

MODEL

FP

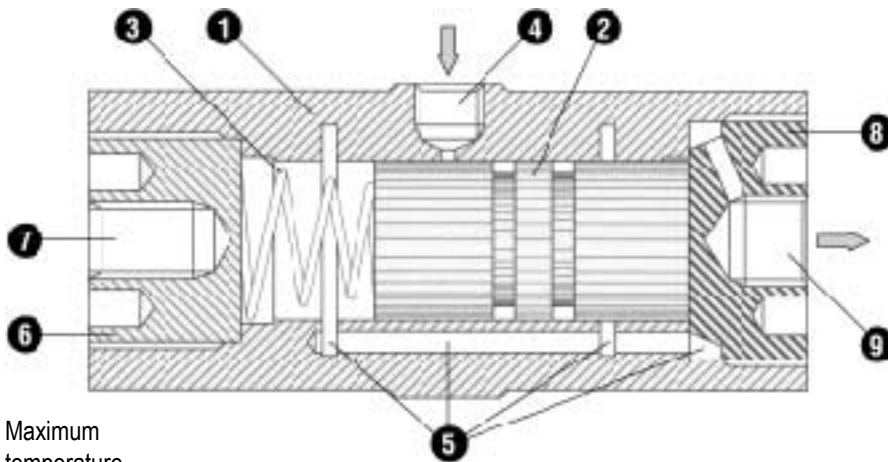
AIR POWERED  
PISTON  
VIBRATORS



## QUICK FACTS

- Hard Coated Aluminum Body
- Pneumatic Pistons
- Infinitely Variable Amplitude and Frequency

- 1 Hard anodized aluminum alloy body
- 2 Leaded bronze piston
- 3 Starter spring
- 4 Air inlet
- 5 Sound absorbing exhaust system
- 6 Hard anodized aluminum alloy socket
- 7 Threaded base for mounting
- 8 Plastic end cap
- 9 Air outlet



Maximum  
temperature  
50°C (120°F)

## The Highly Applicable FP Series is Quiet, Compact and Efficient

**DESIGN AND APPLICATION.** The FP-series pneumatic piston vibrators produce a linear vibration with an infinitely variable amplitude and frequency. The frequency is controlled by the air pressure. A self-starting spring is used in the vibrator body and operates at a minimum of 30 PSI. The aluminum body is hard coated and is corrosion resistant. The power-to-weight ratio of the unit makes it particularly efficient

for feeder applications. Explosion-proof, light weight, compact, quiet and efficient, these units are ideal for most applications. Easy to install and designed to work continuously under the most arduous conditions. Servicing requirements are minimal.

**INSTALLATION INSTRUCTIONS.** An air line filter and lubricator must be used to guarantee a long working life. Hydraulic oil ISO VG5 = 5cSt/40°C, for example SHELL Tellus Oil C5 must be used. These vibrators are suitable for use in ambient temperatures up to 120°F.

**GENERAL MAINTENANCE.** The FP-series vibrators have a long life with no undue piston or cylinder wear. The air line filter and lubricator must be inspected and cleaned at regular intervals. Dirt or contaminated oil will slow down or stop the vibrator.

[www.bestvibes.com](http://www.bestvibes.com)

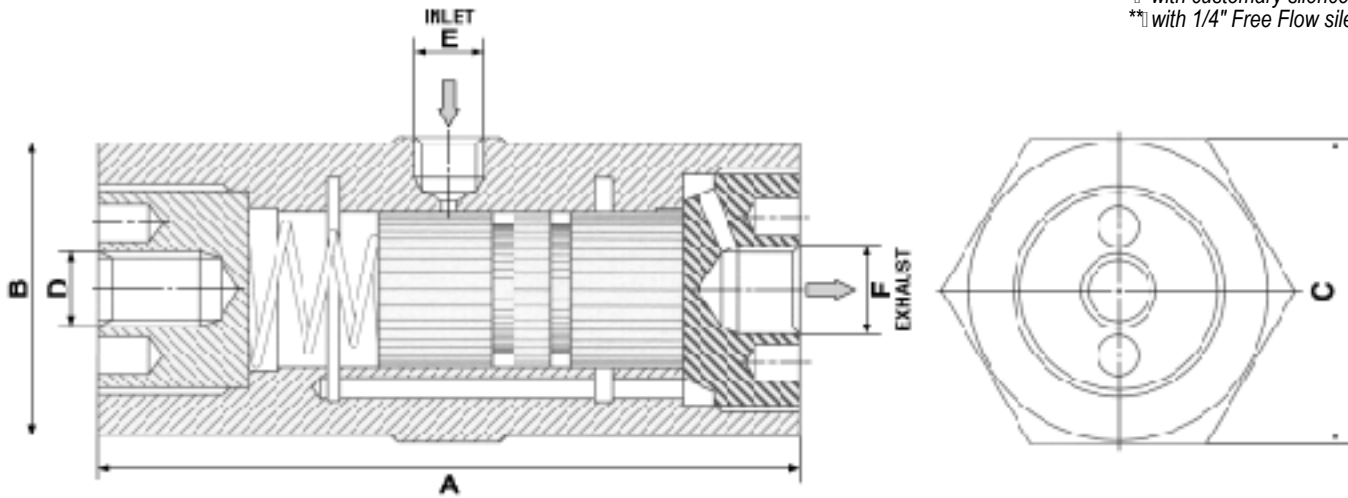
# B.E.S.T. INC.

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# PERFORMANCE DATA

TYPE	FREQUENCY V.P.M.			LINEAR FORCE MEASURED						AIR CONSUMPTION/MINUTE						NOISE LEVEL	
	2 Bar PSI	4 Bar PSI	6 Bar PSI	2 Bar N	29 PSI LBS	4 Bar N	58 PSI LBS	6 Bar N	87 PSI LBS	2 Bar Litre	29 PSI CF	4 Bar Litre	58 PSI CF	6 Bar Litre	87 PSI CF	dBA*	dBA**
FP-12-S	5250	6910	8270	24	5.4	44	10	64	14.4	0.8	0.03	7.5	0.26	25	0.88	57-61	N/A
FP-12-M	4200	5480	6430	27	6.1	48	11	68	15.3	0.5	0.02	4	0.14	19	0.67	57-61	N/A
FP-12-L	3300	4300	4980	26	5.9	48	11	64	14.4	1	0.04	3	0.11	20	0.71	58-60	N/A
FP-18-S	4730	6270	7700	50	11.3	93	21	128	29	5	0.18	33	1.16	57	2.00	62-71	N/A
FP-18-M	3480	4580	5540	58	13.0	110	25	152	34	4	0.14	28	1.00	52	1.84	61-67	N/A
FP-18-L	2700	3670	4430	60	13.5	128	29	180	41	5	0.18	23	0.81	46	1.62	61-68	N/A
FP-25-S	3400	4300	5050	110	25	225	51	330	74	13	0.46	54	1.91	93	3.28	70-75	61-67
FP-25-M	2600	3300	3870	115	26	240	54	350	79	23	0.81	50	1.76	87	3.07	73-75	62-66
FP-25-L	2000	2700	3150	115	26	255	58	390	88	18	0.64	62	2.19	93	3.28	72-75	60-65
FP-35-S	3600	4400	5200	220	50	440	100	650	147	23	0.81	101	3.56	162	5.72	72-77	71-73
FP-35-M	2700	3500	4000	240	54.3	480	108.5	720	163	24	0.84	83	2.93	141	4.98	74-78	70-73
FP-35-L	2200	2800	3300	240	54.3	530	120	820	185.5	38	1.34	89	3.14	135	4.77	74-78	68-74
FP-50	1850	2250	2700	440	99.7	1040	233.3	1750	392.5	47	1.66	93	3.28	160	5.65	68-76	60-67
FP-60	1800	2200	2550	650	145.8	1450	325.2	2300	515.8	55	1.94	110	3.88	190	6.71	70-76	61-67

\* with customary silencer  
\*\* with 1/4" Free Flow silencer



# DIMENSIONS

TYPE	A		B		C		D METRIC THREAD	E* BSP THREAD	F* BSP THREAD	WT OF BODY		WT OF PISTON		TOTAL WEIGHT	
	MM	INCH	MM	INCH	MM	INCH				KG	LBS	KG	LBS	KG	LBS
FP-12-S	71	2.80	31	1.22	34	1.34	M8	1/8"	1/8"	0.125	0.275	0.020	0.045	0.145	0.320
FP-12-M	81	3.19	31	1.22	34	1.34	M8	1/8"	1/8"	0.140	0.309	0.030	0.066	0.170	0.375
FP-12-L	94	3.70	31	1.22	34	1.34	M8	1/8"	1/8"	0.165	0.360	0.040	0.090	0.205	0.450
FP-18-S	81	3.19	40	1.57	42	1.65	M10	1/8"	1/8"	0.220	0.485	0.060	0.135	0.280	0.620
FP-18-M	94	3.70	40	1.57	42	1.65	M10	1/8"	1/8"	0.260	0.575	0.080	0.175	0.340	0.750
FP-18-L	109	4.29	40	1.57	42	1.65	M10	1/8"	1/8"	0.300	0.660	0.110	0.240	0.410	0.900
FP-25-S	98	3.86	48	1.89	50	1.97	M12	1/8"	1/4"	0.375	0.825	0.155	0.345	0.530	1.170
FP-25-M	116	4.57	48	1.89	50	1.97	M12	1/8"	1/4"	0.435	0.955	0.215	0.475	0.650	1.430
FP-25-L	136	5.35	48	1.89	50	1.97	M12	1/8"	1/4"	0.500	1.100	0.290	0.640	0.790	1.740
FP-35-S	98	3.86	58	2.28	65	2.55	M12	1/4"	1/4"	0.530	1.168	0.315	0.694	0.845	1.862
FP-35-M	116	4.57	58	2.28	65	2.55	M12	1/4"	1/4"	0.610	1.344	0.430	0.947	1.040	2.292
FP-35-L	136	5.35	58	2.28	65	2.55	M12	1/4"	1/4"	0.700	1.543	0.530	1.278	1.280	2.621
FP-50	157	6.18	84.5	3.33	N/A	N/A	M16	1/4"	1/4"	1.737	3.821	1.483	3.263	3.220	7.08
FP-60	157	6.18	84.5	3.33	N/A	N/A	M16	1/4"	1/4"	2.110	4.642	2.130	4.686	4.240	9.34

NOTE: The FP-50 and FP-60 are supplied with square base plates attached for mounting with 4 bolts, instead of the M16 single stud. This increases the overall length by 20mm.

\* Will Accept NPT