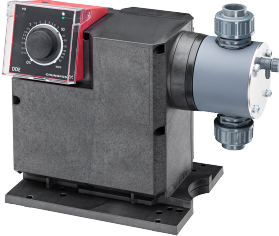


| Count | Description | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|--|------------------|---|------------------|----|----------------|-------|---------------------------|--------------|--------------------------------------|-------|----------|--------------|-----------|--------------------------------|------------|------------------|-----------|----------|------------------|-------|-------------------------|---------------------|-------------|----------|-----------------------------|----------|--------------------------------------|----------|--------------------------------------|----------|----------------------------|-----|--------------|------------------------|-------------|-----------------|
| 1 | <p data-bbox="225 338 352 367">DDE 120-7</p> <div data-bbox="276 443 555 678">  </div> <p data-bbox="619 723 1070 748" style="text-align: center;">Product photo could vary from the actual product</p> <p data-bbox="225 757 635 813">Product No.: 99159431 DDE 120-7 B-SS/V/SS-F-31A3A3BG</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"> - Long lifetime and universal, chemically resistant full double PTFE diaphragm. - Ball valves for highest dosing accuracy. - Deaeration valve for easy startup. <p data-bbox="225 1249 424 1279">Operating modes:</p> <ul data-bbox="264 1281 667 1310" style="list-style-type: none"> - Manual dosing from 0.1 to 100%. <p data-bbox="225 1368 336 1397">Controls:</p> <table data-bbox="225 1400 628 1456" style="width: 100%;"> <tr> <td>Control variant:</td> <td>B</td> </tr> <tr> <td>Ext. Stop input:</td> <td>NO</td> </tr> </table> <p data-bbox="225 1489 312 1518">Liquid:</p> <table data-bbox="225 1520 719 1635" style="width: 100%;"> <tr> <td>Pumped liquid:</td> <td>Water</td> </tr> <tr> <td>Liquid temperature range:</td> <td>32 .. 122 °F</td> </tr> <tr> <td>Liquid temperature during operation:</td> <td>68 °F</td> </tr> <tr> <td>Density:</td> <td>62.29 lb/ft³</td> </tr> </table> <p data-bbox="225 1668 352 1697">Technical:</p> <table data-bbox="225 1700 995 1993" style="width: 100%;"> <tr> <td>Type key:</td> <td>DDE 120-7 B-SS/V/SS-F-31A3A3BG</td> </tr> <tr> <td>Max. Flow:</td> <td>31.7 US gal/hour</td> </tr> <tr> <td>Min flow:</td> <td>150 ml/h</td> </tr> <tr> <td>Turn-down ratio:</td> <td>1:800</td> </tr> <tr> <td>Approvals on nameplate:</td> <td>CE,CSA-US,NSF61,RCM</td> </tr> <tr> <td>Valve type:</td> <td>Standard</td> </tr> <tr> <td>Maximum viscosity at 100 %:</td> <td>100 mPas</td> </tr> <tr> <td>Maximum viscosity in slow mode 50 %:</td> <td>N/A mPas</td> </tr> <tr> <td>Maximum viscosity in slow mode 25 %:</td> <td>N/A mPas</td> </tr> <tr> <td>Accuracy of repeatability:</td> <td>5 %</td> </tr> </table> <p data-bbox="225 2027 344 2056">Materials:</p> <table data-bbox="225 2058 836 2107" style="width: 100%;"> <tr> <td>Dosing head:</td> <td>Stainless Steel 1.4435</td> </tr> <tr> <td>Valve ball:</td> <td>Stainless steel</td> </tr> </table> | Control variant: | B | Ext. Stop input: | NO | Pumped liquid: | Water | Liquid temperature range: | 32 .. 122 °F | Liquid temperature during operation: | 68 °F | Density: | 62.29 lb/ft³ | Type key: | DDE 120-7 B-SS/V/SS-F-31A3A3BG | 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 % | Dosing head: | Stainless Steel 1.4435 | Valve ball: | Stainless steel |
| Control variant: | B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ext. Stop input: | NO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pumped liquid: | Water | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Liquid temperature range: | 32 .. 122 °F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Liquid temperature during operation: | 68 °F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Density: | 62.29 lb/ft³ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Type key: | DDE 120-7 B-SS/V/SS-F-31A3A3BG | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dosing head: | Stainless Steel 1.4435 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Valve ball: | Stainless steel | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



Company name:

Created by:

Phone:

Date:

1/17/2019

| Count | Description |
|-------|--|
| | Gasket: FKM |
| | Installation: |
| | 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#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 |
| | Electrical data: |
| | 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 |
| | Others: |
| | Net weight: 15.4 lb |
| | Gross weight: 17.6 lb |
| | COLOR: RED |



Company name:

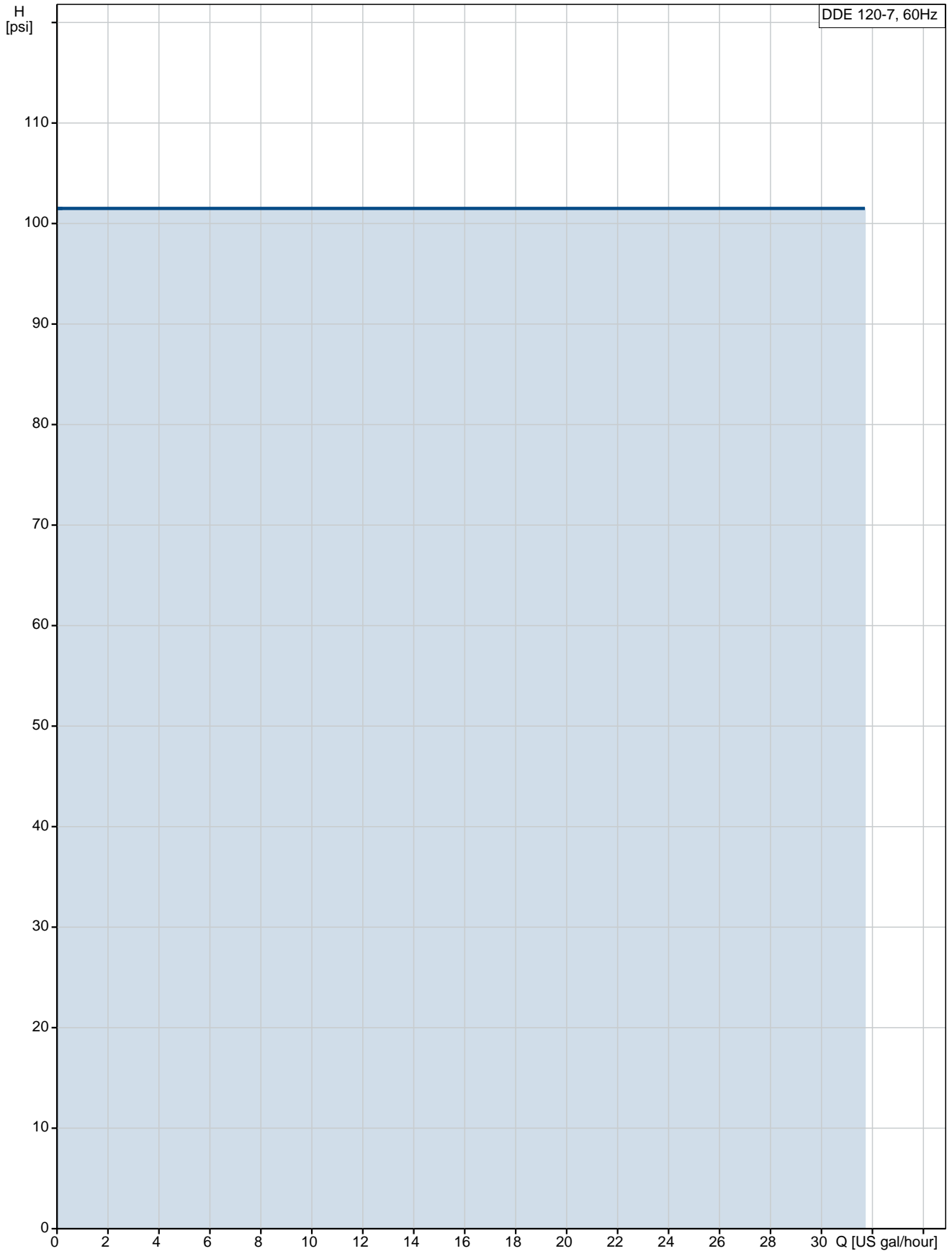
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Phone:

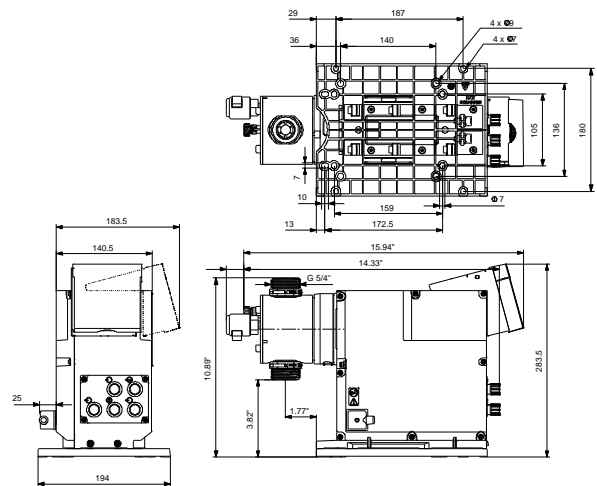
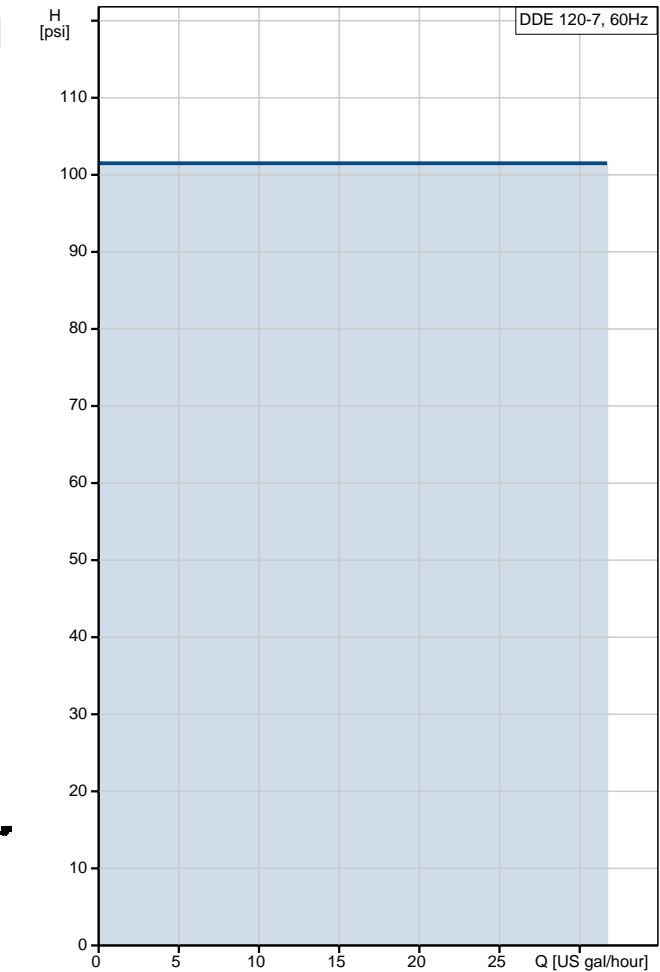
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1/17/2019

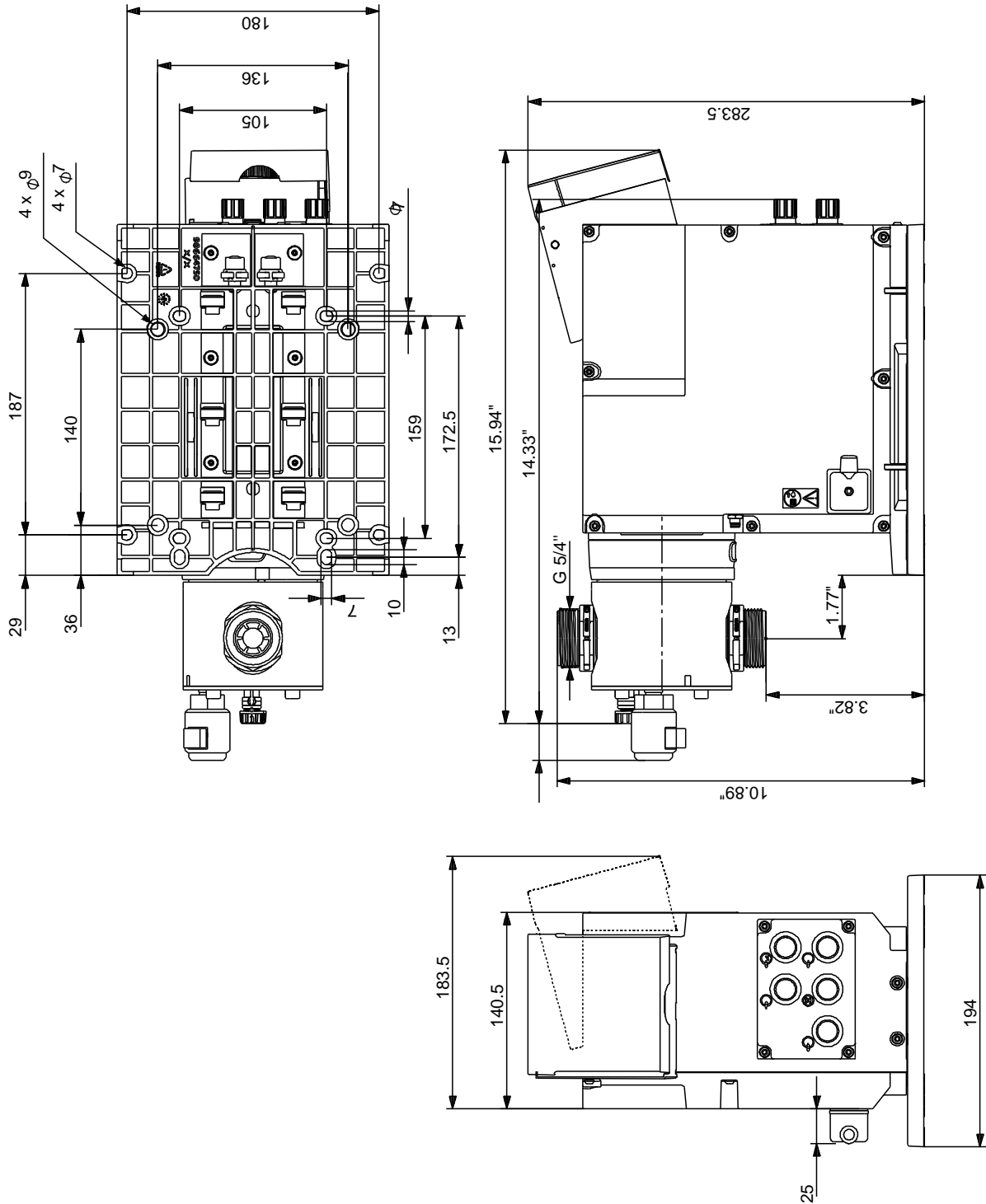
99159431 DDE 120-7 60 Hz



| Description | Value |
|--------------------------------------|-----------------------------------|
| General information: | |
| Product name: | DDE 120-7 |
| Product No.: | 99159431 |
| EAN: | 5712607842192 |
| Technical: | |
| Type key: | DDE 120-7 B-SS/V/SS-F-31A3A3BG |
| 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 % |
| Materials: | |
| Dosing head: | Stainless Steel 1.4435 |
| Valve ball: | Stainless steel |
| Gasket: | FKM |
| Installation: | |
| 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#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 |
| Liquid: | |
| Pumped liquid: | Water |
| Liquid temperature range: | 32 .. 122 °F |
| Liquid temperature during operation: | 68 °F |
| Density: | 62.29 lb/ft ³ |
| Electrical data: | |
| 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 |
| Controls: | |
| Control variant: | B |
| Control panel: | FRONT-MOUNTED |
| Ext. Stop input: | NO |
| Others: | |
| Net weight: | 15.4 lb |
| Gross weight: | 17.6 lb |
| COLOR: | RED |



99159431 DDE 120-7 60 Hz



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