

"AMS AC" series Metering Pumps

Data Sheet



- Compressed air driven metering pump
- 230 VAC and compressed air power supply
- Stroke frequency adjustment
- Manual venting PVDF pump head
- All liquid ends (pump head, injection valve, foot filter, delivery hose) are in PVDF

| | |
|---|--|
| Power supply: | 230 VAC (190–265 VAC) - 50/60 Hz 115 VAC (90–135 VAC) - 50/60 Hz 24 VAC (20–32 VAC) - 50/60 Hz 12 VDC (10–16 VDC) 24 VDC (20–32 VDC) |
| Compressed air: | 6–10 bar (compressed air without lubricant and/or condensed water) |
| Suction air pressure: | 7 bar |
| Pump Strokes | 0–120 |
| Environment Temperature: | 0–45°C (32–113°F) |
| Chemical Temperature: | 0–50°C (32–122°F) |
| Packaging and Transporting Temperature: | -10–+50°C (14–122°F) |
| Installation Class: | II |
| Pollution Level: | 2 |
| Audible Noise: | 78.3 db(A) |
| Protection Degree Rating: | IP65 |
| Max operating altitude: | 2000m |

Configuration code

| MODELS | | |
|-------------|-----------|--|
| Code AMS AC | MOD. | DESCRIPTION |
| OA | AMS AC CO | Constant pump with stroke speed (frequency) adjustment. |
| LA | AMS AC CL | Constant pump with level control, stroke speed (frequency) adjustment and stroke length adjustment. |
| MC | AMS AC MF | <ul style="list-style-type: none"> • MULTIFUNCTION (Constant, Divide, Multiply, PPM, Batch, Volt, mA, %, ml/q) • Set AUTOMATIC REPRIMING, with a flow sensor installed. • Set STROKES RECOVERY SYSTEM, with a flow sensor installed. • Set UPKEEP DOSING MODE in plant shutdown situation. • WORK-PAUSE MODE: cyclic dosing controlled by an external contact. |

| CAPACITIES | | | | | |
|--------------|-----------------------|--------------------------|---------------------|--------------|--------------------|
| Models | | | PVDF injection hose | Suction hose | Air supply fitting |
| 1050 | 50 l/h against 10 bar | 13.2 GPH against 145 PSI | 8 x 10 | 8 x 12 | 6 x 8 |
| 05140 | 140 l/h against 5 bar | 37 GPH against 72 PSI | 13 x 16 | 12 x 18 | 6 x 8 |
| 00220 | 220 l/h against 0 bar | 58.1 GPH against 0 PSI | 13 x 16 | 12 x 18 | 6 x 8 |

| POWER SUPPLY | |
|--------------|-------------------------|
| 00 | 230 VAC Schuko plug |
| 05 | 230 VAC australian plug |
| 01 | 230 VAC without plug |
| 03 | 115 VAC US plug |
| 04 | 24 VAC without plug |
| 05 | 12 VDC * |
| 07 | 24 VDC |

* On some models only.

Model A OA 1050 V 00 00

| LIQUID ENDS | | | | | | | | |
|-------------|---------|--------------|---------------|---------|-----------|----------|---------|----------------------|
| | HEAD | ORINGS | VALVE | | DIAPHRAGM | HOSES | | VISCOSITY Max CPS |
| | | | Body | Balls | | Delivery | Suction | |
| K | PVDF | FKM B | PVDF | Ceramic | PTFE | PVDF | PVC | 100 |
| P | PVDF | EPDM | PVDF | Ceramic | PTFE | PVDF | PVC | 100 |
| W | PVDF | Nytrile | PVDF | Ceramic | PTFE | PVDF | PVC | 100 |
| T | PVDF | FKM B + PTFE | PVDF | Ceramic | PTFE | PVDF | PVC | 100 |
| S | PVDF | Silicone | PVDF | Ceramic | PTFE | PVDF | PVC | 100 |
| A | Acrylic | FKM B | Polypropylene | Ceramic | PTFE | PVDF | PVC | 100 |
| Z | SS | FKM B | SS | SS | PTFE | N/A | N/A | 100 |

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| INFORMATION FOR AMS AC CO AND AMS AC CL MODELS | | | | | | | | | |
|--|--------------------|-----|---------------------------------|--------------------------------|--------------------------------|-------------------------------|-------------------|-----------------------|----------------|
| Models | Strokes per minute | | Stroke length range reliability | Power consumption at (230 VAC) | Power consumption at (115 VAC) | Power consumption at (24 VAC) | Weight | Air consumption l/min | Air supply bar |
| | min | max | | | | | | | |
| 1050 | 12 | 120 | from 30% to 100% | 1 Watt | 1 Watt | 1 Watt | 4,5 Kg (9.92 Lbs) | 20 | 7 |
| 05140 | 12 | 120 | | | | | | 30 | 7 |
| 00220 | 12 | 120 | | | | | | 30 | 7 |

| INFORMATION FOR AMS AC MF MODELS | | | | | | | | | |
|----------------------------------|--------------------|-----|---------------------------------|--------------------------------|--------------------------------|-------------------------------|-------------------|-----------------------|----------------|
| Models | Strokes per minute | | Stroke length range reliability | Power consumption at (230 VAC) | Power consumption at (115 VAC) | Power consumption at (24 VAC) | Weight | Air consumption l/min | Air supply bar |
| | min | max | | | | | | | |
| 1050 | 1 | 120 | from 30% to 100% | 7 Watt | 7 Watt | 7 Watt | 4,5 Kg (9.92 Lbs) | 30 | 7 |
| 05140 | 1 | 120 | | | | | | 30 | 7 |
| 00220 | 1 | 120 | | | | | | 30 | 7 |

| MORE INFORMATION ABOUT AMS AC CO AND AMS AC CL MODELS | | | | | | | | | |
|---|----------|---------|---------|---------|---------------|-------|----------------------------|------|-----------|
| Model | FLOW | | | | cc per STROKE | | Maximum injection pressure | | Pump Head |
| | min cc/h | max l/h | Min GPH | Max GPH | min | max | bar | PSI | |
| | | | | | | | bar | PSI | |
| 1050 | 1500 | 50 | 0,3963 | 13,21 | 2,08 | 6,94 | 10 | 145 | N |
| 05140 | 4200 | 140 | 1,11 | 36,97 | 5,83 | 19,44 | 5 | 72,5 | T |
| 00220 | 6600 | 220 | 1,74 | 58,1 | 9,2 | 30,56 | 0 | 0 | T |

| MORE INFORMATION ABOUT AMS AC MF MODELS | | | | | | | | | |
|---|----------|---------|---------|---------|---------------|-------|----------------------------|------|-----------|
| Model | FLOW | | | | cc per STROKE | | Maximum injection pressure | | Pump Head |
| | min cc/h | max l/h | Min GPH | Max GPH | min | max | bar | PSI | |
| | | | | | | | bar | PSI | |
| 1050 | 2,08 | 50 | 0,55 | 13,21 | 2,08 | 6,94 | 10 | 145 | N |
| 05140 | 5,83 | 140 | 1,54 | 36,97 | 5,83 | 19,44 | 5 | 72,5 | T |
| 00220 | 9,17 | 220 | 2,42 | 58,1 | 9,17 | 30,56 | 0 | 0 | T |

