

OEM



Description

The A300/VDC is an extremely versatile pump, driven by a brushed DC motor rated for continuous duty. Pump flow rates can be regulated by input voltage, or with our OEM controller, which provides 10:1 speed control, directional, and start/stop functions. Combined with the ability to accept multiple tube bore sizes, this pump has a broad range of flow rate capabilities.

A300 pumps are configurable to utilize 1.6mm (1/16") or high-performance 2.4mm (3/32") wall tubing giving them the ability to perform in a wide range of applications.

Features & Benefits

- Flow rates of 1400 to 5 mL/min
- Wide range of available motor speeds
- Accepts continuous tubing for clean fluid paths
- Heavy-duty steel rotor
- Friction-reducing Nylatron® rollers for longer tube life
- Optional mounting plate for ease of installation
- NSF/ANSI 29 rated models available
- Up to 25 psi working pressure
- Made in USA

| Specifications | |
|---------------------------|--|
| Pump Series | A300 |
| Tubing Wall Utilized | A301 — 1.6mm (1/16") A302 — 2.4mm (3/32") |
| Max. Tube Bore | A301 — 7.9mm (5/16") A302 — 6.4mm (1/4") |
| Motor Type | Brushed DC |
| Operating Voltage | 12V Motor — 4V to 15V 24V Motor — 8V to 30V |
| Max Current | 12V Motor — 3.0A 24V Motor — 1.5A |
| Duty Cycle | Continuous |
| Max. Outlet Pressure | 25 psi |
| Materials of Construction | |
| Pump Head | Polycarbonate |
| Roller Material | Nylatron |
| Rotor Material | CRS - Zinc plated |
| Ball Bearings | SS Shielded |

| Flow Rates by Motor & Tube Bore (mL/min) | | | | | | |
|--|--------|---------------|-----------------|--------------|---------------|--------------|
| Motor Options | | | Tube Bore | | | |
| 12V DC | 24V DC | Input Voltage | 7.9mm (5/16") * | 6.4mm (1/4") | 4.8mm (3/16") | 3.2mm (1/8") |
| D345A | D356B | Rated | 1457 | 1026 | 626 | 298 |
| | | 33% of Rated | 481 | 339 | 207 | 98 |
| D113A | D116B | Rated | 500 | 352 | 215 | 102 |
| | | 33% of Rated | 165 | 116 | 71 | 34 |
| D070A | D072B | Rated | 316 | 222 | 136 | 64 |
| | | 33% of Rated | 104 | 73 | 45 | 21 |
| D015A | D016B | Rated | 68 | 48 | 29 | 14 |
| | | 33% of Rated | 22 | 16 | 10 | 5 |

* Limited to tubing with 1.6mm wall thickness.

Minimum flow rates are approximately 10% of rated voltage flows when regulated with ANKO OEM Brushed Controller.

Flow rates are for guidance purposes only and are based upon pumping ambient temperature (22°C/72°F) water, using firm tubing, at zero pressure and lift. Rates may increase/decrease based upon numerous factors including motor variances, tubing characteristics, fluid viscosity, lift height, pressure and number of rollers. Anko reserves the right to make changes at any time without prior notice. The information provided is not intended for a specific application purpose.

Overall Dimensions

