


Count	Description
1	<p data-bbox="225 338 339 365">DDA 17-7</p> <div data-bbox="261 465 568 725">  </div> <p data-bbox="619 723 1070 745" style="text-align: center;">Product photo could vary from the actual product</p> <p data-bbox="225 757 624 808">Product No.: 97722620 DDA 17-7 FC-PV/V/C-F-31U7U7BG</p> <p data-bbox="225 844 1449 969">The SMART Digital DDA is a compact positive displacement, diaphragm dosing pump with variable-speed drive (stepper motor) and intelligent control electronics with minimum energy consumption. The SMART Digital Dosing series operates at full stroke length to ensure optimum accuracy, priming and suction, even for high-viscosity or degassing liquids. The duration of each discharge stroke varies according to the capacity set, resulting in optimum smooth and continuous discharge flow.</p> <p data-bbox="225 987 1430 1084">The click-stop mounting plate allows installation in three different positions without using any additional accessories. The control cube can be turned easily into front, left or right position. The click wheel and the multi-coloured backlit graphical, plain-text LC display make commissioning and operation intuitive. The control elements are protected by a transparent cover.</p> <p data-bbox="225 1128 1461 1301">The sensor-based FlowControl (FC) system detects malfunctions directly in the dosing head and displays them in plain text in the alarm menu, e.g. air bubbles, line burst, overpressure. The integrated flow measurement function (only FCM) measures the actual flow and makes additional monitoring and control equipment redundant (accuracy of $\pm 1,5\%$ of set value in case of trouble-free process). The measured flow is displayed and can be integrated in the process control, e.g. SCADA. Furthermore, the AutoFlowAdapt function (only FCM) automatically adjusts the pump speed according to the process conditions to maintain target flow even at e.g. varying backpressure or air bubbles foaming (degassing drive strategy).</p> <p data-bbox="225 1352 592 1379">The dosing head is composed of:</p> <ul data-bbox="261 1384 1066 1496" style="list-style-type: none"> - Long lifetime and universal, chemically resistant full-PTFE diaphragm. - Double ball valves for highest dosing accuracy. - Deaeration valve for easy start-up. - Pressure sensor. <p data-bbox="225 1532 424 1559">Operation modes:</p> <ul data-bbox="261 1563 943 1738" style="list-style-type: none"> - Manual dosing in ml/h, l/h or gph. - Pulse control in ml/pulse (incl. memory function). - Analog control 0/4-20 mA (scalable). - Pulse-based batch function in ml, l or gal. - Timer-based batch function (Dosing timer, cycle or week). - Fieldbus control (Genibus prepared for ProfibusDP E-box). <p data-bbox="225 1771 392 1798">Other features:</p> <ul data-bbox="261 1803 1414 2033" style="list-style-type: none"> - Auto deaeration during pump standby to avoid breakdowns due to air-locking. - Two SlowMode steps (anti-cavitation), 50 % (maximum flow: 2.245 US gal/hour) and 25 % (maximum flow: 1.123 US gal/hour), e.g. for high-viscosity or degassing liquids. - Service information display to show when service and which wear-part order number is required. - Two-step key lock function to protect the pump against unauthorised access. - Additional display function to provide further information, e.g. the actual mA input signal. - Counter for total dosed volume (resettable), operating hours, etc. - Save and load customised settings as well as reload of factory settings. <p data-bbox="225 2067 464 2094">Signal inputs/outputs:</p>

Count	Description
	<ul style="list-style-type: none"> - Input for pulse, analog 0/4-20mA, external stop. - Input for low-level and empty-tank signal. - Two potential-free output relays for max. 30 V AC/DC (configurable, e.g. alarm, stroke signal, pump dosing, timer etc.) - Output analog 0/4-20mA. - Fieldbus communication interface (GeniBus, also for additional Profibus DP E-box to retrofit). <p>Technical:</p> <p>Type key: DDA 17-7 FC-PV/V/C-F-31U7U7BG</p> <p>Max. Flow: 4.491 US gal/hour</p> <p>Max. flow in slow mode 50%: 2.245 US gal/hour</p> <p>Max. flow in slow mode 25%: 1.123 US gal/hour</p> <p>Min flow: 17.0 ml/h</p> <p>Turn-down ratio: 1:1000</p> <p>Approvals on nameplate: CE,CSA-US,NSF61,RCM</p> <p>Valve type: Standard</p> <p>Maximum viscosity at 100 %: 300 mPas</p> <p>Maximum viscosity in slow mode 50 %: 1300 mPas</p> <p>Maximum viscosity in slow mode 25 %: 2000 mPas</p> <p>Accuracy of repeatability: 1 %</p> <p>Materials:</p> <p>Dosing head: PVDF (Polyvinylidene fluoride)</p> <p>Valve ball: Ceramic</p> <p>Gasket: FKM</p> <p>Installation:</p> <p>Range of ambient temperature: 32 .. 113 °F</p> <p>Maximum operating pressure: 101.53 psi</p> <p>Installation set: NO</p> <p>Installation type: No installation set</p> <p>Pump inlet: 0.17x 1/4, 1/4x3/8, 3/8x1/2"</p> <p>Pump outlet: 0.17x 1/4, 1/4x3/8, 3/8x1/2"</p> <p>Max. Suction lift during operation: 19.7 ft</p> <p>Max. Suction lift during priming: 9.84 ft</p> <p>Liquid:</p> <p>Pumped liquid: Water</p> <p>Liquid temperature range: 14 .. 113 °F</p> <p>Selected liquid temperature: 68 °F</p> <p>Density: 62.29 lb/ft³</p> <p>Electrical data:</p> <p>Maximum power input - P1: 24 W</p> <p>Main frequency: 60 Hz</p> <p>Rated voltage: 1 x 100-240 V</p> <p>Enclosure class (IEC 34-5): IP65 / NEMA 4X</p> <p>Length of cable: 4.92 ft</p> <p>Type of cable plug: USA, Canada</p> <p>Inrush current: 25A at 230V for 2ms</p> <p>Controls:</p> <p>Control variant: FC</p> <p>Level control: YES</p> <p>Analog input: 0/4-20 mA</p> <p>Pulse control: YES</p> <p>Ext. Stop input: YES</p> <p>Analog output: 0/4-20 mA</p> <p>Output relays: 2</p>



Company name:

Created by:

Phone:

Date:

6/19/2019

Count	Description
	<p data-bbox="225 338 639 369">Bus communication: YES</p> <p data-bbox="225 400 316 430">Others:</p> <p data-bbox="225 430 663 461">Net weight: 6.62 lb</p> <p data-bbox="225 461 663 492">Gross weight: 8.82 lb</p> <p data-bbox="225 492 639 524">COLOR: RED</p> <p data-bbox="225 524 743 555">Custom tariff no.: 8413.50.0050</p>