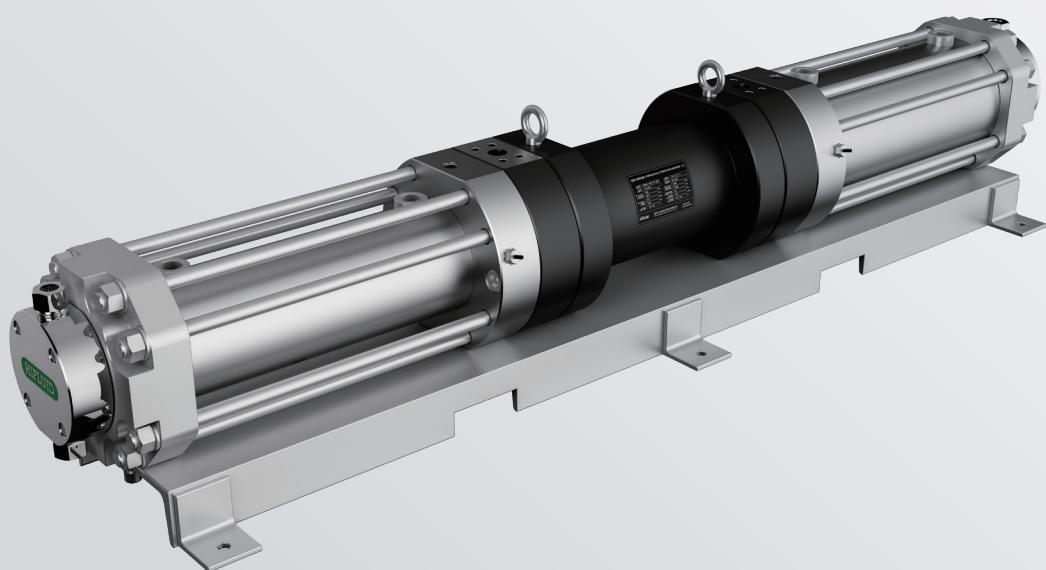


## Hydraulically Driven Gas Boosters

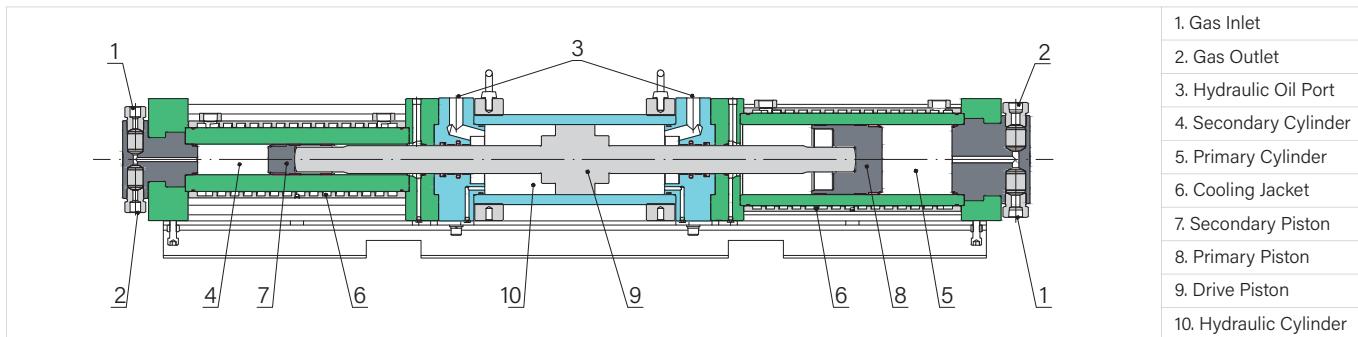


# HiFluid Hydraulically Driven Gas Boosters

HIFLUID

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

Our hydraulically driven gas boosters use low-pressure hydraulic oil as the driving source to compress gases to the required pressure. The standard design supports a maximum working pressure of 120MPa, with customized solutions available for higher pressure requirements.



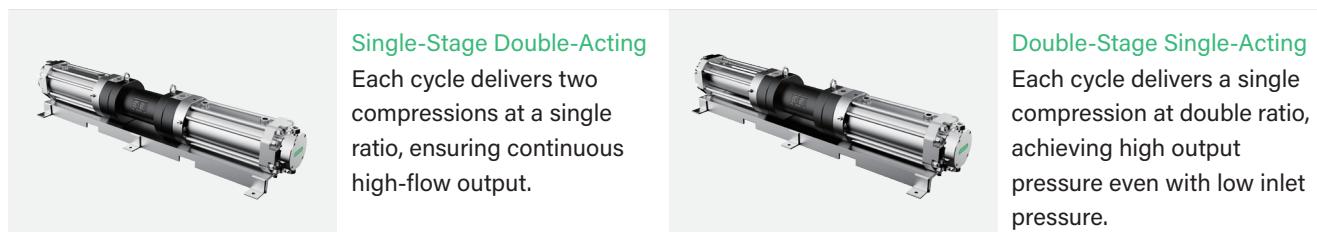
## Key Advantages

- Specially designed for high-pressure gas applications, compatible with multiple gases.
- Hydrogen-compatible: materials used in hydrogen-contacting parts provide excellent resistance to embrittlement.
- Robust construction, ideal for frequent start-stop operations and continuous heavy-duty duty cycles.
- Special structure for both drive and compression ends to prevent gas contamination.
- Spiral-guided cooling design ensures uniform and efficient heat dissipation.
- 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%.
- Suitable for explosion-proof environments.

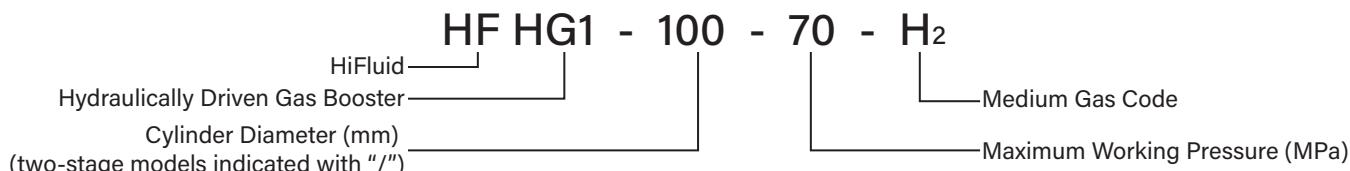
## Typical Applications

- **Leak Testing:** Supplies high-pressure gas for airtightness tests to detect leaks in components.
- **Hydrogen Refueling:** Provides high-flow, contamination-free hydrogen filling into vessels, equipment, or systems to the required pressure.
- **Airbag Inflation:** Charges helium/argon mixed gases into airbag inflators.
- **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.

## Structural Types



## Type Coding



# HiFluid Hydraulically Driven Gas Boosters

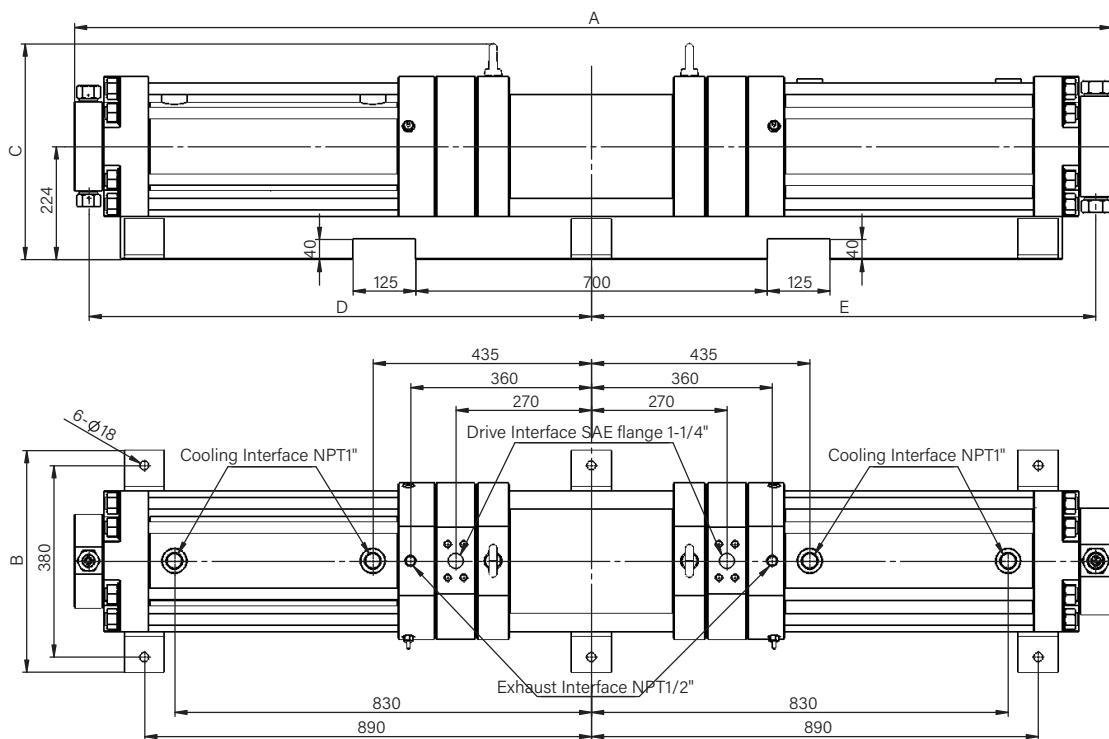
HIFLUID

## Product Parameters

Type	Model	Pressure Ratio	Displacement /Cycle (ml)	Pressure Limit						15 Times per Minute Typical Flow Rate Reference					
				Max. Outlet Pressure		Min. Inlet Pressure		Max. Inlet Pressure		Inlet Pressure		Outlet Pressure		Flow Rate Nm³/h	
				MPa	psi	MPa	psi	MPa	psi	MPa	psi	MPa	psi	MPa	psi
Single-Stage Double-Acting	HFHG1-160-35	1:0.8	12868	35	5075	0.34	50	35	5075	5.5	797.5	22	3190	496	
	HFHG1-100-70	1:2.1	5026	70	10150	0.34	50	70	10150	10	1450	45	6525	339	
	HFHG1-70-120	1:4.4	2463	120	17400	0.34	100	120	17400	42	6090	90	13050	651	
Double-Stage Single-Acting	HFHG1-160/100-70	1:0.8/1:2.1	6434	70	10150	0.69	50	35	5075	3	435	40	5800	135	
	HFHG1-160/70-120	1:0.8/1:4.4	6434	120	17400	0.34	50	35	5075	4	580	90	13050	180	
	HFHG1-100/70-120	1:2.1/1:4.4	2513	120	17400	0.34	50	70	10150	8	1160	90	13050	136	

## Installation Dimensions

Type	Model	Connection Interface				Dimensions(mm)					Weight (kg)
		Drive Port	Medium Inlet	Medium Outlet	A	B	C	D	E		
Single-Stage Double-Acting	HFHG1-160-35	SAE flange 1 1/4" 6000PSI	NPT 1"	NPT 1"	2074	440	430	1005	1005	620	
	HFHG1-100-70	SAE flange 1 1/4" 6000PSI	MP 3/4"	MP 3/4"	2074	440	430	1005	1005	600	
	HFHG1-70-120	SAE flange 1 1/4" 6000PSI	MP 3/4"	MP 3/4"	2060	440	430	1001	1001	580	
Double-Stage Single-Acting	HFHG1-160/100-70	SAE flange 1 1/4" 6000PSI	NPT 1"	MP 3/4"	2074	440	430	1005	1005	610	
	HFHG1-160/70-120	SAE flange 1 1/4" 6000PSI	NPT 1"	MP 3/4"	2067	440	430	1001	1005	600	
	HFHG1-100/70-120	SAE flange 1 1/4" 6000PSI	MP 3/4"	MP 3/4"	2067	440	430	1001	1005	590	





瀚孚工业设备(济南)有限公司  
HiFluid Industrial Equipment (Ji'nan) Co., Ltd.

Factory 102, No.16 Building, No.2222 South Yuqing Road, Changqing, Ji'nan, China  
R&D Center 328 Tiantong Road, 3/F, Landmark Center, Hongkou, Shanghai

Web [www.hifluid.com](http://www.hifluid.com)

E-mail [communication@hifluid.com](mailto:communication@hifluid.com)