

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: Ø 115 mm D142: Ø 142 mm D163: Ø 163 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 / SS 316 |
| Valve (body) | P.P / PVDF / SS 316 |
| Valve (ball) | Soda lime / Borosilicate / SS316 |

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 |

| Diaohragm | 73-AC2P11-P24__L | | 73-AC1P11-P24__L | | 3 | | 0,8 | | 20/15 | | 217 | | 9 | | 30 | | 1000 | | 1,5 | | 0,4 | | 1500 | |
|-----------|-------------------|-------------------|------------------|------|-----|-----|-----|----|-------|-------|------|------|-----|--|----|--|------|--|-----|--|-----|--|------|--|
| | | 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 | 18,6 | 5 | 16 | 232 | 9 | 30 | 50 | 9,5 | 2,5 | 250 | | | | | | | | | | | | |
| | 73-AC2D21-D69__X | 73-AC1D21-D69__L | 11,1 | 3 | 16 | 232 | 9 | 30 | 100 | 5,7 | 1,5 | 450 | | | | | | | | | | | | |
| | 73-AC2D11-D69__X | 73-AC1D11-D69__L | 6,8 | 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) | Protection | IP-55 |
| Tension | 110V (0.43 KW) 230V (0.43 KW-1.2 KW) | Ambient temperature | 0 ... 45 °C |
| Frequency | 50Hz/60Hz | Media temperature | PP: 0 ... 50 °C PVDF: -10 ... 50 °C SS: -10 ... 60 °C |
| r.p.m | 1680 | 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

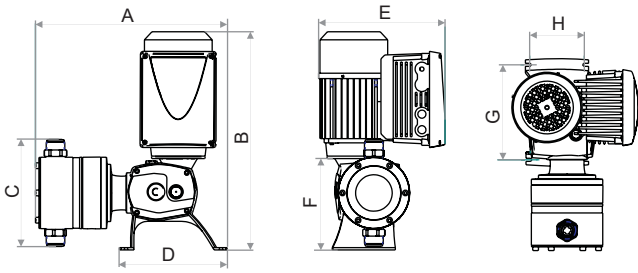
ADDITIONAL SAFETY DEVICES

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

OUTPUTS AND COMMUNICATIONS

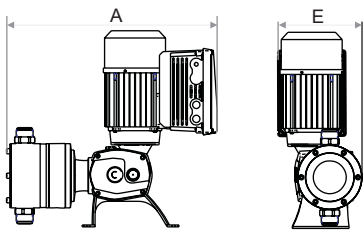
- Serial port RS-485 ModBus
- 4-20mA output for register and monitoring
- Pulse output for register, monitoring and 2nd pump control
- Alarm output (relay)
- Level alarm output (relay)

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)