

# Technical Data

Pump Name

CMD 206 T IE3

|          |            |                                       |           |
|----------|------------|---------------------------------------|-----------|
| Customer | Date       | 2024-07-01                            | Company   |
| Contact  | Item no.   |                                       | Issued by |
| Phone    | Project    |                                       | Phone     |
| E-mail   | Project ID | Proiect redenumit 2024-07-01 15:55:48 | E-mail    |

## Requested data

|   |                           |                   |                       |        |
|---|---------------------------|-------------------|-----------------------|--------|
| 1 | Pump type                 | CENTRIFUGAL 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 bar   | 0.0234 |
| 5 | Geodetic head m           |                   | PH value              |        |
| 6 | Inlet pressure (pin) bar  | 0                 | Density kg/m³         | 998.3  |
| 7 | Available system NPSH     |                   | Solids Weight %       | 0      |
| 8 | Ambient temperature °C    | 20                |                       |        |

## Pump

|    |                           |                                |                                      |                  |
|----|---------------------------|--------------------------------|--------------------------------------|------------------|
| 9  | Pump Name                 | CMD 206 T IE3                  | Frequency Hz                         | 60               |
| 10 | Design                    | CENTRIFUGAL PUMPS              | Installation type                    | STANDARD         |
| 11 | Manufacturer              | EBARA                          | Impeller Diameter                    | Max. mm 96       |
| 12 | Speed rpm                 | 3400                           |                                      | Designed mm 96   |
| 13 | No. of Stage              | 1                              |                                      | Min. mm 96       |
| 14 | Connection Suction side   | UNI ISO 228                    | Flow                                 | Operating m³/h   |
| 15 | Connection Discharge side | UNI ISO 228                    |                                      | Max- m³/h 57     |
| 16 | Max Working Pressure bar  | 6                              |                                      | Min- m³/h 18     |
| 17 | Shut-off head bar         | 1.22                           | Head                                 | Operating m      |
| 18 | Total weight kg           | See the table of "Dimensions". |                                      | - (Qmax.) m 5.6  |
| 19 | Shaft power kW            |                                |                                      | - (Qmin.) m 11.8 |
| 20 |                           |                                | Max. Shaft Power at max. impeller kW |                  |
| 21 | Required pump NPSH m      |                                | Efficiency %                         |                  |

## Materials

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

## Motor

|    |                      |                                |                    |     |
|----|----------------------|--------------------------------|--------------------|-----|
| 28 | Manufacturer         | EPE Standard                   | Insulation class   | F   |
| 29 | Type                 | TEFC_CMD 206 T_460_Three Phase | Phases             | 3~  |
| 30 | Specific design      | IE3 / 60 Hz / Pole pairs 1     | Frame size         |     |
| 31 | Rated power kW       | 1.5                            | Weight kg          |     |
| 32 | Number of poles      | 2                              | Electric voltage V | 460 |
| 33 | Speed rpm            | 3400                           | Electric current A | 4.1 |
| 34 | Degree of protection | IP 44                          |                    |     |
| 35 |                      |                                |                    |     |

## Remarks

# Performance Curve

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## Requested data

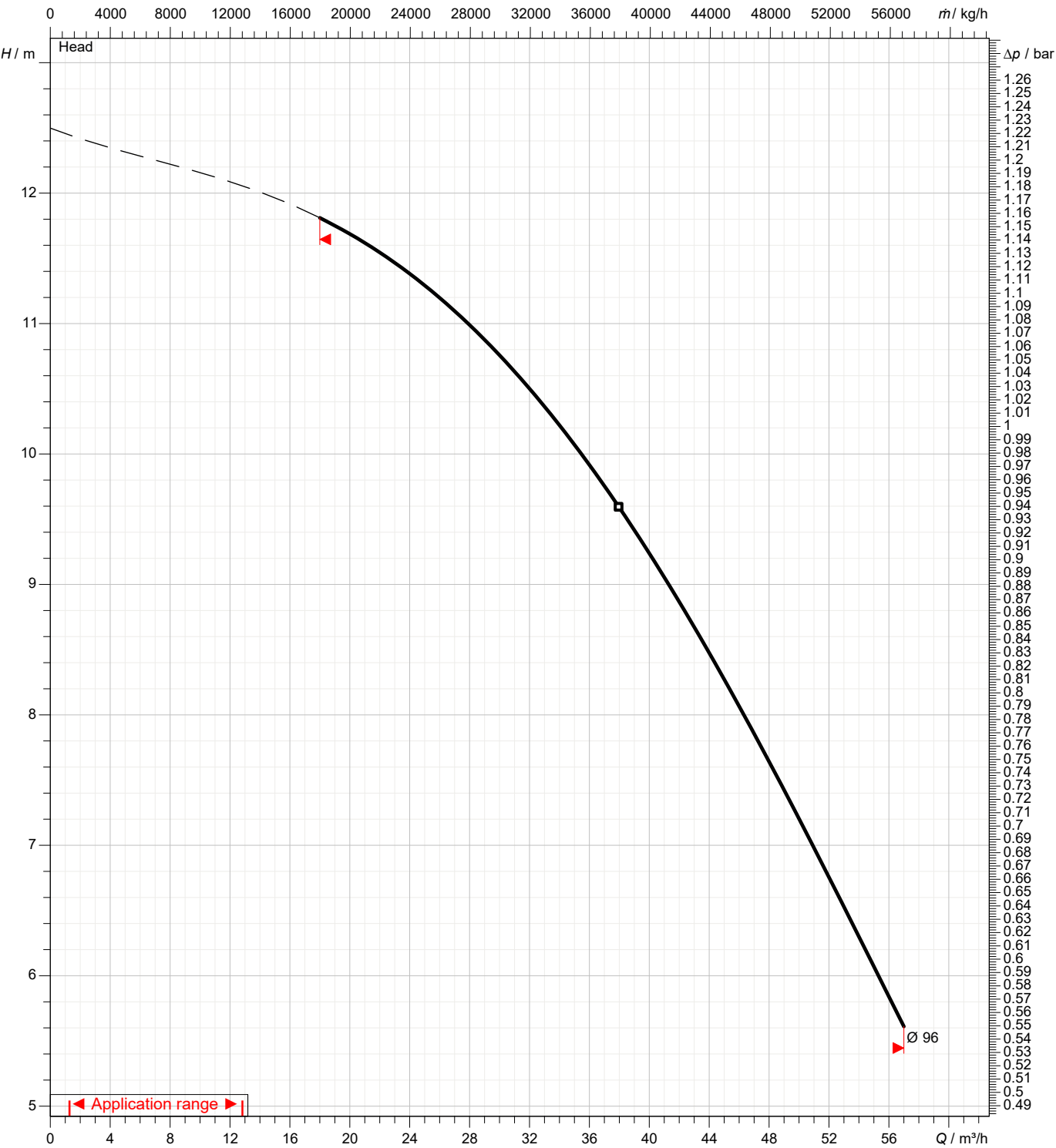
|   |               |      |  |
|---|---------------|------|--|
| 1 | Flow          | m³/h |  |
| 2 | Head          | m    |  |
| 3 | Geodetic head | m    |  |

## Pump

|                            |      |    |                 |     |      |
|----------------------------|------|----|-----------------|-----|------|
| Operating flow             | m³/h |    | Frequency       | Hz  | 60   |
| Operating head             | m    |    | Number of poles |     | 2    |
| Impeller diameter designed | mm   | 96 | Speed           | rpm | 3400 |

Test standard: ISO 9906:2012 - Grade3B

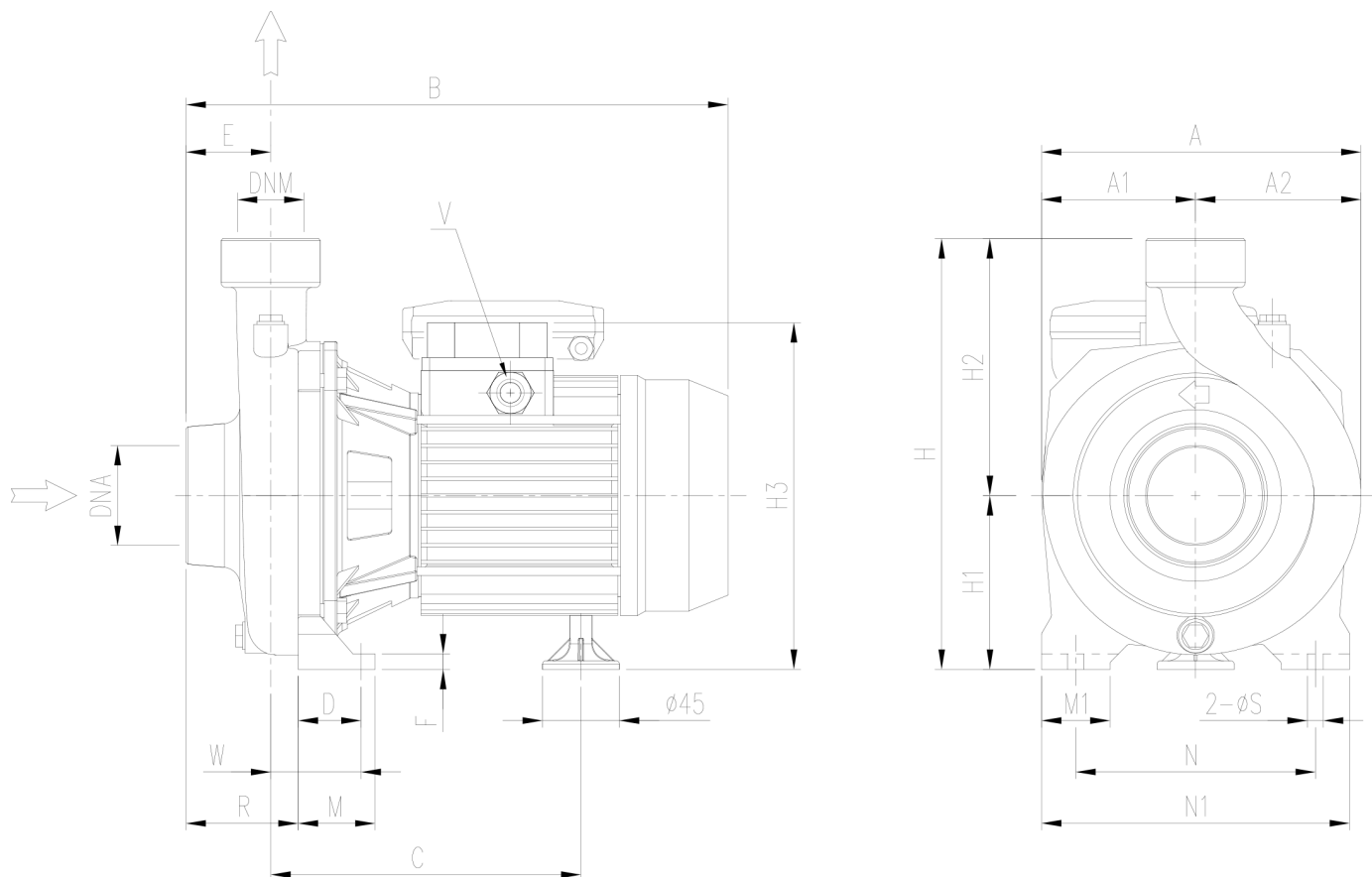
Water; 20°C; 998.3kg/m³; 1mm²/s



# Dimensions

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|          |            |                                       |           |
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| Dimensions in            mm |     |         |            |         |  |  |  |  |  |
|-----------------------------|-----|---------|------------|---------|--|--|--|--|--|
| 1                           | A   | 211     | M1         | 40      |  |  |  |  |  |
| 2                           | A1  | 97      | N          | 160     |  |  |  |  |  |
| 3                           | A2  | 114     | N1         | 200     |  |  |  |  |  |
| 4                           | B   | 409     | R          | 100.5   |  |  |  |  |  |
| 5                           | C   | 221     | S          | 9.5     |  |  |  |  |  |
| 6                           | D   | 37      | V          | M20x1,5 |  |  |  |  |  |
| 7                           | DNA | G 2 1/2 | W          | 70      |  |  |  |  |  |
| 8                           | DNM | G 2 1/2 | Weight P&M | 22 kg   |  |  |  |  |  |
| 9                           | E   | 68      |            |         |  |  |  |  |  |
| 10                          | F   | 12      |            |         |  |  |  |  |  |
| 11                          | H   | 271.5   |            |         |  |  |  |  |  |
| 12                          | H1  | 111.5   |            |         |  |  |  |  |  |
| 13                          | H2  | 160     |            |         |  |  |  |  |  |
| 14                          | H3  | 230.5   |            |         |  |  |  |  |  |
| 15                          | M   | 45      |            |         |  |  |  |  |  |

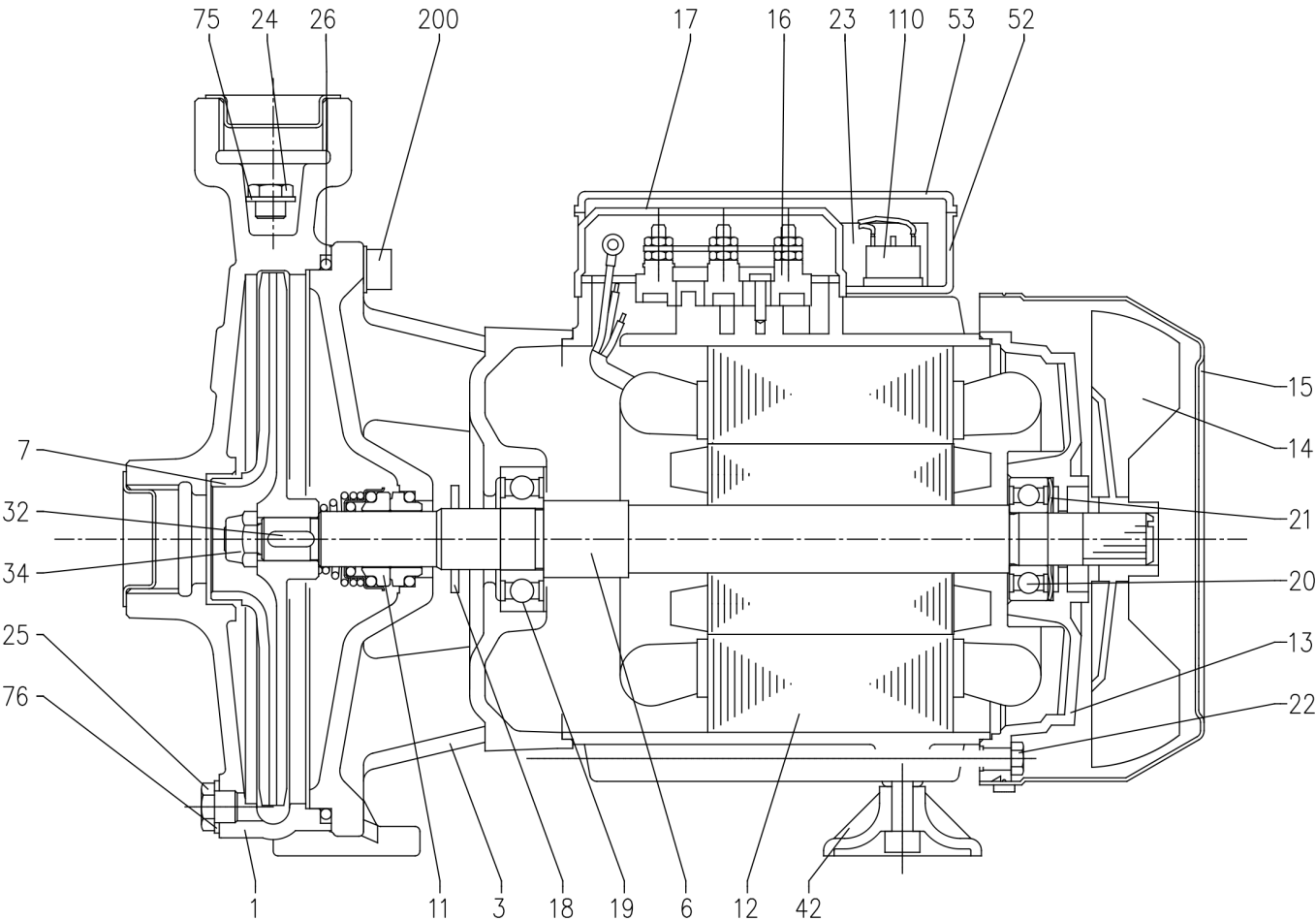
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Construction

Pump Name

CMD 206 T IE3

|          |                                                 |           |
|----------|-------------------------------------------------|-----------|
| Customer | Date2024-07-01                                  | Company   |
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| E-mail   | Project IDProject redenumit 2024-07-01 15:55:48 | E-mail    |



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## Construction

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|          |                                                  |           |
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| N°  | PART NAME               | MATERIAL                   | Q.TY |
|-----|-------------------------|----------------------------|------|
| 1   | Casing                  | Cast iron                  | 1    |
| 3   | Motor bracket           | Cast iron                  | 1    |
| 6   | Shaft with rotor [1]    | -                          | 1    |
| 7   | Impeller [2]            | -                          | 1    |
| 11  | Mechanical seal [3]     | Carbon/Ceramic/NBR         | 1    |
| 12  | Motor frame with stator | -                          | 1    |
| 13  | Motor cover             | Aluminium                  | 1    |
| 14  | Fan                     | PA6                        | 1    |
| 15  | Fan cover               | Fe P04 Zincate             | 1    |
| 16  | Terminal board          | -                          | 1    |
| 17  | Terminal box cover [4]  | Aluminium                  | 1    |
| 18  | Splash ring             | NBR                        | 1    |
| 19  | Pump side ball bearing  | -                          | 1    |
| 20  | Fan side ball bearing   | -                          | 1    |
| 21  | Adjusting ring          | Steel C70                  | 1    |
| 22  | Tie rod                 | Fe 42 Zincate              | 4    |
| 23  | Capacitor [5]           | -                          | 1    |
| 24  | Priming plug            | Brass                      | 1    |
| 25  | Drain plug              | Brass                      | 1    |
| 26  | O-ring                  | NBR                        | 1    |
| 32  | Key                     | AISI 316                   | 1    |
| 34  | Impeller nut            | AISI 304                   | 1    |
| 42  | Foot                    | PP                         | 1    |
| 52  | Capacitor box [5]       | ABS class V-0              | 1    |
| 53  | Capacitor box cover [5] | ABS class V-0              | 1    |
| 75  | Washer                  | Aluminium                  | 1    |
| 76  | Washer                  | Aluminium                  | 1    |
| 110 | Protector [5]           | -                          | 1    |
| 200 | Screw                   | Zn Steel Cl. 8.8 ISO 898-1 | 4    |

[1] Material: AISI 303 (wet extension) for version CMA, CMB 156-206-306, CMD 206-306

AISI 304 (wet extension) for version CMB 406-556, CMD 406

[2] Material: Brass for version: CMA, CMB 206-306-406-556

Cast iron for version: CMB 156, CMD

[3] See CONSTRUCTION 3

[4] Only for three phase

[5] Only for single phase

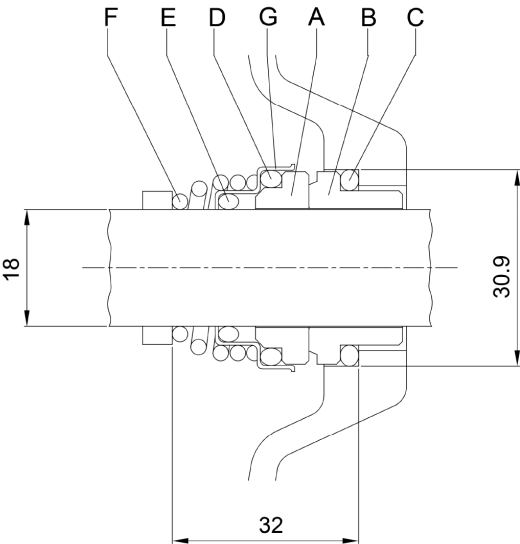
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Construction

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| REF | PART NAME            | MATERIAL<br>Standard version |
|-----|----------------------|------------------------------|
| A   | Rotary seal ring     | Ceramic                      |
| B   | Stationary seal ring | Carbon Graphite              |
| C   | O Ring               | NBR                          |
| D   | O Ring               | NBR                          |
| E   | O Ring               | NBR                          |
| F   | Self driving spring  | AISI 316                     |
| G   | Frame                | AISI 304                     |