

# DOSTEC AC: TECHNICAL FEATURES

## 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

## MATERIALS

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

## FLOW -PRESSURE

	CODE		FLOW		PRESSURE		**Suction lift	
	230V	110V	l/h	GPH	bar	PSI	m	ft
Piston	73-AC3P44-P110_X	-	1200	317	5,5	80	5	16
	73-AC3P44-P95_X	-	900	238	7,5	109	8	26
	73-AC3P44-P77_X	-	600	159	11	160	9	30
	73-AC2P44-P77_M	73-AC1P44-P77_M	600	159	4,5	65	1,5	5
	73-AC3P43-P77_X	-	400	106	12	174	9	30
	73-AC2P44-P61_M	73-AC1P44-P61_M	360	95	7	102	5	16
	73-AC2P44-P49_M	73-AC1P44-P49_M	240	63,4	11	160	8	26
	73-AC2P44-P34_M	73-AC1P44-P34_M	120	31,7	15	217	9	30
	73-AC2P44-P24_M	73-AC1P44-P24_M	60	16	15	217	9	30
	73-AC2P34-P24_L	73-AC1P34-P24_L	30	7,9	20/15	217	9	30
	73-AC2P33-P24_L	73-AC1P33-P24_L	18	4,7	20/15	217	9	30
	73-AC2P14-P24_L	73-AC1P14-P24_L	10,5	2,7	20/15	217	9	30
	73-AC2P11-P24_L	73-AC1P11-P24_L	6	1,6	20/15	217	9	30
	73-AC2P11-P24_L	73-AC1P11-P24_L	3	0,8	20/15	217	9	30
Diaphragm	73-AC3D44-D163_X	-	1044	276	5	73	4	13
	73-AC3D43-D163_X	-	624	165	7	102	7	23
	73-AC3D43-D142_X	-	498	132	10	145	8	26
	73-AC3D42-D142_X	-	373	99	10	145	9	30
	73-AC2D43-D115_M	73-AC1D43-D115_M	301	79	5	72	7	23
	73-AC2D42-D115_M	73-AC1D42-D115_M	251	66	5	72	8	26
	73-AC3D33-D142_X	-	249	66	10	145	9	30
	73-AC2D43-D95_M	73-AC1D43-D95_M	173	45,6	8	116	8	26
	73-AC2D42-D95_M	73-AC1D42-D95_M	144	38	8	116	9	30
	73-AC2D43-D69_M	73-AC1D43-D69_M	83	22	10	145	4	13
	73-AC2D42-D69_M	73-AC1D42-D69_M	68	18	10	145	8	26
	73-AC2D41-D69_L	73-AC1D41-D69_L	38	9,6	15	217	9	30
	73-AC2D31-D69_L	73-AC1D31-D69_L	19	5	15	217	9	30
	73-AC2D21-D69_L	73-AC1D21-D69_L	11,4	3	15	217	9	30
	73-AC2D11-D69_L	73-AC1D11-D69_L	6,5	1,7	15	217	9	30

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

### MOTOR - INVERTER

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

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

### OPERATING MODES

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

### ADDITIONAL SAFETY DEVICES

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

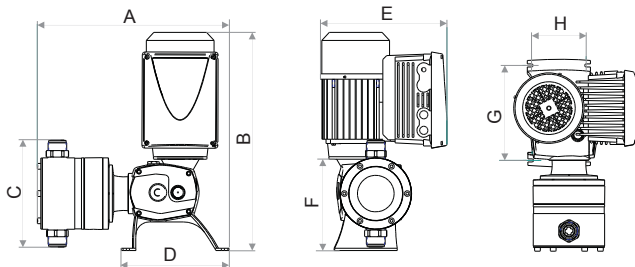
### INPUTS

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

### 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)

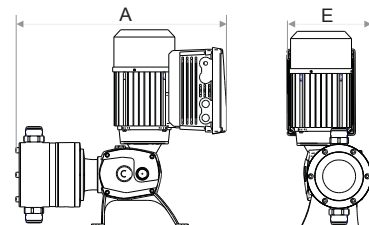
### DIMENSIONS



Piston	A	B	C	D	E	F	G	H		
	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	A	B	C	D	E	F	G	H		
	D163	395	490	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	394	490	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



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

Diaphragm	A	E		
	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)