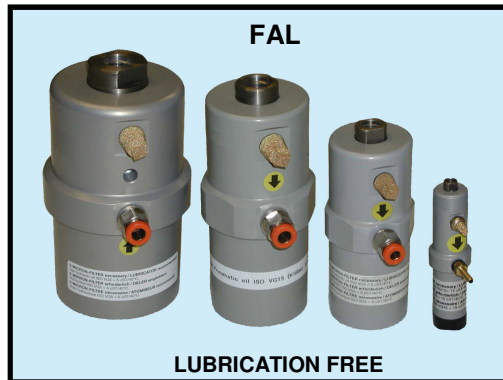


Vibration Solutions

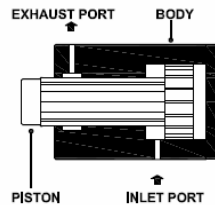
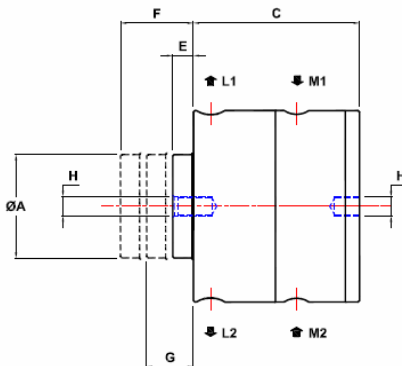
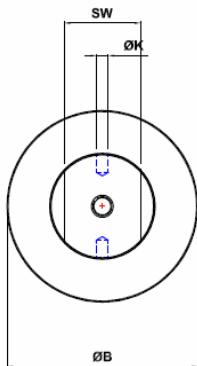


IMPORTANT NOTICE

Vibrators and vibrating equipment can be dangerous if not used correctly.

1. **DO NOT** hold or touch when running.
2. **DO NOT** stand or sit on vibratory equipment when running.
3. **USE ONLY** for the purpose intended.
4. **USE ONLY** when vibrators are securely mounted.
5. **USE ONLY** when pneumatic hoses and fittings are securely tightened.
6. **ALWAYS** wear ear protectors.

VTL DATA SHEET



All steel construction with special hardened surfaces

Dimensions (mm)														
Model	A	B	C	E	F	G	H	K	L1	L2	M1	M2	SW	WT kgs
VTL 155*	16.0	50	114	9	43	24.0	M10	-	1/8"	-	1/8"	-	13	0.52
VTL165	165	49	111	5	40	22.5	M10	-	1/8"	-	1/8"	-	14	1.48
VTL 255	25.5	64	140	9	54	36.5	M16	-	1/4"	-	1/4"	-	22	3.19
VTL 405	40.5	84	140	12	57	36.0	M16	-	1/4"	-	1/4"	-	32	5.50
VTL 555	55.5	115	125	17	54.7	36.8	M20	-	3/8"	-	3/8"	-	46	9.00
VTL 855	85.5	160	122	20	54.7	36.8	M20	12.7	3/8"	3/8"	3/8"	-	-	17.00
VTL 1105	110.5	200	122	22	54.7	36.8	M20	12.7	1/2"	1/2"	3/8"	3/8"	-	28.00

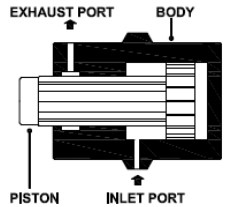
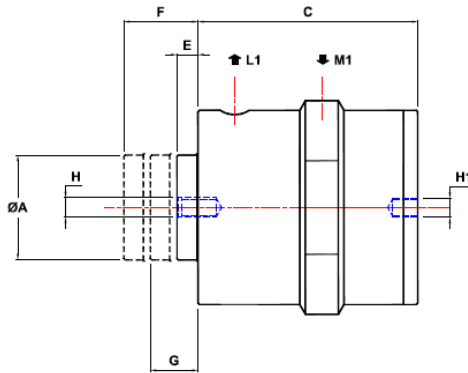
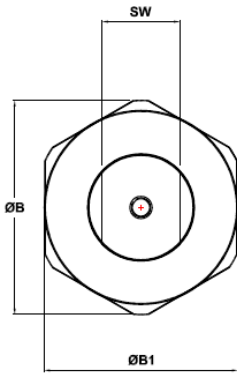
* VTL 155 has plastic body, aluminium end cap and stainless steel piston.

Performance Data				
Model	Frequency v.p.m.	Force N		Air Consumption l/min
	max.	min.	max.	max.
VTL 155*	2600	39	110	90
VTL165	2600	39	185	75
VTL 255	1900	90	720	200
VTL 405	1900	220	1450	408
VTL 555	2400	510	2640	755
VTL 855	2500	845	7740	924
VTL 1105	2900	1760	5980	960

Noise level: max. 80 dB(A) at 6 bar using a good proprietary silencer, even less at lower pressures.

Operating temperature: +5°C to 150°C (except VTL 155 - +5°C to 100°C).

FAL (lubrication free) DATA SHEET



Hard anodised aluminium body and stainless steel piston

Dimensions (mm)															
Model	A	B	B1	C	E	F	G	H	H1	L1	L2	M1	M2	SW	WT kgs
FAL 8	8	25	20	91	5	32	24	M5	M6	M5	-	M5	-	7	0.1
FAL 18	18	53	48	117	8	41	32	M10	M10	1/8"	-	1/8"	-	14	0.75
FAL 25	25	69	60	140	8	48	38	M16	M16	1/4"	-	1/4"	-	22	1.5
FAL 35	35	88	78	140	14	51	41	M16	M16	1/4"	-	1/4"	-	27	2.6

Performance Data				
Model	Frequency v.p.m.	Force N		Air Consumption l/min
	max.	min.	max.	max.
FAL 8	3400	12	42	30
FAL 18	2250	60	205	60
FAL 25	2020	120	530	155
FAL 35	2010	205	655	350

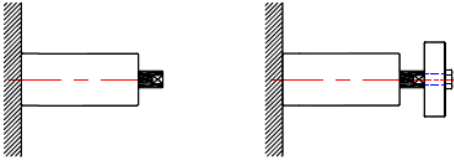
Noise level: max. 80 dB(A) at 6 bar using a good proprietary silencer, even less at lower pressures.

Operating temperature: +5°C to 60°C.

The table on next page shows the performance data of our VTL range of vibrators, fixing either the piston or the body to the equipment. The end freely moving generates the oscillating force which can be increased by adding weights (see below).

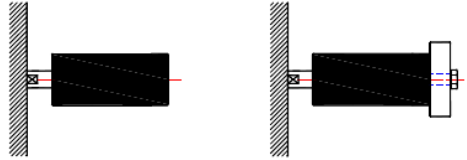
FIXED BODY

Moving piston only or + weight (s)



FIXED PISTON

Moving body only or + weight (s)



WEIGHT OF PISTON AND BODY (kgs)			
Type	Piston	Body	Total Weight
VTL 155	0.15	0.37	0.52
VTL 165	0.16	1.32	1.48
VTL 255	0.49	2.70	3.19
VTL 405	1.32	4.18	5.50
VTL 555	2.13	6.87	9.00
VTL 855	5.26	11.74	17.00
VTL 1105	9.50	18.50	28.00

ADDITIONAL WEIGHTS			
Part No.	Size dia x lg mm	Hole dia mm	Weight kgs
SM 16-1	50 x 20	10.5	0.29
SM 16-2	65 x 20	10.5	0.48
SM 25-1	50 x 20	16.5	0.29
SM 25-2	65 x 20	16.5	0.48
SM 25-3	100 x 20	16.5	1.20
SM 25-4	100 x 60	16.5	3.60
SM 85-1	100 x 20	20.5	1.20
SM 85-2	100 x 60	20.5	3.60
SM 85-3	200 x 50	20.5	12.50
SM 85-4	200 x 100	20.5	25.00
SM 85-5	200 x 150	20.5	37.00

PERFORMANCE DETAILS FOR VTL LINEAR VIBRATORS

Model	Weight of moving part		Air Consumption l/min			Frequency cycles / min			Force N		
			2 bar	4 bar	6 bar	2 bar	4 bar	6 bar	2 bar	4 bar	6 bar
	kg										
VTL 155	Piston	0.15	18	40	85	1820	2380	2700	40	72	96
	Piston + SM 16-1	0.44	17	33	67	1030	1270	1430	55	88	112
	Piston + SM 16-2	0.63	16	30	60	870	1075	1260	52	82	113
	Piston + 2x SM 16-2	1.11	15	28	57	660	850	950	45	76	94
	Piston + 3x SM 16-2	1.59	14	26	54	540	670	780	40	64	90
VTL 165	Piston	0.16	17	37	70	1900	2450	2700	43	76	96
	Piston + SM 16-1	0.45	12	29	57	1070	1370	1570	59	106	160
	Piston + SM 16-2	0.64	11	27	50	900	1180	1350	63	127	163
	Piston + 2x SM 16-2	1.12	10	25	46	730	950	1100	61	124	171
	Body	1.32	9	23	43	670	850	990	49	109	178
	Body + 3x SM 16-2	2.76	8	20	32	400	625	700	31	94	189
VTL 255	Piston	0.49	56	109	180	1585	1670	2200	82	214	398
	Piston + SM 25-2	0.97	50	92	144	1010	1130	1460	123	266	561
	Piston + SM 25-3	1.69	48	87	132	900	980	1200	222	279	600
	Piston + 2x SM 25-3	2.89	45	75	120	640	740	920	216	280	617
	Body	2.70	42	68	104	615	640	795	301	326	596
	Body + 2x SM 25-3	5.10	38	64	98	420	550	710	121	340	597
	Body + 1x SM 25-4 + 1x SM 25-2	6.78	35	60	90	375	505	640	115	357	678
VTL 405	Piston	1.32	80	240	390	1400	1700	2000	206	343	657
	Piston + SM 25-3	2.52	70	180	360	980	1180	1480	255	520	785
	Body	4.18	65	155	315	750	920	1050	334	647	893
	Piston + SM 25-4	4.92	60	150	300	740	870	996	334	785	1177
	Body + SM 25-4	7.78	52	142	290	600	730	880	363	824	1315
	Body + 2x SM 25-4	11.38	50	125	285	520	660	790	451	863	1403
VTL 555	Piston	2.13	140	419	717	1600	1970	2500	451	961	1305
	Piston + SM 85-1	3.33	133	328	706	1200	1475	1900	550	1069	1619
	Body	6.87	120	319	492	880	1150	1460	834	1324	2433
	Body + SM 85-2	10.47	105	273	450	690	930	1120	893	1619	2531
	Piston + SM 85-3	14.63	91	250	428	600	735	925	834	1638	2933
	Piston + SM 85-4	27.13	88	218	412	464	556	885	628	1579	2521
VTL 855	Piston	5.26	301	635	900	1800	2280	2650	706	1137	1530
	Piston + SM 85-2	8.86	217	515	880	1250	1680	1800	1030	1864	2129
	Body	11.74	210	500	865	985	1260	1560	1177	2256	3198
	Piston + SM 85-3	17.76	175	400	740	890	1080	1300	1727	2747	3698
	Piston + SM 85-4	30.26	165	385	620	720	840	960	2845	4611	5258
	Piston + SM 85-5	42.26	160	380	615	625	770	840	4316	6229	7407
	Body + SM 85-3 + SM 85-5	61.24	-	380	615	-	720	810	-	6278	7632
VTL 1105	Piston	9.50	345	740	920	2130	2625	3000	1550	2619	2737
	Piston + SM 85-2	13.10	340	710	890	1700	2150	2500	1864	3159	4513
	Body	18.50	330	680	880	1330	1680	2050	1687	3551	4807
	Piston + SM 85-4	34.50	285	610	870	950	1200	1400	1844	3276	4836
	Body + SM 85-4	43.50	270	590	870	790	1050	1280	1991	4199	5631
	Piston + SM 85-5	46.50	270	590	860	770	960	1250	1952	3551	5690
	Body + SM 85-5	55.50	260	570	840	720	890	1000	1982	3924	4964
	Body + 230dia.x 200	66.10	250	550	780	700	770	870	2904	4758	5788

Maintenance

- Maintenance starts with the filter and/or lubricator.
- On VTL check the lubricator is dispensing the correct amount of oil, from 2-4 drops per minute according to size, also that the oil reservoir kept topped up.
- On both VTL and FAL ensure the filter is regularly drained and filter medium washed out or changed periodically.
- Both the VTL and FAL require the fixing bolts of the vibrator and weights to be checked for tightness at regular intervals according to the length of time they are used.
- No internal maintenance is required unless contaminated air has been used over a period of time. Then the following applies:
 - VTL vibrators can be cleaned, if not too contaminated, by running with clean lubricated air at 6 bar for a short time, otherwise it should be carefully dismantled and the surfaces cleaned with any oily cloth. This should also be done if they are not used for long periods or put in store.
 - FAL vibrators should be carefully dismantled and the surfaces cleaned and lightly greased with supplied lubricant (Klüber Altemp 3000).

ATTENTION

On no account should any abrasive mediums be used to clean the internal surfaces of VTL or FAL vibrators.

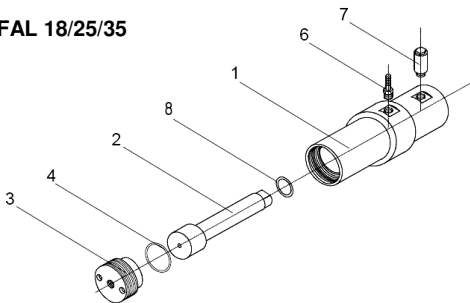


Spares

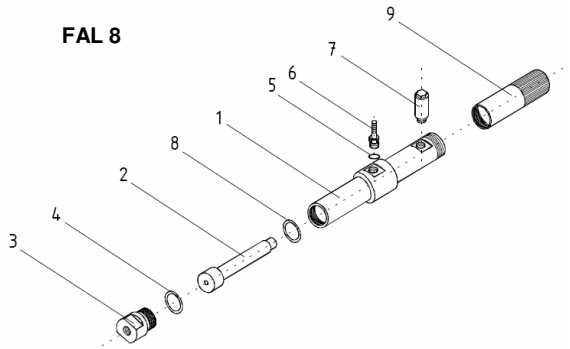
The VTL has only 3 working parts, manufactured in steel with special hardened surfaces, i.e. body, piston and end cap. The pistons are individually precision ground to suit the bodies, therefore these are not available separately as spares.

The FAL also has 3 working parts, but manufactured from hard anodised aluminium and stainless steel. These are available as spares and should be ordered quoting the model and part number required (see below table).

FAL 18/25/35



FAL 8



Spare Parts

Ref. No.	Description	Part Number			
		FAL 8	FAL 18	FAL 25	FAL 35
1	Body	99708.50	99718.50	99725.50	99735.50
2	Piston	99708.10	99718.10	99725.10	99735.10
3	End Cap	99708.30	99718.30	99725.30	99735.30
4	O - Ring	481.00	495.00	501.00	506.00
5	Gasket	471.00	N/A	N/A	N/A
6	Inlet Fitting	45020.00	45025.00	45026.00	45026.00
7	Silencer	39370.00	44025.00	44026.00	44026.00
8	O - Ring	475.00	494.00	500.00	505.00
9	End Cover	99708.4	N/A	N/A	N/A

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