

Water or oil operation – M series up to 4,000 bar

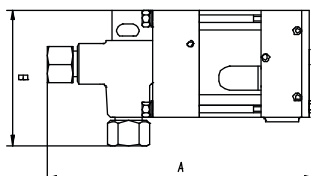
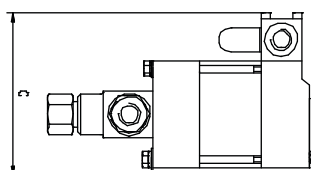
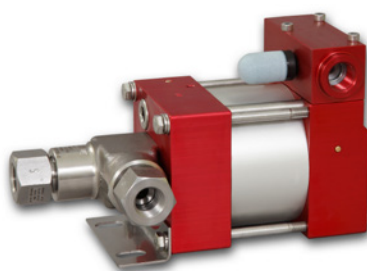
Maximator pumps of the M series are available in single- or double-acting design with one, two or three air drive pistons. They are suitable for use in zone 1, category 2G/2D IIC TX explosion-proof areas (temperature class depending on medium temperature).

M-Pumps

- » **Single-acting**
- » **With one air drive piston**
- » **For operating pressures up to 2,200 bar (31,900 psi)**

M pumps in single-acting design are distinguished by their light, compact construction.

- Material: M4, M8 and M12: Pump heads made of aluminium, pistons made of stainless steel; M22 to M189: stainless steel pump heads and pistons
- With UHMWPE seal and FKM O-ring
- Standard models with bottom inlet, side inlet optionally available



Options for M pumps

- Seal version for optimised water operation: (not available for M ...-2 /M...-3 and M...-01HL versions) up to 2,000 bar (29,000 psi)
Order code: M37 - (L)VE / M37D - VE
- Seal version for oil operation (standard)
Order code: M37 - (L)
- Seal versions for special media - **Order code: See media compatibility guide**
- Side inlet for single-acting M pumps - **Order code: M37(L) - S/M37(L)VE - S**
- Direct pilot valve air modification for single-acting, single air drive section types pumps M4 to M189: (for switching pump on/off via an external solenoid valve with small nominal size)
Order code: M37 - DIR

Type	Pressure ratio*	Displ. Volume **		Outlet pressure ***		Flow capacity l/min ****	Connections			Dimensions in mm			Weight kg
		cm ³	cu.inch	bar	psi		Air Drive L	Inlet A	Outlet B	A	B	C	
M4	1:4	30.5	1.86	40	580	14.81	3/8 BSPP	1 BSPP	1/2 BSPP	216	120	112	3.0
M8	1:9	14.7	0.90	90	1305	7.07	3/8 BSPP	3/4 BSPP	1/2 BSPP	209	120	112	3.0
M12	1:14	9.4	0.57	140	2030	4.55	3/8 BSPP	3/4 BSPP	1/2 BSPP	209	120	112	3.0
M22	1:28	4.6	0.28	280	4060	2.22	3/8 BSPP	3/8 BSPP	3/8 BSPP	195	104	112	2.8
M37	1:46	2.8	0.17	460	6670	1.36	3/8 BSPP	3/8 BSPP	3/8 BSPP	195	104	112	2.8
M72	1:86	1.5	0.09	860	12470	0.72	3/8 BSPP	3/8 BSPP	3/8 BSPP	195	104	112	2.8
M111	1:130	1.0	0.06	1300	18850	0.48	3/8 BSPP	3/8 BSPP	3/8 BSPP ①	195	104	112	2.8
M189	1:220	0.6	0.04	2200	31900	0.28	3/8 BSPP	3/8 BSPP	3/8 BSPP ①	195	104	112	2.8

* Ratio – driving surface air drive piston / driven surface high pressure piston (calculated)

** Displacement volume per double stroke (calculated).

*** Static outlet pressure (calculated and maximum allowed)

**** Approximate flow at an air drive of 6 bar / 87 psi and an outlet pressure of 0 bar/psi.

① High pressure pumps with outlet connections type BSPP or NPT are suitable for outlet pressures of up to 1,050 bar (15,000 psi). For higher outlet pressures, the pumps must be ordered with high pressure connections according to the required pressure range.

(58,000 psi)

- Spring return and hand lever attachment modification only available for M22 to M189 single acting, single air drive head types)

Order code: M37 - 01HL

- Special connections, e.g. with NPT thread

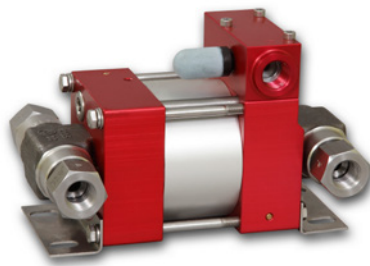
Order code: M37 - NPT

- Air control unit for M(D) pumps, consisting of a filter/pressure regulator combination, control pressure gauge and shut-off valve

Order code: M37(D) with C1

- Air control unit as above with additional safety valve in the drive air line for limiting the operating pressure on the high-pressure side **Order code: M37(D) with C1/SVAir (Please indicate the operating pressure to be set.)**

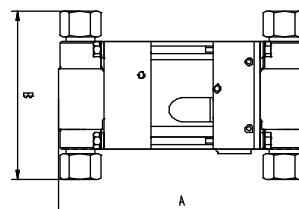
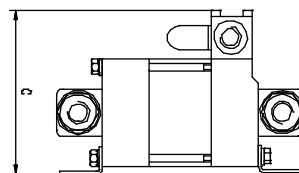
Other options available on request.



M...D-Pumps

- » Double-acting
- » With one air drive piston
- » Operating pressures of up to 2,200 bar (31,900 psi)

M...D pumps provide approx. 50% more pump capacity than M pumps with lower pulsation.



Type	Pressure ratio*	Displ. Volume **		Outlet pressure ***		Flow capacity l/min ****	Connections			Dimensions in mm			Weight kg
		cm³	cu.inch	bar	psi		Air Drive L	Inlet A	Outlet B	A	B	C	
M4D	1:3	61	3.7	30	440	25	3/8 BSPP	1 BSPP	1/2 BSPP	314	119	112	4,7
M8D	1:8	29.4	1.8	80	1160	12	3/8 BSPP	3/4 BSPP	1/2 BSPP	300	119	112	3,7
M12D	1:13	18.3	1.15	130	1890	7.8	3/8 BSPP	3/4 BSPP	1/2 BSPP	300	119	112	3,7
M22D	1:28	9.2	0.56	280	4060	3.91	3/8 BSPP	3/8 BSPP	3/8 BSPP	184	124	112	3.7
M37D	1:46	5.6	0.34	460	6670	2.35	3/8 BSPP	3/8 BSPP	3/8 BSPP	184	124	112	3.7
M72D	1:86	3.0	0.18	860	12470	1.24	3/8 BSPP	3/8 BSPP	3/8 BSPP	184	124	112	3.7
M111D	1:130	2.0	0.12	1300	18850	0.82	3/8 BSPP	3/8 BSPP	3/8 BSPP ①	184	124	112	3.7
M189D	1:220	1.2	0.07	2200	31900	0.49	3/8 BSPP	3/8 BSPP	3/8 BSPP ①	184	124	112	3.7