	10 3/4	1 1/4	2	12 1/2	1 1/2	1 5/8	1/2	1 1/16						
13	89				13 3/8					1/2										
14	94	1 1/4	7	1 1/2	13 1/4	8 5/8	10 3/4	1 1/4	3	15 3/8	2	2	5/8	3/8						
15	114	1 1/4			13 1/4					10 3/4				15 3/8	2	2	5/8	3/8		
16	138	1 1/2	8	1 3/4	16 1/16	8 5/8	11 3/8	1 15/16	3	19 3/16	2 1/2	2 3/8	3/4	2 1/16						
17	168	1 3/4			2					18 1/8				21 1/8	2 5/8	1 15/16				
18	331	2	9	2 3/8	18 1/4	12 3/4	15 7/8	2 3/4	4	22 7/8	3	2 7/8	3/4	2 9/16						
19	378	2 1/4			20 1/2					12 3/4				15 7/8	2 3/4	4 1/2	25	3 3/8	1	2 11/16
20	486	2 1/2			2 7/8					23 3/4				12 3/4	16 7/8	3 3/8	4 1/2	28 3/4	4	3 3/8
21	568	2 3/4	10	3 3/8	27 3/16	12 3/4	16 7/8	3 3/8	4 1/2	31 1/8	4	3 5/8	1	3 11/16						
22	714	3			3 3/8					33 3/8				37 3/4	3 5/8	3 3/4				

Fig. B-268, C-268

Spring Hangers (Type D & Type E)

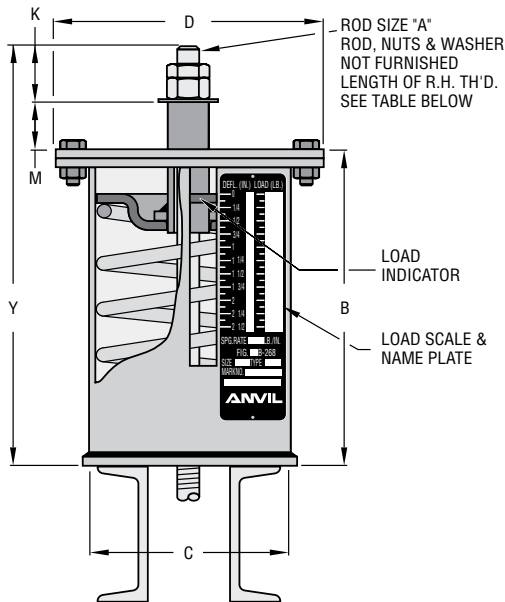


Fig. B-268 Type D

Type D permits adjustment of the hanger from the top. This type has a piece of tubing which passes through a hole in the top cap. Type D is especially adapted for use where the hanger is set above the supporting beams and pipe is suspended below.

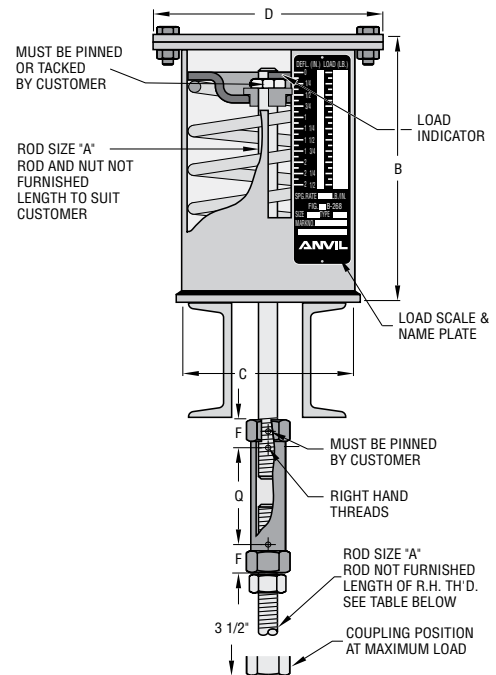


Fig. B-268 Type E

Type E is designed to permit adjustment from either above or below the hanger, when it is installed upon the supporting member and pipe is suspended below. A coupling tapped right hand both ends is furnished.

FIG. B-268, FIG. C-268 TYPE D, E: DIMENSIONS (IN) • WEIGHT (LBS)

Hanger Size	Weight (lbs)	Rod Size A	R.H. Thd Length	Casing Length B	Casing Diam C	Flange Diam D	Min Thread Engagement F	Allowance for Nuts K	Height of Spacer M	Rod Length Y	Rod Take-out Q		
000	5	1/2	5	5 5/8	4	5 1/8	1 3/16	1 1/4	3 3/8	10	6		
00	6			7 9/16						11 3/4			
0	6			6 1 1/16						11 1/16			
1	7	1/2	5	7 9/16	4	5 1/8	1 5/16	1 1/4	3 3/8	11 15/16	6		
2	8			8 5/16						12 11/16			
3	11			7 1 5/16						11 11/16			
4	12	1/2	5	8 5/8	5 9/16	6 15/16	1 5/16	1 1/4	3 3/8	12 5/16	6		
5	14			8 3/8						13			
6	22			8 3/16						13 5/16			
7	25	5/8	5	10	6 5/8	8 3/8	1 5/16	1 1/2	3	14 1/4	6		
8	26			14 3/4									
9	51			10 7/16						15 5/8			
10	58	3/4	6	12 1/8	8 5/8	10 3/4	1 1/4	1 3/4	3	16 7/8	6		
11	51			10 7/16						14 11/16			
12	56			10 7/16						15 13/16			
13	73	1	6	10 7/16	8 5/8	10 3/4	1 1/4	2 1/4	3	18 3/8	6		
14	77			13 3/8						19 1/4			
15	88			1 1/4						7		13 3/8	8 5/8
16	107	1 1/2	8	15 15/16	11 3/8	1 15/16	3 1/2	3	22 9/16				
17	133	1 3/4		18					25 1/8				
18	262	2	9	18 1/4	12 3/4	15 7/8	2 3/4	4 9/16	3	25 11/16	6		
19	300			2 1/4						20 1/2		28 3/8	
20	370			2 1/2						23 3/4		32 3/16	
21	455	2 3/4	10	27 5/16	12 3/4	16 7/8	3 5/8	6 1/4	3	35 9/16	7		
22	505			3						33 3/8		42	

SPRING HANGERS

Fig. B-268, C-268

Spring Hangers (Type F)

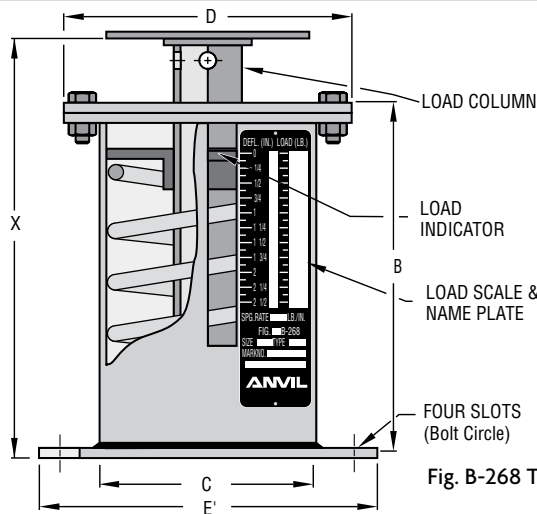
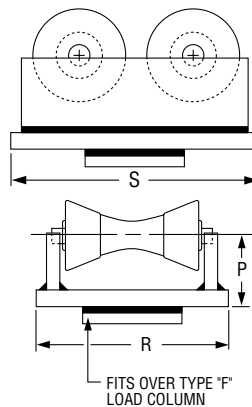


Fig. B-268 Type F



PIPE ROLL: DIMENSIONS (IN), LOAD (LBS)

Roll Size	Roll Mat'l	Max Load	P	R	S
2 - 3½	Cast Iron	780	1¼	4½	4½
4 - 6	Cast Iron	1,900	2⅝	5⅝	5½
8 - 10	Cast Iron	4,200	2¾	8¼	6¾
8 - 10	Steel	14,000	2¾	8¼	6¾
12 - 14	Cast Iron	6,150	3½	10⅝	6¾
12 - 14	Steel	26,000	3½	12	6¾
16 - 20	Cast Iron	9,960	3¾	12	6¾
16 - 20	Steel	34,000	3¾	12	6¾
24	Cast Iron	12,200	4	13¼	7
24	Steel	60,000	4	13¼	10
30	Cast Iron	15,000	4½	16½	8¼
30	Steel	60,000	5	16½	10
36	Cast Iron	24,000	4⅝	19	13
36	Steel	60,000	5	19	12

Type F is for use under a base elbow or piping that must be supported directly from the floor. If more than ¼" of horizontal translation occurs of loads resting on the flat load flange or other flat surface junction between the type F spring hanger and the load, a double roller design pipe roll is recommended. Pipe rolls, as illustrated above, will be furnished on request. For dimension of the pipe roll, refer to Fig. 271, see page 160.

Base type variable springs will be furnished with an extended load column on special order. Guided Load Columns and roller are available on request.

Adjustment to the required load rating is made by inserting a bar into holes provided in the load column and turning the column. The 2" increment between minimum and maximum "X" dimensions is the amount of field adjustment available and is in excess of the amount required for load adjustment.

FIG. B-268, FIG. C-268 TYPE F: DIMENSIONS (IN) • WEIGHT (LBS)

Hanger Size	Weight	Casing Length B	Casing Diam C	Flange Diam D	Bottom Flange Sq. E'	Bottom Flange Bolt Circle		Bottom Flange Bolts	Thickness Bottom Flange	Lengths - X*		Load Col. Diam	Load Flange Diam	Thickness of Load Flange	
						Min	Max			Min	Max				
000	11	5⅛	4	5⅝	7½	7	8¾	⅝	¼	7⅞	9⅞	1.9	3⅞	⅜	
00	12	7⅝								9⅞	11⅞				
0	12	6¾								8¼	10¼				
1	14	7⅝	4	5⅝	7½	7	8¾	⅝	¼	9⅞	11⅞	1.9	3⅞	⅜	
2	15	8⅝								9⅞	11⅞				
3	23	8								9⅞	11⅞				
4	25	8	5⅞	6⅝	7½	7	8¾	¾	¼	11⅞	13⅞	2.875	5⅝	⅜	
5	26									8⅛	10¼				12¼
6	40									8⅝	10½				12½
7	46	10⅞	6⅝	8⅝	9	8	10⅞	¾	⅝	11⅞	13⅞	3.5	6⅝	¼	
8	47									11⅞	13⅞				
9	91									10⅞	12⅞				14⅞
10	98	12¼	8⅝	10¾	13¼	10⅞	16½	¾	½	13⅞	15⅞	4.5	8⅝	½	
11	90									10⅞	12⅞				14⅞
12	95									10⅞	12⅞				14⅞
13	115	13¼	8⅝	10¾	13¼	10⅞	16½	¾	½	14⅞	16⅞	4.5	8⅝	½	
14	119									14⅞	16⅞				
15	130									13¼	14⅞				16⅞
16	150	15⅝	8⅝	10¾	13¼	10⅞	16½	¾	½	17⅞	19⅞	4.5	8⅝	½	
17	173									18	20				22
18	343									18¼	20⅞				22⅞
19	380	20½	12¾	15⅞	17¼	15¼	22	¾	⅝	22⅞	24⅞	2.5	12½	½	
20	471									23¼	25⅞				27⅞
21	496									27⅞	29⅞				31⅞
22	654	33⅞	12¾	16⅞	17¼	15¼	22	¾	⅝	35⅞	37⅞	3.0	12½	½	

*Hanger take-out or installed height. With pipe movement up, cold to hot, installed height should be the mid-point between the minimum and maximum "X" dimension, plus thickness of load flange. With pipe movement down, cold to hot installed height should be mid-point between the minimum and maximum "X" dimension, plus the amount of vertical movement and load flange thickness. Note: Sizes 16" and larger are furnished with a hexagon nut at the top of a solid load column to facilitate adjustment with a wrench.

Fig. B-268, Fig. C-268

Spring Hangers (Type G)

Type G is a complete trapeze assembly. The hanger consists of two standard spring units plus a pair of back-to-back channels welded at each end to the hanger casing.

The "P" dimension can be varied with the customer's instructions. In sizing a Type G hanger, it must be remembered that each standard spring unit carries one-half of the total pipe load.

Therefore, in using the hanger selection chart, use one-half of the total pipe load as the hot load.

When the pipe line is designed so as not to be centered on the channel, one spring of the trapeze will carry a heavier load, the other a lighter load. Care should be taken in calculating the load of each hanger and in choosing the proper sized spring in such cases. The center-to-center rod dimension must be specified when ordering.

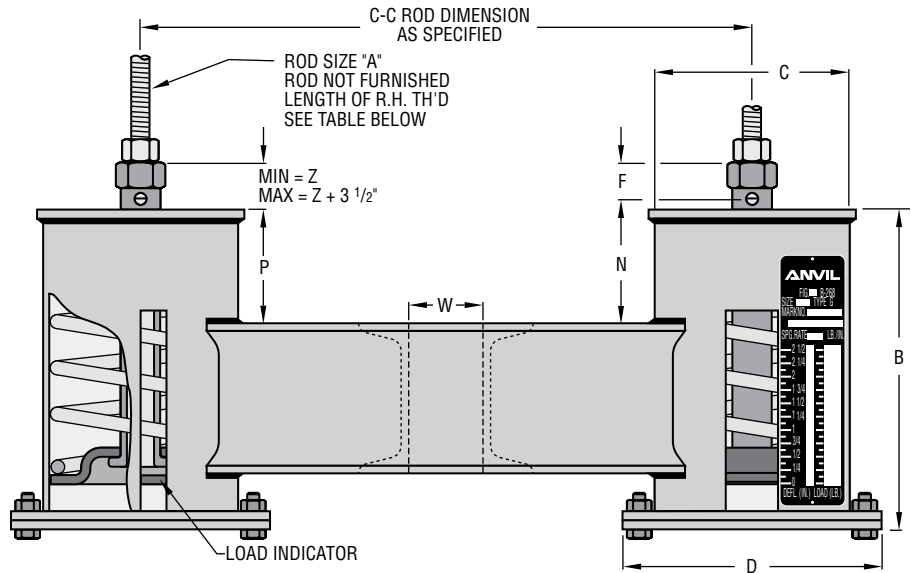


Fig. B-268 Type G

FIG. B-268, C-268 TYPE G: DIMENSIONS (IN) • WEIGHT (LBS)

Hanger Size	Weight*	Rod Size A	R.H. Thread Length	Casing Length B	Casing Dia. C	Flange Dia. D	Min Thread Engagement F	Rod Take Out N	Channel Size (lb/ft)	Max C-C	Space Between Channels W	P	Z
000	24	1/2	5	5 3/8	4	5 1/8	1 5/16	1 3/8	C3 x 4.1	24	5/8	1 1/2	1 3/16
00	26			7 1/16				1 3/4					1 3/16
0	30	1/2	5	6 11/16	4	5 1/8	1 5/16	1 5/16	C3 x 4.1	24	5/8	1 1/2	3/4
1	31			7 1/16				1 9/16					1
2	32			8 5/16				2 1/16					1
3	41	1/2	5	7 15/16	5 9/16	6 15/16	1 5/16	2 1/16	C3 x 4.1	30	3/4	2	1
4	42			7 7/16				2 7/16					1 3/8
5	43			8 5/8				1 3/4					1 11/16
6	63	5/8	5	8 13/16	6 5/8	8 3/8	1 5/16	1 5/8	C3 x 4.1	36	1	2	9/16
7	69			10				1 11/16					5/8
8	73			10 7/16				2 1/2					3/4
9	143	3/4	6	10 7/16	8 5/8	10 3/4	1 1/4	2 1/2	C4 x 5.4	36	1 1/4	3	3/4
10	157			12 1/8				3 3/4					1 1/2
11	145			10 7/16				3 7/16					1 11/16
12	157	1	6	10 7/16	8 5/8	10 3/4	1 1/4	3 13/16	C5 x 6.7	36	1 1/2	3	1 1/16
13	195			13 1/8				3 3/4					1 1/2
14	203	1 1/4	7	13 1/4	8 5/8	10 3/4	1 1/4	3 3/8	C6 x 10.5	33	1 1/2	3	3/8
15	250	1 1/4	7	13 1/4				10 3/4					3 15/16
16	298	1 1/2	8	16 1/16	8 5/8	11 3/8	1 15/16	4 1/8	C8 x 11.5	36	2 1/8	3	2 1/16
17	354	1 3/4		18 1/8				4					1 15/16
18	690	2	9	18 1/4	12 3/4	15 7/8	2 3/4	4	C12 x 20.7	42	2 5/8	3	2 9/16
19	783	2 1/4		20 1/2				4 1/8					2 5/8
20	993	2 1/2	10	23 3/4	12 3/4	16 7/8	3 5/8	4 1/8	C15 x 33.9	40	2 7/8	3	2 11/16
21	1,197	2 3/4	10	27 3/16				4 5/16					3 1/8
22	1,496	3	11	33 3/8	12 3/4	16 7/8	3 5/8	4 3/8	C15 x 33.9	48	3 3/8	3	3 3/4

* Weight based on 24" center-to-center dimension

