

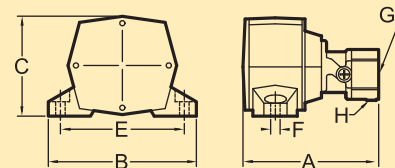
Hydraulic Vibrators

COUGAR

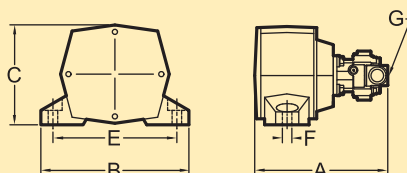


DIMENSIONS (Inch)

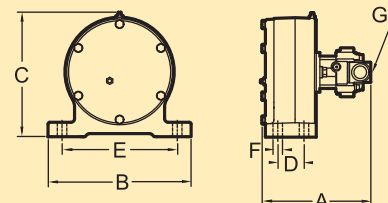
Model	A	B	C	Bolt Pattern		Bolt Size	Port NPT	Case Drain	Weight Lbs.
				D	E				
H9-500	6.250	6.750	4.625	--	5.500	0.375	3/8	7/16 - 20 SAE	11.000
HA9-1600	9.750	7.375	4.625	--	6.000	0.500	3/8	7/16 - 20 SAE	20.000
HA4-3300	11.125	10.000	6.625	--	8.000	0.625	3/4 - 16 SAE	--	39.000
NHD-110	7.500	10.000	8.688	2.000	8.000	0.625	3/4 - 16 SAE	--	37.750
NHQ-170	12.188	10.688	11.250	2.000	8.000	0.625	3/4 - 16 SAE	--	69.750
NHQ-175	12.188	10.688	11.250	2.000	8.000	0.625	3/4 - 16 SAE	--	75.000
HC4-3000	11.438	9.500	10.313	--	--	--	3/4 - 16 SAE	--	42.000
HC3-3500	11.438	9.500	10.313	--	--	--	3/4 - 16 SAE	--	45.000
HL4-3000	11.438	8.375	10.500	1.250	6.250	--	3/4 - 16 SAE	--	52.000
HL3-3500	11.438	8.375	10.500	1.250	6.250	--	3/4 - 16 SAE	--	58.000



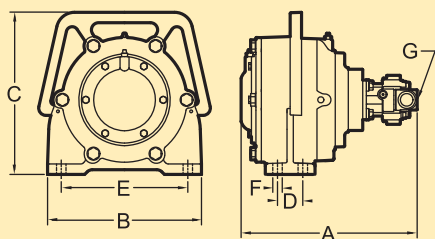
H9 & HA9



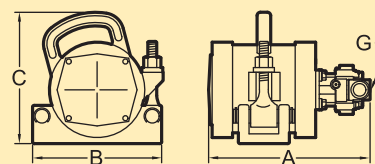
HA4



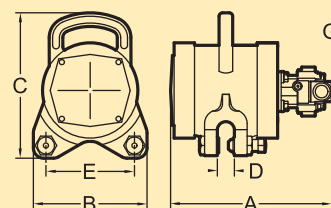
NHD



NHQ



HC4 & HC3



HL4 & HL3

For the mounting and operation instructions on Hydraulic Vibrators see our form 703

PERFORMANCE DATA

Model	In Lbs.	Force			Force			Force		MAX GPM	MAX PSI
		VPM	Lbs.	GPM	VPM	Lbs.	GPM	VPM	Lbs.		
H9-500	0.22	4000	100	2.79	6000	225	4.18	9000	506	6.25	1500
HA9-1600	0.69	4000	314	2.79	6000	705	4.18	9000	1587	6.24	1500
HA4-3300	5.70	2000	648	3.22	3000	1457	4.83	4500	3278	7.24	2000
NHD-110	6.00	2000	682	2.00	3000	1534	2.75	4000	2726	3.50	2000
NHQ-170	12.50	2000	1420	4.00	3000	3195	5.50	4000	5680	7.00	2000
NHQ-175	25.00	2000	2840	4.00	3000	6390	5.50	4000	11360	7.00	2000
HC4-3000	5.00	2000	568	3.22	3000	1278	4.83	4600	3005	7.41	2000
HC3-3500	10.10	2000	1147	3.22	3000	2582	4.83	3500	3514	5.64	2000
HL4-3000	5.00	2000	568	3.22	3000	1278	4.83	4600	3005	7.41	2000
HL3-3500	10.10	2000	1147	3.22	3000	2582	4.83	3500	3514	5.64	2000



COUGAR
INDUSTRIES, INC.

3600 Cougar Drive,
Peru, Illinois 61354-9336

www.cougarindustries.com

Toll Free: 800-262-2106
Phone: 815-224-1200
Fax: 815-224-1241

Form TB-HYD-001a

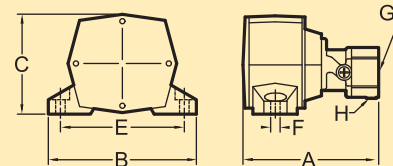
Hydraulic Vibrators

COUGAR

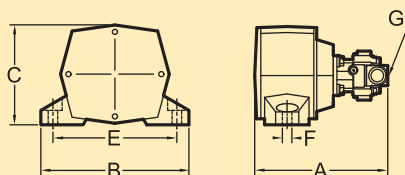


DIMENSIONS (Millimeter)

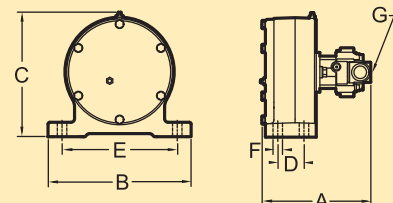
Model	A	B	C	Bolt Pattern		Bolt Size	Port NPT	Case Drain	Weight kg
				D	E				
H9-500	159	171	117	--	140	9	3/8	7/16 - 20 SAE	5.00
HA9-1600	248	187	117	--	152	12	3/8	7/16 - 20 SAE	9.10
HA4-3300	283	254	168	--	203	16	3/4 - 16 SAE	--	17.70
NHD-110	191	254	221	51	203	16	3/4 - 16 SAE	--	17.10
NHQ-170	310	271	286	51	203	16	3/4 - 16 SAE	--	31.60
NHQ-175	310	271	286	51	203	16	3/4 - 16 SAE	--	34.00
HC4-3000	291	241	262	--	--	--	3/4 - 16 SAE	--	19.10
HC3-3500	291	241	262	--	--	--	3/4 - 16 SAE	--	20.40
HL4-3000	291	213	267	32	159	--	3/4 - 16 SAE	--	23.60
HL3-3500	291	213	267	32	159	--	3/4 - 16 SAE	--	26.30



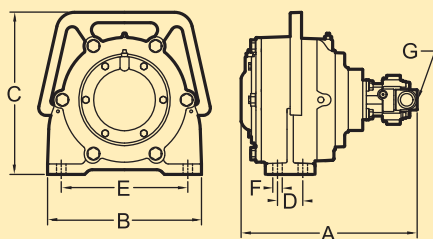
H9 & HA9



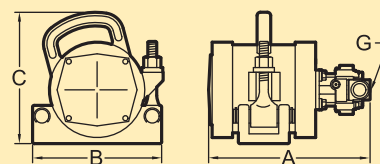
HA4



NHD



NHQ

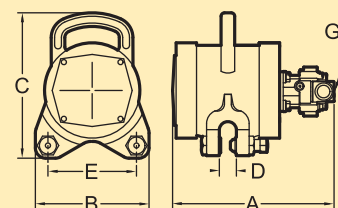


HC4 & HC3

For the mounting and operation instructions on Hydraulic Vibrators see our form 703

PERFORMANCE DATA

Model	kg cm	Force			Force			Force			MAX Ltr.Min	MAX Bar
		VPM	(N)	Ltr.Min	VPM	(N)	Ltr.Min	VPM	(N)	Ltr.Min		
H9-500	0.30	4000	445	11	6000	1001	16	9000	2251	24	103.40	
HA9-1600	0.80	4000	1395	11	6000	3138	16	9000	7061	24	103.40	
HA4-3300	6.60	2000	2880	12	3000	6481	18	4500	14582	27	137.90	
NHD-110	6.90	2000	3032	8	3000	6822	10	4000	12128	13	137.90	
NHQ-170	14.40	2000	6316	15	3000	14212	21	4000	25266	26	137.90	
NHQ-175	28.80	2000	12633	15	3000	28424	21	4000	50532	26	137.90	
HC4-3000	5.80	2000	2527	12	3000	5685	18	4600	13366	28	137.90	
HC3-3500	11.60	2000	5104	12	3000	11483	18	3500	15630	21	137.90	
HL4-3000	5.80	2000	2527	12	3000	5685	18	4600	13366	28	137.90	
HL3-3500	11.60	2000	5104	12	3000	11483	18	3500	15630	21	137.90	



HL4 & HL3



COUGAR
INDUSTRIES, INC.

3600 Cougar Drive,
Peru, Illinois 61354-9336

www.cougarindustries.com

Toll Free: 800-262-2106
Phone: 815-224-1200
Fax: 815-224-1241

Form TB-HYD-001b