

# Technical data

**Pump name 3D32-200/5.56**

|          |                      |           |
|----------|----------------------|-----------|
| Customer | Date 20-October-2016 | Company   |
| Contact  | Item no.             | Issued by |
| Phone    | Project              | Phone     |
| E-mail   | Project ID           | E-mail    |

**Requested data**

|   |                              |                  |                                   |              |
|---|------------------------------|------------------|-----------------------------------|--------------|
| 1 | Pump type                    | CENTRIFUGAL PUMP | Fluid                             | Water, clean |
| 2 | Number of pumps / Reserve    | 1 / 0            | Liquid temperature °F             | 68           |
| 3 | Flow US g.p.m.               | 0                | Kin. viscosity ft <sup>2</sup> /s | 1.08E-5      |
| 4 | Head ft                      | 0                | Vapour pressure psi               | 0.319        |
| 5 | Static head ft               | 0                | PH value                          | 7            |
| 6 | Inlet pressure psi           | 1                | Density lb/ft <sup>3</sup>        | 62           |
| 7 | Available system NPSH        | 0                | Solids Weight %                   | 0            |
| 8 | Environmental temperature °F | 68               | Altitude ft                       | 3281         |

**Pump**

|    |                           |                                |                                      |          |
|----|---------------------------|--------------------------------|--------------------------------------|----------|
| 9  | Pump name                 | 3D32-200/5.56                  | Frequency Hz                         | 60       |
| 10 | Design                    | CENTRIFUGAL PUMP               | Installation type                    | STANDARD |
| 11 | Manufacturer              | EPE                            | Impeller Max. inch                   | 7        |
| 12 | Speed rpm                 | 3480                           | Diameter Designed inch               | 7        |
| 13 | No. of Stage              | 1                              | Min. inch                            | 7        |
| 14 | Connection Suction side   | EN 1092-2                      | Flow Operating US g.p.m.             |          |
| 15 | Connection Discharge side | EN 1092-2                      | Max- US g.p.m.                       | 106      |
| 16 | Max Working Pressure psi  | 145.03                         | Min- US g.p.m.                       | 26.4     |
| 17 | Shut-off head psi         | 90.89                          | Head Operating ft                    |          |
| 18 | Total weight lb           | See the table of "Dimensions". | - (Qmax.) ft                         | 151.0    |
| 19 | Shaft power hp            |                                | - (Qmin.) ft                         | 205.3    |
| 20 |                           |                                | Max. Shaft Power at max. impeller hp | 7.16     |
| 21 | Required NPSH ft          |                                | Efficiency %                         |          |

**Materials**

|    |          |           |  |  |
|----|----------|-----------|--|--|
| 22 | Casing   | Cast iron |  |  |
| 23 | Impeller | AISI 304  |  |  |
| 24 | Shaft    | AISI 304  |  |  |
| 25 |          |           |  |  |
| 26 |          |           |  |  |
| 27 |          |           |  |  |

**Motor**

|    |                      |                                    |                    |     |
|----|----------------------|------------------------------------|--------------------|-----|
| 28 | Manufacturer         | EPE Standard                       | Insulation class   | F   |
| 29 | Type                 | TEFC_3D32-200/5.56_460_Three Phase | Phases             | 3~  |
| 30 | Specific design      | - / 60 Hz / Pole pairs 1           | Frame size         |     |
| 31 | Rated power hp       | 7.3756                             | Weight lb          | 0   |
| 32 | Number of poles      | 2                                  | Electric voltage V | 460 |
| 33 | Speed rpm            | 3480                               | Electric current A | 9.5 |
| 34 | Degree of protection | IP 55                              |                    |     |
| 35 |                      |                                    |                    |     |

**Remarks**

# Performance curve

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## Requested data

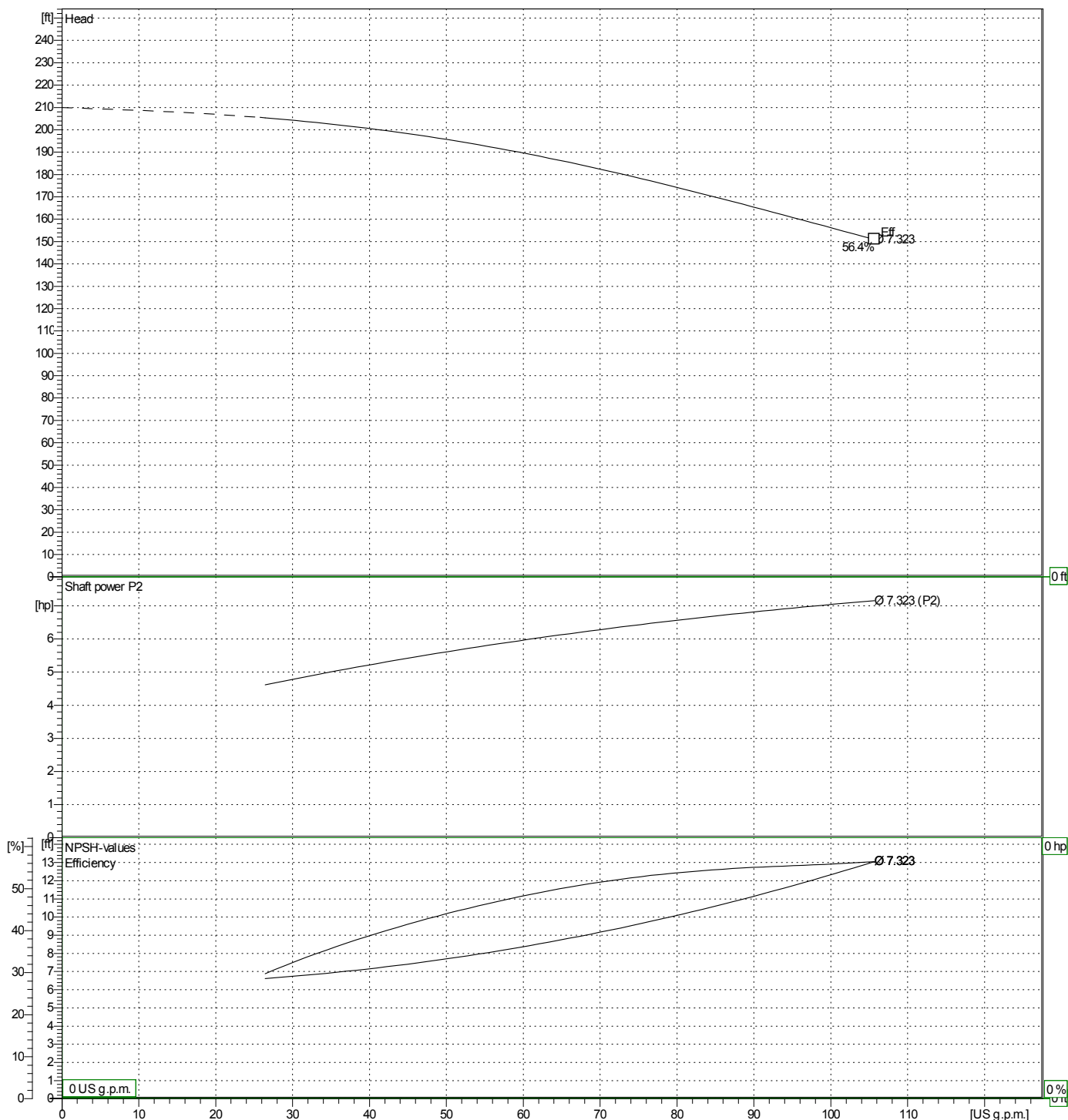
|   |             |           |   |
|---|-------------|-----------|---|
| 1 | Flow        | US g.p.m. | 0 |
| 2 | Head        | ft        | 0 |
| 3 | Static head | ft        | 0 |

## Pump

|                |           |                   |               |    |
|----------------|-----------|-------------------|---------------|----|
| Operating Flow | US g.p.m. | Impeller Diameter | Designed inch | 7  |
| Operating Head | ft        | Frequency         | Hz            | 60 |
|                |           | Speed             | rpm           |    |

Test standard: ISO 9906:2012 - Grade3B

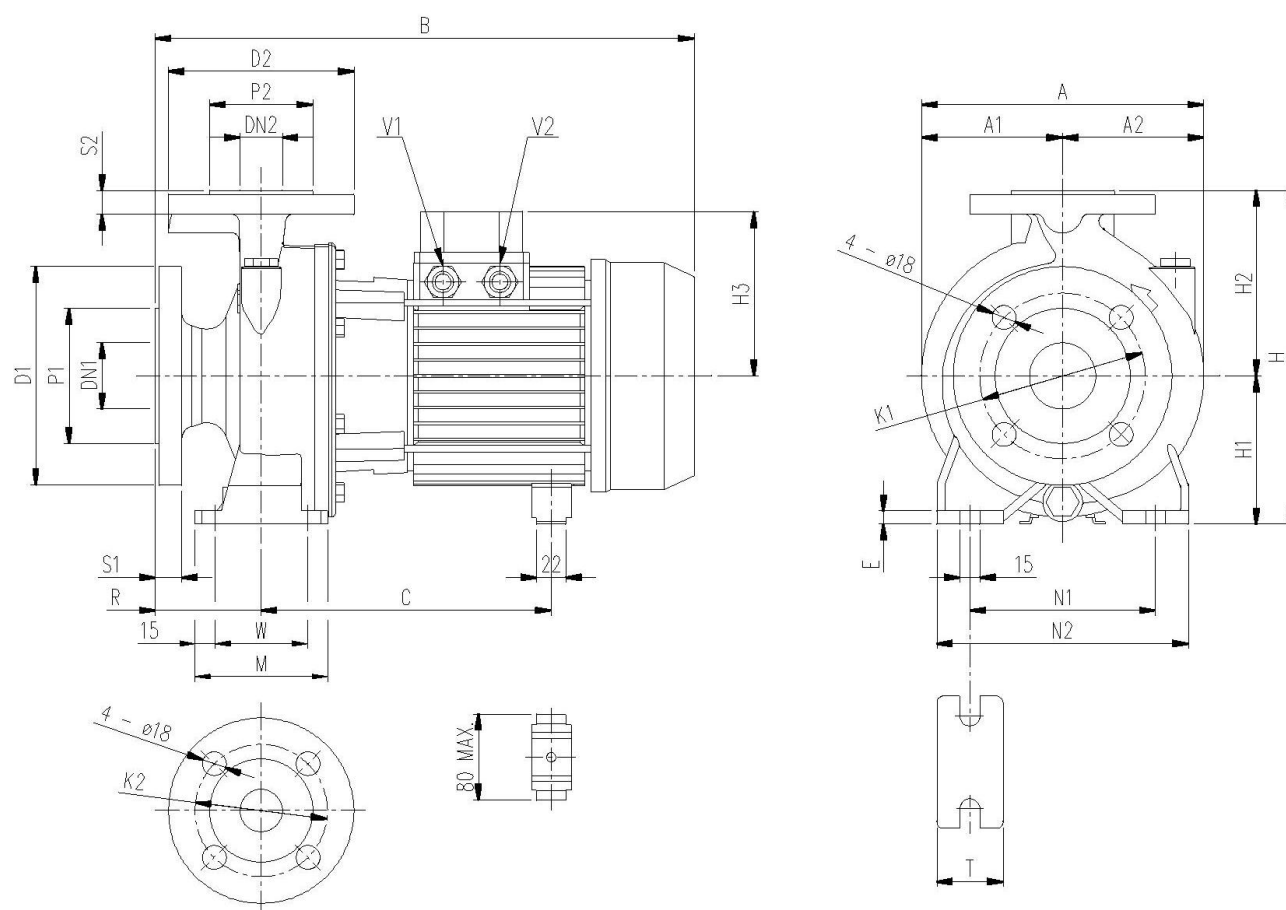
Water, clean [100%] ; 68°F; 62.321690545307lb/ft³; 1.0764E-5ft²/s



# Dimensions

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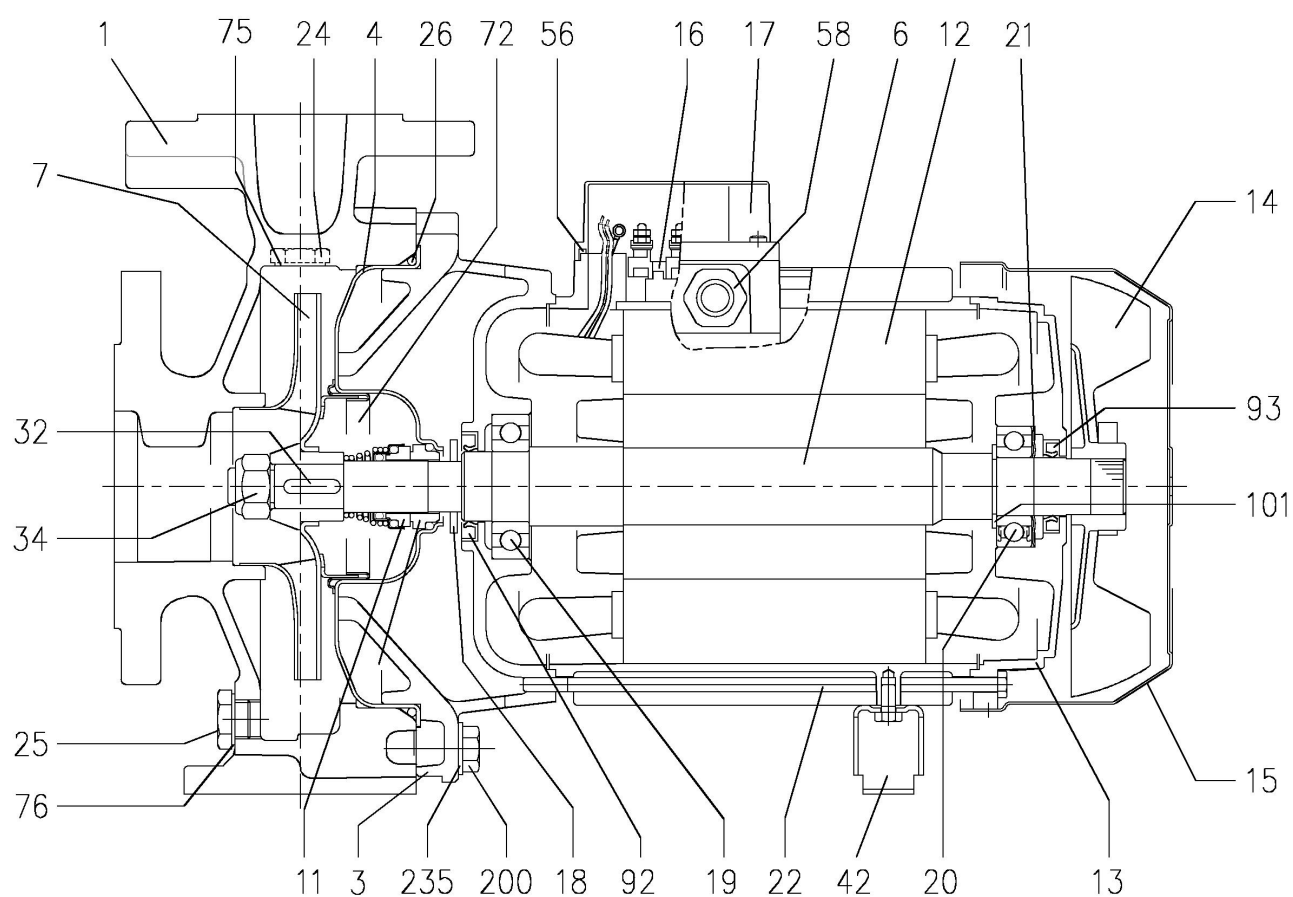


| Dimensions in inch |         |        |    |         |           |         |  |
|--------------------|---------|--------|----|---------|-----------|---------|--|
| 1                  | A       | 11.654 | E  | 0.3937  | V2        | PG 16   |  |
| 2                  | A1      | 5.8268 | H  | 13.386  | W         | 2.7559  |  |
| 3                  | A2      | 5.8268 | H1 | 6.2992  | Weight kg | 59,9 kg |  |
| 4                  | B       | 20.433 | H2 | 7.0866  |           |         |  |
| 5                  | C       | 10.827 | H3 | 5.9055  |           |         |  |
| 6                  | Dia D1  | 6.4961 | M  | 3.937   |           |         |  |
| 7                  | Dia D2  | 5.5118 | N1 | 7.4803  |           |         |  |
| 8                  | Dia DN1 | 1.9685 | N2 | 9.4488  |           |         |  |
| 9                  | Dia DN2 | 1.2598 | R  | 3.1496  |           |         |  |
| 10                 | Dia K1  | 4.9213 | S1 | 0.7874  |           |         |  |
| 11                 | Dia K2  | 3.937  | S2 | 0.70866 |           |         |  |
| 12                 | Dia P1  | 4.0157 | T  | 1.9685  |           |         |  |
| 13                 | Dia P2  | 3.0709 | V1 | PG 13.5 |           |         |  |

# (1/3) Construction

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# (2/3) Construction

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| N°  | PART NAME                        | MATERIAL                               | DIMENSIONS                                | STANDARD                      | Q.TY          |
|-----|----------------------------------|----------------------------------------|-------------------------------------------|-------------------------------|---------------|
| 001 | Casing                           | Cast iron EN-GJL-250-EN 1561           |                                           |                               | 1             |
| 003 | Motor bracket                    | [1]                                    |                                           |                               | 1             |
| 004 | Casing cover                     | EN 1.4301 (AISI 304)                   |                                           |                               | 1             |
| 006 | Shaft with rotor - Wet extension | EN 1.4301 (AISI 304)                   |                                           |                               | 1             |
| 007 | Impeller                         | [2]                                    |                                           |                               | 1             |
| 011 | Mechanical seal                  | [3]                                    | [3]                                       |                               | 1             |
| 012 | Motor frame with stator          | -                                      |                                           |                               | 1             |
| 013 | Motor cover                      | Aluminium                              |                                           |                               | 1             |
| 014 | Fan                              | PA                                     |                                           |                               | 1             |
| 015 | Fan cover                        | Fe P04 Galvanized                      |                                           |                               | 1             |
| 016 | Terminal                         | -                                      |                                           |                               | 1             |
| 017 | Terminal box cover               | Aluminium (three phase version)        |                                           |                               | 1             |
| 018 | Splash ring                      | NBR                                    | 40x21.5x2<br>50x29.5x3                    | EBARA DRAWING                 | 1             |
| 019 | Bearing                          | -                                      |                                           |                               | 1             |
| 020 | Bearing                          | -                                      |                                           |                               | 1             |
| 021 | Adjusting ring                   | Steel C70                              |                                           |                               | 1             |
| 022 | Tie rod                          | Fe 42 Galvanized                       | M5<br>M6<br>M8                            | EBARA DRAWING                 | 4             |
|     | Screw                            | Gv. Steel 8.8 strenght class ISO 898-1 | M10x40                                    | UNI 5739                      |               |
| 24  | Priming plug                     | Brass                                  | G 3/8" L=8                                |                               | 1             |
| 25  | Draing plug                      | Brass                                  | G 3/8" L=8                                |                               | 1             |
| 026 | "O" ring                         | NBR [4]                                | 158.11x5.34<br>183.52x5.34<br>227.96x5.34 | OR 6625<br>OR 6720<br>OR 6895 | 1             |
| 032 | Key                              | EN 1.4401 (AISI 316)                   | A 6x6x25<br>A 8x7x30                      | UNI 6604                      | 1             |
| 034 | Impeller nut                     | EN 1.4301 (AISI 304)                   | M16x1.5<br>M18x1.5<br>M20x1.5             | UNI 7474                      | 1             |
| 042 | Foot                             | Aluminium / Galvanized steel           |                                           | EBARA DRAWING                 | [5]           |
| 056 | Box gasket                       | NBR                                    |                                           |                               | 1             |
| 058 | Cable gland                      | -                                      |                                           |                               | [6]           |
| 072 | Casing ring                      | EN 1.4301 (AISI 304)                   |                                           |                               | 1             |
| 075 | Washer                           | Aluminum                               | 22x17x1.5                                 | EBARA DRAWING                 | 1             |
| 076 | Washer                           | Aluminum                               |                                           |                               | 1             |
| 092 | Lip seal                         | -                                      | 25x40x7<br>30x47x7<br>40x55x7<br>45x60x7  | DIN 3760<br>without spring    | 1             |
| 093 | Lip seal                         | -                                      | 25x40x7<br>30x47x7<br>40x55x7<br>45x60x7  | DIN 3760<br>without spring    | 1             |
| 101 | Snap ring                        | Carbon tool steels TC 80               | Ø 40                                      | UNI 7435                      | 1             |
| 200 | Screw                            | Gv. Steel 8.8 strenght class ISO 898-1 | M 8x30<br>M 10x35                         | UNI 5739                      | 8<br>10<br>12 |
| 235 | Washer                           | Galvanized Steel                       | 8.4x17<br>10.5x21                         | UNI 6592                      | 8<br>10<br>12 |

[1] Cast iron EN-GJL-200-EN 1561 for 3D 40-125/4.6, 40-160/7.56, 65-125/5.56; 65-125/7.56

Aluminum AL-EN-1706-AC-46000-D for all the others;

[2] EN 1.4301 (AISI 304) for 32, 40, 50 series;

EN 1.4401 (AISI 316) for 65 series

[3] For special version and dimensions see

## CONSTRUCTION 3

[4] FPM for H, HS, HW, HSW version;

EPDM for E version

[5] 1 for pumps up to 11 kW

[6] 1 for pumps with motor up to 11 kW

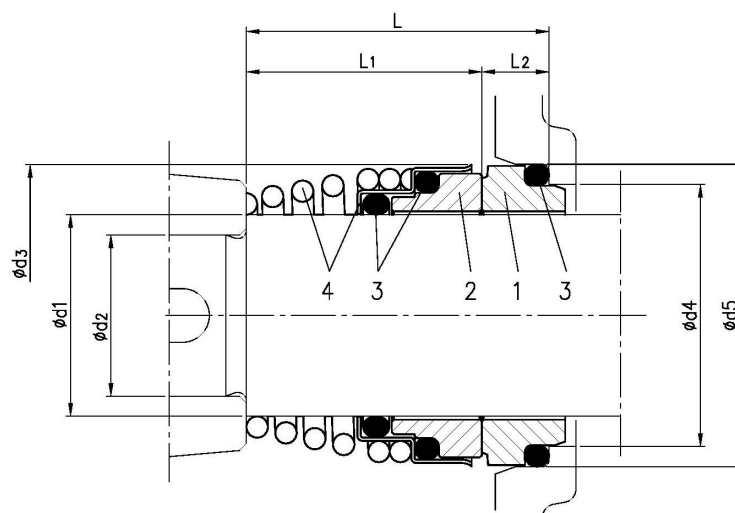
[7] Only for: 32-200, 40-200, 50-160

[8] Only for pumps with 9.2 and 11 kW motor

# (3/3) Construction

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| Version  | Pump type                                                                                                     | Dimensions [ mm ] |    |    |    |    |      |      |    | Material                     |                          |             |                         |
|----------|---------------------------------------------------------------------------------------------------------------|-------------------|----|----|----|----|------|------|----|------------------------------|--------------------------|-------------|-------------------------|
|          |                                                                                                               | d1                | d2 | d3 | d4 | d5 | L    | L1   | L2 | 1<br>Stationary<br>seal ring | 2<br>Rotary<br>seal ring | 3<br>Rubber | 4<br>Frame +<br>Spring  |
| Standard | 32-125/160/200<br>40-125/160/200<br>50-125/160<br>65-125<br>65-160/9.26<br>65-160/116<br>65-160/156<br>65-200 | 22                | 19 | 38 | 31 | 37 | 37.5 | 27.5 | 10 | Carbon                       | Ceramic                  | NBR         | EN 1.4401<br>(AISI 316) |
|          |                                                                                                               | 30                | 24 | 46 | 39 | 45 | 42.5 | 32.5 | 10 |                              |                          |             |                         |