



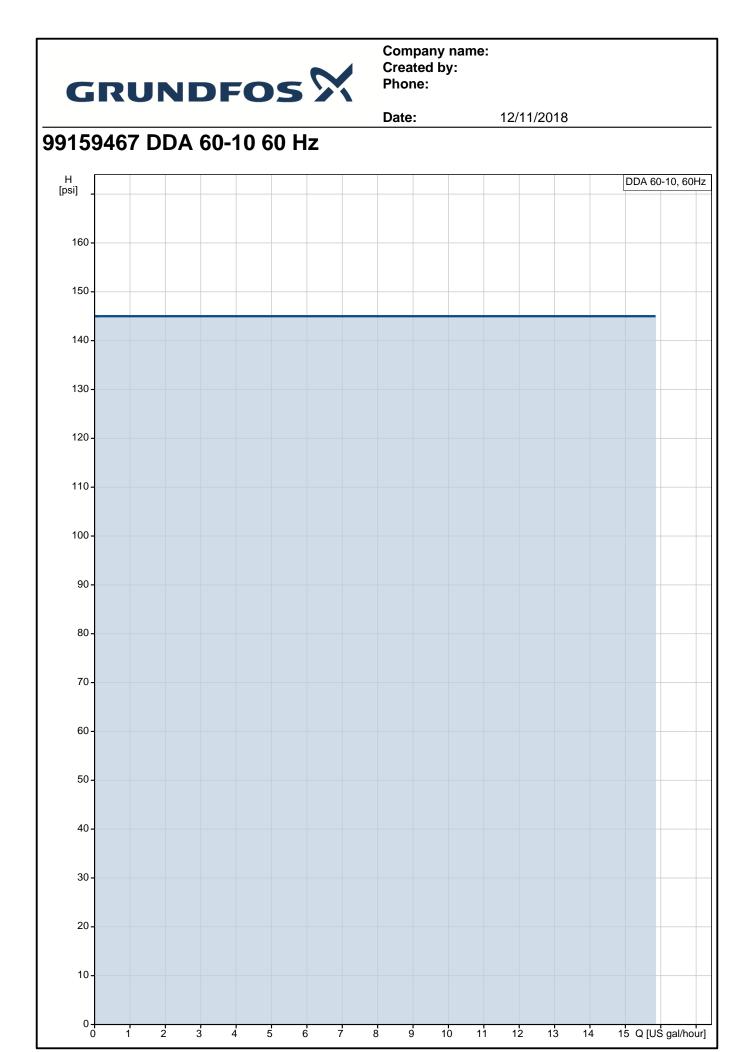
Company name: Created by: Phone:

|   |  |                          | Date:  | 12/11/2018 |  |  |  |
|---|--|--------------------------|--|------------|--|--|--|
| : | Description  |                          |  |            |  |  |  |
|   | - Input for low-level and empty-tank signal.   |                          |  |            |  |  |  |
|   | - Two potential-free output relays for maximum 30 V AC/DC (configurable, e.g. alarm, stroke signal, pump |                          |  |            |  |  |  |
|   | dosing, timer etc.)  |                          |  |            |  |  |  |
|   | - Output analog 0/4-20mA.  |                          |  |            |  |  |  |
|   | - Fieldbus communication interface (GENIbus, for connecetion of the Grundfos CIU fieldbus converter).    |                          |  |            |  |  |  |
|   |  |                          |  |            |  |  |  |
|   | Controlog  |                          |  |            |  |  |  |
|   | Controls:<br>Control variant:  | FCM                      |  |            |  |  |  |
|   | Level control:   | YES                      |  |            |  |  |  |
|   |  | 0/4-20 mA                |  |            |  |  |  |
|   | Analog input:<br>Pulse control:  | YES                      |  |            |  |  |  |
|   |  | YES                      |  |            |  |  |  |
|   | Ext. Stop input:   |                          |  |            |  |  |  |
|   | Analog output:   | 0/4-20 mA                |  |            |  |  |  |
|   | Output relays:   | 2                        |  |            |  |  |  |
|   | Bus communication:   | YES                      |  |            |  |  |  |
|   | Liquid:  |                          |  |            |  |  |  |
| l | Pumped liquid:   | Water                    |  |            |  |  |  |
|   |  | 32 122 °F                |  |            |  |  |  |
|   | Liquid temperature range:  |                          |  |            |  |  |  |
|   | Liquid temperature during opera  |                          |  |            |  |  |  |
|   | Density:   | 62.29 lb/ft <sup>3</sup> |  |            |  |  |  |
| l | Technical:   |                          |  |            |  |  |  |
|   | Type key:  | DDA 60-10 FCN            | 1-SS/T/SS-F-31   | A3A3       |  |  |  |
|   | Max. Flow:   | 15.85 US gal/ho          |  |            |  |  |  |
|   | Max. flow in slow mode 50%:  | 7.925 US gal/hc          |  |            |  |  |  |
|   | Max. flow in slow mode 25%:  | 3.963 US gal/hc          |  |            |  |  |  |
|   | Min flow:  | 75 ml/h                  |  |            |  |  |  |
|   | Turn-down ratio:   | 1:800                    |  |            |  |  |  |
|   |  |                          |  |            |  |  |  |
|   | Approvals on nameplate:  | CE,CSA-US,NS<br>Standard |  |            |  |  |  |
|   | Valve type:  |                          |  |            |  |  |  |
|   | Maximum viscosity at 100 %:  | 100 mPas                 | Dee  |            |  |  |  |
|   | Maximum viscosity in slow mode   |                          |  |            |  |  |  |
| l | Maximum viscosity in slow mode   |                          | Pas  |            |  |  |  |
|   | Accuracy of repeatability:   | 1 %                      |  |            |  |  |  |
|   | Materials:   |                          |  |            |  |  |  |
|   | Dosing head:   | Stainless Steel          | 1 4435   |            |  |  |  |
|   | Valve ball:  | Stainless Steel          | 1.7700   |            |  |  |  |
| ĺ | Gasket:  | PTFE                     |  |            |  |  |  |
|   |  |                          |  |            |  |  |  |
|   | Installation:  |                          |  |            |  |  |  |
|   | Range of ambient temperature:  | 32 113 °F                |  |            |  |  |  |
|   | Maximum operating pressure:  | 145 psi                  |  |            |  |  |  |
|   | Installation set:  | NO                       |  |            |  |  |  |
|   | Installation type:   | No installation s        | ot   |            |  |  |  |
|   | Pump inlet:  | Conn. threaded           |  | A2         |  |  |  |
| ĺ | Pump outlet:   | Conn. threaded           |  |            |  |  |  |
|   |  |                          | 3/4#INF IF COU   | 243        |  |  |  |
|   | Max. Suction lift during operation   |                          |  |            |  |  |  |
|   | Max. Suction lift during priming: 4.922 ft   |                          |  |            |  |  |  |
|   | Electrical data:   |                          |  |            |  |  |  |
|   |  | 62 W                     |  |            |  |  |  |
|   | Maximum power input - P1:  | -                        |  |            |  |  |  |
|   | Main frequency:  | 60 Hz                    |  |            |  |  |  |
|   | Rated voltage:   | 1 x 100-240 V            | ,  |            |  |  |  |
|   | Enclosure class (IEC 34-5):  | IP65 / NEMA 4>           | K Contraction of the second se |            |  |  |  |
|   | Length of cable:<br>Type of cable plug:  | 4.922 ft                 |  |            |  |  |  |
|   |  | USA, Canada              |  |            |  |  |  |

| GRUNDFOS    |
|-------------|
| UNUNDFUS // |

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| C     | GRUND                   | FOSX               | Phone:            | Phone:     |  |  |  |
|-------|-------------------------|--------------------|-------------------|------------|--|--|--|
|       |                         |                    | Date:             | 12/11/2018 |  |  |  |
| Count | Description             |                    |                   |            |  |  |  |
|       | Inrush current:         | 70A at 240V (3     | 85A/100V) for 2ms |            |  |  |  |
|       | Others:                 |                    |                   |            |  |  |  |
|       | Net weight:             | 15.4 lb<br>17.6 lb |                   |            |  |  |  |
|       | Gross weight:<br>COLOR: | RED                |                   |            |  |  |  |
|       |                         |                    |                   |            |  |  |  |
|       |                         |                    |                   |            |  |  |  |
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|       |                         |                    |                   |            |  |  |  |
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|       |                         |                    |                   |            |  |  |  |
|       |                         |                    |                   |            |  |  |  |
|       |                         |                    |                   |            |  |  |  |
|       |                         |                    |                   |            |  |  |  |
|       |                         |                    |                   |            |  |  |  |
|       |                         |                    |                   |            |  |  |  |
|       |                         |                    |                   |            |  |  |  |



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## Company name: Created by: Phone:

|   |                                   | Date:      |     |                        |
|---|-----------------------------------|------------|-----|------------------------|
| Description                                     | Value                             | H<br>[psi] |     | DDA 60-10, 60H         |
| General information:                            |                                   |            |     |                        |
| Product name:                                   | DDA 60-10                         | 160 -      |     |                        |
| Product No.:                                    | 99159467                          |            |     |                        |
| EAN:  | 5712607842550                     | 150 -      |     |                        |
| Technical:                                      |                                   | 140 -      |     |                        |
|   | DDA 60-10                         | 140        |     |                        |
| Type key:                                       | FCM-SS/T/SS-F-31A3A3              | 130 -      |     |                        |
| Max. Flow:                                      | 15.85 US gal/hour                 |            |     |                        |
| Max. flow in slow mode 50%:                     | 7.925 US gal/hour                 | 120 -      |     |                        |
| Max. flow in slow mode 25%:                     | 3.963 US gal/hour                 |            |     |                        |
| Min flow:                                       | 75 ml/h                           | 110-       |     |                        |
| Turn-down ratio:                                | 1:800                             | 100 -      |     |                        |
| Approvals on nameplate:                         | CE,CSA-US,NSF61,RCM               | 100-       |     |                        |
| Valve type:                                     | Standard                          | 90 -       |     |                        |
| Maximum viscosity at 100 %:                     | 100 mPas                          |            |     |                        |
| Maximum viscosity in slow mode 50 %:            | 2000 mPas                         | 80 -       |     |                        |
| Maximum viscosity in slow mode 25 %:            | 3000 mPas                         |            |     |                        |
| Accuracy of repeatability:                      | 1 %                               | 70 -       |     |                        |
| Materials:                                      |                                   |            |     |                        |
| Dosing head:                                    | Stainless Steel 1.4435            | 60 -       |     |                        |
| Valve ball:                                     | Stainless steel                   | 50         |     |                        |
| Gasket:   | PTFE                              | 50 -       |     |                        |
| Installation:                                   |                                   | 40 -       |     |                        |
| Range of ambient temperature:                   | 32 113 °F                         | 40 -       |     |                        |
| Maximum operating pressure:                     | 145 psi                           | 30 -       |     |                        |
| Installation set:                               | NO                                |            |     |                        |
| Installation type:                              | No installation set               | 20 -       |     |                        |
|   | Conn. threaded 3/4#NPTF           |            |     |                        |
| Pump inlet:                                     | CodeA3                            | 10 -       |     |                        |
| Pump outlet:                                    | Conn. threaded 3/4#NPTF<br>CodeA3 |            | 4 6 | 8 10 12 Q [US gal/hour |
| Max. Suction lift during operation:             | 9.843 ft                          |            | - U |                        |
| Max. Suction lift during priming:               | 4.922 ft                          |            | 29  | 187                    |
| Liquid:   |                                   |            | 36  | 4× 09<br>4× 07         |
| Pumped liquid:                                  | Water                             |            |     |                        |
| Liquid temperature range:                       | 32 122 °F                         |            |     |                        |
| Liquid temperature during operation:            | 68 °F                             |            |     |                        |
| Density:  | 62.29 lb/ft <sup>3</sup>          |            |     |                        |
| Electrical data:                                | 02.20 10/10                       |            | ~   |                        |
| Maximum power input - P1:                       | 62 W                              |            | 10  | 172.5                  |
| Main frequency:                                 | 60 Hz                             | 140.5      |     | 15.94*                 |
| Rated voltage:                                  | 1 x 100-240 V                     | f          |     | 14.33*                 |
| 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)<br>for 2ms |            |     |                        |
| Controls:                                       |                                   |            |     |                        |
| Control variant:                                | FCM                               | 194        |     |                        |
|   | FCM<br>FRONT-MOUNTED              | -          |     |                        |
| Control panel:<br>Level control:                | YES                               |            |     |                        |
|   | 0/4-20 mA                         |            |     |                        |
| Analog input:                                   |                                   |            |     |                        |
| Pulse control:                                  | YES                               |            |     |                        |
| Ext. Stop input:                                | YES                               |            |     |                        |
| Analog output:                                  | 0/4-20 mA                         |            |     |                        |
|   | 2                                 |            |     |                        |
| Output relays:                                  |                                   |            |     |                        |
| Output relays:<br>Bus communication:<br>Others: | YES                               |            |     |                        |



Company name: Created by: Phone:

 Description
 Value

 Gross weight:
 17.6 lb

 COLOR:
 RED

12/11/2018

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