

Pneumatic Rotary Vibrators

Navco pneumatic rotary vibrators are designed for minimum maintenance so they are easily refurbished. The unique coupling design isolates the unbalance load from the motor, extending bearing and seal life.



VIBRATOR PERFORMANCE DATA

Model	Unbal. Lb-in (n-m)	Start PSI (bar)	40 PSI (2.8 bar)			60 PSI (4.1 bar)			80 PSI (5.5 bar)			Max weight of material in sloped portion Lb (kg)
			Speed (rpm)	Flow SCFM (lps)	Force Lb (kn)	Speed (rpm)	Flow SCFM (lps)	Force Lb (kn)	Speed (rpm)	Flow SCFM (lps)	Force Lb (kn)	
NC3-6A-4AC	1.5 (0.17)	8 (0.55)	4400	41 (19)	820 (3.6)	5150	55 (26)	1130 (5)	5650	74 (35)	1360 (6.0)	13,600 (6,170)
	2.0 (0.23)	8 (0.55)	4310	40 (19)	1050 (4.7)	4980	54 (25)	1410 (6.3)	5500	73 (34)	1720 (7.6)	17,200 (7,800)
	2.5 (0.28)	8 (0.55)	4220	39 (18)	1260 (5.6)	4820	53 (25)	1650 (7.3)	5350	72 (34)	2030 (9.0)	20,300 (9,810)
	3.0 (0.34)	8 (0.55)	4130	38 (16)	1450 (6.5)	4650	52 (25)	1840 (8.2)	5200	71 (34)	2300 (10.3)	23,000 (10,400)
	4.0 (0.45)	10 (0.69)	4050	37 (17)	1860 (8.3)	4540	51 (24)	2340 (10.4)	5170	70 (33)	3040 (13.5)	30,400 (13,800)
	5.0 (0.57)	13 (0.90)	3980	36 (17)	2250 (10)	4440	51 (24)	2800 (12.5)	5130	70 (33)	3740 (16.6)	37,400 (17,000)
	6.0 (0.68)	18 (1.24)	3900	35 (16)	2590 (11.5)	4330	50 (24)	3220 (14.2)	5100	69 (33)	4430 (19.7)	44,300 (20,100)
ND4.5-6-4AC NCC4.5-6-4AC	6.0 (0.7)	18 (1.24)	3950	35 (16)	2660 (11.8)	4250	50 (24)	3080 (13.7)	4500	65 (31)	3450 (15.3)	34,500 (15,600)
ND4.5-8-4AC NCC4.5-8-4AC	8.0 (0.9)	18 (1.24)	3600	30 (14)	2940 (13.1)	3900	48 (22)	3460 (15.4)	4300	64 (30)	4200 (18.7)	42,000 (19,100)
ND4.5-10-4AC NCC4.5-10-4AC	10.0 (1.1)	18 (1.24)	3350	32 (15)	3190 (14.2)	3700	47 (22)	3890 (17.3)	3900	62 (29)	4320 (19.2)	43,200 (19,600)
ND7-12-6AC NCC7-12-6AC	12.0 (1.4)	15 (1.04)	4000	55 (26)	5450 (24.2)	5250	85 (40)	9390 (41.8)	Not for operation above 60 PSI			93,900 (42,600)
ND7-18-6AC NCC7-18-6AC	18.0 (2.0)	18 (1.24)	3550	54 (25)	6440 (28.6)	4650	82 (39)	11050 (49.2)	5400	114 (54)	14910 (66.3)	149,100 (67,600)
ND7-25-6AC NCC7-25-6AC	25.0 (2.8)	20 (1.38)	3300	52 (24)	7730 (34.4)	4400	81 (38)	13750 (61.2)	5050	109 (54)	18110 (80.6)	181,100 (82,100)
ND7-50-6AC NCC7-50-6AC	50.0 (5.7)	25 (1.73)	2700	48 (22)	10350 (46.0)	3750	67 (32)	19970 (88.8)	4350	93 (44)	26870 (120)	268,700 (121,900)

Huntsman, Inc.

2362 Warren Ave. ▼ Twin Falls, Idaho 83301

(877) 733-2214 ▼ (208) 733-2214 ▼ Fax (208) 733-2240

www.huntsmaninc.com ▼ mail@huntsmaninc.com

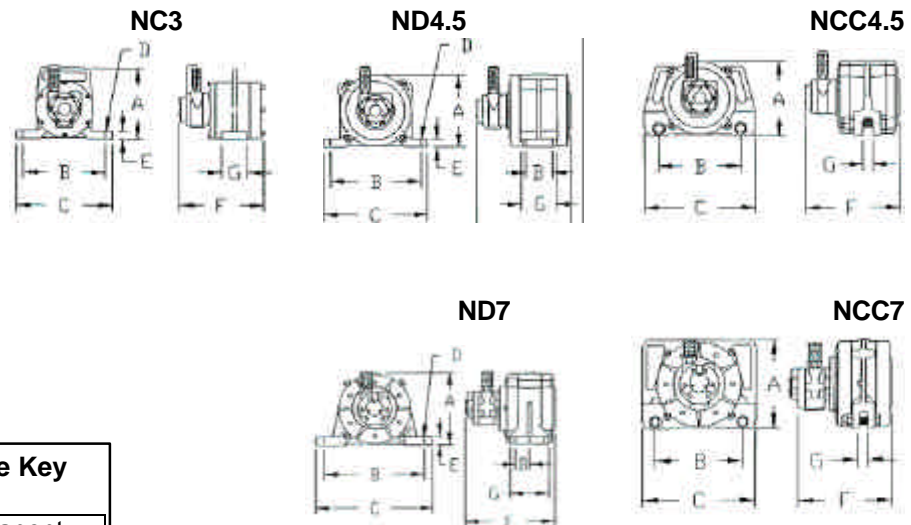
NAVCO®
HOUSTON, TX

VIBRATOR SPECIFICATIONS

Model	A Inch (mm)	B Inch (mm)	C Inch (mm)	D Inch (mm)	E Inch (mm)	F Inch (mm)	G Inch (mm)	Air motor port size* NPT	Weight Lbs. (Kgs)
NC3	8.2 (206)	8.0 (203)	11.1 (282)	0.78 (23)	0.9 (23)	9.6 (244)	3.0 (76)	½ - 14	44 (20)
ND4.5	8.4 (213)	10 x 2.5 (254 x 64)	12.1 (307)	0.66 (17)	1.0 (25)	10.6 (343)	4.1 (104)	½ - 14	52 (24)
NCC4.5	8.6 (218)	9.2 (234)	12.6 (320)	- -	- -	10.6 (270)	1.1 (28)	½ - 14	61 (28)
ND7	11.5 (292)	16 x 2 (406 x 51)	18 (457)	0.78 (23)	1.4 (36)	13.5 (343)	6.0 (152)	¾ - 14	104 (47)
NCC7	11.5 (292)	11.5 (292)	14.8 (376)	- -	- -	13.5 (343)	1.1 (28)	¾ - 14	96 (44)

* 2 ports

Weight: This is the total weight with the largest eccentric mounted. Weight will be less with smaller eccentrics mounted. ND7= Six bolt hole base vibrator.



Model # Nomenclature Key		
NC3	=	2-bolt, permanent
ND4.5	=	4-bolt, permanent
ND7	=	6-bolt, permanent
NCC	=	Clamp on, portable

Middle # refers to the unbalance of the eccentric weights in inch-pounds (e.g., ND4.5-8-5HC has eccentric weights with 8 inch-pounds unbalance). An 'A' after this number means the eccentric weights are adjustable. The settings are 1.5 in-lb, 2 in-lb, 2.5 in-lb, 3 in-lb, 4 in-lb, 5 in-lb, and 6 in-lb. They are shipped adjusted to the 6 in-lb setting unless requested otherwise.

Motor Performance Data	Standard Motors	
	4AC	6AC
Port Size	½" - 14 NPT	¾" - 14 NPT
Min. Hose Size	½" ID	¾" ID
Max. Speed Continuous operation.	4,000 RPM	3,000 RPM
Max. Speed Intermittent operation	5,000 RPM	
Max. Pressure	100 PSI (6.9 bar)	
Max. Flow	100 SCFM (47 LPS)	150 SCFM (70 LPS)
Filtration Req'd.	64 micron	
Lubrication for Continuous operation	4-5 drops/min.*	5-6 drops/min.*
Lubrication for Intermittent operation	8-12 drops/min.*	10-12 drops/min.*

* 5 weight oil

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