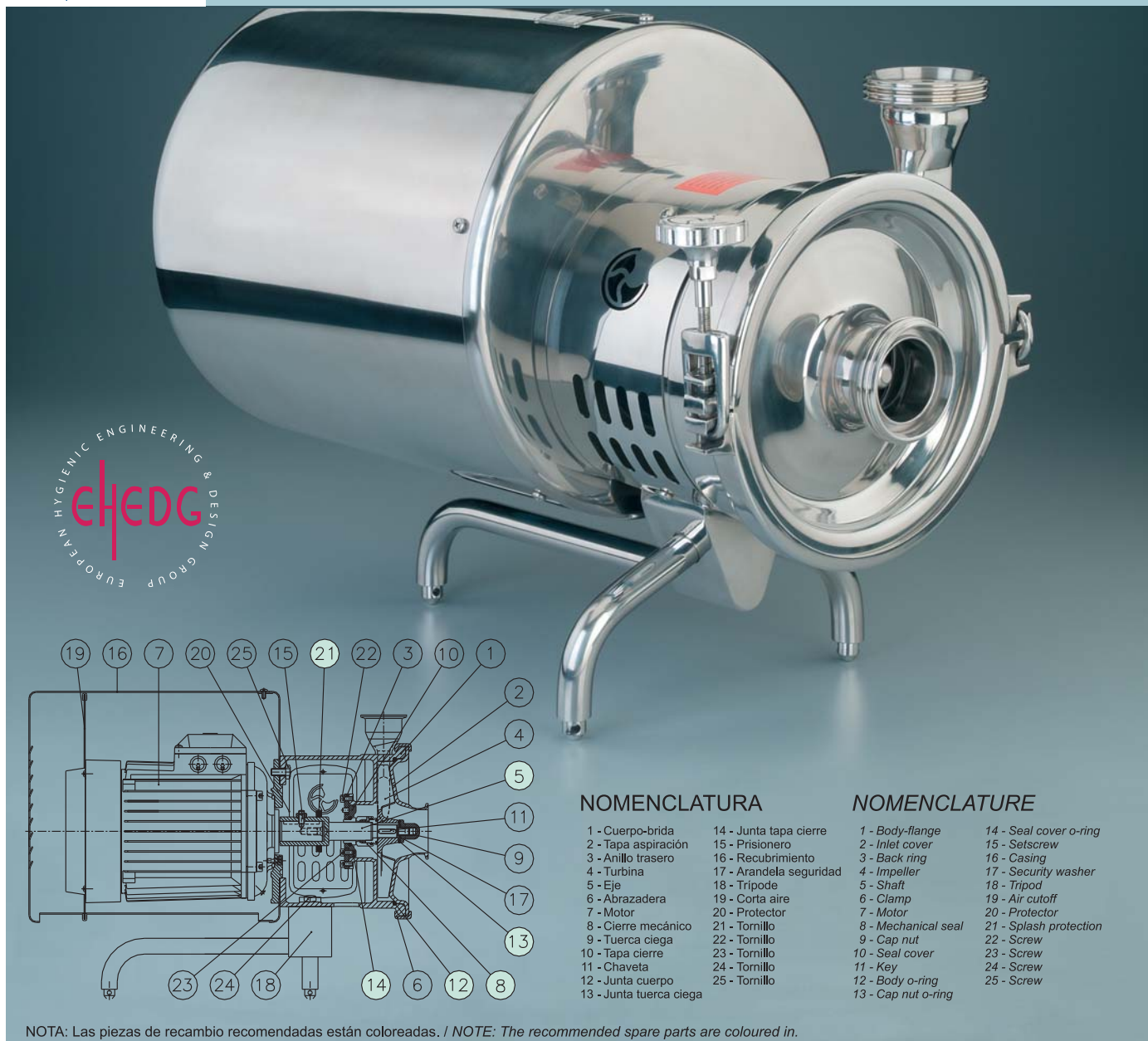




## NOMENCLATURA

- |                         |                         |
|-------------------------|-------------------------|
| 1 - Cuerpo-brida        | 14 - Junta tapa cierre  |
| 2 - Tapa aspiración     | 15 - Prisionero         |
| 3 - Anillo trasero      | 16 - Recubrimiento      |
| 4 - Turbina             | 17 - Arandela seguridad |
| 5 - Eje                 | 18 - Tripode            |
| 6 - Abrazadera          | 19 - Corta aire         |
| 7 - Motor               | 20 - Protector          |
| 8 - Cierre mecánico     | 21 - Tornillo           |
| 9 - Tuerca ciega        | 22 - Tornillo           |
| 10 - Tapa cierre        | 23 - Tornillo           |
| 11 - Chaveta            | 24 - Tornillo           |
| 12 - Junta cuerpo       | 25 - Tornillo           |
| 13 - Junta tuerca ciega |                         |

## NOMENCLATURE

- |                     |                        |
|---------------------|------------------------|
| 1 - Body-flange     | 14 - Seal cover o-ring |
| 2 - Inlet cover     | 15 - Setscrew          |
| 3 - Back ring       | 16 - Casing            |
| 4 - Impeller        | 17 - Security washer   |
| 5 - Shaft           | 18 - Tripod            |
| 6 - Clamp           | 19 - Air cutoff        |
| 7 - Motor           | 20 - Protector         |
| 8 - Mechanical seal | 21 - Splash protection |
| 9 - Cap nut         | 22 - Screw             |
| 10 - Seal cover     | 23 - Screw             |
| 11 - Key            | 24 - Screw             |
| 12 - Body o-ring    | 25 - Screw             |
| 13 - Cap nut o-ring |                        |

NOTA: Las piezas de recambio recomendadas están coloreadas. / NOTE: The recommended spare parts are coloured in.

## CARACTERÍSTICAS TÉCNICAS

Caudal.....  $Q = 1$  a  $120 \text{ m}^3/\text{h}$   
 Altura manométrica.....  $H = 5$  a  $85 \text{ mca}$   
 Motores.....  $P = 0,5$  a  $30 \text{ hp}$   
 (0.37 a 22 kW)  
 Temperatura máxima.....  $T = 180^\circ\text{C}$   
 Viscosidad máxima.....  $V = 300 \text{ cP}$   
 Material..... AISI-316

## DESCRIPCIÓN

Bomba centrífuga sanitaria para líquidos alimenticios y farmacéuticos en carga, con certificado EHEDG (European Hygienic Equipment and Design Group) nº 200706. PATENTADA (Patente de invención nº 200402698 y patente europea "EPO" en trámite). La bomba LACTIC es el resultado de la evolución de BOMINOX en la fabricación de bombas sanitarias para la industria alimenticia, representada actualmente por la bomba SANIX. Se ha intentado hacer una bomba con un diseño totalmente nuevo para adaptarlo a las normas europeas EHEDG.

- Cuerpo-brida en microfundición de acero inoxidable AISI-316 de alta calidad, que como principal novedad incluye la impulsión de la bomba y el alojamiento de la junta y que por tanto simplifica la parte que proporciona solidez al conjunto.
- Solidez elevada.
- Facilidad de limpieza.
- Rendimiento considerable.
- Simplicidad de mantenimiento.
- Posible salida para el drenado de líquidos.
- Tapa bomba en chapa estampada de acero inoxidable AISI-316 de importante grosor, mecanizada y ajustada, la cual incluye la aspiración de la bomba. Permite efectuar un có-

modo mantenimiento.

- Turbina abierta de acero inoxidable AISI-316 de diseño sanitario y donde se ha tenido en cuenta un alabe que evita el castigo del líquido a vehicular tratándolo con gran suavidad.
- Eje estandarizado de acero inoxidable AISI-316, sobredimensionado y que permite adaptar distintos tipos de cierres mecánicos. Se ha diseñado para aplicación de medidas DIN.
- Tuerca ciega sanitaria de acero inoxidable AISI-316 que incluye una fijación interior por arandela deformable y junta de estanqueidad sanitaria.
- Cierre mecánico sanitario adaptado para cualquier aplicación farmacéutica o alimenticia de absoluta higiene.
- Abrazadera de microfundición de acero inoxidable AISI-304 de elevada resistencia y máxima seguridad, siendo imposible su apertura involuntaria.
- Tapa cierre mecánico intercambiable con un especial sistema de extracción o revisión del cierre mecánico.
- Protector seguridad brida en acero inoxidable AISI-304 que permite la inspección ocular del cierre mecánico o eje.
- Tripode de acero inoxidable AISI-304 graduable con un sistema especial de regulación en los pivotes.
- Motor IEC IP-55 de primeras marcas.
- Recubrimiento motor de acero inoxidable AISI-304. Ventilado. Conexión eléctrica dentro del recubrimiento estanco.
- Equipada con conexiones CLAMP (ISO-2852) o FIL (ISO-2853).

**APLICACIONES**  
 Industria láctea, farmacéutica, alimenticia, etc.

## TECHNICAL SPECIFICATIONS

Flow rate.....  $Q = 1$  to  $120 \text{ m}^3/\text{h}$   
 Total head.....  $H = 5$  to  $85 \text{ mwc}$   
 Motors.....  $P = 0,5$  to  $30 \text{ hp}$   
 (0.37 to 22 kW)  
 Maximum temperature.....  $T = 180^\circ\text{C}$   
 Maximum viscosity.....  $V = 300 \text{ cP}$   
 Material..... AISI-316

## DESCRIPTION

Sanitary centrifugal pump for food and pharmaceutical liquids, with EHEDG (European Hygienic Equipment and Design Group) certificate nº 200706. PATENTED (Invention patent nº. 200402698 and European patent "EPO" in process). The LACTIC pump is the result of the evolution of BOMINOX in the production of sanitary pumps for the food industry, currently represented by the SANIX-01 pump. We have tried to create a pump with a brand new design in order to adapt it to the european standard EHEDG.

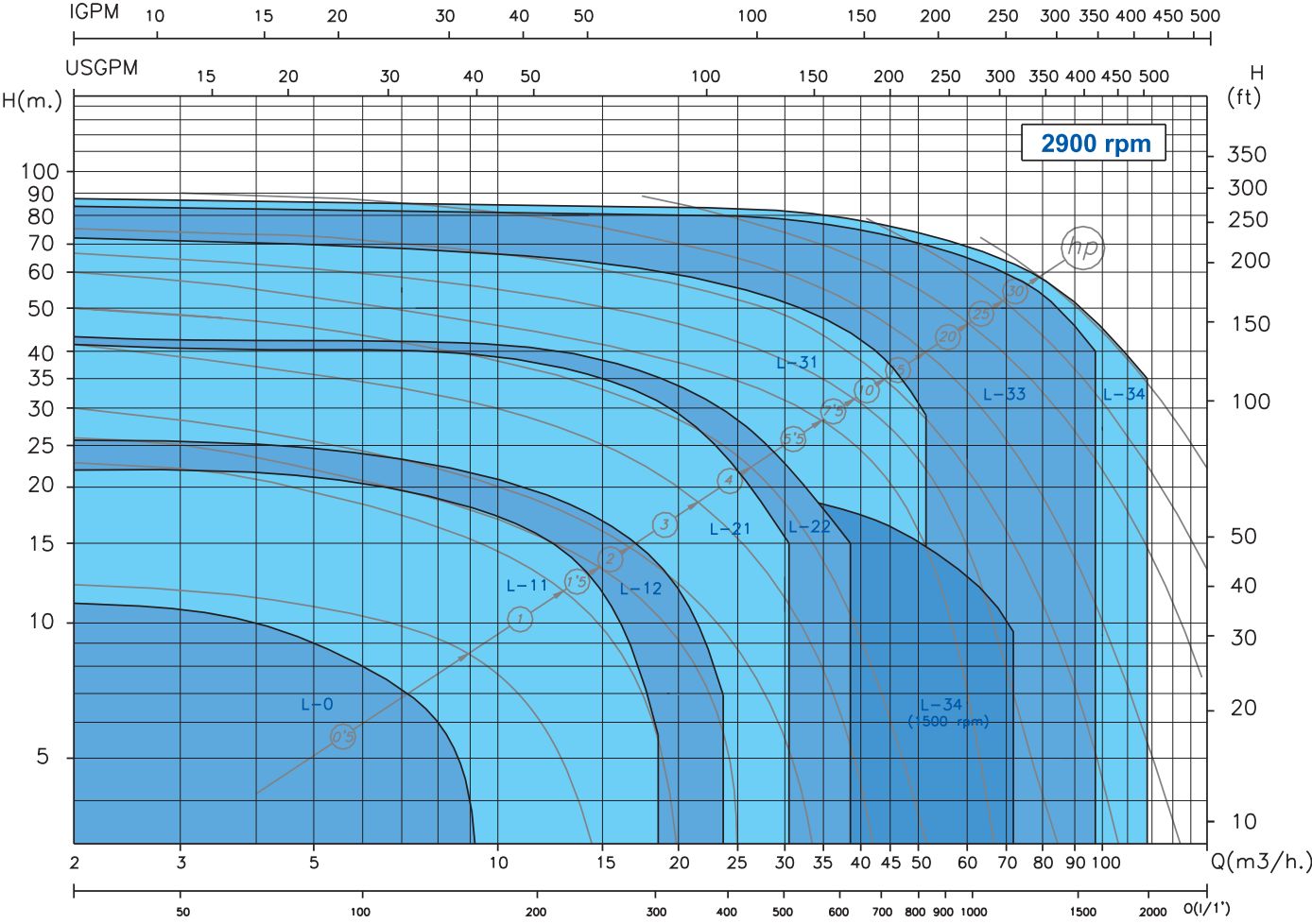
- Body-flange in high quality AISI-316 stainless steel micro-fusion, that, as a main novelty, includes the pump thrust and the placing of the gasket thus simplifying the part that provides strength to the set.
- High solidity.
- Easy cleaning.
- Substantial performance.
- Simple maintenance.
- Possible liquid drainage port.
- Pump cover in AISI-316 stainless steel printed plate of important thickness, and it is mechanized and adjusted, including the as-

piration of the pump. It allows an easy maintenance.

- AISI-316 stainless steel open impeller with a sanitary design and blades no to punish the liquid treating it with great smoothness. High performance.
- AISI-316 stainless steel standardized shaft, it is extra large and allows different types of mechanical seals. It has been designed for application of the DIN measures.
- AISI-316 stainless steel sanitary cap nut that includes an interior fixation by deformable washer and a sanitary o-ring.
- Sanitary mechanical seal adaptable for any absolutely hygienic pharmaceutical or food-grade applications.
- Clamp in micro-fusion AISI-304 stainless steel of high resistance and maximum safety, being impossible its involuntary opening.
- Interchangeable mechanical seal cap with a special extraction system or revision of the mechanical seal.
- AISI-304 stainless steel flange security protector that allows an ocular inspection of the mechanical seal or shaft.
- AISI-304 stainless steel adjustable tripod with a special regulation system in the pivots.
- IEC IP-55 motor of first trademarks.
- Stainless steel motor casing. Ventilated.
- Electrical connections inside sealed housing.
- Fitted with CLAMP (ISO-2852) or FIL (ISO-2853) connections.

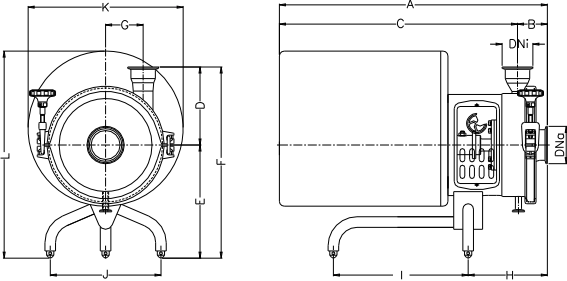
**APPLICATIONS**  
 Milk, beer, wine, water, juices, syrups and whey etc.

CURVAS CARACTERÍSTICAS / CHARACTERISTIC CURVES



NOTA: Estas curvas se entienden para liquido no viscoso de densidad 1 cST. / NOTE: The curves are understood to be for non-viscous liquids with a density of 1 cST.

DIMENSIONES / DIMENSIONS



| TIPO<br>TYPE | MOTOR / MOTOR  |          |           |      | DIMENSIONES / DIMENSIONS (mm) |      |     |     |     |     |     |     |     |         |     |            |            |            | PESO<br>WEIGHT<br>(kg) |     |          |            |            |          |     |     |            |            |            |         |
|--------------|----------------|----------|-----------|------|-------------------------------|------|-----|-----|-----|-----|-----|-----|-----|---------|-----|------------|------------|------------|------------------------|-----|----------|------------|------------|----------|-----|-----|------------|------------|------------|---------|
|              | TAMAÑO<br>SIZE | hp       | kW        | rpm  | A                             | B    | C   | D   | E   | F   | G   | H   | I   | J       | K   | L          | DNa        | DNi        |                        |     |          |            |            |          |     |     |            |            |            |         |
| L-0          | 71             | 0.5-0.75 | 0.37-0.55 | 3000 | 391                           | 53   | 338 | 89  | 137 | 226 | 38  | 121 | 195 | 160     | 223 | 284        | CLAMP 1"   | CLAMP 1"   | 13-14                  |     |          |            |            |          |     |     |            |            |            |         |
| L-11         | 71             | 0.5-0.75 | 0.37-0.55 | 3000 | 433                           | 58   | 375 | 127 | 175 | 302 | 55  | 146 | 225 | 190     | 223 | 311        | CLAMP 1.½" | CLAMP 1.½" | 19-20                  |     |          |            |            |          |     |     |            |            |            |         |
|              | 80             | 1-1.5    | 0.75-1.1  |      | 430                           | 55   | 375 |     |     |     |     | 223 |     |         | 311 | CLAMP 1.½" | CLAMP 1.½" | 22-24      |                        |     |          |            |            |          |     |     |            |            |            |         |
| L-12         | 80             | 1-1.5    | 0.75-1.1  |      | 470                           |      | 415 |     |     |     |     | 143 |     |         | 268 | 344        | CLAMP 2"   | CLAMP 1.½" | 28-31                  |     |          |            |            |          |     |     |            |            |            |         |
|              | 90             | 2-3      | 1.5-2.2   |      | 504                           |      | 63  |     |     |     |     |     |     |         | 441 | 165        | 280        | 230        | 284                    | 396 | CLAMP 2" | CLAMP 2"   | 32-35      |          |     |     |            |            |            |         |
| L-21         | 90             | 2-3      | 1.5-2.2   | 558  | 495                           | 162  |     | 235 | 397 | 78  | 166 | 280 | 322 | 430     | 42  |            |            |            |                        |     |          |            |            |          |     |     |            |            |            |         |
|              | 100            | 4        | 3         | 559  | 64                            |      |     |     |     |     |     |     | 495 | 355     | 466 |            |            |            | 378                    | 466 | 378      | 528        | CLAMP 2.½" | CLAMP 2" | 49  |     |            |            |            |         |
|              | 112            | 5.5      | 4         |      |                               |      |     |     |     |     |     |     | 644 |         |     |            |            |            |                        |     |          |            |            |          | 580 | 500 | 581        | 127-138    |            |         |
| L-22         | 100            | 4        | 3         |      |                               | 3000 | 695 | 72  | 623 | 210 | 315 | 525 | 108 |         |     | 210        | 420        | 320        |                        |     |          |            |            |          | 435 | 581 | CLAMP 2.½" | CLAMP 2.½" | 80-85      |         |
|              | 112            | 5.5      | 4         | 850  | 778                           |      | 435 |     | 581 |     |     |     |     | 127-138 |     |            |            |            |                        |     |          |            |            |          |     |     |            |            |            |         |
| L-31         | 132            | 7.5-10   | 5.5-7.5   | 848  | 70                            |      | 778 | 210 | 315 |     |     |     |     | 525     | 108 | 209        | 500        | 320        | 435                    | 581 | CLAMP 3" | CLAMP 2.½" | 128-139    |          |     |     |            |            |            |         |
|              | 160M           | 15-20    | 11-15     | 893  |                               |      | 823 |     |     |     |     |     |     |         |     |            |            |            |                        |     |          |            | 149        |          |     |     |            |            |            |         |
| L-33         | 160M           | 15-20    | 11-15     | 883  |                               | 55   | 778 |     |     | 235 | 315 | 550 | 92  |         |     |            |            |            |                        |     |          |            | 194        | 500      | 320 | 435 | 581        | CLAMP 4"   | CLAMP 2.½" | 128-139 |
|              | 160L           | 25       | 18.5      | 883  |                               |      | 778 |     |     |     |     |     |     |         |     |            |            |            |                        |     |          |            |            |          |     |     |            |            |            | 149     |
| L-34         | 160M           | 15-20    | 11-15     | 878  | 1500                          |      | 823 | 235 | 315 |     |     |     |     | 550     | 92  | 194        | 500        | 320        | 435                    | 557 | CLAMP 4" | CLAMP 2.½" |            |          |     |     |            |            |            | 169     |
|              | 160L           | 25       | 18.5      | 593  |                               |      | 55  |     |     |     |     |     |     |         |     |            |            |            |                        |     |          |            |            |          |     |     |            |            |            | 538     |