LEO LVR 15-5

Stainless Steel Vertical Multistage Pump - Series LVS/LVR 15 - Data sheet



Technical data of model LVR 15-5

Brand	**LEO**
Model	**LEO LVR 15-5**
Series	**LVS/LVR 15 - Stainless Steel Vertical Multistage Pump**
Motor power (kW)	**4.0**
Power supply	**50 Hz, 3 x 380 V**
Rated flow of series (m3/h)	**15**
Flow range of series (m3/h)	**8-23**
Max. pressure of series (bar)	**23**
Max. pump efficiency of series (%)	**70**
Pipe connection (DIN flange)	**DN50**
Max. inlet pressure (bar)	**10**
Liquid temperature range	**-20 C to +120 C**
Max. ambient temperature	**+40 C**
Liquid pH value	**4 - 10**
Motor	**IE 2 (IE 3 optional), totally enclosed, fan-cooled, IP55**

Application

- Suitable for transferring liquids of low viscosity, non-inflammable and non-explosive, not containing solid particles or fibres
- Water supply and drainage for high-rise buildings, filtration and transfer at waterworks, pressure boosting in main pipe
- Washing and cleaning systems, boiler feeding, cooling water circulation, water treatment systems, auxiliary system, support equipment
- Ultra-filtration systems, reverse-osmosis systems, distillation systems, separators, swimming pools
- Agricultural irrigation: sprinkler irrigation, drip-feed irrigation
- Food and beverage industry
- Fire-fighting system

Operating conditions

- Low viscosity, non-inflammable and non-explosive liquids not containing solid particles or fibers. The liquids must not chemically attack the pump materials. When pumping liquids with a density or viscosity higher than that of water, a motor with a higher output power rating shall be used.
- Liquid temperature: -20 C ~ +120 C
- Flow ranges (LVS/LVR family): 0.7 - 240 m3/h
- Liquid pH value: 4 - 10
- Max. ambient temperature: +40 C
- Max. operation pressure (family): 33 bar
- Altitude: up to 1000 m

Motor

- IE 2 motor (IE 3 motor optional)
- Totally enclosed and fan-cooled
- Protection class: IP55
- Standard voltage: 50 Hz, 1 x 220 V / 3 x 380 V

Ambient temperature

Max. ambient temperature: +40 C. Ambient temperature above 40 C or installation at an altitude of more than 1000 meters above sea level require the use of an oversize motor. Because of low air density and poor cooling effects, the motor output power P2 will be decreased. In such cases, it may be necessary to use a motor with a higher output power rating.

Identification codes

Example LVS 45-10-2-B-K: LVS = series; 45 = rated flow (m3/h); 10 = impeller stages; 2 = small impeller stages; B = AISI316 stainless steel material (omitted for AISI304); K = pipe port code (omitted for DIN flange). LVS: stainless steel wetted parts; LVR: cast iron base and pump cover. Flange codes: A: oval flange; K: clamp connector; G: threaded connector.

Source: LEO catalogue "LVS/LVR Stainless Steel Vertical Multistage Pump" (series LVS/LVR 15). LVR: cast iron base and pump cover.

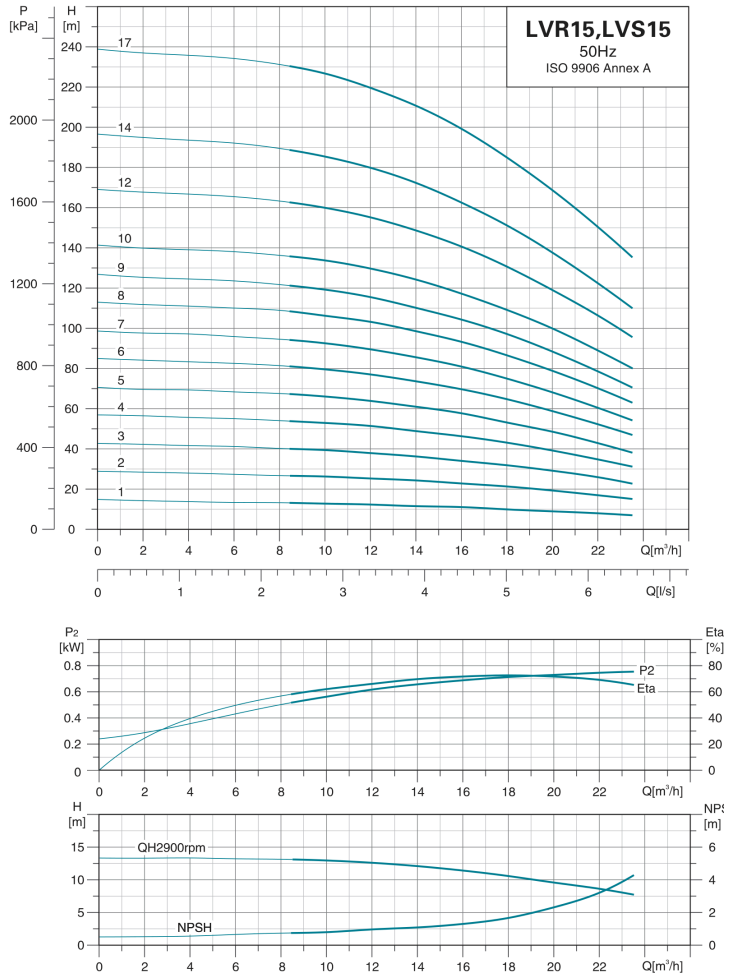
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Hydraulic performance and dimensions - 50 Hz

Hydraulic performance data - model LVR 15-5

MODEL	POWER [kW]	Q [m3/h]	3	6	9	12	15	18	21
15-5	4.0	H (m)	70	68	66	64	58	53	48

Hydraulic performance curves - LVR15, LVS15 (50 Hz, ISO 9906 Annex A)

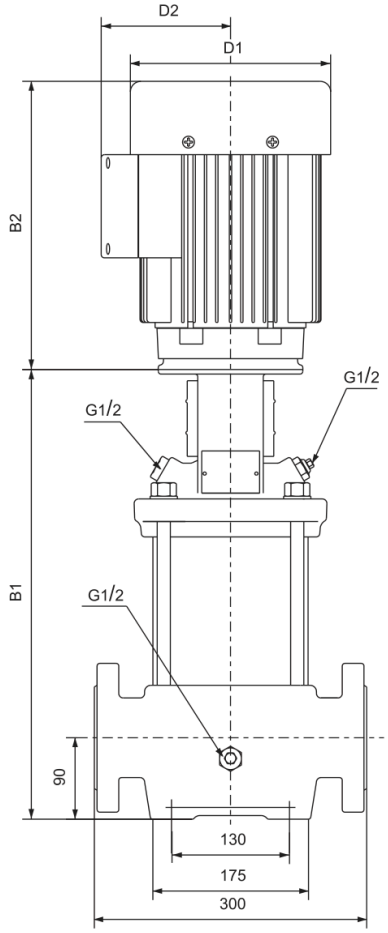


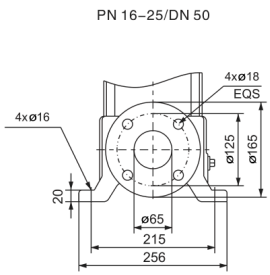
Dimensions - model LVR 15-5 (mm)

MODEL	B1	B1+B2	D1	D2
15-5	555	912	219	169

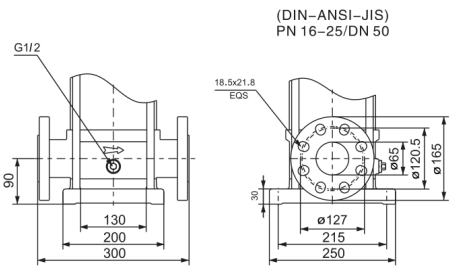
DIN flange DN50 (PN 16-25 / DN50). Dimensions as per the dimension drawing below.

Dimension Drawing





DIN FLANGE(LVR)/F



DIN FLANGE(LVS)/F

Source: LEO catalogue "LVS/LVR Stainless Steel Vertical Multistage Pump" (series LVS/LVR 15). Tolerances to ISO 9906, Annex A.