

OIL-FREE

(does not require lubrication via the compressed air)



The FPLF-series pneumatic piston vibrators have the same technical features like the FP-series, however, do not require lubrication with oil or water via the compressed air. They produce a linear vibration with an infinitely variable amplitude and frequency. The frequency is controlled by the air pressure. The FPLF vibrators are not knockers, i.e. the piston does not hit the floor, but is stopped by an air cushion that builds up either on the floor or on the head side and then speeds up the piston to the opposite direction. The centrifugal force/time curve is therefore almost sinusoidal without peaks due to impacts. This feature is ideal for conveying material, among other things.

The types FPLF-18/25/35-S/M/L are optionally available with an adapter plate if the vibrators are to be connected using four screws due to an existing construction. A centred threaded hole in the bottom is the standard for mounting. An adapter plate is standard for the types FPLF-50/60/95-M.

The aluminium body is hard coated and is corrosion resistant to ensure use in the food and pharmaceutical industries. The power-to-weight ratio of the unit makes it particularly efficient for feeder applications. Explosion proof (optional), 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.

TECHNICAL DETAILS

Type	FREQUENCY RPM			CENTRIFUGAL FORCE N			AIR CONSUMPTION l / min			NOISE- LEVEL	
	2 bar	4 bar	6 bar	2 bar	4 bar	6 bar	2 bar	4 bar	6 bar	dBA*	dBA**
FPLF-12-XS	6'000	9'000	11'500	22	48	68	0.8	6	15	60-64	
FPLF-12-S	6'200	7'800	9'300	34	70	92	0.8	7.5	25	57-61	
FPLF-12-M	5'000	6'000	6'700	34	58	74	0.5	4	19	57-61	
FPLF-12-L	4'000	4'800	5'400	32	58	81	1	3	20	58-60	
FPLF-18-S	5'000	6'400	7'700	66	134	187	5	33	57	62-71	
FPLF-18-M	4'000	5'000	5'900	68	134	188	4	28	52	61-67	
FPLF-18-L	3'100	4'000	4'600	64	150	206	5	23	46	61-68	
FPLF-25-S	3'600	4'300	5'500	126	270	416	13	54	93	70-75	61-67
FPLF-25-M	3'000	3'800	4'200	142	364	504	23	50	87	73-75	62-66
FPLF-25-L	2'400	3'100	3'700	186	392	594	18	62	93	72-75	60-65
FPLF-35-S	3'800	4'700	5'800	294	668	1'038	23	101	162	72-77	71-73
FPLF-35-M	3'000	4'000	4'600	248	778	1'080	24	83	141	74-78	70-73
FPLF-35-L	2'400	3'100	3'600	282	680	1'066	38	89	135	74-80	68-74
FPLF-50-M	1'850	2'300	2'800	490	970	1'660	48	100	190	70-77	
FPLF-60-M	1'950	2'400	2'700	610	1'400	2'170	90	160	270	73-79	
FPLF-95-M	1'800	2'400	2'800	1'620	4'060	6'150	170	320	450	88-93	

• Can be used up to 150°C (FP-13 up to 35.) or up to 120°C (FP-50 bis 95).

• **Atex versions according to EX II 2 G D c T6 T85°C available.**

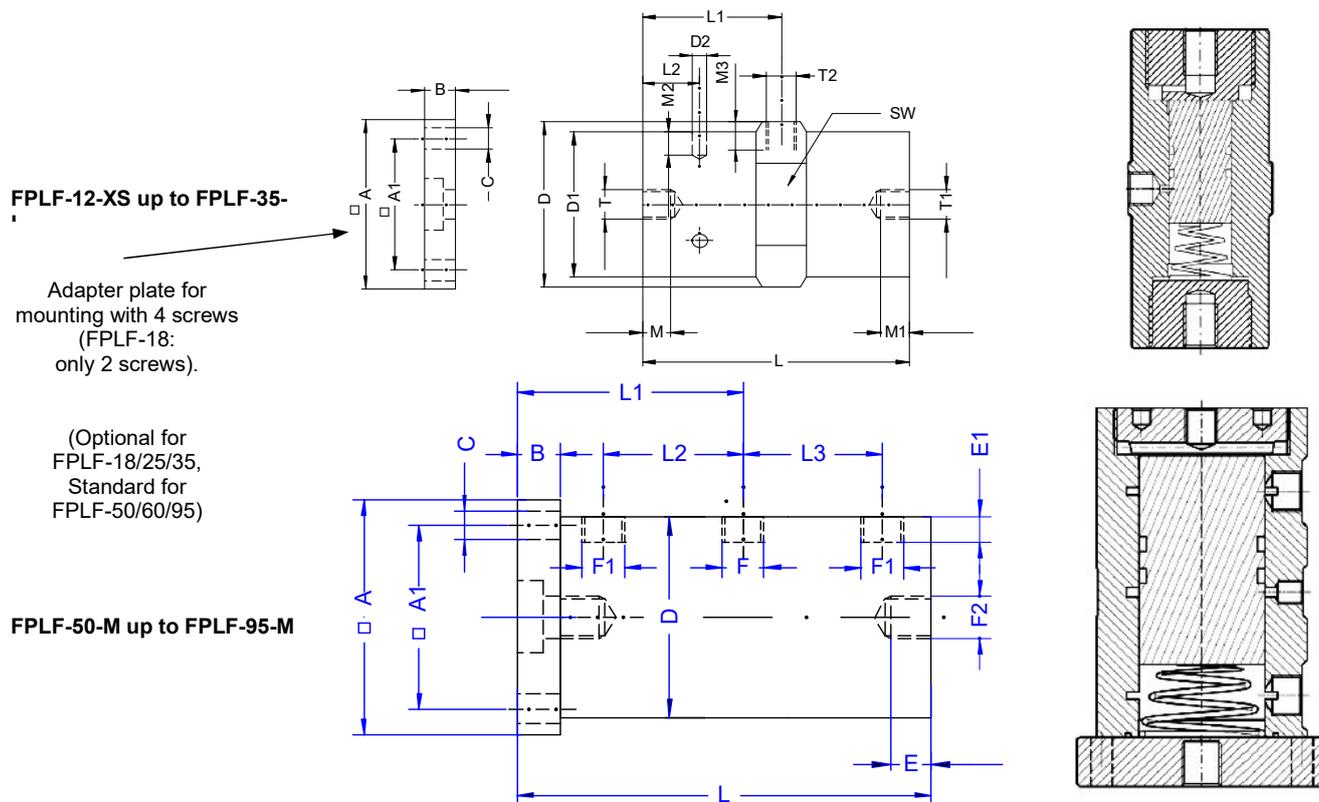
* with customary silencer

** with 1/4"-Free-Flow silencer

Data obtained with a Kistler 3-Axis Dynamometer on a heavy laboratory test block and displayed by a Kistler control monitor (COMO). Frequency and force will decrease on a less rigged mount. We reserve the right to improve, modify or withdraw specifications or products without notice or obligation.

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The base of the housing has a metric thread so that the vibrator can be easily mounted. The air inlet and outlet holes (housing side and head) have pipe threads so that the escaping air can be soundproofed or channelled away. Piston vibrators of the -series can be mounted in any position. For the lubrication-free types - only filtered compressed air (filter < 5 μm) is required.



DIMENSIONS IN MM:

Type	A	A1	B	C	D	D1	D2	L	L1	L2	M	M1	M2	M3	T	T1	T2	SW	kg
FPLF-12-XS					37.0	31.0		50.0	25.0		11.0	11.0		7.0	M 8	G1/8"	G1/8"	34.0	0.10
FPLF-12-S					37.0	31.0		71.0	35.5		11.0	11.0		7.0	M 8	G1/8"	G1/8"	34.0	0.15
FPLF-12-M					37.0	31.0		81.0	40.5		11.0	11.0		7.0	M 8	G1/8"	G1/8"	34.0	0.18
FPLF-12-L					37.0	31.0		94.0	47.0		11.0	11.0		7.0	M 8	G1/8"	G1/8"	34.0	0.21
FPLF-18-S	109x40	90	15	8.3	45.0	40.0		81.0	40.5		13.0	11.0		7.0	M 10	G1/8"	G1/8"	42.0	0.30
FPLF-18-M	109x40	90	15	8.3	45.0	40.0		94.0	47.0		13.0	11.0		7.0	M 10	G1/8"	G1/8"	42.0	0.35
FPLF-18-L	109x40	90	15	8.3	45.0	40.0		109.0	54.5		13.0	11.0		7.0	M 10	G1/8"	G1/8"	42.0	0.42
FPLF-25-S	□ 90	□ 72	20	9.0	53.5	48.0		98.0	41.5		15.0	11.0		7.0	M 12	G1/4"	G1/8"	50.0	0.55
FPLF-25-M	□ 90	□ 72	20	9.0	53.5	48.0		116.0	60.5		15.0	11.0		7.0	M 12	G1/4"	G1/8"	50.0	0.67
FPLF-25-L	□ 90	□ 72	20	9.0	53.5	48.0		136.0	70.5		15.0	11.0		7.0	M 12	G1/4"	G1/8"	50.0	0.82
FPLF-35-S	□ 90	□ 72	20	9.0	69.0	58.0		98.0	41.5		15.0	11.0		9.0	M 12	G1/4"	G1/4"	65.0	0.93
FPLF-35-M	□ 90	□ 72	20	9.0	69.0	58.0		116.0	60.5		15.0	11.0		9.0	M 12	G1/4"	G1/4"	65.0	1.13
FPLF-35-L	□ 90	□ 72	20	9.0	69.0	58.0		136.0	70.5		15.0	11.0		9.0	M 12	G1/4"	G1/4"	65.0	1.38

Threaded holes: T = Mounting - T1 = Connection silencer (compressed air outlet) - T2 = Connection screw-in nozzle (compressed air supply)

Type	A	A1	B	C	D	E	E1	F	F1	F2	L	L1	L2	L3	kg
FPLF-50-M	□ 90	□ 72	20	8.8	84.0	13	10	G1/4"	G1/4"	G1/4"	154.0	78.5	41.5	41.5	3.05
FPLF-60-M	□ 110	□ 90	20	8.8	94.0	13	10	G1/4"	G3/8"	G1/4"	154.0	78.5	41.5	41.5	4.10
FPLF-95-M	□ 150	□ 125	20	13.0	140.0		12	G3/8"	G3/8"		157.0	77.5	35.0	35.0	8.75

Threaded holes: F = Connection screw-in nozzle (compressed air supply) - both F1 or alternatively F2 = Connection silencer (compressed air outlet)

Optional adapter plates (see dimensional sketch):

Code.-No.: 99018.80 for FPLF-18-S/M/L • Code-No.: 99035.80 for FPLF-25/35-S/M/L

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