

# Hydraulically Driven Liquid Pumps



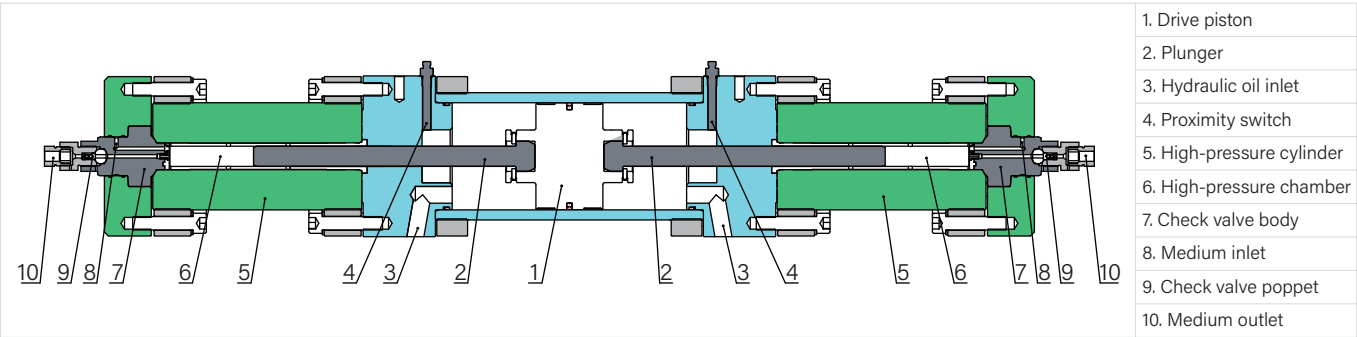
# HiFluid Hydraulically Driven Gas Boosters



HiFluid offers a comprehensive product portfolio, delivering suitable solutions for a wide range of applications worldwide.

The hydraulically driven liquid pump developed and manufactured by HiFluid Industrial uses low-pressure hydraulic oil as the driving source to boost liquid media to the required pressure.

The pump is designed with a standard maximum working pressure of up to 700MPa. For applications requiring higher operating pressures, customized designs can be provided.



## Key Advantages

- Specifically designed for high-pressure liquid applications, suitable for a wide range of liquid media.
- Robust construction, capable of frequent start/stop cycles and continuous heavy-duty operation.
- Special structural separation between the drive side and the pressurization side, preventing cross-contamination of media.
- Maintenance-friendly design, significantly reducing the replacement time of wear parts.
- Excellent main sealing performance with long service life.
- Continuously adjustable flow rate from 0% to 100%.
- Large-bore, fast-acting check valve design for efficient operation.
- Maximum flow rate up to 7.6 L/min.

## Typical Applications

- **HPP (High-Pressure Processing):** Establishes ultra-high pressure during HPP production, providing the required pressure environment for sterilization vessels
- **Isostatic Pressing:** Supplies ultra-high-pressure media to sealed vessels for isostatic pressing applications, creating the necessary confining pressure.
- **High-Pressure Water Jetting:** Provides a high-pressure water source up to 400MPa for water jet cutting processes.
- **High-Pressure Assisted Forming:** Delivers high-pressure, high-flow liquid to assist forming processes, achieving improved forming results.
- **High-Pressure Water Cleaning:** Supplies large-flow, high-pressure water for industrial cleaning operations.
- **Hydrostatic and Burst Testing:** Provides high-pressure liquid media for hydrostatic pressure testing and burst testing applications.

## Parameter dimensions

| Model        | Pressure Ratio | Displacement /Cycle (ml) | Pressure Limit       |        |                     |     | Max. Loop Count (/min) | Max. Flow Rate (L/min) | Connecting Interface |                |                 |                     | Weight (kg) |
|--------------|----------------|--------------------------|----------------------|--------|---------------------|-----|------------------------|------------------------|----------------------|----------------|-----------------|---------------------|-------------|
|              |                |                          | Max. Outlet Pressure |        | Min. Inlet Pressure |     |                        |                        | Drive Port P         | Medium Inlet A | Medium Outlet B | Leakage Test Port Y |             |
|              |                |                          | MPa                  | psi    | MPa                 | psi |                        |                        |                      |                |                 |                     |             |
| HFHL-27-7000 | 1:27           | 350                      | 700                  | 101500 | 0.2                 | 29  | 22                     | 7.6                    | SAE flange 1"        | NPT 1/4"       | U9F             | NPT 1/8"            | 347         |

