

# Technical Data

Pump Name

BEST 4 M

|          |                 |           |
|----------|-----------------|-----------|
| Customer | Date 2022-11-01 | Company   |
| Contact  | Item no.        | Issued by |
| Phone    | Project         | Phone     |
| E-mail   | Project ID      | E-mail    |

## Requested data

|   |                           |                        |                       |       |
|---|---------------------------|------------------------|-----------------------|-------|
| 1 | Pump type                 | SUBMERSIBLE SUMP PUMPS | Fluid                 | Water |
| 2 | Number of pumps / Reserve | 1 / 0                  | Liquid temperature °C | 20    |
| 3 | Flow m³/h                 |                        | Kin. viscosity mm²/s  | 1.005 |
| 4 | Head m                    |                        | Vapour pressure kPa   | 2.34  |
| 5 | Geodetic head m           |                        | PH value              |       |
| 6 | Inlet pressure (pin) kPa  | 0                      | Density kg/m³         | 998.3 |
| 7 | Available system NPSH     |                        | Solids Weight %       | 0     |
| 8 | Ambient temperature °C    | 20                     |                       |       |

## Pump

|    |                           |                                |                                      |                           |
|----|---------------------------|--------------------------------|--------------------------------------|---------------------------|
| 9  | Pump Name                 | BEST 4 M                       | Frequency Hz                         | 50                        |
| 10 | Design                    | SUBMERSIBLE SUMP PUMPS         | Installation type                    | Without switch (STANDARD) |
| 11 | Manufacturer              | EBARA                          | Impeller Diameter                    | Max. mm 125               |
| 12 | Speed 1/min               | 2800                           |                                      | Designed mm 125           |
| 13 | No. of Stage              | 1                              |                                      | Min. mm 125               |
| 14 | Connection Suction side   | Strainer                       | Flow                                 | Operating m³/h            |
| 15 | Connection Discharge side | UNI ISO 228                    |                                      | Max- m³/h 19.8            |
| 16 | Max. Working Pressure kPa |                                |                                      | Min- m³/h 1.2             |
| 17 | Shut-off head kPa         | 176.53                         | Head                                 | Operating m               |
| 18 | Total weight kg           | See the table of "Dimensions". |                                      | - (Qmax.) m 4.6           |
| 19 | Shaft power kW            |                                |                                      | - (Qmin.) m 17.3          |
| 20 |                           |                                | Max. Shaft Power at max. impeller kW |                           |
| 21 | Required pump NPSH m      |                                | Efficiency %                         |                           |

## Materials

|    |          |                          |  |  |
|----|----------|--------------------------|--|--|
| 22 | Impeller | AISI 304                 |  |  |
| 23 | Casing   | AISI 304                 |  |  |
| 24 | Shaft    | AISI 303 (wet extension) |  |  |
| 25 |          |                          |  |  |
| 26 |          |                          |  |  |
| 27 |          |                          |  |  |

## Motor

|    |                      |                                             |                    |     |
|----|----------------------|---------------------------------------------|--------------------|-----|
| 28 | Manufacturer         | EPE Standard                                | Insulation class   | F   |
| 29 | Type                 | BEST4_230_Single Phase                      | Phases             | 1~  |
| 30 | Specific design      | Submersible dry type / 50 Hz / Pole pairs 1 | Frame size         |     |
| 31 | Rated power kW       | 1.1                                         | Weight kg          |     |
| 32 | Number of poles      | 2                                           | Electric voltage V | 230 |
| 33 | Speed 1/min          | 2800                                        | Electric current A | 7.3 |
| 34 | Degree of protection | IP 68                                       |                    |     |
| 35 |                      |                                             |                    |     |

## Remarks

# Performance Curve

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## Requested data

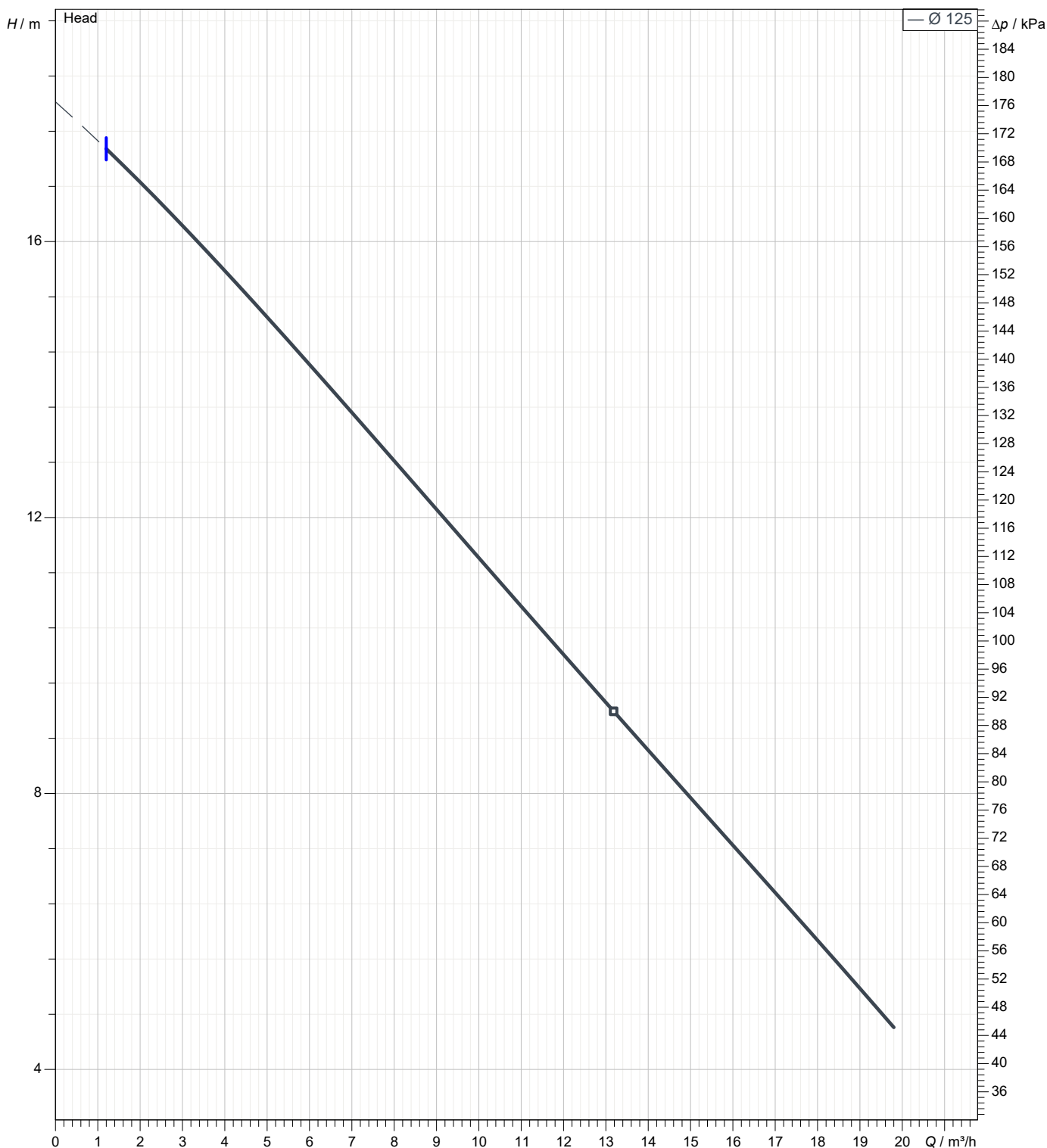
|   |               |      |  |
|---|---------------|------|--|
| 1 | Flow          | m³/h |  |
| 2 | Head          | m    |  |
| 3 | Geodetic head | m    |  |

## Pump

|                            |      |     |                 |       |      |
|----------------------------|------|-----|-----------------|-------|------|
| Operating Flow             | m³/h |     | Frequency       | Hz    | 50   |
| Operating Head             | m    |     | Number of poles |       | 2    |
| Impeller diameter designed | mm   | 125 | Speed           | 1/min | 2800 |

Test standard: ISO 9906:2012 - Grade3B

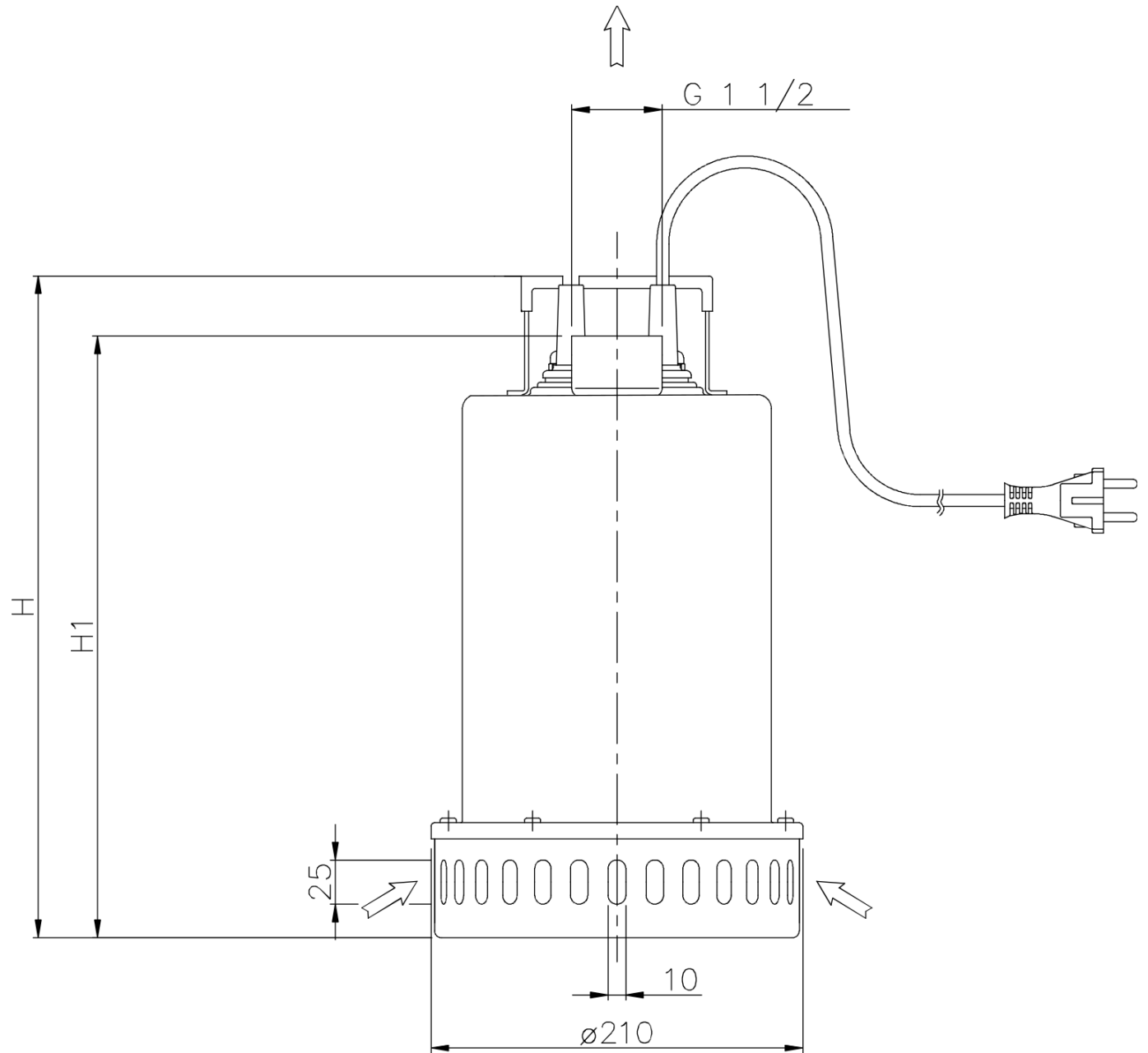
Water; 20°C; 998.3kg/m³; 1mm²/s



# Dimensions

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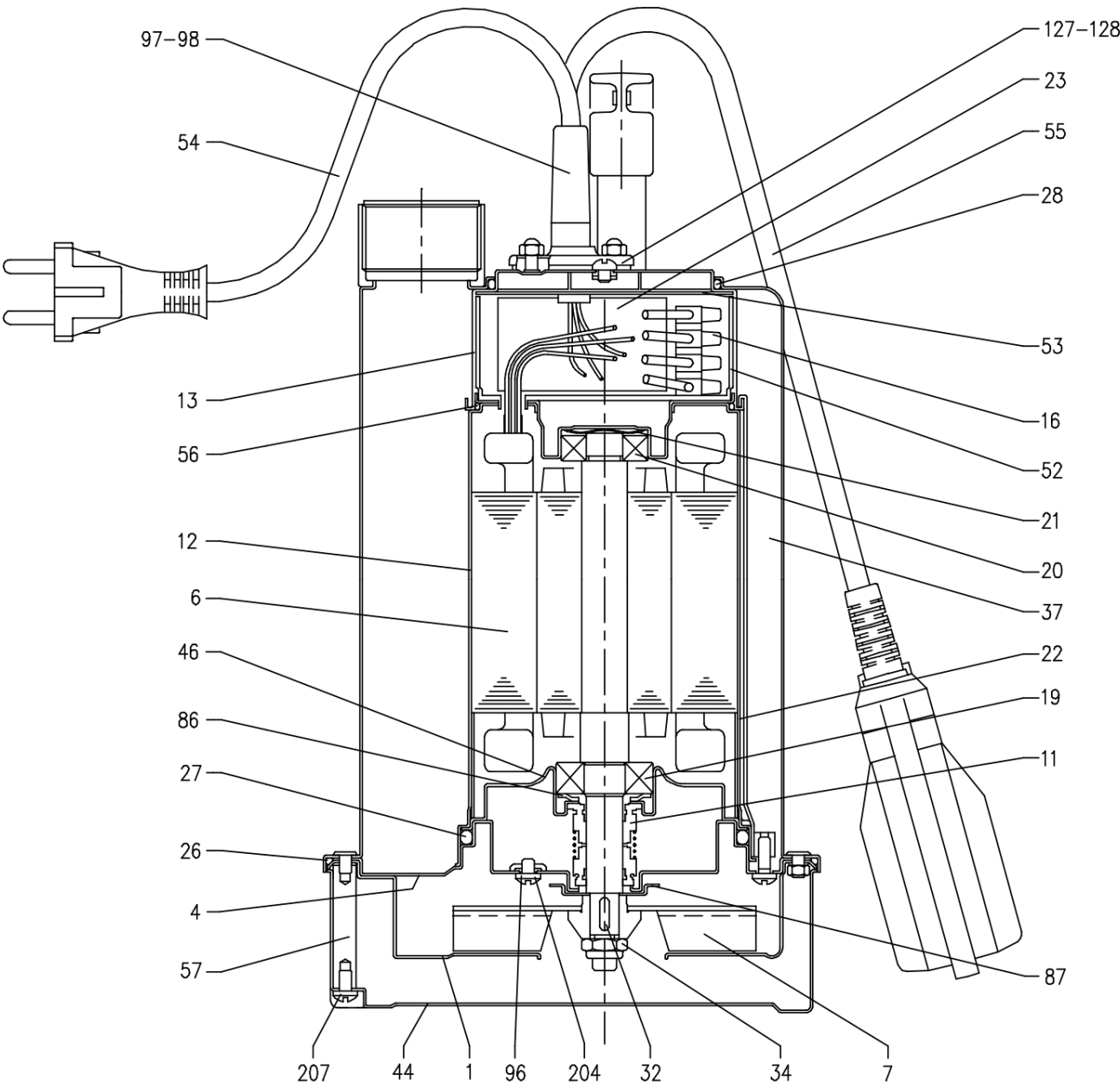


| Dimensions in      mm |            |         |  |  |  |  |  |  |
|-----------------------|------------|---------|--|--|--|--|--|--|
| 1                     | H          | 377     |  |  |  |  |  |  |
| 2                     | H1         | 340     |  |  |  |  |  |  |
| 3                     | Weight P&M | 13,8 kg |  |  |  |  |  |  |
| 4                     |            |         |  |  |  |  |  |  |
| 5                     |            |         |  |  |  |  |  |  |
| 6                     |            |         |  |  |  |  |  |  |
| 7                     |            |         |  |  |  |  |  |  |
| 8                     |            |         |  |  |  |  |  |  |
| 9                     |            |         |  |  |  |  |  |  |
| 10                    |            |         |  |  |  |  |  |  |
| 11                    |            |         |  |  |  |  |  |  |
| 12                    |            |         |  |  |  |  |  |  |
| 13                    |            |         |  |  |  |  |  |  |
| 14                    |            |         |  |  |  |  |  |  |
| 15                    |            |         |  |  |  |  |  |  |

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Construction

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## Construction

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| N°  | PART NAME                 | MATERIAL                              | Q.TY |
|-----|---------------------------|---------------------------------------|------|
| 1   | Volute                    | AISI 304                              | 1    |
| 4   | Motor bracket             | AISI 304                              | 1    |
| 6   | Shaft with rotor          | AISI 303                              | 1    |
| 7   | Impeller                  | AISI 304                              | 1    |
| 11  | Mechanical seal [3]       | NBR                                   | 2    |
| 12  | Motor frame with stator   | -                                     | 1    |
| 13  | Motor cover               | AISI 304                              | 1    |
| 16  | Terminal                  | -                                     | 1    |
| 19  | Pump side ball bearing    | -                                     | 1    |
| 20  | Fan side ball bearing     | -                                     | 1    |
| 21  | Adjusting ring            | Steel C70                             | 1    |
| 22  | Tie rod                   | AISI 304                              | 3    |
| 23  | Capacitor [2]             | -                                     | 1    |
| 26  | "O" Ring                  | NBR                                   | 1    |
| 27  | "O" Ring                  | NBR                                   | 1    |
| 28  | "O" Ring                  | NBR                                   | 1    |
| 32  | Key                       | AISI 304                              | 1    |
| 34  | Impeller nut              | AISI 304                              | 1    |
| 37  | Pump casing               | AISI 304                              | 1    |
| 44  | Strainer                  | AISI 304                              | 1    |
| 46  | Bearing housing           | AISI 304                              | 1    |
| 52  | Terminal insulating box   | PA66 glass fibre reinforced class V-0 | 1    |
| 53  | Terminal insulating cover | PA66 class V-0                        | 1    |
| 54  | Power cable               | -                                     | 1    |
| 55  | Float switch [1]          | -                                     | 1    |
| 56  | "O" Ring                  | NBR                                   | 1    |
| 57  | Bolt                      | AISI 303                              | 3    |
| 86  | Washer                    | AISI 304                              | 1    |
| 87  | Impeller ring             | AISI 304                              | 1    |
| 96  | "O" Ring                  | NBR                                   | 3    |
| 97  | Cable connector [1]       | NBR                                   | 1    |
| 98  | Cable connector           | NBR                                   | 1    |
| 127 | Cable connector [1]       | AISI 304                              | 1    |
| 128 | Cable connector           | AISI 304                              | 1    |
| 204 | Screw                     | Stainless steel A2 UNI 7323           | 3    |
| 207 | Screw                     | Stainless steel A2 UNI 7323           | 3    |

[1] Only for version single phase with float switch

[2] Only for version single phase

[3] See **CONSTRUCTION 3**

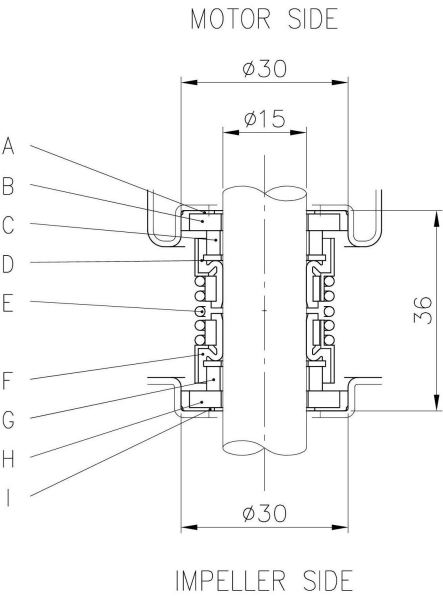
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Construction

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| REF | PART NAME  | MATERIAL        |
|-----|------------|-----------------|
| A   | Rubber cup | NBR             |
| B   | Seat       | Ceramic         |
| C   | Seal face  | Carbon          |
| D   | Below      | NBR             |
| E   | Spring     | AISI 304        |
| F   | Below      | NBR             |
| G   | Seal face  | Silicon carbide |
| H   | Seat       | Silicon carbide |
| I   | Rubber cup | NBR             |