


Count	Description
1	<p data-bbox="225 338 352 367"><b>DDE 120-7</b></p> <div data-bbox="308 427 523 689">  </div> <p data-bbox="619 723 1070 748" style="text-align: center;"><b>Product photo could vary from the actual product</b></p> <p data-bbox="225 757 635 813">Product No.: <a href="#">99159437</a> DDE 120-7 AR-PV/V/C-F-31A7A7BG</p> <p data-bbox="225 844 1449 969">The SMART Digital DDE is a compact positive displacement, diaphragm dosing pump with variable-speed drive (PMS 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 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="225 985 1449 1064">The mounting plate allows quick installation and service. The control cube can be turned easily into front, left or right position. The dosing flow can be adjusted by means of an adjustment knob on a logarithmical scale from 0.1-100%. The control elements are protected by a transparent cover.</p> <p data-bbox="225 1102 592 1131">The dosing head is composed of:</p> <ul data-bbox="264 1133 1145 1216" style="list-style-type: none"> <li>- Long lifetime and universal, chemically resistant full double PTFE diaphragm.</li> <li>- Ball valves for highest dosing accuracy.</li> <li>- Deaeration valve for easy startup.</li> </ul> <p data-bbox="225 1249 424 1279">Operating modes:</p> <ul data-bbox="264 1281 839 1364" style="list-style-type: none"> <li>- Manual dosing from 0.1 to 100%.</li> <li>- Pulse control (divisor function included).</li> <li>- Analog 4-20 mA control (scalable maximum flow)</li> </ul> <p data-bbox="225 1397 392 1426">Other features:</p> <ul data-bbox="264 1429 999 1512" style="list-style-type: none"> <li>- 100 % key (maximum capacity), e.g. for deaeration.</li> <li>- Operation mode switch key between manual, pulse and analog.</li> <li>- Status LEDs for pulse, analog and manual.</li> </ul> <p data-bbox="225 1545 472 1574">Signal- Inputs/outputs:</p> <ul data-bbox="264 1576 1449 1686" style="list-style-type: none"> <li>- Input for pulse, external stop, analog 4-20 mA.</li> <li>- Input for empty tank signal.</li> <li>- Two potential-free output relays for maximum 30 V AC/DC (configurable, e.g. alarm, low level, full stroke signal and pulse)</li> </ul> <p data-bbox="225 1753 336 1783"><b>Controls:</b></p> <p data-bbox="225 1785 627 1841">Control variant: AR Ext. Stop input: NO</p> <p data-bbox="225 1874 312 1904"><b>Liquid:</b></p> <p data-bbox="225 1906 719 2016">Pumped liquid: Water Liquid temperature range: 32 .. 122 °F Liquid temperature during operation: 68 °F Density: 62.29 lb/ft³</p> <p data-bbox="225 2049 347 2078"><b>Technical:</b></p> <p data-bbox="225 2080 999 2110">Type key: DDE 120-7 AR-PV/V/C-F-31A7A7BG</p>



Company name:

Created by:

Phone:

Date:

1/17/2019

Count	Description
	Max. Flow: 31.7 US gal/hour Min flow: 150 ml/h Turn-down ratio: 1:800 Approvals on nameplate: CE,CSA-US,NSF61,RCM Valve type: Standard Maximum viscosity at 100 %: 100 mPas Maximum viscosity in slow mode 50 %: N/A mPas Maximum viscosity in slow mode 25 %: N/A mPas Accuracy of repeatability: 5 %
	<b>Materials:</b> Dosing head: PVDF (Polyvinylidene fluoride) Valve ball: Ceramic Gasket: FKM
	<b>Installation:</b> Range of ambient temperature: 32 .. 113 °F Maximum operating pressure: 102 psi Installation set: NO Installation type: No installation set Pump inlet: Conn. Threaded 3/4#NPTM CodeA7 Pump outlet: Conn. Threaded 3/4#NPTM CodeA7 Max. Suction lift during operation: 9.843 ft Max. Suction lift during priming: 4.922 ft
	<b>Electrical data:</b> Maximum power input - P1: 62 W Main frequency: 60 Hz Rated voltage: 1 x 100-240 V Enclosure class (IEC 34-5): IP65 / NEMA 4X Length of cable: 4.922 ft Type of cable plug: USA, Canada Inrush current: 70A at 240V (35A/100V) for 2ms
	<b>Others:</b> Net weight: 15.4 lb Gross weight: 17.6 lb COLOR: RED



Company name:

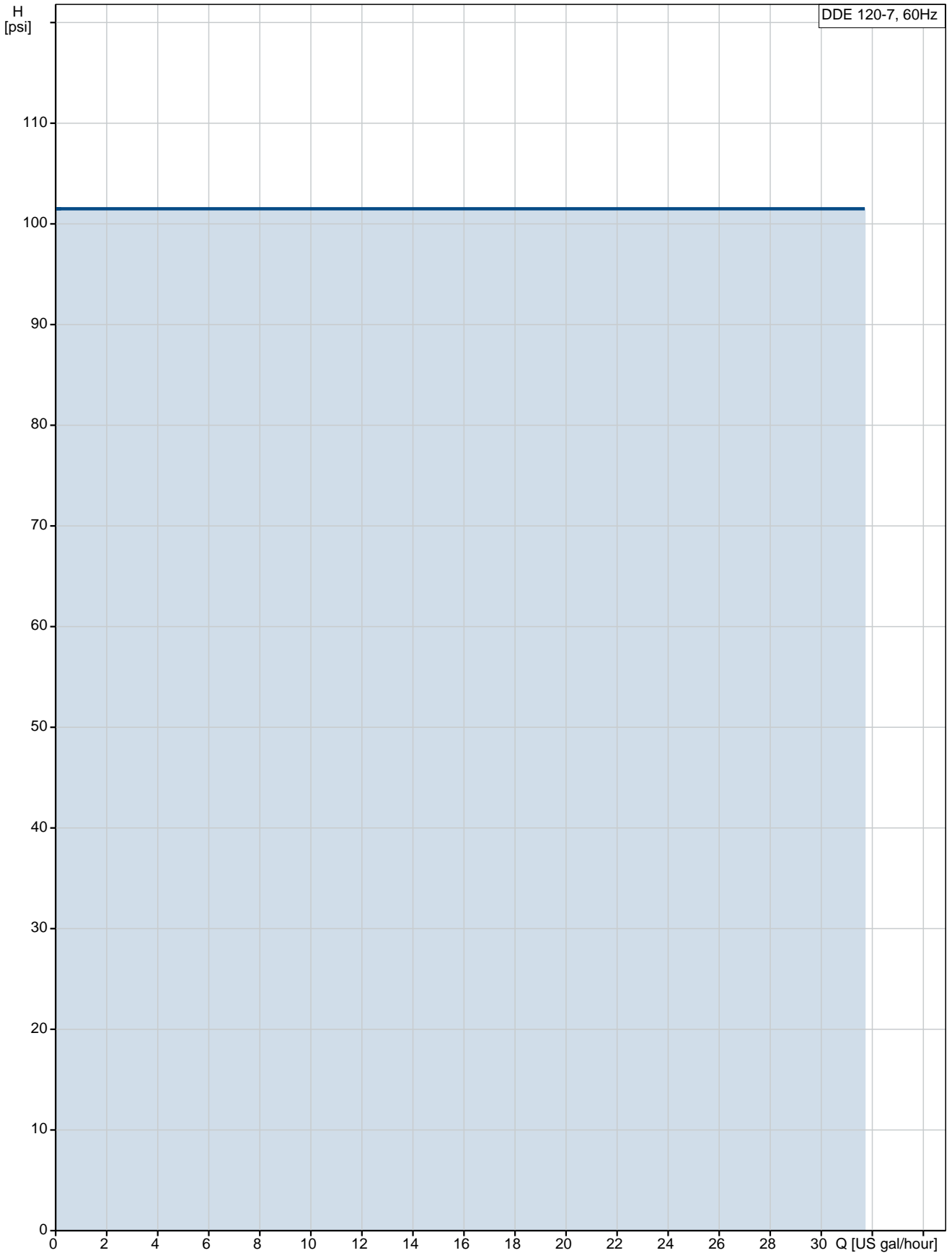
Created by:

Phone:

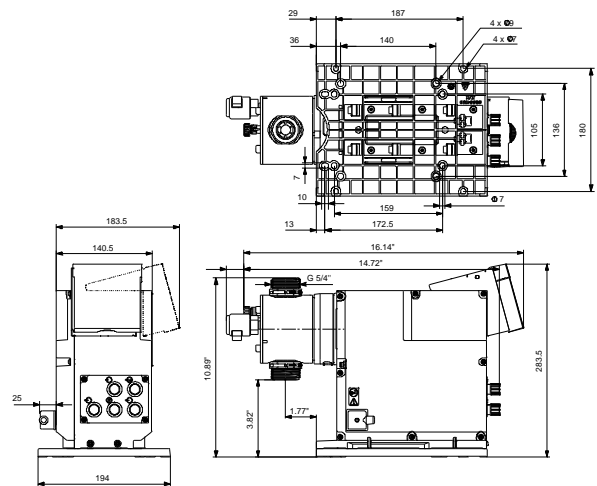
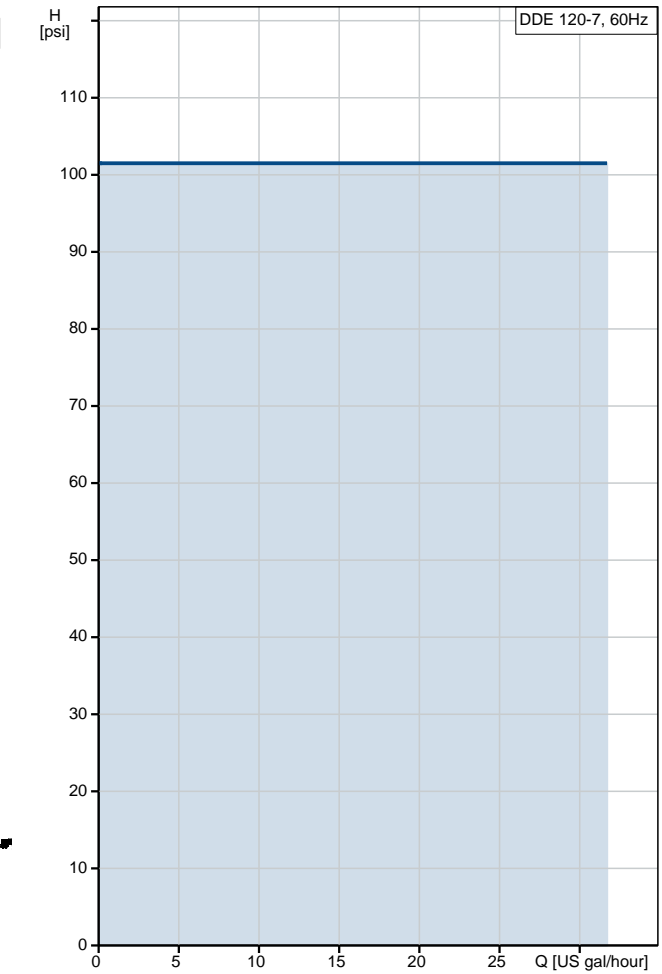
Date:

1/17/2019

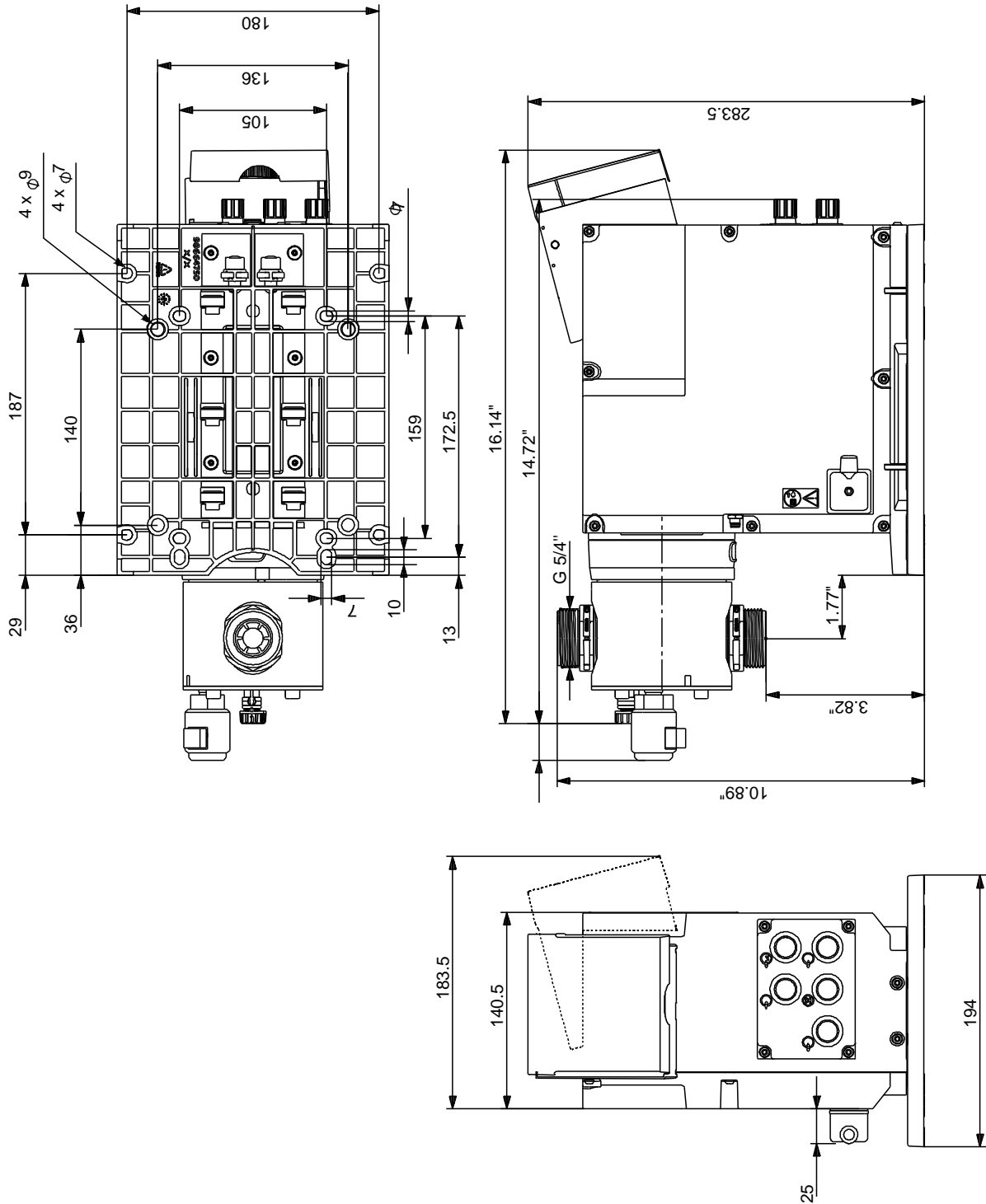
## 99159437 DDE 120-7 60 Hz



Description	Value
<b>General information:</b>	
Product name:	DDE 120-7
Product No.:	99159437
EAN:	5712607842253
<b>Technical:</b>	
Type key:	DDE 120-7 AR-PV/V/C-F-31A7A7BG
Max. Flow:	31.7 US gal/hour
Min flow:	150 ml/h
Turn-down ratio:	1:800
Approvals on nameplate:	CE,CSA-US,NSF61,RCM
Valve type:	Standard
Maximum viscosity at 100 %:	100 mPas
Maximum viscosity in slow mode 50 %:	N/A mPas
Maximum viscosity in slow mode 25 %:	N/A mPas
Accuracy of repeatability:	5 %
<b>Materials:</b>	
Dosing head:	PVDF (Polyvinylidene fluoride)
Valve ball:	Ceramic
Gasket:	FKM
<b>Installation:</b>	
Range of ambient temperature:	32 .. 113 °F
Maximum operating pressure:	102 psi
Installation set:	NO
Installation type:	No installation set
Pump inlet:	Conn. Threaded 3/4#NPTM CodeA7
Pump outlet:	Conn. Threaded 3/4#NPTM CodeA7
Max. Suction lift during operation:	9.843 ft
Max. Suction lift during priming:	4.922 ft
<b>Liquid:</b>	
Pumped liquid:	Water
Liquid temperature range:	32 .. 122 °F
Liquid temperature during operation:	68 °F
Density:	62.29 lb/ft <sup>3</sup>
<b>Electrical data:</b>	
Maximum power input - P1:	62 W
Main frequency:	60 Hz
Rated voltage:	1 x 100-240 V
Enclosure class (IEC 34-5):	IP65 / NEMA 4X
Length of cable:	4.922 ft
Type of cable plug:	USA, Canada
Inrush current:	70A at 240V (35A/100V) for 2ms
<b>Controls:</b>	
Control variant:	AR
Control panel:	FRONT-MOUNTED
Ext. Stop input:	NO
<b>Others:</b>	
Net weight:	15.4 lb
Gross weight:	17.6 lb
COLOR:	RED



## 99159437 DDE 120-7 60 Hz



Note! All units are in [mm] unless otherwise stated.  
Disclaimer: This simplified dimensional drawing does not show all details.