

Factory-Verified Replacement

MERYDOM VI178B01

Certified for interchange with La Leonessa VI178B01. This document consolidates the public product record, complete published specifications, technical media, source traceability and engineering confirmation notes.

**LEVEL 3 - MERYDOM ENGINEERING VERIFIED**

Reviewed by MERYDOM Engineering Department. Final application approval must confirm loads, duty cycle, mounting rigidity, bolt capacity, lubrication and operating conditions.

MERYDOM MODEL  
VI178B01

SERIES  
2SI Series

OVERALL OD  
1,780 mm

OVERALL HEIGHT  
144 mm

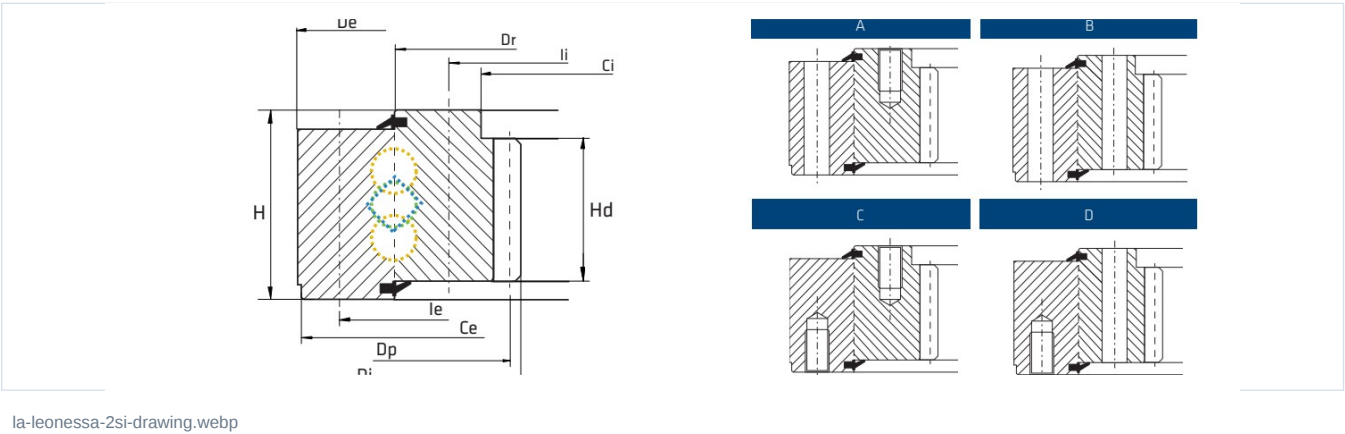
REFERENCE  
La Leonessa VI178B01

STRUCTURE  
Industrial Hydraulic Pump

OVERALL ID  
1,382 mm

GEAR  
Internal

Published Technical Drawing



Complete Product Data

All values below are generated from the current public verified replacement record. Source values are retained and metric references are shown where available.

| MERYDOM CERTIFIED PRODUCT            |                                        |
|--------------------------------------|----------------------------------------|
| Product brand                        | MERYDOM                                |
| MERYDOM model                        | VI178B01                               |
| Certified interchangeable with       | La Leonessa VI178B01                   |
| Verification status                  | Level 3 - MERYDOM Engineering Verified |
| Reviewed by                          | MERYDOM Engineering Department         |
| Public record UID                    | 3QWKZ52LAB2ZLF3BOON34DS32D             |
| MATERIALS                            |                                        |
| Configurable ring material options   | 42CrMo / 50Mn                          |
| Seal material                        | NBR - Nitrile rubber                   |
| Configurable spacer material options | Engineering nylon / Brass              |
| IDENTIFICATION                       |                                        |
| Reference brand                      | La Leonessa                            |
| Reference series                     | 2SI Series                             |
| Reference model                      | VI178B01                               |
| Bearing structure                    | ift s ral bilyal rulman                |
| Gear arrangement                     | ten di li                              |
| DIMENSION                            |                                        |
| Mass (P)                             | 848 kg                                 |
| Overall outside diameter (De)        | 1 780 mm                               |
| Overall inside diameter (Di)         | 1 382 mm                               |

## Complete Product Data

All values below are generated from the current public verified replacement record. Source values are retained and metric references are shown where available.

| DIMENSION (CONTINUED)                       |            |
|---------------------------------------------|------------|
| Overall height (H)                          | 144 mm     |
| Dim Dr (Dr)                                 | 1 604,5 mm |
| MOUNTING                                    |            |
| Outer ring bolt circle (Ie)                 | 1 710 mm   |
| Outer ring mounting-hole count (ne)         | 48         |
| Outer ring mounting-hole specification (Me) | M30        |
| Inner ring bolt circle (Ii)                 | 1 500 mm   |
| Inner ring mounting-hole count (ni)         | 48         |
| Inner ring mounting-hole specification (Mi) | M30        |
| GEAR                                        |            |
| Gear module (m)                             | 12 mm      |
| Gear tooth count (z)                        | 117        |
| Liebherr catalogue gear dimension k*m (km)  | 1 mm       |
| Gear pitch diameter (Dp)                    | 1 404 mm   |
| Gear Tooth Height (Hd)                      | 134 mm     |
| Gear Hardening Indicator (Tempa)            |            |
| PERFORMANCE                                 |            |
| Basic static axial load rating (C0a)        | 11 220 kN  |
| Static tilting moment rating (M0r)          | 4 120 kNm  |
| Normal tooth force (Fnom)                   | 213 kN     |

## Complete Product Data

All values below are generated from the current public verified replacement record. Source values are retained and metric references are shown where available.

| PERFORMANCE (CONTINUED)      |                                                                |
|------------------------------|----------------------------------------------------------------|
| Maximum tooth force (Fmax)   | 426 kN                                                         |
| MISCELLANEOUS                |                                                                |
| Pattern (Schema)             | B                                                              |
| PERFORMANCE RATINGS          |                                                                |
| Rating Axial Static          | 11 220 kN   Not simultaneous with other listed dynamic ratings |
| Rating Tilting Moment Static | 4 120 kNm   Not simultaneous with other listed dynamic ratings |
| Rating Tooth Force Normal    | 213 kN   Not simultaneous with other listed dynamic ratings    |
| Rating Tooth Force Max       | 426 kN   Not simultaneous with other listed dynamic ratings    |
| MOUNTING INTERFACES          |                                                                |
| Outer ring mounting          | 48 holes - 48; M30                                             |
| Inner ring mounting          | 48 holes - 48; M30                                             |
| GEAR INTERFACE               |                                                                |
| Pitch system                 | module                                                         |
| Module reference             | 12 mm                                                          |
| Number of teeth              | 117                                                            |
| SOURCE TRACEABILITY          |                                                                |
| Source document code         | LA-LEONESSA-INTERNAL-GEAR-CATALOG-2017                         |
| Source file                  | SLEWING-BEARINGS-WITH-INTERNAL-GEAR.pdf                        |
| PDF page                     | 12                                                             |
| Printed page                 | 12                                                             |
| Source language              | EN                                                             |

Complete Product Data

All values below are generated from the current public verified replacement record. Source values are retained and metric references are shown where available.

| SOURCE TRACEABILITY (CONTINUED) |                                                                                                                       |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Original unit system            | Metric                                                                                                                |
| PUBLISHED TECHNICAL MEDIA       |                                                                                                                       |
| Load Curve Chart                | la-leonessa-2si-static_load_curve.webp   SHA-256:<br>2d07d5007c414f54f7e8476084d020a30af3af05a960e7f690827754e00574cb |
| Outline Drawing                 | la-leonessa-2si-drawing.webp   SHA-256:<br>3c0269351f1480df2b4130d7fb5c79552a0896a4f557467d7b138da54c54c490           |

Published Load / Performance Chart

Use the published chart as a preliminary selection aid only. The model legend, curve family and source document must be reviewed together with the operating load case.



la-leonessa-2si-static\_load\_curve.webp | SHA-256:  
2d07d5007c414f54f7e8476084d020a30af3af05a960e7f690827754e00574cb

Engineering note: final approval must also consider mounting rigidity, bolt capacity, duty cycle, lubrication, temperature, environment and installation conditions.

## Source and Verification Traceability

### PUBLIC RECORD UID

**3QWKZ52LAB2ZLF3BOON34DS32D**

### SOURCE FILE

**SLEWING-BEARINGS-WITH-INTERNAL-GEAR.pdf**

### VERIFICATION

**Level 3 - MERYDOM Engineering  
Verified**

### SOURCE DOCUMENT

**LA-LEONESSA-INTERNAL-GEAR-CATALOG-2017**

### SOURCE LOCATION

**PDF page 12 | Printed page 12**

### REVIEWED BY

**MERYDOM Engineering Department**

## Engineering Confirmation Boundary

- 1 Confirm the exact model designation and all installation-envelope dimensions.
- 2 Confirm mounting-hole quantity, bolt circle, hole specification, bolt grade and preload.
- 3 Confirm gear arrangement, pitch system, tooth count, backlash and mating-pinion data.
- 4 Confirm axial, radial and moment loads, load combinations, duty cycle and required life.
- 5 Confirm support flatness and stiffness, lubrication, sealing, temperature and environment.
- 6 Final drawing revision, manufacturing tolerances and documentation package are confirmed with the quotation.

### Request Price, Delivery and Final Engineering Confirmation

Email: [jovi@merydom.com](mailto:jovi@merydom.com) | Email: [andi@merydom.com](mailto:andi@merydom.com) | WhatsApp: +86 17705201170

Product page: <https://rotnex.com/tr/urunler/muadil-doner-tabla-rulmanlari/la-leonessa/vi178b01/>

Trademark and legal notice: referenced brand and model names are used only for identification and cross-reference. MERYDOM is an independent manufacturer and is not affiliated with or endorsed by the referenced brand unless expressly stated.