

# Certa 250 / Certa Compact

Certa and Certa Compact pump

## Features and benefits

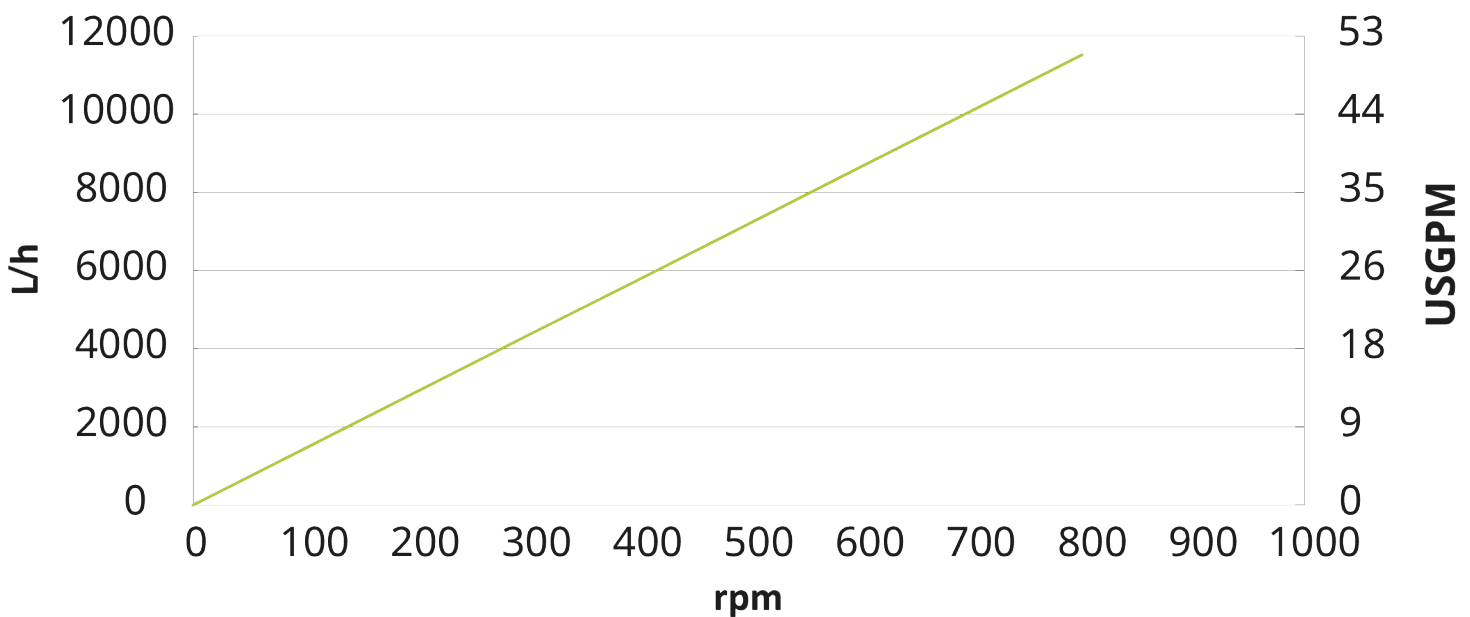
- Gentle product handling preserves high quality of product - superior viscous handling
- EHEDG Type EL Class I - now also with EHEDG Type EL Aseptic Class I
- Impressive suction capability: -12.3 psi (atm)
- Low shear and virtually no pulsation
- Outstanding energy efficient pumping principle - up to 50 % less power than other pumps
- Only one shaft and one seal system - different port orientations available
- Bi-directional running
- Two year warranty



## Certa 250 / Certa Compact performance

### Performance curves

These performance curves show the theoretical flow without consideration of slip



## Technical specifications

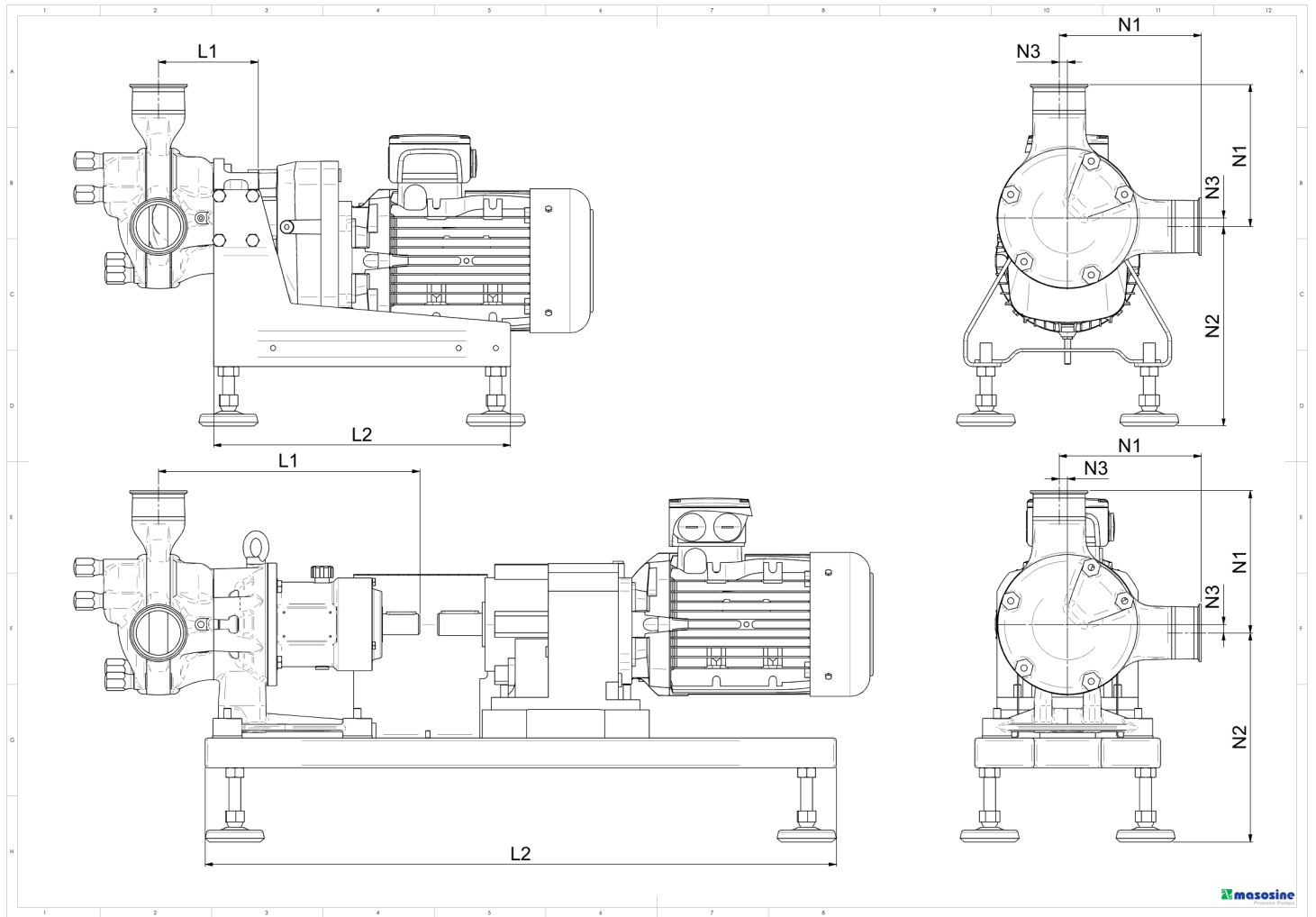
|                              | Certa 250 / Certa Compact                                       |
|------------------------------|-----------------------------------------------------------------|
| Volume per revolution        | 0.063 USG (0.24 L)                                              |
| Max. particle size           | 0.87 in (22 mm)                                                 |
| Suction pressure             | 85% of a vacuum                                                 |
| Maximum operating pressure   | 87, 217 psi (6, 15 bar)                                         |
| Operating temperature        | -4 °F to 212 °F (-20 °C to 100 °C)                              |
| Max. SIP temperature         | 250 °F (121 °C)                                                 |
| Standards                    | 3-A, ATEX, EHEDG Type EI Class I, EHEDG Type EL Class I Aseptic |
| Certification and compliance | EC 1935/2004, FDA                                               |
| Port orientation             | Various options to meet your requirements                       |
| Port type                    | Flange, Milk fitting, Others available on request, RJT, SMS, TC |
| Shaft diameter               | 0.98 in (28 mm)                                                 |
| Shaft height                 | 5.91 in (150 mm)                                                |

\*Max Operating Pressure the lowest value is for the Certa Compact

## Materials of construction

|                        | Certa 250 / Certa Compact                                                     |
|------------------------|-------------------------------------------------------------------------------|
| Housing                | Stainless steel 1.4404, Stainless steel 316L                                  |
| Bearing frame          | Stainless steel 1.4301, Stainless steel 304                                   |
| Rotor                  | A276 (CF10SMnN), A494, Hardened and chrome plated                             |
| Gate                   | MWR, PA6GF30, PEEK, Polyamide, POM metal detectable, PTFE, WRP, WRP PUR-Inlay |
| Seals/gaskets          | EPDM, FKM, Others available on request                                        |
| Mechanical seal        | SiC/Ca-PTFE, SiC/SiC-PTFE                                                     |
| Double Mechanical seal | SiC/SiC                                                                       |
| Shaft seal             | PTFE, SSIC                                                                    |
| O-Ring seal system     | FKM                                                                           |
| Single Lip seal system | PUR                                                                           |

## Certa 250 / Certa Compact dimensions



### Pump size

| Model     | Nozzles |        |            |                |                  |                |    |       | Length   |        |                  |       |          |        |                  |        |
|-----------|---------|--------|------------|----------------|------------------|----------------|----|-------|----------|--------|------------------|-------|----------|--------|------------------|--------|
|           | N1      |        | N2 Certa   |                | N2 Certa Compact |                | N3 |       | L1 Certa |        | L1 Certa Compact |       | L2 Certa |        | L2 Certa Compact |        |
|           | mm      | inch   | mm         | inch           | mm               | inch           | mm | inch  | mm       | inch   | mm               | inch  | mm       | inch   | mm               | inch   |
| Certa 100 | 139     | 5.472  | 228 - 25   | 8.976 - 0.984  | 220 ± 25         | 8.661 ± 0.984  | 10 | 0.394 | 265      | 10.079 | 122.5            | 4.823 | 730      | 28.740 | 320              | 12.598 |
| Certa 200 | 155     | 6.102  | 242.5 - 25 | 5.610 - 0.984  | 230 ± 25         | 9.055 ± 0.984  | 10 | 0.394 | 299      | 11.772 | 124              | 4.882 | 730      | 28.740 | 370              | 14.567 |
| Certa 250 | 192     | 7.559  | 281 - 25   | 11.063 - 0.984 | 270 ± 25         | 10.630 ± 0.984 | 12 | 0.472 | 352      | 13.858 | 134.5            | 5.295 | 850      | 33.465 | 400              | 15.748 |
| Certa 300 | 238     | 9.370  | 305 - 35   | 12.008 - 1.378 | 263 ± 25         | 10.354 ± 0.984 | 18 | 0.709 | 456      | 17.953 | 149              | 5.866 | 1100     | 43.307 | 480              | 18.898 |
| Certa 400 | 324     | 12.756 | 322 - 35   | 12.677 - 1.378 | 329 ± 25         | 12.953 ± 0.984 | 31 | 1.221 | 514      | 20.236 | 174              | 6.850 | 1300     | 51.181 | 600              | 23.622 |
| Certa 500 | 327     | 12.874 | 378 - 35   | 14.882 - 1.378 | 335 ± 25         | 13.189 ± 0.984 | 25 | 0.984 | 564      | 22.205 | 210              | 8.268 | 1300     | 51.181 | 600              | 23.622 |
| Certa 600 | 343     | 13.504 | 380 - 35   | 14.961 - 1.378 | 352 ± 25         | 13.858 ± 0.984 | 28 | 1.102 | 639      | 25.158 | 252.5            | 9.941 | 1400     | 55.118 | 650              | 25.591 |
| Certa 800 | 535     | 21.063 | 740        | 29.134         | N/A              | N/A            | 38 | 1.496 | 807      | 31.771 | N/A              | N/A   | 2200     | 86.614 | N/A              | N/A    |

### Pump weight

| Model             | kg    | lb   |
|-------------------|-------|------|
| Certa 100         | 44    | 97   |
| Certa 100 Compact | 25.5  | 56   |
| Certa 200         | 49    | 108  |
| Certa 200 Compact | 34    | 75   |
| Certa 250         | 89    | 196  |
| Certa 250 Compact | 52    | 115  |
| Certa 300         | 124   | 273  |
| Certa 300 Compact | 79.5  | 175  |
| Certa 400         | 215   | 474  |
| Certa 400 Compact | 164.5 | 363  |
| Certa 500         | 344   | 758  |
| Certa 500 Compact | 231.5 | 510  |
| Certa 600         | 508   | 1120 |
| Certa 600 Compact | 411   | 906  |

Weights are estimated, based on an application with 4 bar at 250 rpm.

Disclaimer: All flow rates shown were obtained pumping water at 20 °C (68 °F) with zero suction and delivery heads.  
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