

Technical Data

Pump Name

3D 50-125/5.56

| | | |
|--------------------|------------------|--------------------|
| Cliente | Fecha 10/01/2024 | Empresa |
| Contacto | Ref. | Issued by |
| Teléfono | Proyecto | Teléfono |
| Correo electrónico | ID proyecto | Correo electrónico |

Datos solicitados

| | | | | |
|---|--------------------------------|------------------|-----------------------------|--------|
| 1 | Tipo | BOMBA CENTRÍFUGA | Fluido | agua |
| 2 | Número de bombas / Reserva | 1 / 0 | Temperatura del fluido °C | 20 |
| 3 | Caudal m³/h | | Viscosidad cinemática mm²/s | 1.005 |
| 4 | Altura de impulsión m | | Presión de vapor psi | 0.3394 |
| 5 | Altura geodésica m | | Valor PH | |
| 6 | Presión de entrada (pin) psi | 0 | Densidad kg/m³ | 998.3 |
| 7 | NPSH - valor de la instalación | | Sólidos Weight % | 0 |
| 8 | Temperatura ambiente °C | 20 | | |

Bomba

| | | | | |
|----|--------------------------|--------------------------------|----------------------------|------------------|
| 9 | Pump Name | 3D 50-125/5.56 | Frecuencia Hz | 60 |
| 10 | Diseño | BOMBA CENTRÍFUGA | Instalación | STANDARD |
| 11 | Fabricante | EBARA | Rodete Diámetro | Máx. mm 131 |
| 12 | Velocidad rpm | 3480 | | Diseñado mm 131 |
| 13 | No. of Stage | 1 | | Min. mm 131 |
| 14 | Conexión Lado aspiración | EN 1092-2 | Caudal | Operating m³/h |
| 15 | Conexión Lado impulsión | EN 1092-2 | | Max- m³/h 86 |
| 16 | Max Working Pressure psi | 145.03 | | Min- m³/h 30 |
| 17 | cabeza de cierre psi | 46.30 | Altura de impulsión | Operating m |
| 18 | Peso total lb | See the table of "Dimensions". | | - (Qmax.) m 16.8 |
| 19 | Potencia absorbida hp | | | - (Qmin.) m 31.9 |
| 20 | | | Potencia del eje a máx. hp | 7.57 |
| 21 | NPSH requerido (bomba) m | | Eficiencia % | |

Materiales

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

Motor

| | | | | |
|----|---------------------|-------------------------------------|------------------------|------|
| 28 | Fabricante | EPE Standard | Clase de aislamiento | F |
| 29 | Tipo | TEFC_3D 50-125/5.56_380_Three Phase | Fases | 3~ |
| 30 | Ejecución | IE3 / 60 Hz / Pares de polos 1 | Tamaño de construcción | |
| 31 | Potencia hp | 7.3756 | Peso lb | |
| 32 | Nº de polos | 2 | Tensión eléctrica V | 380 |
| 33 | Velocidad rpm | 3500 | Corriente eléctrica A | 10.1 |
| 34 | Grado de protección | IP 55 | | |
| 35 | | | | |

Remarks

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| |
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Performance Curve

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Datos solicitados

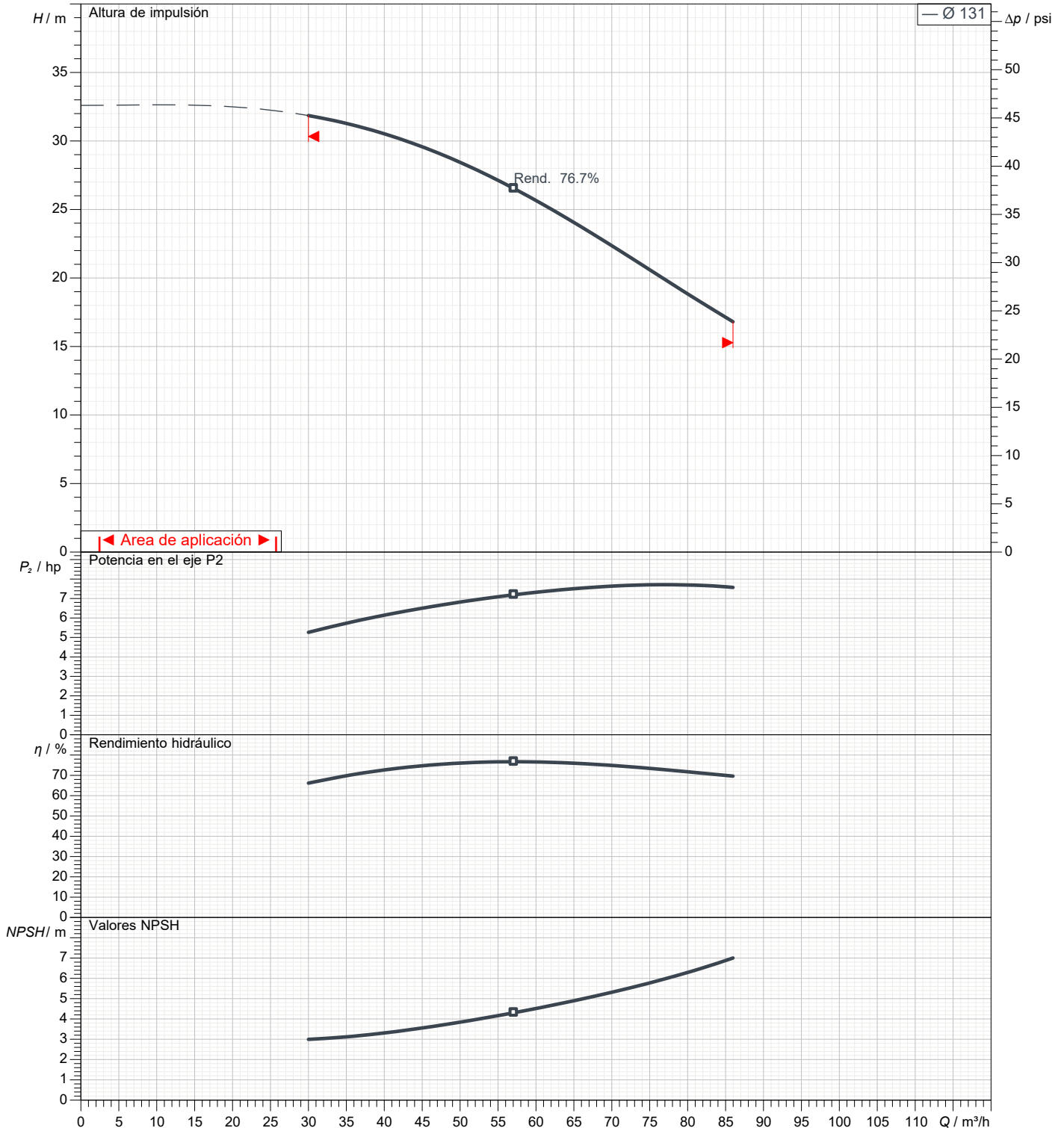
| | | | |
|---|---------------------|------|--|
| 1 | Caudal | m³/h | |
| 2 | Altura de impulsión | m | |
| 3 | Altura geodésica | m | |

Bomba

| | | | | | |
|--------------------------------|------|-------------|-----------|-----|------|
| Operating flow | m³/h | Frecuencia | Hz | 60 | |
| Operating head | m | Nº de polos | | 2 | |
| Diámetro del impulsor diseñado | mm | 131 | Velocidad | rpm | 3480 |

Test standard: ISO 9906:2012 - Grade3B

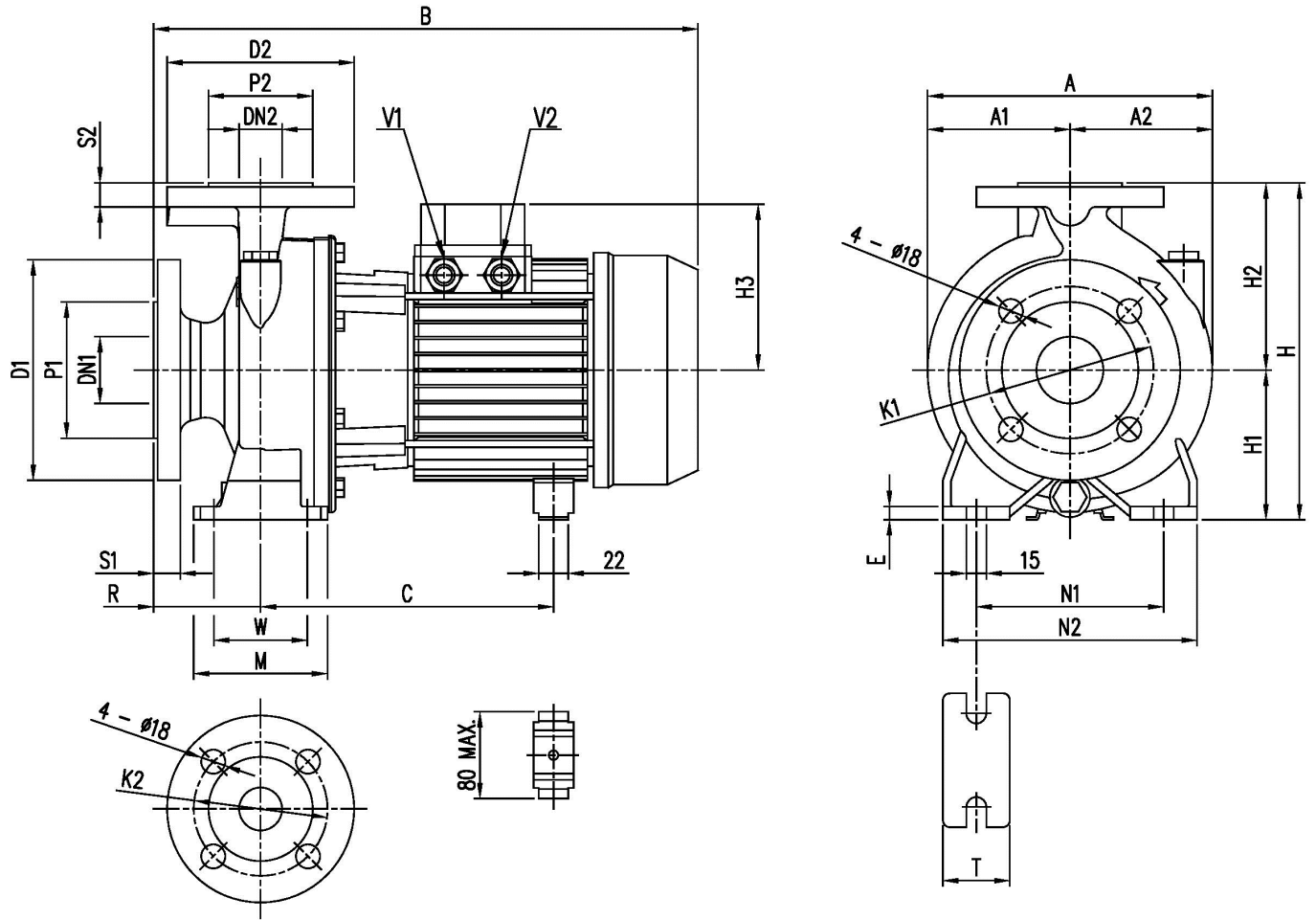
agua; 20°C; 998.3kg/m³; 1mm²/s



Dimensiones

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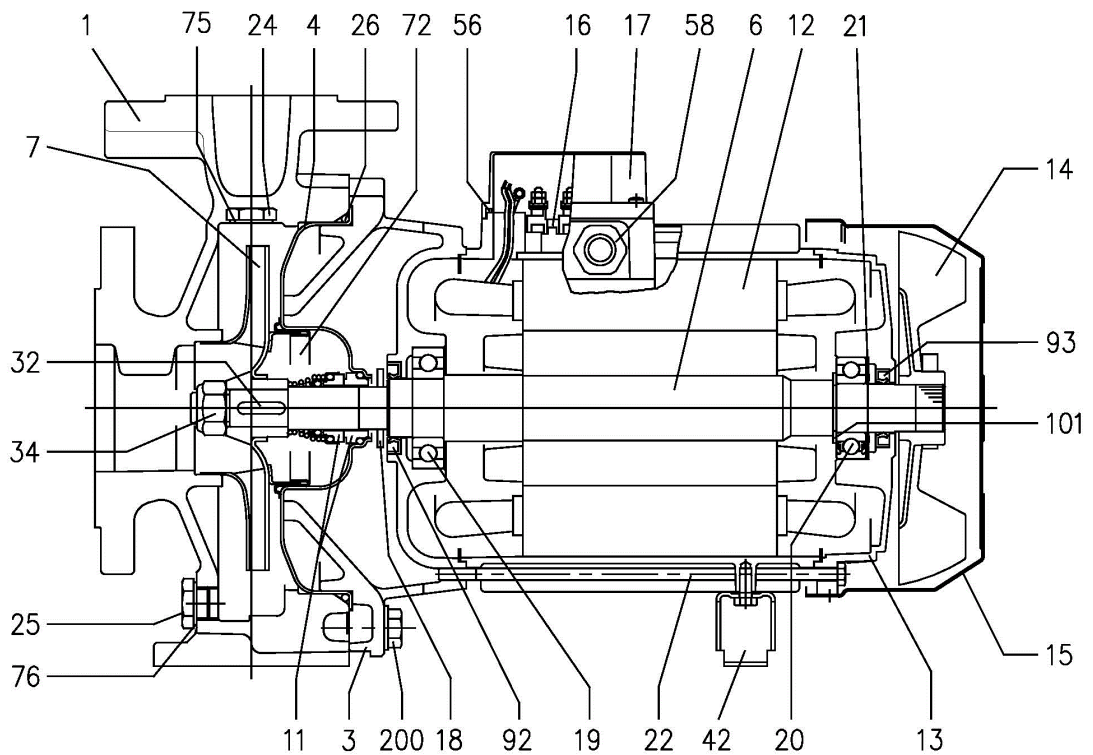
| Dimensiones | | mm | | |
|-------------|---------|-----|------------|-----------|
| 1 | A | 254 | H1 | 132 |
| 2 | A1 | 127 | H2 | 160 |
| 3 | A2 | 127 | H3 | 150 |
| 4 | B | 539 | M | 100 |
| 5 | C | 275 | N1 | 190 |
| 6 | Dia D1 | 185 | N2 | 240 |
| 7 | Dia D2 | 165 | R | 100 |
| 8 | Dia DN1 | 65 | S1 | 20 |
| 9 | Dia DN2 | 50 | S2 | 20 |
| 10 | Dia K1 | 145 | T | 50 |
| 11 | Dia K2 | 125 | V1 | [PG 13].5 |
| 12 | Dia P1 | 122 | V2 | M25x1.5 |
| 13 | Dia P2 | 102 | W | 70 |
| 14 | E | 10 | Weight P&M | 56.2 kg |
| 15 | H | 292 | | |

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Construcción

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Construcción

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| N° | PART NAME | MATERIAL | DIMENSIONS | STANDARD | Q.TY |
|-----|---|--|---|-------------------------------|---------------|
| 1 | Casing | Cast iron EN-GJL-250-EN 1561 | | | 1 |
| 3 | Motor bracket [1] | - | | | 1 |
| 4 | Casing cover | EN 1.4301 (AISI 304) | | | 1 |
| 6 | Shaft with rotor - Wet extension | EN 1.4301 (AISI 304) | | | 1 |
| 7 | Impeller [2] | - | | | 1 |
| 11 | Mechanical seal [3] | - | | | 1 |
| 12 | Motor frame with stator | - | | | 1 |
| 13 | Motor cover | Aluminium | | | 1 |
| 14 | Fan | PA | | | 1 |
| 15 | Fan cover | Fe P04 Galvanized | | | 1 |
| 16 | Terminal | - | | | 1 |
| 17 | Terminal box cover | Aluminium (three phase version) | | | 1 |
| 18 | Splash ring Up to 11 kW | NBR | 40x21.5x2 | EBARA DRAWING | 1 |
| 19 | Bearing | - | | | 1 |
| 20 | Bearing | - | | | 1 |
| 21 | Adjusting ring | Steel C70 | | | 1 |
| 22 | Tie rod Up to 3 kW For 4 - 5.5 - 7.5 kW 9.2 e 11kW | Fe 42 Galvanized | M5 M6 M8 | EBARA DRAWING | 4 |
| 24 | Priming plug | Brass | G 3/8" L=8 | | 1 |
| 25 | Draining plug | Brass | G 3/8" L=8 | | 1 |
| 26 | O-ring 32-125, 40-125 32-160, 40-160, 50-125, 65-125 32-200, 40-200/9.26, 50-160/9.26, 65-160/9.26 | NBR/FPM/EPDM | 158.11x5.34 183.52x5.34 227.96x5.34 | OR 6625 OR 6720 OR 6895 | 1 |
| 32 | Key Up to 3 kW | EN 1.4401 (AISI 316) | A 6x6x25 | UNI 6604 | 1 |
| 34 | Impeller nut Up to 11kW | EN 1.4301 (AISI 304) | M16x1.5 | UNI 7474 | 1 |
| 42 | Foot | Aluminium / Galvanized steel | | EBARA DRAWING | 1 |
| 56 | Box gasket | NBR | | | 1 |
| 58 | Cable gland | - | | | 1 |
| 72 | Casing ring [5] | EN 1.4301 (AISI 304) | | | 1 |
| 75 | Washer | Aluminum | 22x17x1.5 | EBARA DRAWING | 1 |
| 76 | Washer | Aluminum | | | 1 |
| 92 | Lip seal Up to 3kW From 4 to 7.5 kW From 9.2 kW to 11 kW | - | 25x40x7 30x47x7 40x55x7 | DIN 3760 without spring | 1 |
| 93 | Lip seal Up to 4 kW From 5.5 kW to 7.5 kW From 9.2 kW to 11 kW | - | 25x40x7 30x47x7 40x55x7 | DIN 3760 without spring | 1 |
| 101 | Snap ring [6] | Carbon tool steels TC 80 | Ø 40 | UNI 7435 | 1 |
| 200 | Screw 32-125, 40-125 32-160, 40-160, 50-125, 65-125 32-200, 40-200/9.26, 50-160/9.26, 65-160/9.26 | Gv. Steel 8.8 strenght class ISO 898-1 | M 8x30 M 10x35 | UNI 5739 | 8 10 12 |
| 235 | Washer 32-125, 40-125 32-160, 40-160, 50-125, 65-125 32-200, 40-200/9.26, 50-160/9.26, 65-160/9.26 | Galvanized Steel | 8.4x17 10.5x21 | UNI 6592 | 8 10 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] See **CONSTRUCTION 3**

[4] See **CONSTRUCTION 3**, "O-ring" column

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

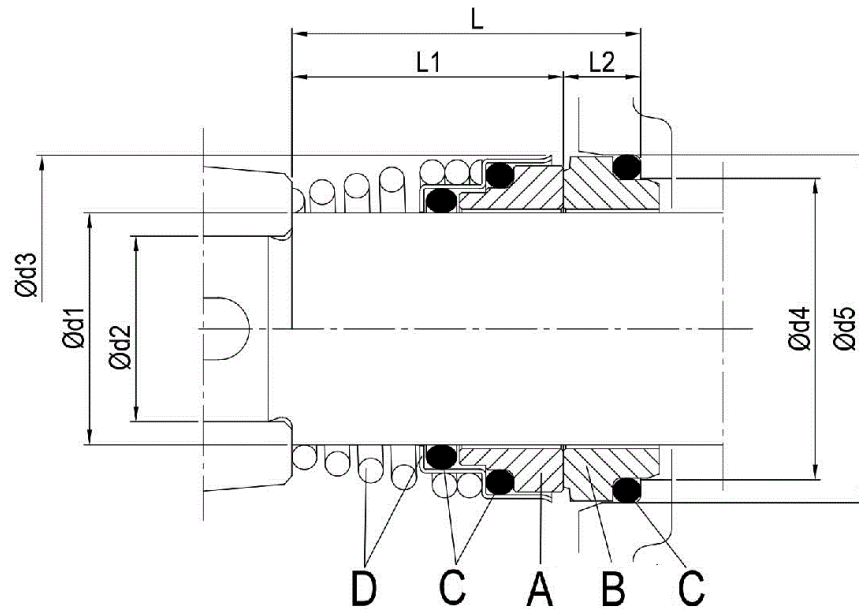
[6] Only for pumps with 9.2 and 11 kW motor

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| Pump type | Dimensions [mm] | | | | | | | | | Material Standard | | | |
|---|-------------------|----|----|----|----|------|------|----|-----------------------|---------------------------|-------------|-------------------------|--|
| | d1 | d2 | d3 | d4 | d5 | L | L1 | L2 | A Rotary seal ring | B Stationary seal ring | C O-ring | D Frame + Spring | |
| 32-125/160/200 40-125/160/200 50-125/160 65-125 65-160/9.26-116 | 22 | 19 | 38 | 31 | 37 | 37.5 | 27.5 | 10 | Ceramic | Carbon | NBR | EN 1.4301 (AISI 304) | |