Model R Fig. 80-V, C-80-V vertical Model R Fig. 81-H, C-81-H Horizontal

Constant Support

ripe oports

Supp

Trapeze

pe Shields Saddles

Pipe Roll

oe Guides & Slides

Sway Brace Seismic

ng Swa ers Se

onstant Supports H

Vibration Control & Sway Brace

Sway Strut Assembly

Snubbers

Special Design Products

Index



Model R Fig. 80-V, Vertical

Finish: Standard finish; painted with semi gloss primer. Corrosion resistant; galvanized with coated coil or painted with CZ11 and coated coil. **Recommended Service:** When piping stress is critical and pipe is subject to vertical movement in excess of ½" due to thermal expansion, and also at locations where it is necessary to avoid any transfer of stress from support or onto critical terminals or connecting equipment. **Approvals:** WW-H-171E (Types 52, 58 and 59), ANSI/MSS SP-69 and MSS SP-58 (Types 54, 55 and 56).

Features:

- Because of exclusive geometric design, mathematically perfect constancy of support is maintained throughout the full range of load adjustment.
- Compactness design provides smaller and more versatile units.
- Increased load and travel capacity.
- Each hanger is individually calibrated before shipment to support the exact load specified.
- All model R constant supports have a wide range of load adjustability. No less than 10% of this adjustability is provided either side of the calibrated load.
- White button marked "C" denotes cold setting of hanger; red button marked "H" denotes hot or operating setting.
- Field load adjustment is made by turning the single load adjustment bolt.
- Covered spring provides protection and good appearance.
- J-rod swings at least 4° from vertical.
- Non-resonant to all vertical vibrations.



Size Range: Anvil Model R constant support hangers are made in two basic designs, 80- V (vertical design) and 81-H (horizontal design). Combined, the 80-V and 81-H constant supports are made in nine different frame sizes and 110 spring sizes to accommodate travels from $1^{1}/2^{1}$ to 20" and loads from 27 lbs to 87,500 lbs.

Single rod suspension: Available in Types A, B and C, Fig. 80-V (see page 190 through 192) and Fig. 81-H (see page 198 through 200). How to select hanger sizes: Determine the total load to be supported by the hanger as well as the actual travel – that is, the actual vertical movement of the pipe at the point of hanger location. Refer to the Load-Travel table for constant support hangers (see page 186 through 189) and select a size hanger which will accommodate the known load and actual travel. It must be noted that the travel shown in the table is a total travel – that is, the maximum vertical movement which the hanger will accommodate. The total travel of the hanger should always be greater than the calculated travel of pipe line to allow for some discrepancy between calculated travel and actual travel.

It is suggested that the total travel for constant supports should be equal to "actual travel" plus 1" or 20% whichever is greater.

How to determine type: After the size of the constant support is determined, consideration of available room for suspending the pipe and hanger will indicate whether a vertical (80-V series, page 190 - 197) or horizontal (81-H series, page 198 - 204) hanger is desirable.

How to determine design: After the hanger size and design are determined, the type of constant support to be used depends upon the physical installation required by the suspension problem, i.e., whether the hanger is to be installed above, between or below steel members (see line cuts referring to Types A, B, C, etc.). It will be noted that the Type F is made in horizontal design only and the type G is made in the vertical design only. Special constant support hangers can be fabricated for unusual conditions.

J-rod and K-hole diameter: Tapping or drilling for standard rod size will be furnished as shown in the J-rod and K-hole selection charts unless otherwise specified. Upper attachments, turnbuckles and clamps should be tapped to agree with the rod as shown in the selection chart. Standard rod diameters are based on the load to be carried by the upper rod which includes the weight of the hanger assembly as well as the pipe line. Tapped connections for hanger rod sizes 3" and smaller are UNC-Thread Series, Class 2 fit. 3 ¹/₄" and large rod tappings are 8UN Series Threads.

Model R (Continued)

Ordering: Specify:

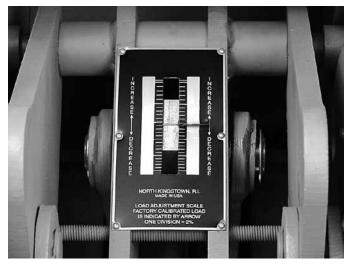
- (1) Hanger size number
- (2) Figure number
- (3) Type
- (4) Name of hanger
- (5) Loads to be supported (pounds)
- (6) Total travel (inches)
- (7) Actual travel (inches)
- (8) Direction of movement "cold to hot"
- (9) Customer's hanger mark.
- (10) When ordering Type G, specify C-C rod dimension as well as load per spring and total load.
- (11) For Types A, B, C, Fig. 81-H when required specify "for single rod suspension."
- (12) Constant Support Hangers are also available corrosion-resistant as figures C-80-V and C-81-H.

Installation:

- (1) Securely attach the hanger to the building structure at a point where the load coupling is directly over the desired point of attachment to the pipe in the operating position.
- (2) Make certain that the moving parts of the hanger will be unobstructed.
- (3) Attach the lower J-rod between the pipe attachment and the load coupling. Make certain that the lower J-rod has enough thread engagement before taking up the load. A sight hole is provided for this.
- (4) Turn the load coupling, as you would a turnbuckle, until the travel indicator rotates to the desired cold setting (white button) marked "C" indicated on the position scale. If the constant support incorporates a travel stop see below.
- (5) After the line is in operation, check hanger for indicated hot setting. If necessary, make adjustment by turning the load coupling to bring the indicator to the hot position (red button) marked "H". No other adjustment is normally required since the load as calibrated at the factory is equal to the load specified to be supported.

Adjustment: When the hanger is installed, its supporting force should be in balance with the portion of the piping weight assigned to it. Each hanger is individually calibrated before shipment to support the exact load specified. All model "R" Constant Supports have a wide range of load adjustability. Special instructions for field recalibration of individual hangers may be obtained from Anvil representatives. No less than 10% adjustability is provided either side of the calibrated load for plus or minus field load adjustment. The percentage increase or decrease from the factory calibrated load should be carefully calculated. The calibrated load setting of each hanger is indicated by a die-stamp on the load adjustment scale. Load adjustments should be made from this reference point, with each division on the patented scale equal to 2% except sizes 84-110 where each division is valued at 1%. The load adjustment is made by turning the single load adjustment bolt. For example, a calibrated load of 3,000 pounds revised to 2,760 pounds is a decrease of 240 pounds. 240/3,000 = 8%. By turning the load adjusting bolt the arrow moves in the "Decrease" direction four divisions.

Note: Field Recalibration of load does not decrease total travel.



Load adjustment scale shown applies to size 1 through 83 only. The load adjustment scale for sizes 84 through 110 1 division equals 1%.

Travel stop: The functional design of the Constant Support Hanger permits the incorporation of a travel stop that will lock the hanger against upward or downward movement for temporary conditions of underload or overload, such as may exist during erection, hydrostatic test or chemical clean-out. Anvil Constant Supports are designed for hydrostatic test load of at least 2 times the normal operating load for the Constant Support. The travel stop for sizes 19 - 110 consists of two plates, with matched serrations, attached to the hanger frame with two or more cap screws and with a socketed piece which engages the position indicator. It is installed at the factory to hold the hanger in the "cold" position. A series of serrations can be engaged to lock the hanger at any position along the total travel range. The travel stop, which is furnished only when specified, is painted red. The stop must be removed before the piping system is put into

operation, but not before the hanger is installed and fully loaded. The travel stop is released by removing the cap screws. A tag marked "Caution" and containing instructions for removal of the travel stop is attached to the hanger.

Note: See installation procedures PE-217-80 for a travel stop description on sizes 1-18.





Model R (Continued)

Model R lifting lugs:

To help alleviate the problem of lifting large size Constant Supports into position for installation, this product is available with lifting lugs (if requested) on sizes ten and larger.

Lifting Lugs (Figure 81-H): Not available on Type F.

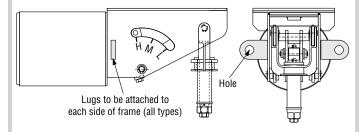
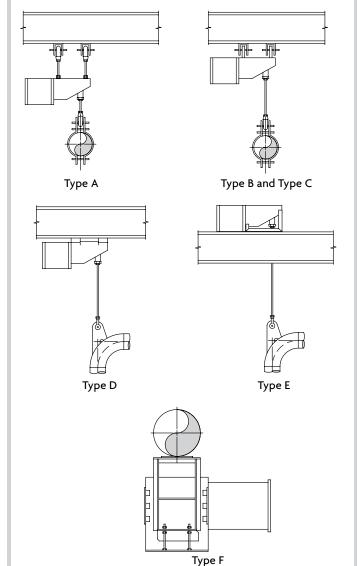
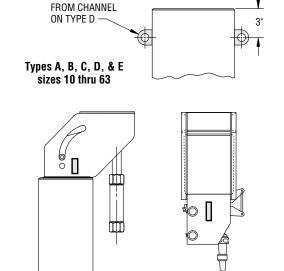


Fig. 81-H (Horizontal): Typical Applications



Lifting Lugs (Fig 80-V):

LUGS TO BE 90°

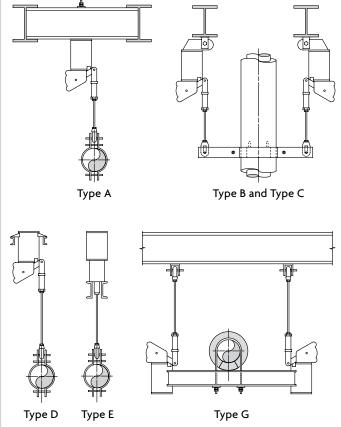


sizes 64 thru 83 Lugs to be attached to each side of frame and

will need stabilizing rigging when being lifted

Fig. 80V (Vertical): Typical Applications

sizes 84 thru 110





www.anvilintl.com 185

Trapeze

Pipe Roll

Pipe Guides & Slides

Sway Brace Seismic

Vibration Control & Sway Brace

Sway Strut Assembly

Snubbers

Table Continued on Facing Page

CONSTANT SUPPORTS

Hanger			T	OTAL T	ΓRAVE	L* (IN	; LOA	D (LBS	SEE I	NOTES	ON P	AGE 1	89		
Size No.	11/2	2	2 ½	3	31/2	4	41/2	5	5½	6	61/2	7	71/2	8	81/2
1	144	108	86	72	62	54	48	43	39	36	33	31	29	27	
	173	130	104	87	74	65	58	52	47	43	40	37	35	33	
2	204	153	122	102 117	87 100	77 88	68 78	61 70	56	51 58	47 54	44 50	41 47	38	
3 4	233 280	175 210	140 168	140	120	105	93	84	64 76	70	65	60	56	44 53	
5	327	245	196	163	140	123	109	98	89	82	75	70	65	61	
6	373	280	224	187	160	140	124	112	102	93	86	80	75	70	
7	451	338	270	225	193	169	150	135	123	113	104	97	90	85	
8	527	395	316	263	226	198	176	158	144	132	122	113	105	99	
9 10	600 727	450 545	360 436	300 363	257 311	225 273	200 242	180 218	164 198	150 182	138 168	129 156	120 145	113 136	
11	851	638	510	425	365	319	284	255	232	213	196	182	170	160	
12	977	733	586	489	419	367	326	293	267	244	226	209	195	183	
13	1,177	883	706	589	505	442	392	353	321	294	272	252	235	221	
14	1,373	1,030	824	687	589	515	458	412	375	343	317	294	275	258	
15	1,573	1,180	944	787	674	590	524	472	429	393	363	337	315	295	
16 17	1,893 2,217	1,420 1,663	1,136 1,330	947 1,109	811 950	710 832	631 739	568 665	516 605	473 554	437 512	406 475	379 443	355 416	
18	2,540	1,905	1,524	1,109	1,089	953	847	762	693	635	586	544	508	476	
	2,040														448
19		2,025	1,620	1,350	1,157	1,013	900	810	736	675	623	579	540	506	476
20		2,145	1,716	1,430	1,226	1,073	953	858	780	715	660	613	572	536	505
21		2,335	1,868	1,557	1,334	1,168	1,038	934	849	778	718	667	623	584	549
22		2,525	2,020	1,683	1,443	1,263	1,122	1,010	918	842	777	721	673	631	594
23 24		2,710 2,910	2,168 2,328	1,807 1,940	1,549 1,663	1,355 1,455	1,204 1,293	1,080 1,164	985 1,058	903 970	834 895	775 831	723 776	678 728	638 685
25		3,110	2,326	2,073	1,777	1,555	1,382	1,104	1,131	1,037	957	889	829	778	732
26		3,310	2,648	2,207	1,891	1,655	1,471	1,324	1,204	1,103	1,018	946	883	828	779
27		3,630	2,904	2,420	2,074	1,815	1,613	1,452	1,320	1,210	1,117	1,037	968	908	854
28		3,950	3,160	2,633	2,257	1,975	1,756	1,580	1,436	1,317	1,215	1,129	1,053	988	929
29		4,270	3,416	2,847	2,440	2,135	1,898	1,708	1,553	1,423	1,314	1,220	1,139	1,068	1,005
30		4,535	3,628	3,023	2,591	2,268	2,016	1,814	1,649	1,512	1,395	1,296	1,209	1,134	1,067
31 32		4,795 5,060	3,836 4,048	3,197 3,373	2,740 2,891	2,398 2,530	2,131 2,249	1,918 2,024	1,744 1,840	1,598 1,687	1,475 1,557	1,370 1,446	1,279 1,349	1,199 1,265	1,128 1,191
33		5,295	4,046	3,530	3,026	2,648	2,353	2,024	1,925	1,765	1,629	1,513	1,412	1,324	1,246
34		5,525	4,420	3,683	3,157	2,763	2,456	2,210	2,009	1,842	1,700	1,579	1,473	1,381	1,300
35			4,696	3,913	3,354	2,935	2,609	2,348	2,135	1,957	1,806	1,677	1,565	1,468	1,381
36			4,968	4,140	3,549	3,105	2,760	2,484	2,258	2,070	1,911	1,774	1,656	1,553	1,461
37			5,240	4,367	3,743	3,275	2,911	2,620	2,382	2,183	2,015	1,871	1,747	1,638	1,541
38			5,616	4,680	4,011	3,510	3,120	2,808	2,553 2,722	2,340	2,160	2,006	1,872	1,755	1,652
39 40			5,988 6,360	4,990 5,300	4,277 4,543	3,743 3,975	3,327 3,533	2,994 3,180	2,722	2,495 2,650	2,303 2,446	2,139 2,271	1,996 2,120	1,871 1,988	1,761 1,871
41			6,976	5,813	4,983	4,360	3,876	3,488	3,171	2,907	2,683	2,491	2,325	2,180	2,052
42			7,588	6,323	5,420	4,743	4,216	3,794	3,449	3,162	2,919	2,710	2,529	2,371	2,232
43			8,200	6,833	5,857	5,125	4,556	4,100	3,727	3,417	3,154	2,929	2,733	2,563	2,412
44			8,724	7,270	6,231	5,453	4,847	4,362	3,965	3,635	3,355	3,116	2,908	2,726	2,566
45			9,284	7,737	6,631	5,803	5,158	4,642	4,220	3,868	3,571	3,316	3,095	2,901	2,731
46 47			9,760	8,133	6,971	6,100	5,422	4,880	4,436	4,067	3,754	3,486	3,253	3,050	2,871
48			10,376 10,988	8,647 9,157	7,411 7,848	6,485 6,868	5,764 6,104	5,188 5,494	4,716 4,995	4,323 4,578	3,991 4,226	3,706 3,924	3,459 3,663	3,243 3,434	3,052 3,232
49			11,600	9,667	8,286	7,250	6,444	5,800	5,273	4,833	4,462	4,143	3,867	3,625	3,412
50			11,000	10,367	8,886	7,775	6,911	6,220	5,655	5,183	4,785	4,443	4,147	3,888	3,659
51				11,067	9,486	8,300	7,378	6,640	6,036	5,533	5,108	4,743	4,427	4,150	3,906
52				11,847	10,154	8,885	7,898	7,108	6,462	5,923	5,468	5,077	4,739	4,443	4,181
53				12,623	10,820	9,468	8,415	7,574	6,886	6,311	5,826	5,410	5,049	4,734	4,455
54 55				13,400 14,713	11,486 12,611	10,050 11,035	8,933 9,809	8,040 8,828	7,309 8,026	6,700 7,356	6,185 6,791	5,743 6,306	5,360 5,885	5,025 5,518	4,730 5,193
56 56				16,023	13,734	12,018	10,682	9,614	8,026	8,011	7,396	6,867	6,409	6,009	5,655
57				17,333	14,857	13,000	11,555	10,400	9,455	8,666	8,000	7,429	6,933	6,500	6,118
58				18,423	15,791	13,818	12,282	11,054	10,049	9,211	8,503	7,896	7,369	6,809	6,503
59				19,510	16,723	14,633	13,007	11,706	10,642	9,755	9,005	8,362	7,804	7,316	6,886
60				20,600	17,657	15,450	13,733	12,360	11,236	10,300	9,508	8,829	8,240	7,725	7,271
61				21,890	18,763	16,418	14,593	13,134	11,940	10,945	10,103	9,382	8,756	8,209	7,726
62				23,176	19,665	17,383	15,451	13,906	12,642	11,588	10,697	9,933	9,270	8,691	8,180
63	401	477	011	24,463	20,968	18,348	16,309	14,678	13,344	12,231	11,291	10,484	9,785	9,174	8,634
3" (avg. in.)	1 3/8	1 1//8	2 ½	2 ³ / ₄	31/4	3 5/8	4 ½	4 5/8	5 ½	5 ½	6	6½	6 ⁷ / ₈	7 3/8	7 ½

☐ Shading in gray indicates this item is available upon request.

ANVIL® INTERNATIONAL

Hanger		1	1		1	L* (IN									1
Size No.	9	9½	10	10½	11	11½	12	12 ½	13	13½	14	14½	15	15½	16
1 2															
3															
4															
5															
6															
7 8															
<u> </u>															
10															
11															
12															
13															
14 15															
16															
17															
18															
19	423	401	381												
	450	426	405												
20	477 519	452	429												
21 22	561	492 532	467 505												
23	602	571	542												
24	647	613	582												
25	691	655	622												
26	736	697	662												
27 28	807 878	764 832	726 790												
29	949	899	854												
30	1,008	955	907												
31	1,066	1,009	959												
32	1,124	1,065	1,012												
33	1,177	1,115	1,059												
34	1,228	1,163	1,105	1,053	1,005	962	922	885	851	819	790				
35	1,304	1,236	1,174	1,118	1,005	1,021	978	939	903	870	838				
36	1,380	1,307	1,242	1,1183	1,129	1,080	1,035	994	955	920	887				
37	1,456	1,379	1,310	1,248	1,191	1,139	1,092	1,048	1,008	970	936				
38	1,560	1,478	1,404	1,337	1,276	1,221	1,170	1,123	1,080	1,040	1,003				
39	1,663	1,576	1,497	1,426	1,361	1,302	1,247	1,198	1,151	1,109	1,069				
40 41	1,767 1,938	1,674 1,836	1,590 1,744	1,514 1,661	1,445 1,585	1,383 1,516	1,325 1,453	1,272 1,395	1,223 1,341	1,178 1,292	1,136 1,246				
42	2,108	1,997	1,744	1,807	1,724	1,649	1,453	1,518	1,459	1,405	1,355				
43	2,278	2,158	2,050	1,952	1,863	1,782	1,708	1,640	1,577	1,518	1,464				
44	2,423	2,296	2,181	2,077	1,983	1,896	1,817	1,745	1,678	1,615	1,558				
45	2,579	2,443	2,321	2,210	2,110	2,018	1,934	1,857	1,785	1,719	1,658				
46	2,711	2,568	2,440	2,324	2,218	2,122	2,033	1,952	1,877	1,807	1,743				
47 48	2,882 3,052	2,730 2,891	2,594 2,747	2,470 2,616	2,358 2,497	2,255 2,389	2,162 2,289	2,075 2,198	1,995 2,113	1,921 2,035	1,853 1,962				
49	3,222	3,053	2,747	2,762	2,497	2,522	2,209	2,196	2,113	2,033	2,071				
50	3,456	3,274	3,110	2,962	2,827	2,704	2,592	2,488	2,392	2,304	2,221	2,001	1,934	1,871	1,813
				•		· ·						2,145	2,073	2,006	1,944
51 52	3,689 3,949	3,495 3,741	3,320 3,554	3,162 3,384	3,018 3,231	2,887 3,090	2,767 2,962	2,656 2,843	2,554 2,734	2,459 2,632	2,371 2,538	2,289 2,451	2,213 2,369	2,142 2,293	2,075 2,221
53	4,208	3,986	3,787	3,606	3,442	3,293	3,156	3,030	2,734	2,805	2,705	2,431	2,524	2,443	2,367
54	4,467	4,231	4,020	3,828	3,654	3,495	3,350	3,216	3,092	2,978	2,871	2,772	2,680	2,593	2,513
55	4,904	4,646	4,414	4,203	4,012	3,838	3,678	3,531	3,395	3,269	3,152	3,044	2,942	2,847	2,759
56	5,341	5,060	4,807	4,518	4,370	4,180	4,006	3,846	3,698	3,561	3,433	3,315	3,204	3,101	3,004
57	5,778	5,474	5,200	4,952	4,727	4,521	4,333	4,160	4,000	3,852	3,714	3,586	3,466	3,355	3,250
58 59	6,141 6,503	5,818 6,161	5,527 5,853	5,263 5,574	5,024 5,320	4,806 5,089	4,606 4,877	4,422 4,682	4,251 4,502	4,094 4,335	3,947 4,180	3,811 4,036	3,684 3,902	3,565 3,776	3,454 3,658
60	6,867	6,505	6,180	5,885	5,618	5,089	5,150	4,082	4,502	4,335	4,180	4,036	4,120	3,776	3,863
61	7,297	6,912	6,567	6,254	5,969	5,710	5,472	5,254	5,051	4,864	4,690	4,529	4,378	4,236	4,104
62	7,725	7,319	6,953	6,621	6,320	6,046	5,794	5,562	5,348	5,150	4,965	4,795	4,635	4,485	4,346
63	8,154	7,725	7,339	6,989	6,671	6,381	6,116	5,871	5,645	5,436	5,242	5,061	4,892	4,734	4,587
B" (avg. in.)	81/4	83/4	91/4	95/8	101/8	105/8	11	11½	12	12 ³ / ₈	12 ½	13 %	13 %	141/4	143/4

 $[\]hfill \square$ Shading in gray indicates this item is available upon request.



www.anvilintl.com **187**

Hanger				TOT	AL TR	AVEL ³	* (IN)	LOA	D (LBS	S) SEE	NOT	ES ON	I PAG	E 189			
Size No.	4	41/2	5	5 ½	6	61/2	7	7 ½	8	81/2	9	91/2	10	10½	11	11½	12
64	19,225	17,089	15,380	13,982	12,816	11,831	10,986	10,253	9,613	9,047	8,544	8,094	7,690	7,323	6,990	6,686	6,408
65	20,100	17,866	16,080	14,618	13,400	12,370	11,486	10,720	10,050	9,459	8,933	8,463	8,040	7,657	7,308	6,991	6,700
66	22,068	19,615	17,654	16,049	14,711	13,580	12,610	11,769	11,034	10,385	9,808	9,291	8,827	8,406	8,024	7,675	7,356
67	24,033	21,362	19,226	17,478	16,021	14,790	13,733	12,817	12,016	11,310	10,681	10,119	9,613	9,154	8,738	8,359	8,011
68	26,000	23,111	20,800	18,909	17,333	16,000	14,857	13,866	13,000	12,236	11,555	10,947	10,400	9,904	9,454	9,043	8,666
69	27,635	24,564	22,108	20,098	18,423	17,007	15,792	14,738	13,818	13,005	12,282	11,635	11,054	10,527	10,048	9,611	9,211
70	29,268	26,015	23,414	21,286	19,511	18,011	16,725	15,609	14,632	13,773	13,008	12,323	11,707	11,149	10,642	10,179	9,755
71	30,900	27,466	24,720	22,473	20,599	19,016	17,657	16,480	15,450	14,542	13,733	13,010	12,360	11,770	11,235	10,747	10,300
72	32,835	29,186	26,268	23,880	21,889	20,207	18,763	17,512	16,418	15,452	14,593	13,825	13,134	12,508	11,939	11,420	10,945
73	34,768	30,904	27,814	25,286	23,177	21,396	19,868	18,542	17,384	16,362	15,452	14,639	13,907	13,244	12,641	12,092	11,589
74	36,700	32,622	29,360	26,691	24,466	22,585	20,972	19,573	18,350	17,271	16,311	15,452	14,680	13,980	13,344	12,764	12,233
75	38,800	34,489	31,040	28,218	25,866	23,878	22,172	20,693	19,400	18,259	17,244	16,336	15,520	14,780	14,108	13,495	12,933
76 77	40,900	36,355 38,222	32,720 34,400	29,746 31,273	27,266 28,666	25,170 26,462	23,372 24,572	21,813 22,933	20,450 21,500	19,248 20,236	18,178 19,111	17,221 18,105	16,360 17,200	15,580 16,380	14,871 15,635	14,225 14,955	13,633 14,333
78	45,335	40,297	36,268	32,971	30,222	27,899	25,906	24,178	22,668	21,335	20,149	19,088	18,134	17,269	16,484	15,768	15,111
79	47,668	42,371	38,134	34,668	31,779	29,335	27,239	25,422	23,834	22,432	21,185	20,070	19,067	18,158	17,332	16,579	15,889
80	50,000	44,444	40,000	36,364	33,332	30,770	28,572	26,666	25,000	23,530	22,222	21,052	20,000	19,046	18,180	17,390	16,666
81	52,500	46,666	42,000	38,182	35,000	32,309	30,000	27,999	26,250	24,707	23,333	22,105	21,000	19,998	19,089	18,260	17,500
82	55,000	48,888	44.000	40,000	36,665	33,847	31,429	29,333	27,500	25,883	24,444	23,157	22,000	20,951	20,000	19,129	18,333
83	57,500	51,111	46,000	41,819	38,332	35,386	32,858	30,666	28,750	27,060	25,555	24,210	23,000	21,903	20,907	20,000	19,166
84	0.,000	0.,	49,200	44,728	40,998	37,847	35,144	32,799	30,750	28,942	27,333	25,894	24,600	23,427	22,361	21,390	20,500
85			52,400	47,637	43,665	40,309	37,429	34,932	32,750	30,824	29,111	27,578	26,200	24,950	23,816	22,781	21,832
86			55,400	50,364	46,165	42,616	39,572	36,932	34,625	32,589	30,777	29,157	27,700	26,379	25,179	24,085	23,082
87			58,400	53,091	48,665	44,924	41,715	38,932	36,500	34,354	32,444	30,736	29,200	27,807	26,543	25,389	24,332
88			61,400	55,819	51,165	47,232	43,858	40,932	38,375	36,119	34,111	32,315	30,700	29,236	27,906	26,694	25,582
89			66,000	60,000	54,998	50,771	47,144	43,999	41,250	38,825	36,666	34,736	33,000	31,426	29,997	28,694	27,500
90					61,331	56,617	52,572	49,065	46,000	43,295	40,888	38,736	36,800	35,045	33,451	31,998	30,665
91					67,164	62,002	57,573	53,732	50,375	47,413	44,777	42,420	40,300	38,378	36,633	35,041	33,582
92					73,500	67,848	63,001	58,799	55,125	51,884	49,000	46,420	44,100	41,996	40,087	38,345	36,749
93					80,830	74,617	69,287	64,665	60,625	57,060	53,888	51,051	48,500	46,187	44,087	42,171	40,415
94					87,500	81,540	75,716	70,665	66,250	62,355	58,888	55,788	53,000	50,472	48,177	46,084	44,165
95							78,930	73,665	69,063	65,002	61,388	58,156	55,250	52,615		48,040	46,040
96							82,145	76,665	71,875	67,649	63,888	60,525	57,500	54,757	52,268	50,000	47,915
97							85,360	79,665	74,688	70,296	66,388	62,893	59,750	56,900	54,313	51,953	49,790
98							87,500	82,665	77,500	72,943	68,888	65,261	62,000	59,043	56,358	53,909	51,665
99								85,998	80,625	75,884	71,666	67,893	64,500	61,423	58,631	56,083	53,748
100								87,500	83,750	78,826	74,444	70,524	67,000	63,804	60,903	58,257	55,831
101									86,875	81,767	77,221	73,156	69,500	66,185	63,176	60,430	57,914
102									87,500	84,708	80,000	75,787	72,000	68,566	65,448 68,402	62,604	60,000
103										87,500	83,610 87,221	79,210 82,629	75,250	71,661		65,430 68,256	
104											87,500	86,050	78,500 81,750	74,756 77,851	71,357 74,311	71,082	65,414 68,122
105											01,500	87,500	85,000	80.946	77,265	73,908	70,831
107												07,500	87,500	,-	· ·		
107													07,300	87.500			77,000
109														07,000	87.446		
110																86,950	83,330
"B" dim Sizes 64 to 83	3 5⁄8	41/8	4 5⁄8	5 ½	5 ½	6	6½	6 7⁄8	7 3/8	7 ½	81/4	83/4	91/4	95/8	101//8	105%	11
"B" dim Sizes 84 to 110			43/16	4 ⁹ ⁄ ₁₆	5	5 3// ₈	5 ¹³ ⁄ ₁₆	61/4	6 5⁄/8	7 ½16	71/2	7 ⁷ / ₈	8 ⁵ ⁄ ₁₆	83/4	91/8	9%16	10

 $[\]hfill \square$ Shading in gray indicates this item is available upon request.



Hanger						TOTA	AL TRA	AVEL*	(IN); L	.OAD	(LBS)					
ize No.	12 ½	13	13½	14	14½	15	15½	16	16½	17	17 ½	18	18½	19	19½	20
64	6,152	5,915	5,696	5,492	5,303	5,126	4,961	4,806								
65	6,432	6,184	5,955	5,742	5,544	5,359	5,187	5,025								
66	7,062	6,790	6,538	6,304	6,087	5,884	5,694	5,517								
67	7,690	7,394	7,120	6,966	6,629	6,408	6,201	6,008								
68	8,320	8,000	7,703	7,428	7,172	6,933	6,709	6,500								
69	8,843	8,503	8,188	7,895	7,623	7,369	7,131	6,909								
70	9,366	9,005	8,671	8,361	8,073	7,804	7,552	7,317								
71	9,888	9,507	9,155	8,828	8,523	8,239	7,973	7,725								
72	10,507 11,126	10,103	9,728	9,380 9,932	9,057	8,755	8,473	8,209								
73		10,697	10,301		9,590	9,270	8,971	8,692								
74 75	11,744 12,416	11,292 11,938	10,873 11,496	10,484 11,084	10,123 10,703	9,786 10,346	9,470 10,012	9,175 9,700								
76	13,088	12,584	12,118	11,684	11,282	10,346	10,554	10,225								
77	13,760	13,230	12,740	12,284	11,861	11,466	11,096	10,750								
78	14,507	13,949	13,432	12,204	12,505	12,088	11,698	11,334								
79	15,254	14,666	14,123	13,618	13,149	12,710	12,300	11,917								
80	16.000	15,384	14,814	14,284	13,792	13,332	12,902	12,500								
81	16,800	16,153	15,555	14,998	14,482	14,000	13,547	13,125								
82	17,600	16,922	16,295	15,712	15,171	14,665	14,192	13,750								
83	18,400	17,692	17,036	16,427	15,861	15,332	14,837	14,375								
84	19,680	18,922	18,221	17,569	16,964	16,398	15,869	15,375								
85	20,960	20,153	19,406	18,712	18,068	17,465	16,902	16,375								
86	22,160	21,307	20,517	19,783	19,102	18,465	17,869	17,313								
87	23,360	22,461	21,628	20,855	20,136	19,465	18,837	18,250								
88	24,560	23,614	22,739	21,926	21,171	20,465	19,805	19,188								
89	26,400	25,384	24,443	23,569	22,757	21,998	21,288	20,626								
90	29,440	28,307	27,258	26,283	25,377	24,531	23,740	23,000								
91	32,240	31,000	29,850	28,782	27,791	26,864	25,998	25,188								
92	35,280	33,922	32,665	31,496	30,411	29,397	28,449	27,563								
93	38,800	37,306	35,924	34,639	33,446	32,330	31,287	30,313								
94	42,400	40,768	39,257	37,583	36,549	35,330	34,190	33,125								
95	44,200	42,498	40,924	39,460	38,100	36,830	35,642	34,531	32,119	31,175	30,285	29,442	28,647	27,894	27,179	26,5
									33,482	32,498	31,570	30,691	29,863	29,078	28,332	27,6
96	46,000	44,230	42,590	41,067	39,652	38,330	37,093	35,938	34,845	33,822	32,856	31,941	31,080	30,262	29,486	28,7
97	47,800	45,960	44,257	42,673	41,204	39,829	39,545	37,344	36,209	35,145	34,141	33,191	32,295	31,446	30,640	29,8
98 99	49,600 51,600	47,690 49,613	45,923 47,775	44,280 46,066	42,755 44,479	41,329 42,996	40,000 41,609	38,750 40,313	37,572 39,087	36,468 37,939	35,427 36,855	34,441 35,830	33,511 34,862	32,631 33,946	31,794 33,076	31,0 32,2
100	53,600	51,536	49,627	47,851	46,203	44,662	43,221	41,875	40,602	39,409	38,284	37,219	36,214	35,262	34,358	33,5
101	55,600	53,459	51,479	49,637	47,927	46,329	44,834	43,438	42,117	40,880	39,712	38,607	37,565	36,578	35,640	34,7
102	57,600	56,382	53,330	51,422	49,651	47,995	46,447	45,000	43,632	42,350	41,141	39,996	38,916	37,894	36,922	36,0
103	60,200	57,882	55,738	53,744	51,892	50,162	48,544	47,031	45,602	44,262	42,998	41,801	40,673	39,604	38,588	37,6
104	62,800	60,382	58,145	56,065	54,134	52,328	50,640	49,063	47,571	46,174	44,855	43,607	42,429	41,315	40,255	39,2
105	65,400	62,882	60,552	58,386	56,375		52,737	51,094	49,541	48,085	46,712		44,186	43,025	41,921	40,8
106	68,000	65,382	62,960	60,707	58,616	56,661	54,834	53,125	51,510	50,000	48,569	47,218	45,943	44,736	43,588	42,5
107	70,960	68,228	65,700	63,350	61,168	59,127	57,220	55,438	53,752	52,173	50,683	49,273	47,942	46,683	45,485	44,3
108	73,920	71,074	68,441	65,992	63,719	61,594	59,607	57,750	55,994	54,350	52,797	51,328	49,942	48,630	47,383	46,2
109	76,960	74,000	71,255	68,706	66,340	64,127	62,059	60,125	58,297	56,585	54,969	53,439	52,000	50,630	49,331	48,1
110	80,000	76,920	74,070	71,420	68,960	66,660	64,510	62,500	60,600	58,820	57,140	55,550	54,050	52,630	51,280	50,0
B" dim Sizes 4 to 83	11½	12	123/8	127/8	13%	137/8	141/4	14¾	_	_	_	_	_	_	_	_
B" dim Sizes 4 to 110	103/8	10 ¹³ ⁄ ₁₆	11 ³ ⁄ ₁₆	115%	12 ½16	12 ½	12 ⁷ / ₈	135/16	13 ¹¹ ⁄ ₁₆	141/8	14%16	14 ¹⁵ ⁄ ₁₆	153/8	15¾	16 ³ ⁄ ₁₆	165

Shading in gray indicates this item is available upon request.

www.anvilintl.com 189

Straps

Trapeze

Pipe Roll

Pipe Guides & Slides

Vibration Control & Sway Brace

Sway Strut Assembly

Snubbers

Special Design Products

Master Format 3 Part Specs.

Index

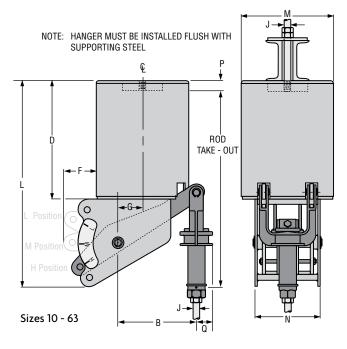
^{(1) *} Note: Total travel equals actual travel plus 1" or 20% (whichever is greater), rounded up to nearest ½" as applicable.
(2) Constant supports are readily available for travel and load not listed in this table. Dimensions and lug locations may vary from those shown on the following pages.

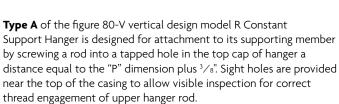
⁽³⁾ For Type F Upthrust see page 203 for standard travel and sizes.

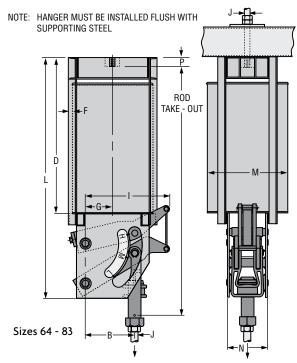
⁽⁴⁾ Fig. 80-V are not available for sizes 1 thru 9.

Fig. 80-V Type A

Model R







Notes: See load travel tables, page 186 through 189 for "B" dimension. For weights see page 205. Location of travel indicator and contour of side plate may vary from that shown.

					FIG. 8	0-V, T	YPE A	DIME	NSIO	NS (IN)				
Hanger						Dia.				Total			J-rod	
Sizes	L	D	F	G	I	M	N	Р	Q	Travel	Factors	Min Thd	Roc	Dla.
01203										TT		Length	Min	Max
1 - 9	Available	e in Fig. 8	1-H only											
10 10	187/8	87/8	2	11/2		85/8	67/16	7/8	1%	5 or less	16 ¹⁵ / ₁₆	1¾ + TT	1/2	3/4
10 - 18	1078	078		1 72	•	078	0716	78	178	5½ or more	191/4	174 + 11	72	94
19 - 34	28½	16	21/8	25/8		123/4	89/16	111/8	15/8	5 or less	2715/16	2% + TT	1/2	11/4
13 - 34	20/2	10	2/8	Z/8		12/4	0/16	1 /8	1 /8	5½ or more	301/16	Z/8 T 11	/2	1 / 4
35 - 49	32¾	181/4	43/4	33/4		14	913/16	1½	2½	6 or less	32%	31/4 + TT	1/2	13/4
00 - 40	JZ /4	1074	7/4	J/4		17	3 / 16	1 / 2	L /2	6½ or more	37	J/4 T 11	/2	1/4
50 - 63	46 ⁷ / ₈	281/8	8 ⁵ ⁄ ₁₆	57/8		18	111/4	2	3	11 or less	46½	41/4 + TT	3/4	21/4
30 - 03	70/0	2078	0/16	J/8		10	11/4		3	11½ or more	51¾	7/4 + 11	/4	Z /4
64 - 74	67½	441/4	1 ³ ⁄ ₁₆	71/2	253/8	223/16	11	2½	_	10½ or less	77%	5¾ + TT	11/4	23/4
U-1 1 -	01 /2	77/4	1/10	1 /2	20/0	22/10	''	- /2		11 or more	77¾	U/4 T I I	1/4	L /4
75 - 83	69½	461/4	1½	7½	253/8	273/16	11	3	_	10½ or less	78 ³ ⁄ ₁₆	5¾ + TT	1½	31/4
10 - 00	03/2	TU / 4	1/2	1/2	20/8	21/10	''			11 or more	785/16	J/4 T 11	1/2	J/4
84-110	See pag	e 197												

Rod take-out = (factor) - (TT / 2), for lever in high position.

• "1" dimension for sizes 10 through 63 equals "B" + "Q" Note: See the size selection chart (page 186 through 189) for the "B" dimension.

					J-ROD	SELECT	ION CI	HART					
Load (lbs)	0 800	801 1,500	1,501 2,540	2,541 4,000	4,001 6,100	6,101 9,400	9,401 13,400	13,401 18,300	18,301 24,700	24,701 31,000	31,001 39,000	39,001 48,000	48,001 58,000
J Rod Size	1/2	5/8	3/4	1	11/4	1½	13/4	2	21/4	21/2	23/4	3	31/4*

^{* 31/4} is furnished with 4 UNC series thread.

Fig. 80-V Type B

Model R

iei k 😤

Trapeze

Pipe Roll

Pipe Guides & Slides

Sway Brace Seismic

Vibration Control & Sway Brace

Sway Strut Assembly

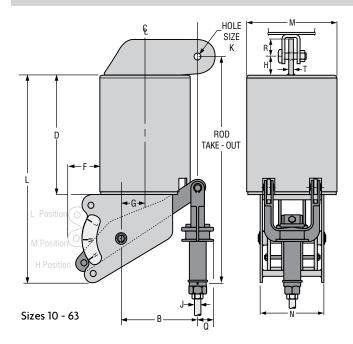
Snubbers

Special Design Products

Master Format 3 Part Specs.

Index

PH-11.11



Sizes 64 - 83

Type B is furnished with a single lug for attachment to the building structure. The lug permits use of a figure 66* welded beam attachment, a figure 299 clevis or a pair of angles for attachment where headroom is limited.

Notes: See load travel tables, page 186 through 189 for "B" dimension. For weights see page 205. Location of travel indicator and contour of side plate may vary from that shown.

						FIG	. 80-	V, TY	PE B	DIMENSIONS (IN	1)					
Hanger	_	_					Dia.			_	_	Total		J-I	rod	
Size	L	D	F	G	Н		M	N	Q	R	Т	Travel TT	Factors	Min Thd Length	Rod Min	
1-9	Availa	ble in F	ig. 81-l	only	1											
10-18	187/8	87/8	2	1½	11/2		85/8	67/16	13/8	1½	3/8	5 or less	19 5⁄16	1¾ + TT	1/2	3/4
10-10	10/8	0 /8		1 /2	1 /2		078	0/16	1 78	1 /2	78	5½ or more	21%	174 + 11	/2	74
19-34	28½	16	21/8	25/8	2		123/4	89/16	15/8	1½	5/8	5 or less	311/16	23/8 + TT	1/2	11/4
13-34	20/2	10	2/8	2/8			12/4	0/16	1 /8	1 / 2	/8	5½ or more	33¾16	Z/8 T 11	/2	1 /4
05.40	003/	101/	43/	03/		_	4.4	0137	01/	11/4 K-hole & smaller, 11/2	3/	6 or less	367/8	01/ . TT	1/	43/
35-49	32¾	181/4	43/4	3¾	3	•	14	913/16	2½	1% K-hole and larger, 2	3/4	6½ or more	411/2	31/4 + TT	1/2	13/4
50.00	407/	001/	05/	F 7/			40	441/		15/16 K-hole, 11/2		11 or less	52½	41/ TT	2/	01/
50-63	467/8	281/8	85/16	57/8	4	•	18	1111/4	3	1½ thru 1½ K-hole, 2 1¾ K-hole and larger, 3		11½ or more	57¾	4¼ + TT	3/4	21/4
C4 74	68	071/	13/	71/	41/	0.537	003/	44		1½ K-hole, 2	2	10½ or less	771/4	F3/ . TT	11/	03/
64-74	08	371/4	1 ³ ⁄ ₁₆	71/2	41/2	25%	223/16	11	21/	1¾ K-hole and larger, 3	2	11 or more	77%	$5\frac{3}{4} + TT$	11/4	23/4
75-83	69½	38	1½	71/2	35/8	2534	273/16	11	3 1/4	31/4 33/4	21/2	10½ or less	77 ¹⁵ / ₁₆	5 3/ TT	11/	31/4
75-83	09/2	38	1 1/2	1 1/2	3%	25%	21916	11		3%4	2 ¹ /2	11 or more	781/16	$5\frac{3}{4} + TT$	1½	3 7/4
84-110	See p	age 197	7													

Rod take-out = (factor) - (TT / 2), for lever in high position. • "I" dimension for sizes10 through 63 equals "B" + "Q"

^{*} For constant support sizes 50-63 and 64-74 where 11/4" rod is required, check the "R" dimensions versus the Fig. 66 welded beam attachment dimensions for compatibility. Note: See the size selection chart (page 186 through 189) for the "B" dimension. K hole center line location is determined by the formula of "B - G = K Center Line".

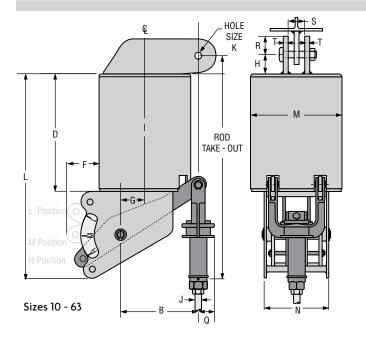
					J-ROD	SELECT	TON CI	HART							
Load (lbs)	oad (lbs) 0 801 1,501 2,541 4,001 6,101 9,401 13,401 18,301 24,701 31,001 39,001 48,001 13,401 18,300 24,700 31,000 39,000 48,000 58,000														
J-Rod Size	1/2	5/8	3/4	1	11/4	1½	13/4	2	21/4	21/2	23/4	3	31/4*		
K-Hole	11/16	¹³ / ₁₆	¹⁵ / ₁₆	11/4	1½	13/4	2	23//8	25/8	27/8	31//8	33/8	35%		

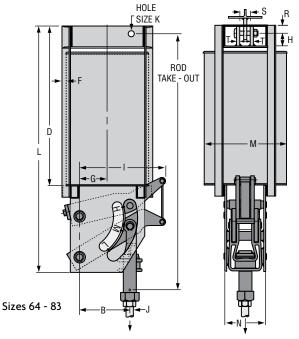
^{* 31/4&}quot; is furnished with 4 UNC series thread.



Fig. 80-V Type C

Model R





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

Notes: See load travel tables, page 186 through 189 for "B" dimension. For weights see page 205. Location of travel indicator and contour of side plate may vary from that shown.

						FIG	. 80-	V, TY	PE C	: DIMENSIONS (IN	۷)					
Hanger							Dia.					Total		J-ı	rod	
Size	L	D	F	G	Н	I	M	N	Q	R	T	Travel TT	Factors	Min Thd Length		Dla. Max
1-9	Availa	ble in F	ig. 81-ŀ	only						1						
10-18	187/8	87/8	2	1½	11/2		85/8	67/16	1%	1½	3/8	5 or less	195/16	1¾+TT	1/2	3/4
10-10	10/8	0 /8		1 /2	1 /2		078	0/16	178	1 /2	78	5½ or more	21%	1/4+11	/2	74
19-34	28½	16	21/8	25/8	2		123/4	8%16	1%	1½	5/8	5 or less	311/16	23/8 + TT	1/2	11/4
13-34	20/2	10	2/8	2/8			12/4	0/16	1 /8	1 /2	/8	5½ or more	33¾16	Z/8 T 11	/2	1/4
05.40	003/	4.01/	43/	03/		_	4.4	0137	01/	1½ K-hole & smaller, 1½	3/	6 or less	367//8	01/ . TT	1/	43/
35-49	32¾	181/4	43/4	3¾	3	•	14	913/16	2½	1% K-hole and larger, 2	3/4	6½ or more	411/2	31/4 + TT	1/2	13/4
F0 C0	407/	001/	05/	F 7/		_	10	441/	_	15/16 K-hole, 11/2		11 or less	52½	41/ . TT	3/	01/
50-63	467/8	281/8	85/16	57//8	4	•	18	1111/4	3	1½ thru 1¾ K-hole, 2 1½ K-hole and larger, 3	'	11½ or more	57¾	41/4 + TT	3/4	21/4
C4 74	CO	003/	43/	71/	_	0.537	003/	44	01/	0	1/2	10½ or less	771/4	F3/ . TT	41/	03/
64-74	68	36¾	1 ³ ⁄ ₁₆	71/2	5	25%	223/16	11	31/4	3	//2	11 or more	77%	$5\frac{3}{4} + TT$	11/4	23/4
75 00	601/	371/4	11/2	71/	61/	253/	273/	11	31/4	33/4	4	10½ or less	7715/16	E3/ . TT	11/	31/4*
75-83	69½	3174	1 72	7½	61/4	25%	27 ³ ⁄ ₁₆		374	3%4		11 or more	781/16	5¾ + TT	1 72	374
84-110	See pa	age 197	7													

Rod take-out = (factor) - (TT / 2), for lever in high position. • "I" dimension for sizes 10 through 63 equals "B" + "Q"

Note: See the size selection chart (page 186 through 189) for the "B" dimension. K hole center line location is determined by the formula of "B - G = K Center Line".

Load (lbs)	0 800	801 1,500	1,501 2,540	2,541 4,000	4,001 6,100	6,101 9,400	9,401 13,400	13,401 18,300	18,301 24,700	24,701 31,000	31,001 39,000	39,001 48,000	48,001 58,000
J-Rod Size	1/2	5/8	3/4	1	11/4	1½	13/4	2	21/4	21/2	23/4	3	31/4*
K-Hole Size	11/16	¹³ / ₁₆	¹⁵ / ₁₆	11/4	1½	1¾	2	23//8	25/8	27//8	31//8	3¾	35/8
S	7/8	11/16	11/4	1 5⁄/8	2	23/8	2 5/8	27/8	31//8	3¾	35/8	37/8	41//8

^{*} $3\frac{1}{4}$ " is furnished with 4 UNC series thread.



Fig. 80-V Type D

Model R

Strap

upports

Trapeze

e Shields Saddles

Pipe Roll Pipe & S

Pipe Guides P & Slides

Brace Pip imic 8

Sway E Seisr

pports Ha

Vibration Control & Sway Brace

Sway Strut Assembly

lesign Snubbers cts

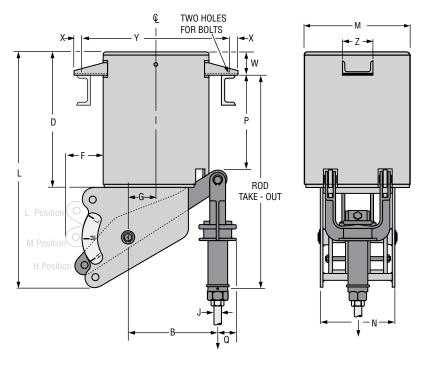
Special Design Products

> Applicatio Examples

Master Format 3 Part Specs.

Technical Data

Index



Type D rests on top of structural steel while most of the Constant Support itself hangs between or below the supporting beams. The depth of the beam is limited by the "P" dimension. Dimension "P" can be varied on special order, however, "P" dimension shown is maximum for the hanger.

Notes: See load travel tables, page 186 through 189 for "B" dimension. For weights see page 205. Location of travel indicator and contour of side plate may vary from that shown.

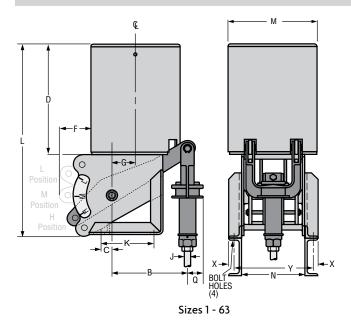
							FIG	i. 80-	V: D	IME	1510	NS	(IN)					
Hanger	_				Dia.							_	Bracket	Total		J.	Rod	
Sizes	L	D	F	G	M	N	Q	Р	W	X	Y	Z	Hole Dia.	Travel TT	Factors	Min Thd Length	Min Dia.	Max Dia
1-9	Availa	ble in F	ig. 81-	H only														
10.10	107/	07/	0	41/	05/	C7/	43/	415/	03/	11/	103/	_	3/4	5 or less	15½	13/ . TT	1/	3/
10-18	187/8	81/8	2	1½	85/8	67/16	1%	415/16	2¾	1½	10¾	3	94	5½ or more	17 ³ ⁄ ₁₆	1¾ + TT	1/2	3/4
19-34	28½	16	21//8	25/8	123/4	8%16	1%	12½	23/8	1½	147/8	3	7/8	5 or less	2611/16	2% + TT	1/2	11/4
19-34	2072	10	Z 7/8	2 %8	1294	0 %16	178	1272	2 %8	1 72	1478	3	78	5½ or more	2813/16	2%+11	72	1 74
35-49	323/4	18½	43/4	33/4	14	913/16	2½	131/4	25/8	2	163/4	4	11//8	6 or less	311/4	31/4 + TT	1/2	13/4
33-49	3274	1074	474	374	14	9.716	Z 72	1374	2 78		1074	4	1 78	$6\frac{1}{2}$ or more	357/8	374+11	72	174
50-63	467/8	281//8	85/16	57//8	18	1111/4	3	24½	27//8	3	21	6	13/8	11 or less	45%16	41/4 + TT	3/4	21/4
50-63	4078	2078	0 %16	3 7/8	10	1174	3	2472	Z'/8	3	21	0	178	11½ or more	507//8	474+11	74	274
64-83	Availa	ble in F	ig. 81-	H only.														
84-110	Not A	vailable																

*Rod take-out = (factor) - (TT / 2), for lever in high position. • "I" dimension for sizes 10 through 63 equals "B" + "Q" Note: See the size selection chart (page 186 through 189) for the "B" dimension.

Load	0	801	1,501	2,541	4,001	6,101	9,401	13,401	18,301
(lbs)	800	1,500	2,540	4,000	6,100	9,400	13,400	18,300	24,700
J Rod Size	1/2	5/8	3/4	1	11/4	1 ½	13/4	2	21/4

Fig. 80-V Type E

Model R



Sizes 64 - 74

Sizes 75 - 83

Type E rests on top flange of structural steel and the constant support itself is entirely above the supporting beams. If the rod takeout does not exceed the depth of the supporting steel and the rod coupling must extend below the steel, specify the depth of the supporting steel. Increase the rod take-out by the depth of the steel.

Notes: See load travel tables, page 186 through 189 for "B" dimension. For weights see page 205. Location of travel indicator and contour of side plate may vary from that shown.

							FIG	i. 80	-V, 1	ГҮРЕ	E: D	IME	NSIONS	(IN)					
Hanger								Dia.					Angle	Bracket	Total		J-R	lod	
Size	L	C	D	F	G	I	K	M	X	Υ	N	Q	Size	Hole		Factors		Rod	
														Dia.	Π		Thd Length	Min	Max
1-9	Availa	able in	Fig. 8	1-H On	ıly														
10-18	181/8	1½	87/8	2	1½		4 ⁵ ⁄ ₁₆	85%	5/8	815/16	6 ⁷ / ₁₆	1%	1½ x 2 x ¼	3/4	5 or less	1 ½16	1¾ + TT	1/2	3/4
10-10	10/8	1 /2	0/8		1 /2		4/16	078	78	0 716	0/16	178	1 /2 X Z X /4	74	$5\frac{1}{2}$ or more	3¾	174 + 11	/2	/4
19-34	28½	13/16	16	21/8	25/8		611/16	12¾	5/8	11 ³ ⁄16	89/16	15/8	1½ x 2½ x ¼	3/4	5 or less	2 ¹³ / ₁₆	23/8 + TT	1/2	11/4
19-34	2072	'716	10	2 78	2 %8	•	0.716	1294	78	1 1 716	0 %16	178	1 /2 X Z /2 X /4	74	5½ or more	4 ¹⁵ / ₁₆	278 + 11	72	1 74
25.40	203/	47/	101/	43/	03/		8 ⁵ / ₁₆	14	13/	105/	013/	01/	0 4 0 4 3/	7/8	6 or less	21/2	01/ . TT	1/2	13/
35-49	32¾	11//8	181/4	43/4	3¾	•	8 %16	14	13/16	13716	913/16	21/2	3 x 2 x 3/8	7/8	6½ or more	71//8	31/4 + TT	'/2	13/4
E0 62	467/8	3¾	281//8	8 ⁵ ⁄ ₁₆	57/8		12 ¹³ ⁄16	18	1 ⁵ ⁄16	14 ¹¹ / ₁₆	111/	3	2 v 2 v 3/		11 or less	1%	41/4 + TT	3/4	21/4
50-63	4078	3%4	2078	0 716	3 7/8		12.916	10	I 7/16	14.716	1174	3	3 x 3 x 3/8	13%	$11\frac{1}{2}$ or more	7	474 + 11	94	274
64-74	62	3/8	35¾	3/8	71/2	25%	1 53/	22 ³ ⁄ ₁₆	1%16	14 ¹⁵ ⁄ ₁₆	11	3	3½ x 3½ x ½		10½ or less	91//8	5¾ + TT	11/4	23/4
04-74	02	78	33%	78	1 72	25%	13%	22916	I 7/16	14.716		3	3/2 X 3/2 X /2	15/	11 or more	91/4	374 + 11	1 74	2%
75.00	601/	E1/	253/	11/	71/	253/	255/	273/	13/	151/	11	2	4 x 4 x 3/	1%	10½ or less	83/4	E3/ . TT	11/	21/
75-83	62½	51/4	35¾	1½	7½	25%	23%	273/16	1¾	15½	11	3	4 x 4 x 3/8	15//8	11 or more	87/8	5¾ + TT	1½	31/4
84-110	Not A	vailab	le																

Rod take-out = (factor) - (TT / 2), for lever in high position. Rod take-out is measured from the bottom of the supporting angles to the center of the load coupling site hole.

• "1" dimension for sizes 10 through 63 equals "B" + "Q" Note: See the size selection chart (page 186 through 189) for the "B" dimension.

					J-ROD	SELECT	ION CI	HART					
Load (lbs)	0 800	801 1,500	1,501 2,540	2,541 4,000	4,001 6,100	6,101 9,400	9,401 13,400	13,401 18,300	18,301 24,700	24,701 31,000	31,001 39,000	39,001 48,000	48,001 58,000
J Rod Size	1/2	5/8	3/4	1	11/4	1½	13/4	2	21/4	21/2	23/4	3	31/4*

 $^{^{\}star}$ 3½" is furnished with 4 UNC series thread.



Fig. 80-V Type F

Model R

el R day

Pipe Supports

Trapeze

Shields addles

Pipe Sh & Sado

ides Pipe Roll les

ace Pipe Guides

Sway Brace S Seismic

nstant Sp pports Har

Vibration Control & Sway Brace S

Sway Strut Assembly

yn Snubbers

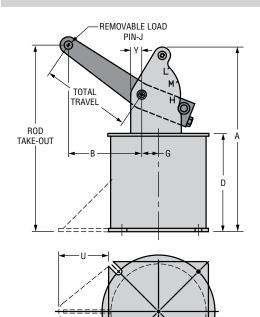
Special Design Products

plication

Master Format 3 Part Specs.

schnical Data

ndex



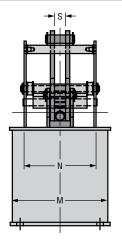


	FIG. 80-V, T TOTAL TRAV	
Hanger Size	Total Travel	U
10-18	1½ - 4½	_
10-16	5 - 8	5
19-34	2 - 6½	_
19-34	7 - 10	71/4
	2½ - 6	_
35-49	6½ - 9	7
	9½ - 14	11½
	3 - 6½	_
50-63	7 - 10	81/2
	10½ - 16	14

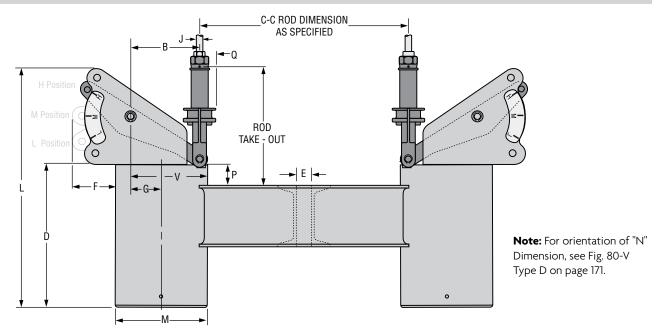
Type F is for support of piping or equipment from below. It has a base flange for fastening to the floor or to beams. The load arm is furnished with a removable load pin. The intermediate strut which runs from the load arm to the piping is not furnished and must be ordered separately, designed to the specific requirement.

Note: See load travel table for "B" dimension.

					F	IG. 8	0-V, T	YPE F: D	IMENSI	ONS (IN)			
Hanger Size	A	D	G	M	N	S	Υ	Bottom Flange Square	Bottom Flange Bolt Circle	Flange Hole and Slot Dia.	Flange Thickness	Factor	Total Travel	J Dia.
1-9 Not Available														
10-18	165%	83/4	1½	8 5//8	61/4	4	1	9	10	7/16	1/4	12 ⁵ / ₈	5½ or less	3/4
10-16	1078	0%	1 72	0%	074	'	ı	9	10	716	74	1278	6 or more	1/2
10.24	25¾	14 ¹¹ / ₁₆	2 5//8	123/4	83/8	1 ½16	1	101/	15	5/8	3/8	201//8	4 or less	11//8
19-34	23%	14.716	278	1274	0%	I 7/16	ı	131/4	15	78	78	2078	4½ or more	7/8
25.40	205/	101/	011/	1.4	015/	01/	41/	4.41/	17	7/	5/	0.51/	7 or less	11/2
35-49	32%	18½	311/16	14	915/16	21/4	1½	14½	17	7/8	5/8	25½	7½ or more	11//8
F0 C2	403/	005/	F 7/	10	441/	01/	45/	101/	01	41/	3/	001/	8 or less	2
50-63	48¾	285/8	51//8	18	1111/4	21/4	11%	18½	21	111//8	3/4	38½	8½ or more	1½

Fig. 80-V Type G

Model R



Type G is a complete trapeze assembly. The hanger consists of two vertical type Constant Support units plus a pair of channels, back-to-back, welded at each end to the hanger casing.

In sizing a Type G hanger, it must be remembered that each standard spring unit carries one-half of the total pipe load. Furthermore, the weights of the hanger itself must be considered as part of the overall load. Therefore, using one-half the total pipe load, select the required hanger size from the Load Travel Table and add one-half the weight of the size hanger selected to one-half the total pipe load. If the load now exceeds the maximum load at the required total travel for the hanger size selected, it is necessary to go to the next larger hanger. If the pipe line is designed so as not to be centered on the channel, one

spring of the trapeze will carry a heavier load than the other and care must be taken in sizing the individual hanger units. The center-to-center rod dimension must be specified when ordering. The minimum C-C dimension can be determined as follows:

B plus Q > Y: (O.D. of pipe covering) + 2Q.

B plus Q < Y: (O.D. of pipe covering) + 2 (Y - B).

Note: If U-bolt is used to fasten pipe to channels, C-C of U-bolt tangents plus one washer plate width cannot be greater than C-C of the hanger rods minus 2 (V minus B). See load travel tables, page 186 through 189 for "B" dimension.

For weights see page 205. Location of travel indicator and contour of side plate may vary from that shown.

						FI	G. 8	0-V,	TYPE	G: [DIME	NSION	s (IN)					
						D:-						Channel		Total		J-	Rod	
Hanger Size	L	D	Е	F	G	Dia M	N	P	Q	V	Y	Size (lbs/ ft)		Travel TT	Factors	Min Thread Length	Min Rod. Dia.	Max Rod Dia.
1-9	Not a	vailable								,								,
10-18	181//8	87/8	1	2	1½	85/8	67/16	29/16	3½	513/16	315/16	4 @ 5.4	30	5 or less	11 ¹¹ / ₁₆	1¾ + TT	1/2	3/4
10-10	10/8	0 /8	1		1 /2	078	U /16	Z /16	3/2	J 716	3 716	4 6 3.4	30	5½ or more	14	1/4 + 11	/2	74
19-34	28½	16	11/4	21//8	25/8	123/4	89/16	3%16	4	9	61/8	6 @ 10.5	42	5 or less	16 ¹³ / ₁₆	23/4 + TT	1/2	11/4
13-34	20/2	10	1 /4	Z /8	Z/8	12/4	0/16	3/16	7	9	078	0 @ 10.5	42	5½ or more	18¾	Z/8 T I I	/2	1 /4
35-49	323/4	181/4	11/2	43/4	3¾	14	913/16	37/16	5½	103/4	8	10 @ 15.3	48	6 or less	191/4	31/4 + TT	1/2	13/4
33-49	32/4	10/4	1 /2	474	3/4	14	9 /16	3/16	J /2	1074	0	10 @ 13.3	40	6½ or more	237//8	3/4 + 11	/2	174
50-63	467/8	281/8	21/	05/	57/8	10	111/	4	G1/	143/4	1015/	12 @ 20.7	48	11 or less	24%	41/ . TT	3/4	21/4
50-63	4078	2078	21//8	8 ⁵ ⁄ ₁₆	3 7/8	18	111/4	4	6½	1494	10.916	12 @ 20.7	40	11½ or more	30	$4\frac{1}{4} + TT$	74	274
64-110	Not a	vailable	!															

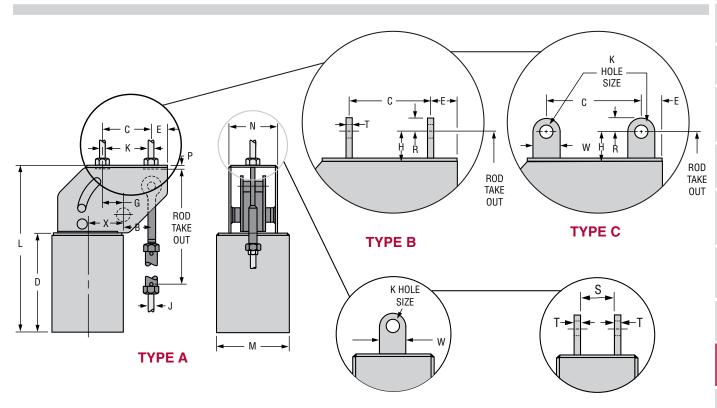
Rod take-out = (factor) - (TT / 2), for lever in high position.

Note: See the size selection chart (see page 186 through 189) for the "B" dimension.

Load	0	801	1,501	2,541	4,001	6,101	9,401	13,401	18,301
(lbs)	800	1,500	2,540	4,000	6,100	9,400	13,400	18,300	24,700
J Rod Size	1/2	5/8	3/4	1	11/4	11/2	13/4	2	21/4

Fig. 80-V Types A, B and C

Model R, Sizes 84 to 110



Note: "B" Dimensions is a function of total travel ("G" + "B" should not be assumed as equal to "C" Dimension)

Types A, B, and C sizes 84 through 110, for large loads and long travels, provide for basically the same methods of upper attachment as sizes 10 to 83 shown Type A on page 190, Type B page 191 and Type C see page 192.

Notes: See load travel tables, page 186 through 189 for "B" dimension. For weights see page 205.

				FIG	i. 80	-V, T	YPE:	S A,E	s,C S	IZES	84 T	O 110): DIN	MENSIONS	(IN)				
		(;				(3						Total	Fac	tor		J - Rod	
Hanger Sizes	L	Туре	Туре	D	Туре	Туре	Туре	Туре	Н	M	N	P	X	Travel	Туре	Туре	Min	Rod	Dia.
31263		A & B	Ĉ		A & B	Ċ	A & B	Ĉ						TT	Ä	B&C	Thread Length	Min	Max
84-94	78¾	16	15	49¾	4	41/2	1½	1	6	24	10½	2	12	9½ or less	45¾	54¾	10	2	33/4
04-94	7074	10	15	4974	4	472	1 72	l	O	24	1072	3	12	10 or more	55½	64½	13	2	3%4
0F 110	100	24	23	64	4	41/	71/2	7	c	24	111/2	21/	13½	14 or less	511//8	60%	12	21/2	33/4
95-110	100	24	23	04	4	4½	1 72	'	6	24	1172	3½	1372	14½ or more	601//8	695%	15	Z 7/2	3%4

*Rod take-out = (factor) - (.75 x TT), for Lever in high position

Note: See the size selection chart (page 186 through 189) for the "B" dimension.

Load (lbs)	14,376 18,300	18,301 24,700	24,701 31,000	31,001 39,000	39,001 48,000	48,001 58,000	58,001 69,000	69,001 87,500
J & K-Rods	2	21/4	21/2	23/4	3	31/4*	31/2*	33/4*
K-Hole	23/8	25/8	27/8	31//8	3%	35//8	37//8	41/8
R	3	3	4	4	4	41/2	41/2	41/2
S	27//8	31//8	3¾	35/8	37//8	41//8	43//8	45/8
T (Type B)	3/4	3/4	1	1	1	1	1½	1¾
T (Type C)	74	74	I	I	I	ı	11⁄4	11/4
W	6	6	8	8	8	9	9	9

*31/4 and larger is furnished with 4 UNC series thread.



www.anvilintl.com

Pipe Supports

Trapeze

Pipe Roll

Pipe Guides & Slides

Vibration Control & Sway Brace

Sway Strut Assembly

Snubbers

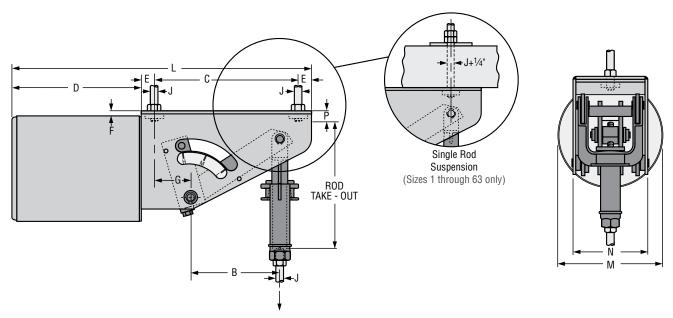
Special Design Products

Master Format 3 Part Specs.

Index

Fig. 81-H Type A

Model R



Type A of the Figure 81- H Horizontal Design Model R Constant Support Hanger is designed for attaching to its supporting member by screwing two rods into tapped holes in the top of the hanger from a distance equal to the "P" dimension plus $^{3}/_{8}$ ". Sizes 1 to 9 are furnished with swivel eye and turnbuckle instead of yoke and coupling.

Notes: Also available for single rod suspension as indicated above. When ordering specify "for single rod suspension". See load travel tables, page 186 through 189 for "B" dimension. For weights see page 205. Location of travel indicator and contour of side plate may vary from that shown.

					FIG.	81-H	ГҮРЕ	A: DIMENS	IONS ((IN)				
Hanger								Total Travel					J-Rod	
Sizes	D	Е	F	G	M	N	P	TT	L	C	Factors	Min Thread	Rod	Dia.
01263												Length	Min	Max
1-9	81/4	1	7/8	2	61/8	4 ½	13/16	4 or less	161/4	6	123/4	13/4 + TT	1/2	1/2
1-9	074	ı	78	2	078	478	'916	4½ or more	201/4	10	155/16	174 + 11	72	/2
10.10	07/	4	1/	09/	05/	C 7/	11./	5 or less	18 ⁷ / ₁₆	8	107//8	13/ . TT	1/	3/4
10-18	8 ⁷ / ₁₆	'	1/2	2 %16	85/16	6 ⁷ / ₁₆	11/16	5½ or more	21 ⁷ ⁄ ₁₆	11	131/4	1¾ + TT	1/2	9/4
19-34	14 ⁷ / ₁₆	11/4	5/8	37/8	127/16	89/16	11//8	5 or less	2615/16	10	16¾	2% + TT	1/2	11/4
19-34	T 4 7/16	1 74	78	378	I Z'/16	0 716	1 78	5½ or more	311/16	141//8	187/8	Z% + 11	72	1 74
35-49	177/16	13/4	11/16	43/4	13¾	913/16	13/8	6 or less	31%16	11	211//8	31/4 + TT	1/2	13/4
33-49	I I 716	194	. 716	494	1394	9.916	178	6½ or more	391/16	19	25¾	374 + 11	72	174
								8 or less	45%16	16	2415/16			
50-63	26 ³ ⁄ ₁₆	1 ¹¹ / ₁₆	¹⁵ / ₁₆	711/16	17 ¹ / ₁₆	1111/4	13/4	8½ to 11	531/16	24	24 ¹⁵ ⁄ ₁₆	41/4 + TT	3/4	21/4
								11½ or more	531/16	24	301/4			
64.74	35¾	3	31/4	51/4	223/16	11	37/16	10½ or less	57½	15¾	347/16	E3/ . TT	11/4	23/4
64-74	33%4	3	374	374	ZZ916	11	3716	11 or more	63	211/4	34%16	5¾ + TT	1 74	294
75.00	253/	01/	25/		073/	-1-1	41/	10½ or less	57½	151/4	36½	F3/ . TT	41/	01/
75-83	35¾	31/4	35%	5	273/16	11	41/4	11 or more	63	203/4	365%	5¾ + TT	11/2	31/4
84-110	See pag	e 204												

^{*}Rod take-out = (factor)-(TT / 2) for lever in high position.

					J-ROD	SELECT	ION CI	HART					
Load (lbs)	0 800	801 1,500	1,501 2,540	2,541 4,000	4,001 6,100	6,101 9,400	9,401 13,400	13,401 18,300	18,301 24,700	24,701 31,000	31,001 39,000	39,001 48,000	48,001 58,000
Rod Size	1/2	5/8	3/4	1	11/4	1½	13/4	2	21/4	21/2	23/4	3	31/4*

 $^{^{\}star}$ 3½" is furnished with 4 UNC series thread.



Fig. 81-H Type B

Model R

Trapeze

Pipe Roll

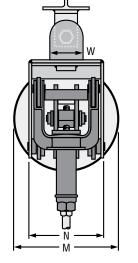
Pipe Guides & Slides

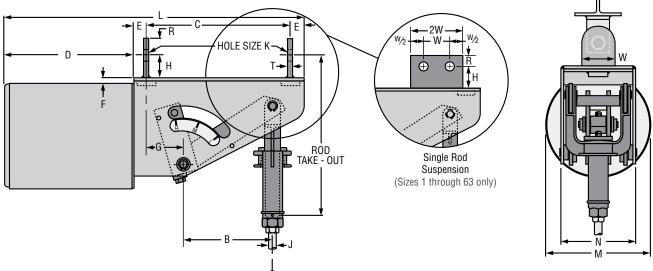
Vibration Control & Sway Brace

Sway Strut Assembly

Snubbers Special Design Products

Index





Type B is furnished with two lugs – one at each end of the hanger frame. These lugs permit use of Fig. 66 welded beam attachments, clevises or angle clips for attachment where headroom is limited. Sizes 1 to 9 are furnished with swivel eye and turnbuckle instead of yoke and coupling.

Notes: Also available for single rod suspension as indicated above. When ordering specify "for single rod suspension." See load travel tables, page 186 through 189 for "B" dimension. For

weights see page 205. Location of travel indicator and contour of side plate may vary form that shown.

				F	IG. 81-	Н ТҮРЕ	B: DIN	MENSIONS	(IN)					
Hanger	_	_	_	_				Total Travel	_	_		J-l	Rod	
Sizes	D	E	F	G	Н	M	N	TT	L	С	Factors	Min Thd Length	Rod Min	Dia. Max
						-11		4 or less	161/4	5½	145/8			
1 - 9	81/4	11/4	7/8	13⁄4	1½	61/8	41/8	4½ or more	201/4	9½	173/16	1¾ + TT	1/2	1/2
10 10	07/	41/	1/	05/	41/	05/	C 7/	5 or less	187/16	71/2	131/16	13/ . TT	1/	3/
10 - 18	87/16	11/4	1/2	25/16	1½	85/16	67/16	5½ or more	21 ⁷ / ₁₆	10½	157/16	1¾ + TT	1/2	3/4
19 - 34	14 ⁷ / ₁₆	13/8	5/8	33/4	2	12 ⁷ / ₁₆	8%16	5 or less	26 ¹⁵ / ₁₆	93/4	197/8	2¾ + TT	1/2	11/4
19 - 34	14716	178	78	374		12716	O716	5½ or more	31 ½16	137//8	22	278 + 11	72	174
35 - 49	16 ¹³ / ₁₆	2	11/16	41/2	3	13¾	913/16	6 or less	31 %16	10½	25%	31/4 + TT	1/2	13/4
33 - 48	10 716		/16	4/2	3	13/4	9 716	6½ or more	391/16	18½	301//8	3/4 + 11	/2	1 74
								8 or less	45 %16	13¾	3011/16			
50 - 63	263/16	3	¹⁵ / ₁₆	6%	4	17%	111/4	8½ to 11	53%16	21%	3011/16	$4\frac{1}{4} + TT$	3/4	21/4
								11½ or more	53%16	21%	36			
64 - 74	35¾	31/4	31/4	5	41/2	223/16	11	10½ or less	57½	151/4	42%	5¾ + TT	11/4	23/4
04 - 74	3374	374	374	3	472	ZZ716	11	11 or more	63	20¾	421/2	J/4 + 11	1 74	2 74
75 - 83	35¾	31/2	35/8	43/4	5	273/16	11	10½ or less	57½	143/4	45¾	5¾ + TT	11/2	31/4**
15-05	3374	J/2	378	474	3	Z1716	11	11 or more	63	201/4	457/8	J/4 + 11	1 72	3/4
84 - 110	See page	204												

^{*} Rod take-out = (factor) - (TT / 2), for lever in high position.

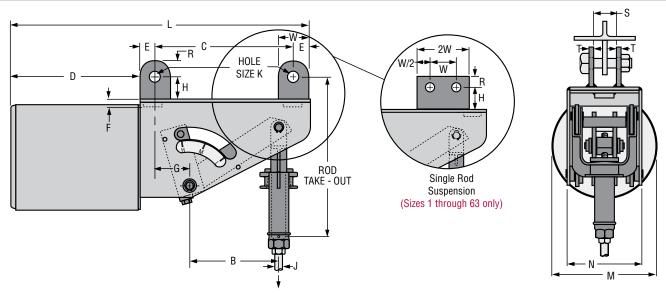
				J-ROD	AND K	-HOLE	SELECT	ION C	HART				
Load (lbs)	0 800	801 1,500	1,501 2,540	2,541 4,000	4,001 6,100	6,101 9,400	9,401 13,400	13,401 18,300	18,301 24,700	24,701 31,000	31,001 39,000	39,001 48,000	48,001 58,000
J-rod	1/2	5/8	3/4	1	11/4	1½	13/4	2	21/4	21/2	23/4	3	31/4**
K-Hole Size	11/16	13/16	¹⁵ / ₁₆	11/4	11/2	13/4	2	23/8	25/8	27/8	31/8	33/8	35/8
R	11/4	11/4	11/4	1½	2	21/2	21/2	3	3	4	4	4	41/2
T	1/4*	1/4*	3/8	1/2	5/8	3/4	3/4	3/4	3/4	1	1	1	1
W	21/2	21/2	21/2	3	4	5	5	6	6	8	8	8	9

^{*} $\frac{3}{8}$ " for single rod suspension ** $\frac{3}{4}$ " is furnished with 4 UNC series thread.



Fig. 81-H Type C

Model R



Type C is furnished with two pair of lugs, one pair of lugs at each of the hanger frame. These lugs permit the use of two eye rods or two single plates for attachment where headroom is limited. Sizes 1 to 9 are furnished with swivel eye and turnbuckle instead of yoke and coupling.

Notes: Also available for single rod suspension as indicated above. When ordering specify "for single rod suspension." See load travel tables, page 186 through 189 for "B" dimension. For weights see page 205. Location of travel indicator and contour of side plate may vary from that shown.

				FIG.	81-H 1	ГҮРЕ С:	DIME	NSIONS (IN	(CHES)					
Hanger				_				Total Travel		_		J-l	Rod	
Sizes	D	E	F	G	Н	M	N	TT	L	C	Factors	Min Thd		Dia.
												Length	Min	Max
1 - 9	81/4	11/4	7/8	13/4	1½	61/8	4 ½	4 or less	161/4	5½	14%	1¾ + TT	1/2	1/2
1 - 9	0/4	1 /4	/8	1 /4	1 /2	0/8	4/8	4½ or more	201/4	9½	17 ³ ⁄ ₁₆	1/4 + 11	''	/2
10 - 18	87/16	11/4	1/2	2 ⁵ ⁄ ₁₆	1½	85/16	6 ½16	5 or less	18 ½16	71/2	13½16	1¾ + TT	1/2	3/4
10 - 10	0716	1 74	72	Z716	1 72	0716	0716	5½ or more	21 ⁷ / ₁₆	10½	15 ⁷ / ₁₆	174 + 11	72	74
10 04	4.47/	0	5/	01/	0	107/	09/	5 or less	26 ¹⁵ / ₁₆	81/2	197/8	03/ . TT	1/2	41/
19 - 34	14 ⁷ / ₁₆	2	5/8	31/8	2 127/16 89/16	8 %16	5½ or more	311/16	125/8	22	2% + TT	72	11/4	
05 40	471/	01/	11./	4	0	103/	0137	6 or less	31%16	91/2	25%	31/4 + TT	1/2	43/
35 - 49	171/16	2½	11/16	4	3	13¾	913/16	6½ or more	39%16	17½	301//8			13/4
								8 or less	45%16	13¾	3011/16			
50 - 63	263/16	3	¹⁵ / ₁₆	6%	4	17 ¹¹ / ₁₆	111/4	8½ to 11	53%16	21%	3011/16	41/4 + TT	3/4	21/4
								11½ or more	53%16	21%	36			
C4 74	OE3/	4	01/	41/	41/	003/	44	10½ or less	57½	13¾	423/8	Γ3/ . T T	11/	03/
64 - 74	35¾	4	31/4	41/4	41/2	223/16	11	11 or more	63	191/4	421/2	5¾ + TT	11/4	23/4
75 00	OF3/	41/	25/	03/	_	073/	44	10½ or less	57½	123/4	45¾	Γ 3/ . TT	11/	21/
75 - 83	35¾	4½	35/8	3¾	5	273/16	11	11 or more	63	181/4	45¾	5¾ + TT	1½	31/4
84 - 110	See page	204												

^{*} Rod take-out = (factor) - (TT / 2), for lever in high position.

	J-ROD AND K-HOLE SELECTION CHART														
Load (lbs)	0 800	801 1,500	1,501 2,540	2,541 4,000	4,001 6,100	6,101 9,400	9,401 13,400	13,401 18,300	18,301 24,700	24,701 31,000	31,001 39,000	39,001 48,000	48,001 58,000		
J-Rod	1/2	5/8	3/4	1	11/4	1½	13/4	2	21/4	21/2	23/4	3	31/4**		
K-Hole Size	11/16	13/16	¹⁵ / ₁₆	11/4	1½	13/4	2	23/8	25/8	27/8	31//8	33/8	35/8		
R	11/4	11/4	11/4	1½	2	21/2	21/2	3	3	4	4	4	41/2		
S	7/8	11/16	11/4	15/8	2	23/8	25/8	27/8	31//8	33/8	35/8	37//8	41/8		
T	1/4*	1/4*	3/8	1/2	5/8	3/4	3/4	3/4	3/4	1	1	1	1		
W	21/2	21/2	21/2	3	4	5	5	6	6	8	8	8	9		

^{*} $\frac{3}{8}$ " for single rod suspension ** $\frac{3}{4}$ " is furnished with 4 UNC series thread.

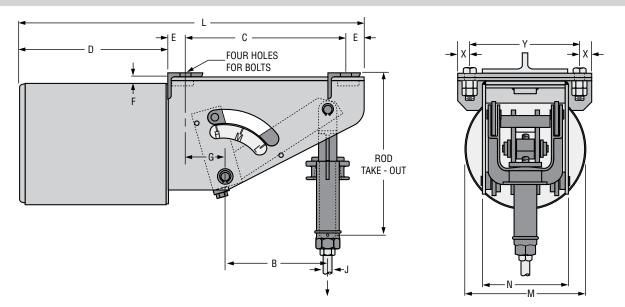


Fig. 81-H Type D

Model R

Trapeze

Pipe Roll



Type D may be bolted directly under steel. Sizes 1 to 9 are furnished with swivel eye and turnbuckle instead of yoke and coupling.

Notes: See load travel tables, page 186 through 189 for "B" dimension. For weights see page 205. Location of travel indicator and contour of side plate may vary from that shown.

						FIG.	81-1	н тү	PE D: DIM	MENSIC	ONS (INCH	ES)					
Hanger	_	_	_						Angle	Bracket	Total Travel				J-Rod		
Sizes	D	E	F	G	M	N	X	Y	Size	Hole Dia.	TT	L	C	Factors	Min Thd Length	Rod Min	Dia. Max
											4 or less	161/4	6	13%			
1 - 9	81/4	1	7/8	2	61//8	41//8	3/4	55/8	2 x 2 x ½	9/16	4½ or more	201/4	10	15 ¹⁵ / ₁₆	1¾ + TT	1/2	1/2
10 10	07/	01/	1/	09/	05/	67/	7/	01/	41/41/1/	3/	5 or less	187/16	31/2	11 ¹³ ⁄ ₁₆	42/	1/2	3/
10 - 18	87/16	31/4	1/2	29/16	85/16	67/16	7/8	81/16	1½ x 1½ x ¼	3/4	5½ or more	217/16	6	14 ³ ⁄ ₁₆	1¾ + TT		3/4
19 - 34	147/16	11/2	5/8	35/8	12 ⁷ / ₁₆	8%16	11//8	115/16	3 x 3½ x ¼	3/4	5 or less	2615/16	91/2	173/4	2% + TT	1/2	11/4
19 - 34	14716	1 72	78	378	12716	0716	178	3 1 1 16 3 X 3 2 X 74 94	74	5½ or more	311/16	135/8	197/8	278 + 11	/2	174	
35 - 49	17½ ₁₆	2	11/16	41/2	13¾	913/16	1%	13	3 x 4 x 3/8	7/8	6 or less	31%16	10½	2013/16	31/4 + TT	1/2	13/4
JJ - 49	17/16		/16	4/2	13/4	9 /16	178	13	3 X 4 X 78	/8	6½ or more	391/16	18½	25 ⁷ / ₁₆	374+11	72	1/4
											8 or less	45%16	15¾	27 ½16			
50 - 63	263/16	2	¹⁵ / ₁₆	73/8	17 ¹ / ₁₆	1111/4	15/8	14%	4 x 4 x 3/8	13/8	8½ to 11	531/16	23¾	271/16	41/4 + TT	3/4	21/4
											11 or more	53%16	23¾	32¾			
64 - 74	353/4	3	31/4	51/4	22 ³ ⁄ ₁₆	11	2	15	4 x 6 x ½	15%	10½ or less	57½	15¾	38¾	5¾ + TT	11/4	23/4
04 - 74	33/4	3	3/4	3/4	22/16	11		13	4 X U X /2	15%	11 or more	63	211/4	38½	3/4 + 11	1 /4	274
75 - 83	353/4	3	35/8	43/4	27 ³ ⁄ ₁₆	11	2	15	4 x 6 x ½	1 5%	10½ or less	57½	15¾	411/4	5¾ + TT	1½	31/4
10-00	3374	1 3 378 474 21716 11 2 15 4 X b X ½ 1	1 78	11 or more	63	211/4	41%	3/4 + 11	1 72	374							
84 - 110	Not av	ailabl	е														

^{*} Rod take-out = factor - (TT / 2), for lever in high position.

	J-ROD SELECTION CHART													
Load (lbs)	0 800	801 1,500	1,501 2,540	2,541 4,000	4,001 6,100	6,101 9,400	9,401 13,400	13,401 18,300	18,301 24,700	24,701 31,000	31,001 39,000	39,001 48,000	48,001 58,000	
J Rod Size	1/2	5/8	3/4	1	11/4	1½	13/4	2	21/4	21/2	23/4	3	31/4*	

^{*31/4&}quot; is furnished with 4 UNC series thread.



201

Vibration Control & Sway Brace Sway Strut Assembly

Snubbers

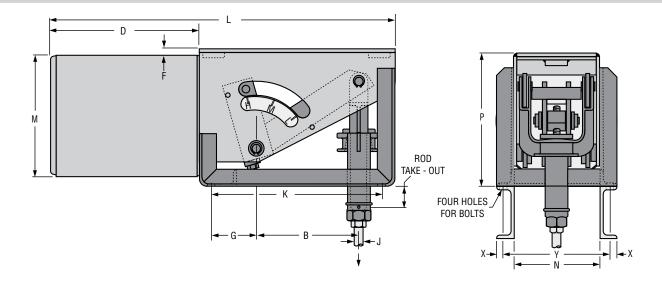
Special Design Products

Index

PH-11.11

Fig. 81-H Type E

Model R



Type E incorporates two brackets as part of its frame, permitting the bolting of the constant support to the top of structural steel. Sizes 1 to 9 are furnished with swivel eye and turnbuckle instead of yoke and coupling. If rod take-out does not exceed the depth of the supporting steel and rod coupling is required to extend below the steel,

specify the depth of the supporting steel. Increase rod take-out by the depth of the steel.

Notes: See load travel tables, page 186 through 189 for "B" dimension. For weights see page 205. Location of travel indicator and contour of side plate may vary from that shown.

							FIG.	81-H	TYPE E: D	IMEN	ISIONS (IN	l)					
Hanger										Bkt.	Total Travel				J-Rod		
Sizes	D	F	G	M	N	P	X	Y	Angle Size	Hole	TT	L	K	Factors	Min Thd	Rod I	Jia.
01200										Dia.	••				Length	Min	Max
1 - 9	81/4	11/4	2	61//8	41//8	81/2	5/8	5 ¹⁵ / ₁₆	1½ x 1½ x ¼	9/16	4 or less	161/4	6	51//8	1¾ + TT	1/2	1/2
1-9	074	1 74		078	478	0 72	78	3 .716	1 /2 X 1 /2 X /4	716	4½ or more	201/4	10	711/16	174+11	72	/2
10 - 18	87/16	4	21/16	8 ⁵ ⁄ ₁₆	67/16	117/16	5/8	815/16	11/ y 0 y 1/	3/4	5 or less	187/16	71/2	13/4	13/ . TT	1/2	3/4
10 - 16	O 716	'	Z716	0 716	0 716	I I 716	78	O 716	1½ x 2 x ¼		5½ or more	217/16	71/2	41/16	1¾ + TT		74
10 04	4.47/	5/	25/	107/	09/	4 F 1/	5/	443/	11/ 01/ 1/	3/	5 or less	26 ¹⁵ / ₁₆	10	3¾	03/ . TT	1/2	11/
19 - 34	147/16	5/8	35%	121/16	8%16	151/8	5/8	113/16	1½ x 2½ x ¼	3/4	5½ or more	311/16	10	5½	2% + TT	72	11/4
25 40	471/	11/	41/	103/	013/	105/	13/	105/	2 2 3/	7/	6 or less	31%16	11%	47/8	01/ . TT	1/2	13/
35 - 49	171/16	11/16	41/2	13¾	913/16	19%	13/16	135/16	3 x 2 x ¾	7/8	6½ or more	391/16	11%	91/2	31/4 + TT		13/4
											8 or less	45%16	15%	67//8			
50 - 63	263/16	¹⁵ / ₁₆	73//8	17 ¹ / ₁₆	111/4	19¾	1 ½16	14 ¹¹ / ₁₆	3 x 3 x ¾	1%	8½ to 11	531/16	23%	67//8	41/4 + TT	3/4	21/4
											11½ or more	531/16	23%	121/4			
C4 74	253/	21/	F1/	003/	11	007/	19/	4.415/	21/ 2/ 21/ 2/ 1/	15/	10½ or less	57½	171/2	111//8	F3/ . TT	41/	03/
64 - 74	35¾	31/4	51/4	223/16	11	26%	1%16	14 ¹⁵ / ₁₆	3½ x 3½ x ½	1%	11 or more	63	23	111/4	5¾ + TT	11/4	23/4
75 00	253/	25/	43/	273/	11	217/	19/	1.415/	21/ v 21/ v 1/	15/	10½ or less	57½	171/2	9	E3/ . TT	11/	21/
75 - 83	35¾	35/8	43/4	27¾16	11	31%	1%16	14 ¹⁵ / ₁₆	3½ x 3½ x ½	1%	11 or more	63	23	91/8	5¾ + TT	1½	31/4
84 - 110	Refer	to pa	ge 20	4													

^{*} Rod take-out = (factor) - (TT / 2), for lever in high position.

	J-ROD SELECTION CHART													
Load (lbs)	0 800	801 1,500	1,501 2,540	2,541 4,000	4,001 6,100	6,101 9,400	9,401 13,400	13,401 18,300	18,301 24,700	24,701 31,000	31,001 39,000	39,001 48,000	48,001 58,000	
J Rod Size	1/2	5/8	3/4	1	11/4	1½	13/4	2	21/4	21/2	23/4	3	31/4*	

^{*31/4&}quot; is furnished with 4 UNC series thread.

