

CODE FORMULATION

73 - AC2 P 4 4 - P61 P P M

MOTOR	HEAD	FREQUENCY	STROKE	DIAMETER	CYLINDER -PISTON	VALVE -BALL	CONNECTION
AC1: 0.43 KW 110V AC2: 0.43 KW 230V AC3: 1.2 KW 230V	P: Piston D: Diaphragm	1: 26 Strokes/min. 2: 43 Strokes/min. 3: 72 Strokes/min. 4: 144 Strokes/min.	1: 4,5 mm 2: 7,5 mm 3: 9 mm 4: 15 mm	P24: Ø 24 mm P34: Ø 34 mm P49: Ø 49 mm P61: Ø 61 mm P77: Ø 77 mm P95: Ø 95 mm P110: Ø 110 mm D69: Ø 69 mm D95: Ø 95 mm D115: Ø115 mm D142: Ø142 mm D163: Ø163 mm	P: PP - PEUHMW C: PP - Ceramic I: SS316 - Ceramic F: PVDF - Ceramic T: PTFE - Ceramic	P: PP - Soda. B: PP - Boro. I: SS316 - SS316 F: PVDF - Boro. T: PTFE - Boro.	L: 6x12 (6x8 PVDF) M: 3/4" X: 1"1/4 Y: 1"1/4 NTP

* Diaphragm always PTFE

MATERIALS

Piston	PEUHMW / Ceramic / SS316
Diaphragm	P.T.F.E (Elastomer base reinforced with fiber)
Retention	FPM
Cylinder	P.P. / PVDF / SS 316
Valve (body)	P.P / PVDF / SS 316
Valve (ball)	Borosilicate / SS316 / Ceramic

FLOW -PRESSURE

	CODE	FLOW		PRESSURE		* Suction lift		**Max. viscosity mPas	FLOW		**Max. viscosity mPas
		l/h	GPH	bar	PSI	m	ft		l/h	GPH	
Piston	73-AC3P44-P110__X -	1200	31	5.5	80	5	16	20	600	159	250
	73-AC3P44-P95__X -	900	238	7.5	109	8	26	150	450	120	700
	73-AC3P44-P77__X -	600	159	11	160	9	30	350	300	79	1500
	73-AC2P44-P77__M 73-AC1P44-P77__M	600	159	4.5	65	1.5	5	10	300	79	100
	73-AC3P43-P77__X -	400	106	12	174	9	30	700	200	53	1500
	73-AC2P44-P61__M 73-AC1P44-P61__M	360	95	7	102	5	16	15	180	47	150
	73-AC2P44-P49__M 73-AC1P44-P49__M	240	63.4	11	160	8	26	50	120	32	350
	73-AC2P44-P34__M 73-AC1P44-P34__M	120	31.7	15	217	9	30	300	60	16	1200
	73-AC2P44-P24__M 73-AC1P44-P24__M	60	16	15	217	9	30	900	30	7.9	1500
	73-AC2P34-P24__L 73-AC1P34-P24__L	30	7.9	20/15	217	9	30	20	15	3.9	250
	73-AC2P33-P24__L 73-AC1P33-P24__L	18	4.7	20/15	217	9	30	150	9	2.4	450
	73-AC2P14-P24__L 73-AC1P14-P24__L	10.5	2.7	20/15	217	9	30	250	5.2	1.4	1500
	73-AC2P13-P24__L 73-AC1P13-P24__L	6	1.6	20/15	217	9	30	500	3	0.8	1500
	73-AC2P11-P24__L 73-AC1P11-P24__L	3	0.8	20/15	217	9	30	1000	1.5	0.4	1500

Diaphragm												
73-AC3D44-D163__X	-	1044	276	5	73	4	13	20	522	138	250	
73-AC3D43-D163__X	-	624	165	7	102	7	23	150	312	82.5	700	
73-AC3D43-D142__X	-	498	132	10	145	8	26	350	249	66	1500	
73-AC3D42-D142__X	-	373	99	10	145	9	30	500	186.5	49	1500	
73-AC2D43-D115__X	73-AC1D43-D115__M	301	79	5	72	7	23	20	150.5	39.5	250	
73-AC2D42-D115__X	73-AC1D42-D115__M	251	66	5	72	8	26	50	125.5	33	350	
73-AC3D33-D142__X	-	249	66	10	145	9	30	1000	124.5	33	1500	
73-AC2D43-D95__X	73-AC1D43-D95__M	173	45.6	8	116	8	26	150	86.5	22.8	600	
73-AC2D42-D95__X	73-AC1D42-D95__M	144	38	8	116	9	30	250	72	19	1000	
73-AC2D43-D69__X	73-AC1D43-D69__M	83	22	10	145	4	13	100	41.5	11	400	
73-AC2D42-D69__X	73-AC1D42-D69__M	68	18	10	145	8	26	400	34	9	1500	
73-AC2D41-D69__X	73-AC1D41-D69__L	38	9.6	15	217	9	30	10	19	4.8	100	
73-AC2D31-D69__X	73-AC1D31-D69__L	18.2	4.8	16	232	9	30	50	9.5	2.5	250	
73-AC2D21-D69__X	73-AC1D21-D69__L	10.9	2.9	16	232	9	30	100	5.7	1.5	450	
73-AC2D11-D69__X	73-AC1D11-D69__L	6.4	1.7	16	232	9	30	250	3.2	0.85	1500	

20bars models only with ceramic piston

Models with __L include priming valve

* Suction lift when dosing head an suction pipe are full. Tested with water at 20°C.

** For higher viscosities than 200mPas, special configuration valves are recommended.

MOTOR - INVERTER

Power	0.43 KW (0.58 Hp) 1.2 KW (1.6 Hp)
Tension	110V (0.43 KW) 230V (0.43 KW-1.2 KW)
Frequency	50Hz/60Hz
r.p.m	1680

Protection	IP-55
Ambient temperature	0 ... 45 °C
Media temperature	PP: 0 ... 50 °C PVDF: -10 ... 50 °C SS: -10 ... 60 °C
Relative Humidity max.:	95% (without Condensation)

OPERATING MODES

- Analogue control (0/4-20mA)
- Proportional pulse control
- Batch dosing control
- ModBus supervisory control
- Manual flow control

INPUTS

- Analogue input 0/4-20mA
- External pulse input
- Remote on/off input
- Level sensor input (pre-empty)
- Level sensor input (empty)
- Leakage detector input
- Flow detector input
- Pressure sensor input

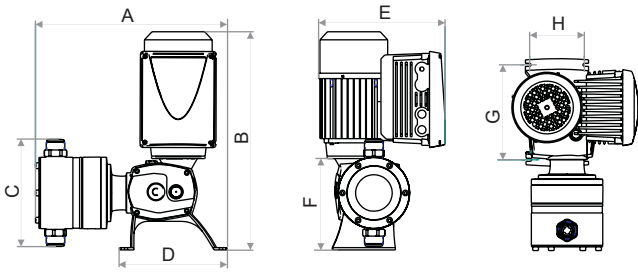
ADDITIONAL SAFETY DEVICES

- Temperature sensor
- Overload and short circuit protection
- Level sensor (optional)
- Diaphragm leakage detector (optional)
- Pressure sensor (optional)
- Flow failure detector (optional)

OUTPUTS AND COMMUNICATIONS

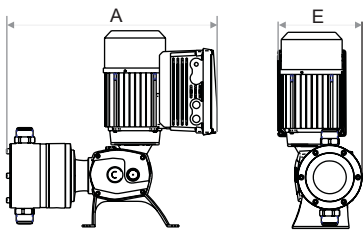
- Serial port RS-485 ModBus
- 4-20mA output for register and monitoring
- Pulse output for register, monitoring and 2nd pump control
- Alarm output (relay)
- Level alarm output (relay)

DIMENSIONS



		A	B	C	D	E	F	G	H	
Piston	AC3	429	490	230	241	285	210	212	122	mm
		16.8	19.3	9	9.5	11.2	8.2	8.3	4.8	in
	AC2/1	306	400	154	180	270	150	155	90	mm
		12	15.7	6	7	10.6	5.9	6.1	3.5	in
Diaphragm	D163	392	440	270	241	285	210	212	122	mm
		15.5	19.3	10.6	9.5	11.2	8.2	8.3	4.8	in
	D142	392	440	250	241	285	210	212	122	mm
		15.5	19.3	9.8	9.5	11.2	8.2	8.3	4.8	in
	D115	270	400	204	180	270	150	155	90	mm
		10.6	15.7	8	7	10.6	5.9	6.1	3.5	in
	D95	270	400	184	180	270	150	155	90	mm
		10.6	15.7	7.2	7	10.6	5.9	6.1	3.5	in
D69	274	400	154	180	270	150	155	90	mm	
	10.6	15.7	6	7	10.6	5.9	6.1	3.5	in	

Optional assembly



		A	E	
Piston	AC3	525	205	mm
		9.9	8.1	in
	AC2/1	422	155	mm
		16.6	6.1	in

		A	E	
Diaphragm	D163	490	225	mm
		19.3	8.8	in
	D142	489	215	mm
		19.2	8.4	in
	D115	386	180	mm
		15.1	7.1	in
	D95	386	170	mm
		15.1	6.7	in
D69	390	155	mm	
	15.3	6.1	in	

WEIGHT

AC3: 24 Kg (53 lb)
 AC2 /1: 13 Kg (29 lb)