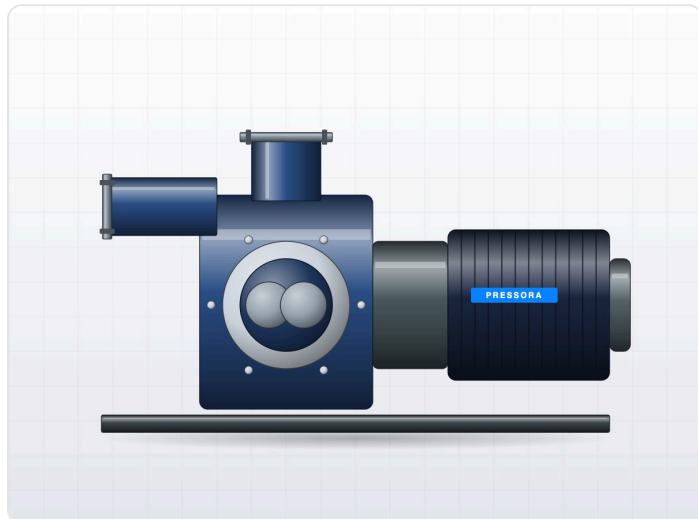


ILLUSTRATIVE DEMONSTRATION DATASHEET — fictional product and data; not for engineering or purchasing use.

# RL-20 Rotary-Lobe Pump

Model RL-20

Rotary-lobe pump for viscous and shear-sensitive products.

FLOW RATE  
**Up to 80** m<sup>3</sup>/hMAX. DIFFERENTIAL  
PRESSURE  
**12** barVISCOSITY  
**Up to  
100,000** mPa·sFLUID TEMPERATURE  
**-10 to 150** °C

## OVERVIEW

The RL-20 uses two counter-rotating lobes in a swept chamber. The pump moves product with low shear and nearly constant flow per revolution, so speed sets the flow.

A front-cover design opens the pumping chamber for cleaning or inspection without pipework removal.

## KEY FEATURES

- Front-loading cover for inspection
- Low-shear, near-linear flow-to-speed
- Reversible flow direction
- Gearbox and motor on common baseplate

## TECHNICAL SPECIFICATIONS

|                  |                            |                            |
|------------------|----------------------------|----------------------------|
| PERFORMANCE      | Flow range                 | 0.5 – 80 m <sup>3</sup> /h |
| PERFORMANCE      | Max. differential pressure | 12 bar                     |
| PERFORMANCE      | Speed range                | 50 – 700 rpm               |
| CONNECTIONS      | Inlet / outlet             | DN 40 – DN 150             |
| DRIVE            | Motor power                | 0.75 – 37 kW               |
| OPERATING LIMITS | Viscosity                  | Up to 100,000 mPa·s        |
| OPERATING LIMITS | Fluid temperature          | -10 to 150 °C              |
| MASS             | Pump with baseplate        | 95 – 620 kg                |

MATERIALS OF CONSTRUCTION

|            |                                     |
|------------|-------------------------------------|
| HOUSING    | Stainless steel 316                 |
| LOBES      | Stainless steel with elastomer coat |
| SHAFT SEAL | Single or flushed mechanical        |
| GEARBOX    | Cast iron, oil-lubricated           |

STANDARDS AND OPERATING CONDITIONS

Design reference: hygienic design principles (illustrative)  
Viscous, shear-sensitive and particulate-bearing products.