HiFluid
Driven by Reliability & Performance

Servo Electric Boosting System

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HiFluid Servo Electric Boosting System

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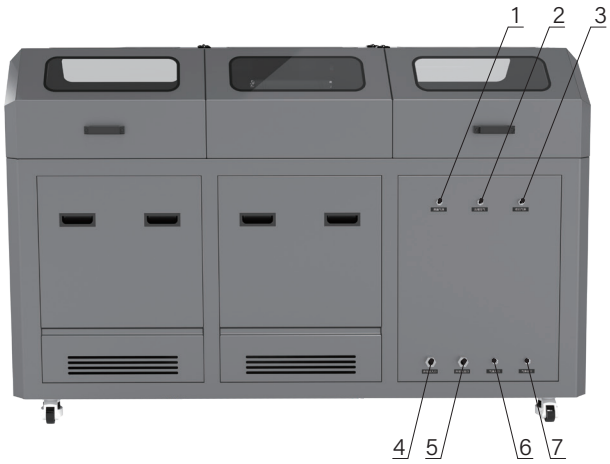
HiFluid offers a comprehensive product portfolio, delivering suitable solutions for a wide range of applications worldwide.

Independently developed and manufactured by HiFluid Industrial, the Servo Electric Gas Booster System operates without a hydraulic power unit or compressed air supply. It adopts direct motor-driven technology combined with an advanced servo control system to efficiently boost gas media, enabling precise control of both pressure and flow.

The system is designed with a standard maximum working pressure of up to 120MPa. For applications requiring higher operating pressures, customized designs can be provided to meet specific process requirements.



1. Leak Port
2. Air Supply
3. Purge Port
4. Cooling Inlet
5. Cooling Outlet
6. Gas Inlet
7. Gas Outlet

Key Advantages

- Specially designed for high-pressure gas applications; compatible with multiple gases.
- Compact footprint, low noise, environmentally friendly, and energy-efficient.
- Intelligent automated control, fully compatible with various communication protocols.
- Equipped with a self-cooling system featuring spiral flow guidance for uniform and efficient heat exchange.
- Optional remote monitoring modules available.
- Excellent primary sealing performance, operates without oil lubrication, and features long maintenance intervals.
- Maintenance-friendly design, significantly reducing seal replacement time.
- Modular design with flexible configurations and diverse options.
- Flow continuously adjustable from 0% to 100%.
- Extremely high power efficiency.

Typical Applications

- **Leak Testing:** Supplies high-pressure gas for airtightness tests to detect leaks in components.
- **Gas Filling:** Enables contamination-free, high-flow gas filling of cylinders, equipment, or systems to achieve required pressure levels.
- **Semiconductor CO_2 Applications:** Semiconductor manufacturing processes such as cleaning, atomization, and etching.
- **Gas-Assisted Molding:** Provides high-pressure, high-flow gas to improve molding processes and product quality.
- **Hot Isostatic Pressing (HIP):** Pressurizes inert gas for HIP furnaces to achieve superior material performance.
- **Chemical Production:** Multi-stage pressurization of ethylene for polymerization in batch and tubular reactors.

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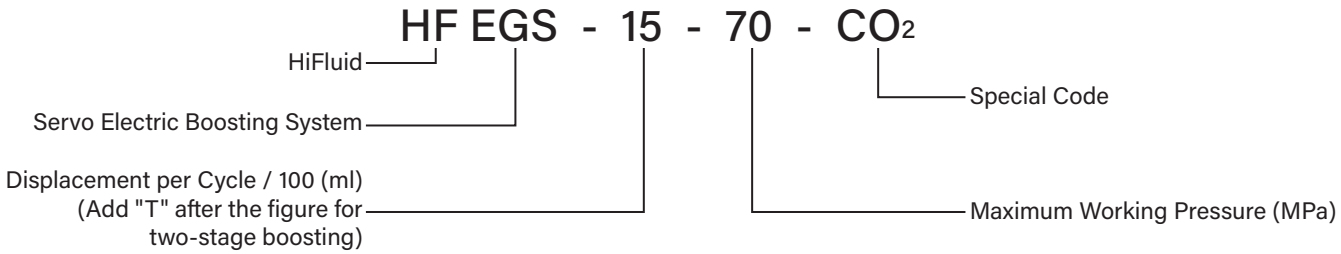
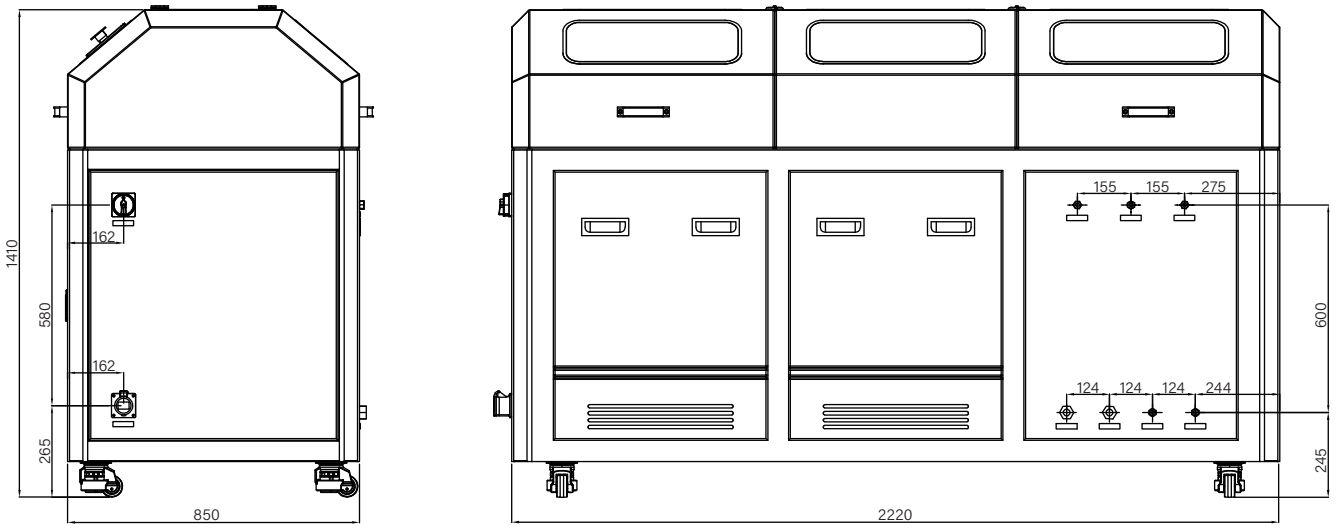
Type Coding



Product Parameters

Type	Model	Displacement /Cycle (ml)	Pressure Limit						40 Times per Minute Typical Flow Rate Reference		
			Max. Outlet Pressure		Min. Inlet Pressure		Max. Inlet Pressure		Inlet Pressure		Flow Rate Nm^3/h
			MPa	psi	MPa	psi	MPa	psi	MPa	psi	
Single-Stage Double-Acting	HFEGS-80-12	8042	12	1740	0.34	50	12	1740	5	725	917
	HFEGS-30-35	3141	35	5075	0.34	50	35	5075	5	725	358
	HFEGS-15-70	1539	70	10150	0.34	50	70	10150	10	1450	351
	HFEGS-10-120	950	120	17400	0.34	50	120	17400	20	2900	433
Double-Stage Single-Acting	HFEGS-40T-35	4020	35	5075	0.34	50	12	1740	5	725	458
	HFEGS-40T-70	4020	70	10150	0.34	50	12	1740	8	1160	733
	HFEGS-40T-120	4020	120	17400	0.34	50	12	1740	10	1450	917
	HFEGS-15T-70	1570	70	10150	0.34	50	35	5075	10	1450	358
	HFEGS-15T-120	1570	120	17400	0.34	50	35	5075	20	2900	716

Structural dimensions



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