


Count	Description
1	<p data-bbox="225 338 352 367"><b>DDA 200-4</b></p> <div data-bbox="311 432 518 689">  </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="225 757 632 813">Product No.: <a href="#">99159487</a> DDA 200-4 AR-SS/V/SS-F-31A3A3B</p> <p data-bbox="225 844 1449 969">The SMART Digital DDA 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 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="225 985 1449 1061">The mounting plate allows quick installation and service. 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 1102 592 1126">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 1274">Operating modes:</p> <ul data-bbox="264 1281 1098 1453" style="list-style-type: none"> <li>- Manual dosing in ml/h, l/h or gph.</li> <li>- Pulse control in ml/pulse (incl. memory function).</li> <li>- Analog control 0/4-20 mA (scalable).</li> <li>- Pulse-based batch function in ml, l or gal.</li> <li>- Timer-based batch function (Dosing timer, cycle or week).</li> <li>- Fieldbus control (GENIbus prepared for Grundfos CIU fieldbus modules).</li> </ul> <p data-bbox="225 1487 392 1512">Other features:</p> <ul data-bbox="264 1518 1414 1751" style="list-style-type: none"> <li>- Auto deaeration during pump standby to avoid breakdowns due to air-locking.</li> <li>- Two SlowMode steps (anti-cavitation), 50 % (maximum flow: 26.42 US gal/hour) and 25 % (maximum flow: 13.21 US gal/hour), e.g. for high-viscosity or degassing liquids.</li> <li>- Service information display to show when service and which wear-part order number is required.</li> <li>- Two-step key lock function to protect the pump against unauthorised access.</li> <li>- Additional display function to provide further information, e.g. the actual mA input signal.</li> <li>- Counter for total dosed volume (resettable), operating hours, etc.</li> <li>- Save and load customised settings as well as reload of factory settings.</li> </ul> <p data-bbox="225 1785 464 1809">Signal inputs/outputs:</p> <ul data-bbox="264 1816 1445 1989" style="list-style-type: none"> <li>- Input for pulse, analog 0/4-20mA and external stop.</li> <li>- Input for low-level and empty-tank signal.</li> <li>- Two potential-free output relays for maximum 30 V AC/DC (configurable, e.g. alarm, stroke signal, pump dosing, timer etc.)</li> <li>- Output analog 0/4-20mA.</li> <li>- Fieldbus communication interface (GENIbus, for connection of the Grundfos CIU fieldbus converter).</li> </ul> <p data-bbox="225 2047 336 2072"><b>Controls:</b></p> <p data-bbox="225 2078 624 2103">Control variant: AR</p>

Count	Description
	<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> <p>Bus communication: YES</p> <p><b>Liquid:</b></p> <p>Pumped liquid: Water</p> <p>Liquid temperature range: 32 .. 122 °F</p> <p>Liquid temperature during operation: 68 °F</p> <p>Density: 62.29 lb/ft<sup>3</sup></p> <p><b>Technical:</b></p> <p>Type key: DDA 200-4 AR-SS/V/SS-F-31A3A3B</p> <p>Max. Flow: 52.83 US gal/hour</p> <p>Max. flow in slow mode 50%: 26.42 US gal/hour</p> <p>Max. flow in slow mode 25%: 13.21 US gal/hour</p> <p>Min flow: 250 ml/h</p> <p>Turn-down ratio: 1:800</p> <p>Approvals on nameplate: CE,CSA-US,NSF61,RCM</p> <p>Valve type: Standard</p> <p>Maximum viscosity at 100 %: 100 mPas</p> <p>Maximum viscosity in slow mode 50 %: 1000 mPas</p> <p>Maximum viscosity in slow mode 25 %: 2000 mPas</p> <p>Accuracy of repeatability: 1 %</p> <p><b>Materials:</b></p> <p>Dosing head: Stainless Steel 1.4435</p> <p>Valve ball: Stainless steel</p> <p>Gasket: FKM</p> <p><b>Installation:</b></p> <p>Range of ambient temperature: 32 .. 113 °F</p> <p>Maximum operating pressure: 58 psi</p> <p>Installation set: NO</p> <p>Installation type: No installation set</p> <p>Pump inlet: Conn. threaded 3/4#NPTF CodeA3</p> <p>Pump outlet: Conn. threaded 3/4#NPTF CodeA3</p> <p>Max. Suction lift during operation: 9.843 ft</p> <p>Max. Suction lift during priming: 4.922 ft</p> <p><b>Electrical data:</b></p> <p>Maximum power input - P1: 62 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: 4.922 ft</p> <p>Type of cable plug: USA, Canada</p> <p>Inrush current: 70A at 240V (35A/100V) for 2ms</p> <p><b>Others:</b></p> <p>Net weight: 17.6 lb</p> <p>Gross weight: 19.8 lb</p> <p>COLOR: RED</p>



Company name:

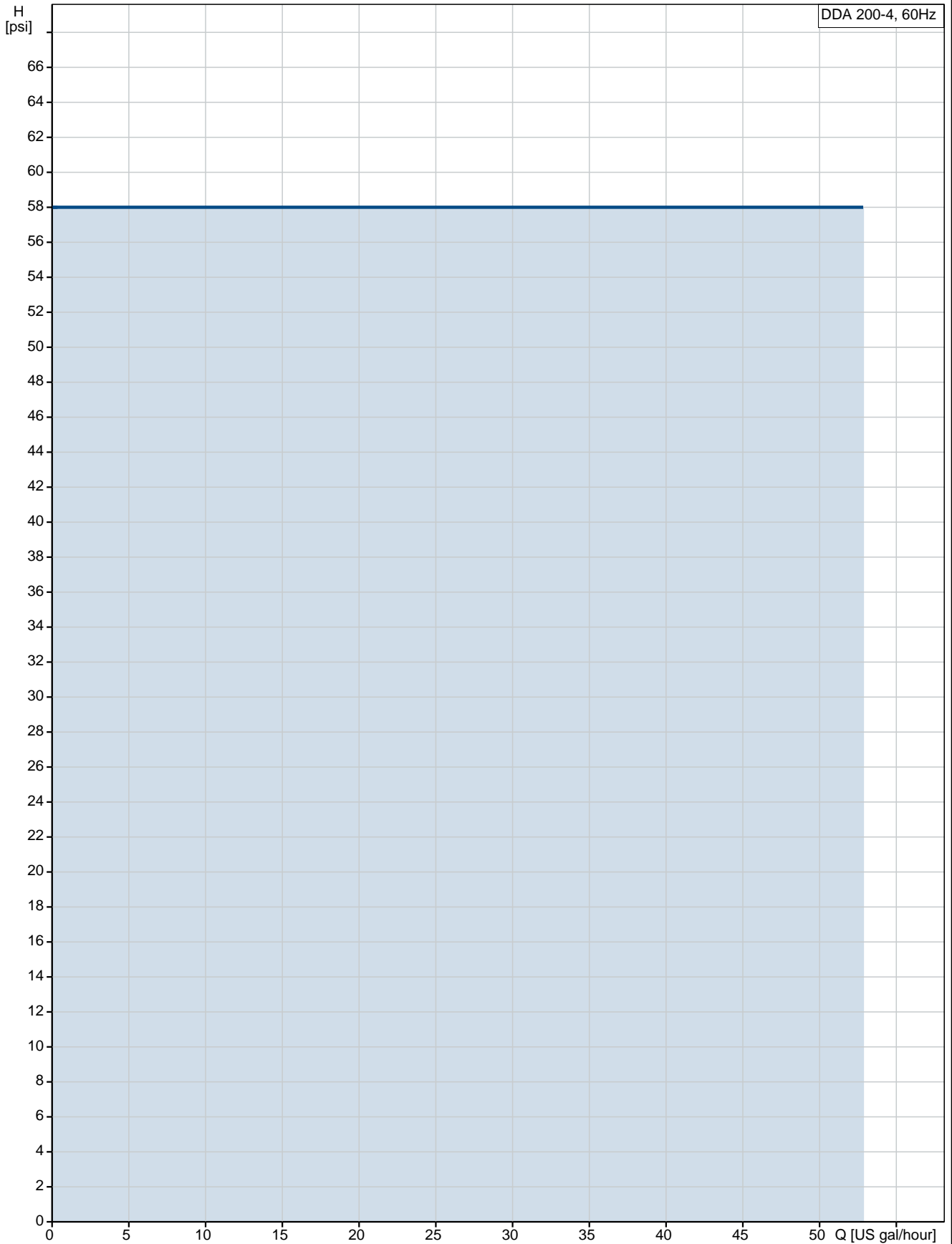
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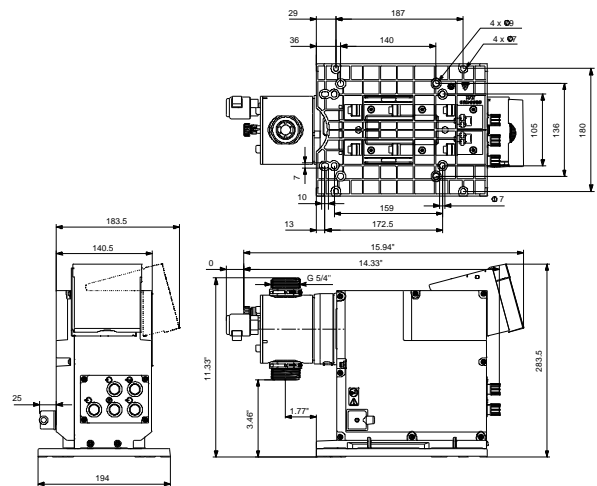
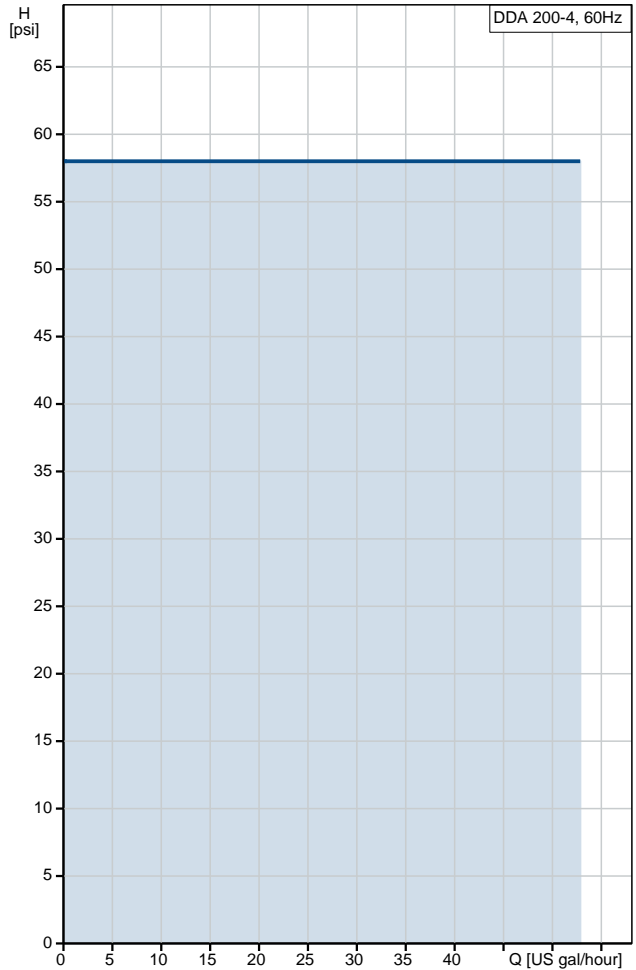
Date:

12/13/2018

# 99159487 DDA 200-4 60 Hz



Description	Value
<b>General information:</b>	
Product name:	DDA 200-4
Product No.:	99159487
EAN:	5712607842758
<b>Technical:</b>	
Type key:	DDA 200-4 AR-SS/V/SS-F-31A3A3B
Max. Flow:	52.83 US gal/hour
Max. flow in slow mode 50%:	26.42 US gal/hour
Max. flow in slow mode 25%:	13.21 US gal/hour
Min flow:	250 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 %:	1000 mPas
Maximum viscosity in slow mode 25 %:	2000 mPas
Accuracy of repeatability:	1 %
<b>Materials:</b>	
Dosing head:	Stainless Steel 1.4435
Valve ball:	Stainless steel
Gasket:	FKM
<b>Installation:</b>	
Range of ambient temperature:	32 .. 113 °F
Maximum operating pressure:	58 psi
Installation set:	NO
Installation type:	No installation set
Pump inlet:	Conn. threaded 3/4#NPTF CodeA3
Pump outlet:	Conn. threaded 3/4#NPTF CodeA3
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
Level control:	YES
Analog input:	0/4-20 mA
Pulse control:	YES
Ext. Stop input:	YES
Analog output:	0/4-20 mA
Output relays:	2
Bus communication:	YES
<b>Others:</b>	
Net weight:	17.6 lb





Company name:

Created by:

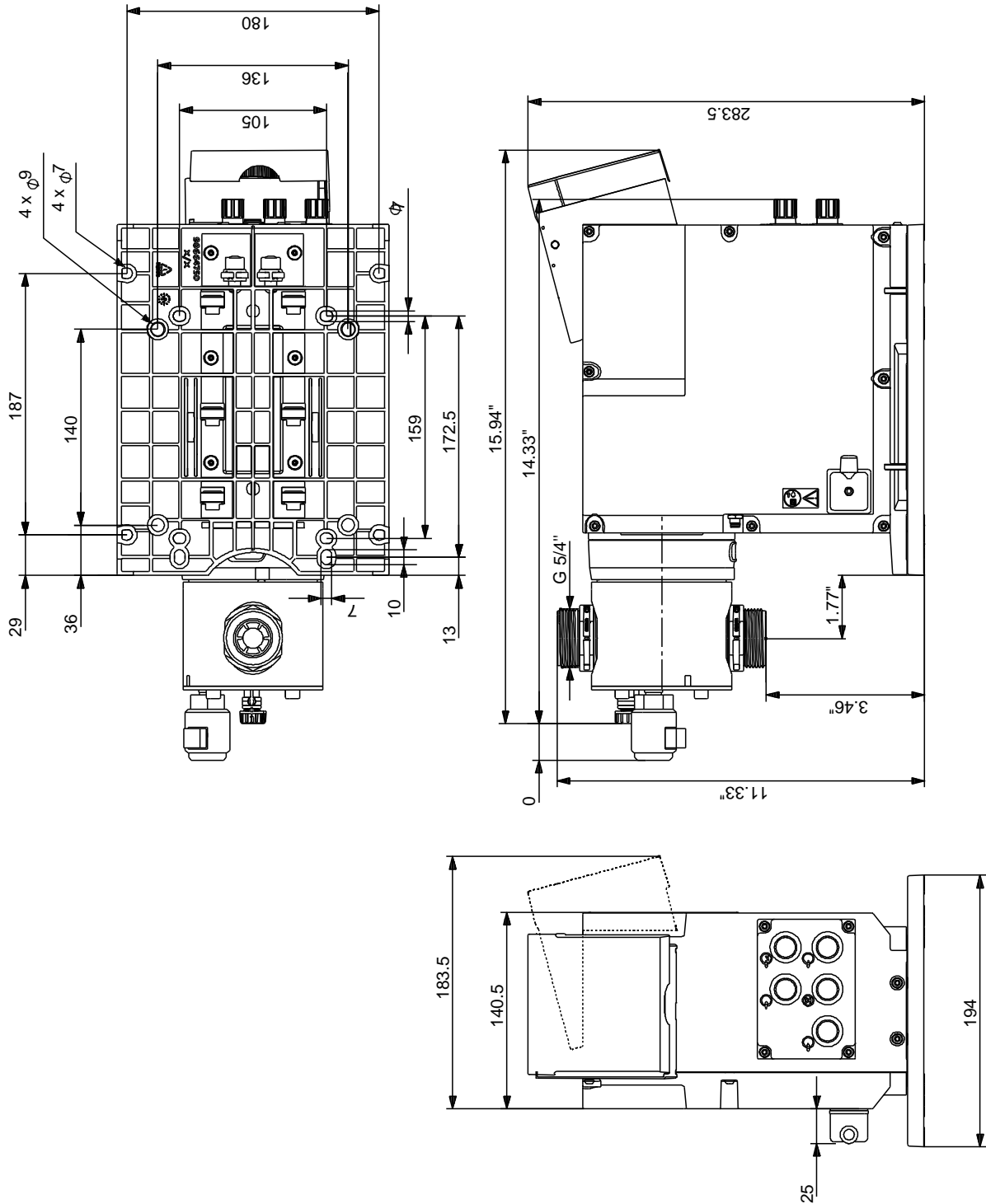
Phone:

Date:

12/13/2018

Description	Value
Gross weight:	19.8 lb
COLOR:	RED

## 99159487 DDA 200-4 60 Hz



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