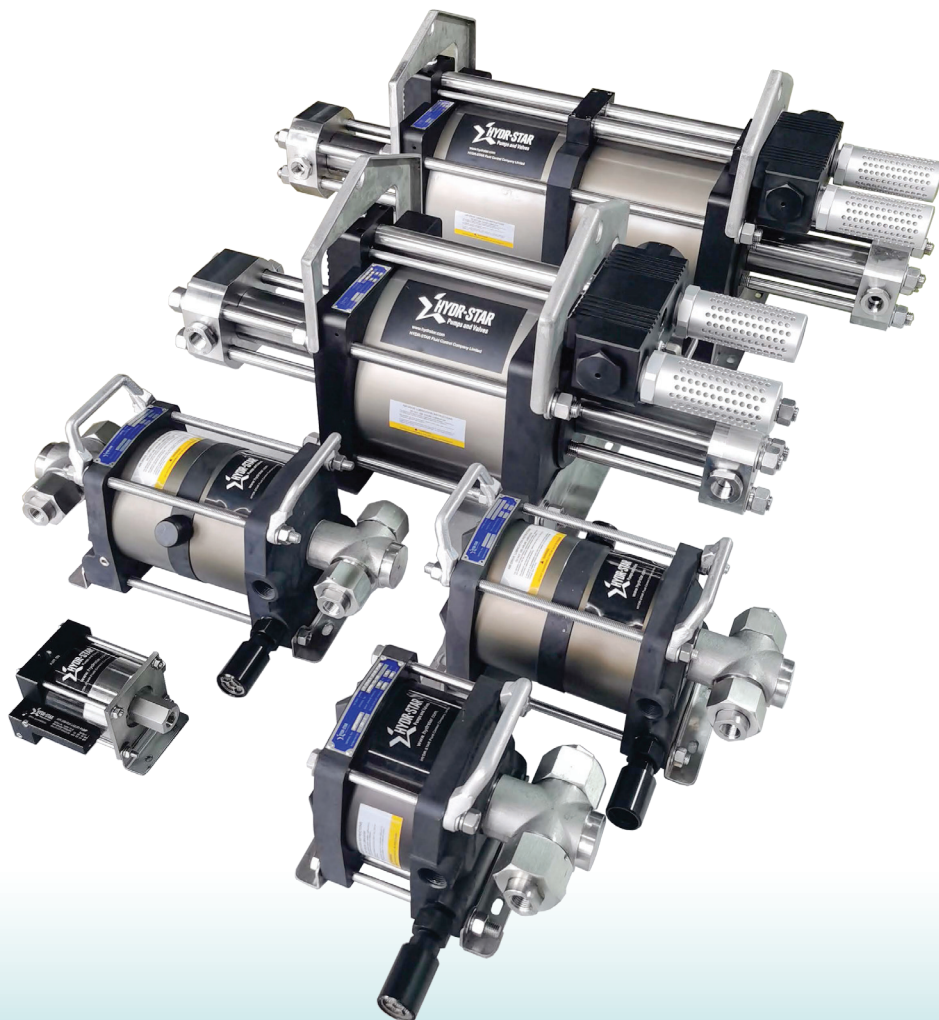


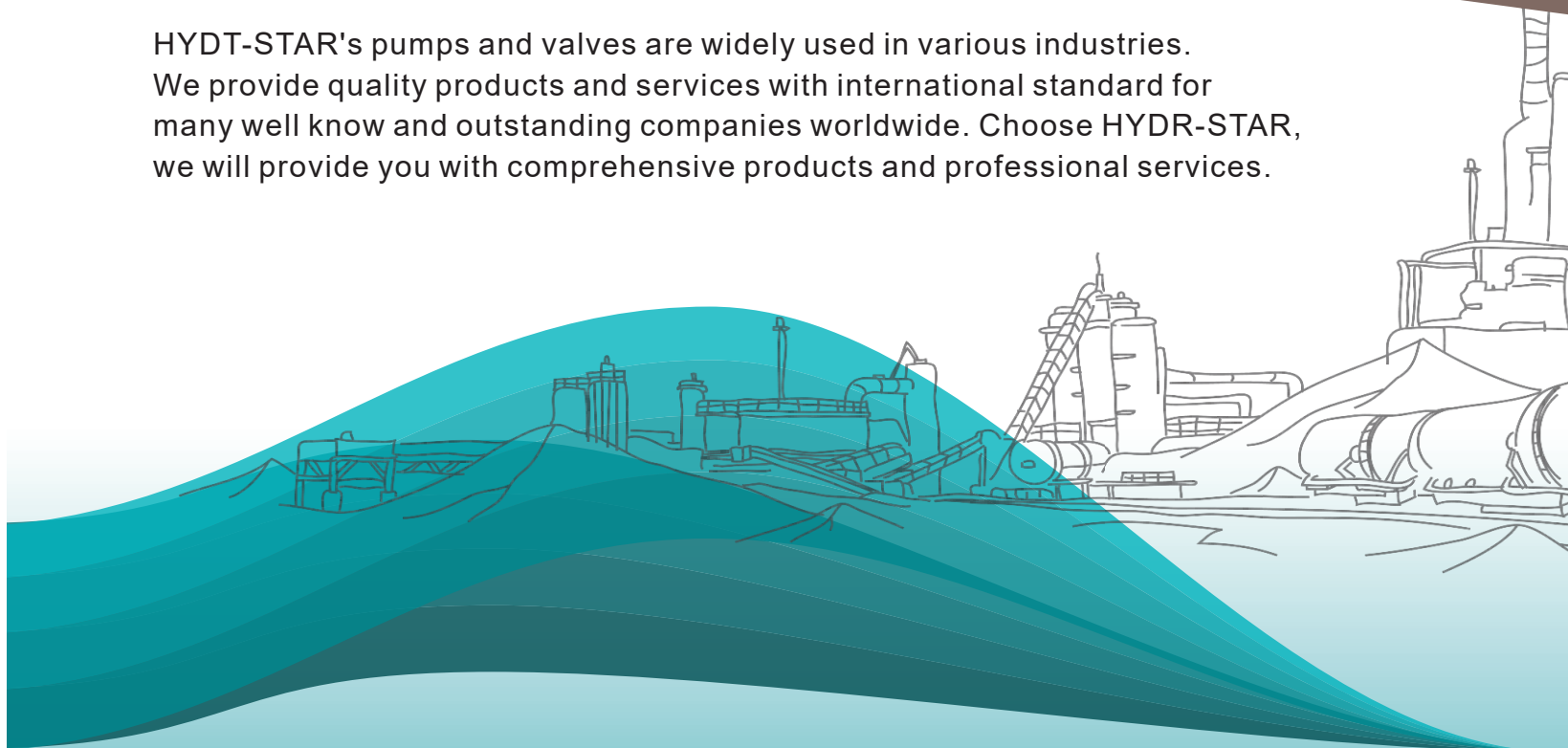


Air driven liquid pump Gas Booster Manual Pump & Electric Pump





HYDR-STAR's pumps and valves are widely used in various industries. We provide quality products and services with international standard for many well know and outstanding companies worldwide. Choose HYDR-STAR, we will provide you with comprehensive products and professional services.



Email: ordre@habuas.com

Contents

OVERVIEW

INTRODUCTION

AHP03 SERIES

Single Drive Single Acting

AHP06 SERIES

Single Drive Single Acting

AHP06 SERIES

Double Drive Single Acting

AHP06 SERIES

Triple Drive Single Acting

AHP06 SERIES

Single Drive Double Acting

AHP06 SERIES

Double Drive Double Acting

AHP06 SERIES

Long Stroke Single Drive Double Acting

AHP10 SERIES

Single Drive Double Acting

AHP10 SERIES

Double Drive Double Acting

INTRODUCTION

AGB06 SERIES

Single Drive Single Acting

AGB06 SERIES

Double Drive Single Acting

AGB06 SERIES

Single Drive Double Acting

AGB06 SERIES

Double Drive Double Acting

AGB06 SERIES

Single Drive Two Stage

AGB06 SERIES

Double Drive Two Stage

MANUAL PUMP

ELECTRICAL PUMP

Petro



Controls

Automobile



About HYDR-STAR

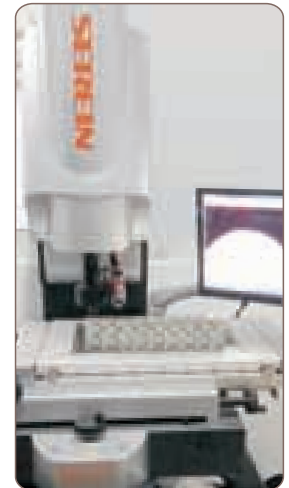
HYDR-STAR Fluid Control Company Limited specialize and focus on the R&D, design and manufacture of stainless steel instrumentation valves, high pressure valves, control valves, high pressure pumps and boosters with international standard.

The company occupies 54 acres and owns 20,000 square meters of modern workshop and office buildings; an engineering team with more than 15 years of professional fluid control technology; advanced testing and manufacturing equipment; complete quality control system; customer oriented, timely and professional sales team and superior services to provide high quality products and solutions for the global fluid control industry.

HYDR-STAR passed the ISO9001 quality management system certification and our products passes SIL and EAC certification. Our products are recognized by clients and customers in Middle East, European Union, Russia, China and other countries.

After years of hard work, HYDR-STAR has become an industry leader and has established list of regular customers from around the globe. Our products are being used in oil&gas, petrochemical, energy, mining, aerospace, military, automotive, firefighting and conventional hydraulic machinery Industries.

Email: ordre@habuas.com



A corner of workshop

High
Precision
Lathe

Three
Coordinate
Measuring
Machine

VMC

Warehouse



HYDR-STAR FLUID CONTROL COMPANY LIMITED



AIR-DRIVEN LIQUID PUMPS

www.habusolutions.no



Air Driven Liquid Pumps

Features

- ★ Up to 100,000 psi (7000 bar) capability.
- ★ Infinitely variable cycling speed.
- ★ Stall feature at pre-determined pressure to hold that pressure without consuming power .
- ★ Easily automated, with many modification and control options available.
- ★ Suitable for most liquids and liquefied gases.
- ★ Can be manufactured to meet CE, ATEX and NACE.
- ★ Robust, reliable, compact and easy to maintain proven design.
- ★ Unbalanced cycling spool provides immediate response to pressure changes.
- ★ Also available in standard, Configuration required by customer.
- ★ No need for air-line lubrication, which saves costs and prevents contamination.

Easy handling

1. Initial operation

The pump is prepared for operation manually:

- ★ Connect supply lines (compressed air, suction and pressure lines).
- ★ Set air drive pressure.
- ★ Open compressed air supply slowly so that the high-pressure pump starts up .

3. Achieve and hold pressure

The pump controls the processes of reaching and holding pressure.

- ★ Pump automatically stops operating when the operating pressure is reached due to equilibrium of forces
- ★ Pressure is held.
- ★ Pressure holding phase with no energy consumption or heat generation .
- ★ Pump restarted automatically if operating pressure drops .

2. Build up pressure

The pump technology executes all the steps for pressure build-up automatically:

- ★ Automatic cycling of 4/2-way valve (spoolcycling valve) by means of air pulses from the pilot valve (2/2-way valve)
- ★ Suction of medium.
- ★ Optimum cycling conditions thanks to large cross-sections .

Applications

- ★ Pressure testing
- ★ Jacking and Lifting.
- ★ Valve actuator control
- ★ Hydraulic cylinder actuation
- ★ Roller tensioning
- ★ Precision lubrication and spraying
- ★ Work holding and power clamping
- ★ Liquefied gas transfer
- ★ Machine tools
- ★ Well Control Panel

Selection

The pump model is selected according to the use requirements. Such as output pressure, output flow, medium and temperature, available air or gas drive pressure and flow. This guide will help you to pre-select the pump ideally suited for your application. If you have specific questions, Please contact us. We urge you to provide us with details of the duties you require from the pump, available air/gas drive pressure, and pressure/flow requirements, and we will recommend a model and any corresponding accessories.

Email: ordre@habuas.com

The series and its functions

HYDR-STAR pumps offer the right solution for every application. They are suitable for different or stepped flow rates as well as for different maximum allowable operating pressures. HYDR-STAR pumps with two or three air drive sections reach the same final pressure as a HYDR-STAR pump with one air drive section with 1/2 or 1/3 of the air drive. Double-acting pumps increase the pump capacity by around 50% in comparison to single-acting pumps and reduce the pulsation equally.

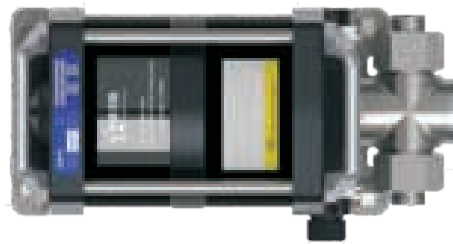
The following model variants are available depending on the series:



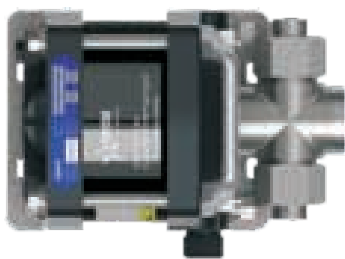
Pumps With Handle



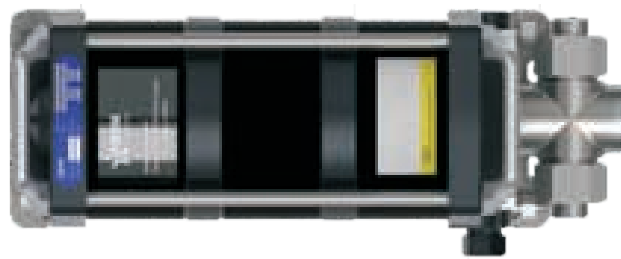
Angular Pumps



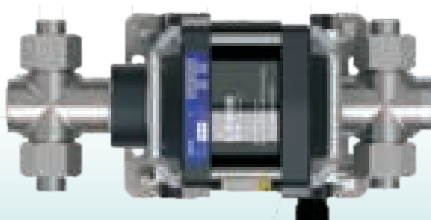
Double Air Drive, Single Acting



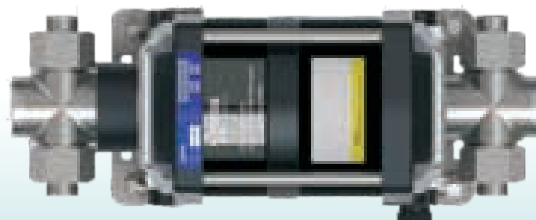
Single Air Drive, Single Acting



Triple Air Drive, Single Acting



Single Air Drive, Double Acting



Double Air Drive, Double Acting

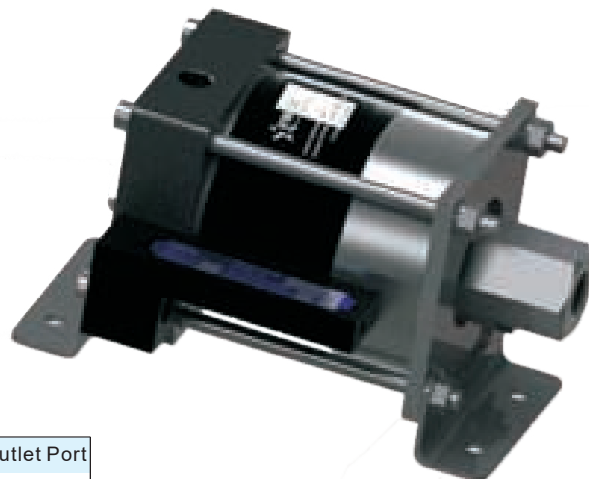


AHP03 Series

Single Drive Single Acting

Features

- ★ Choice of 9 ratios.
- ★ Flows to 13.6 l/min.
- ★ Choice of wetted materials .
- ★ Pressures to 25,000 psi(1723 bar).
- ★ All Hydraulic fluids, water(plain or DI), solvents, mild chemicals, liquefied gases.



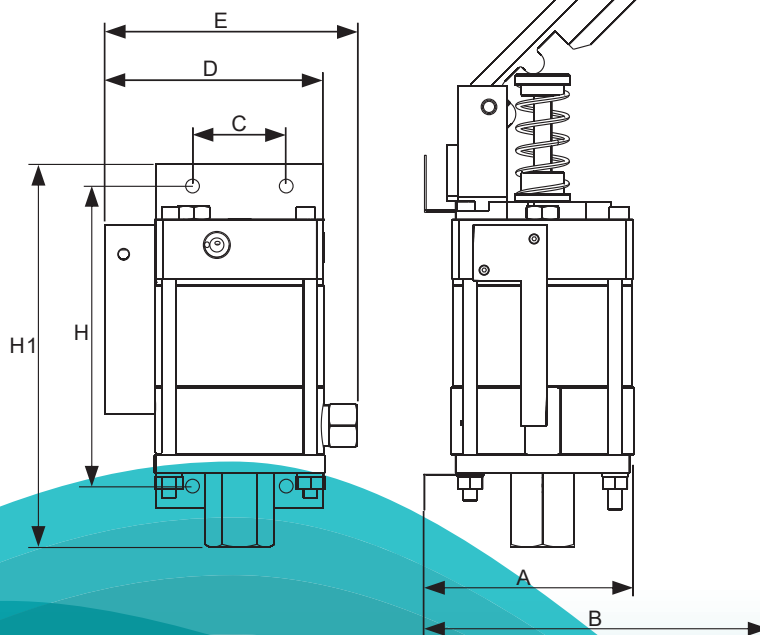
Performance and Specification

Pump Model Code	Max.Out Press.	Dis. /Cycle	Max.Flow	Inlet Port	Outlet Port
AHP03-1S-5	625psi	13.6ml	8.30l/min	1"NPT	1/2"NPT
AHP03-1S-7	900psi	9.8ml	6.0l/min	3/4"NPT	1/2"NPT
AHP03-1S-12	1500psi	5.9ml	3.83l/min	3/4"NPT	1/2"NPT
AHP03-1S-21	2600psi	3.3ml	2.13l/min	3/8"NPT	1/4"NPT
AHP03-1S-36	4500psi	2.0ml	1.28l/min	3/8"NPT	1/4"NPT
AHP03-1S-71	8800psi	1.0ml	0.64l/min	3/8"NPT	1/4"NPT
AHP03-1S-110	13500psi	0.6ml	0.42l/min	3/8"NPT	1/4"NPT
AHP03-1S-188	15000psi	0.4ml	0.29l/min	3/8"NPT	1/4"HF
AHP03-1S-220	25000psi	0.34ml	0.22l/min	3/8"NPT	1/4"HF

HF means female high pressure connection.

Dimensions

Size A	3.82in.(97mm)
Size B	10in.(254mm)
Size C	1.65in.(42mm)
Size D	4.13in.(105mm)
Size E	4.72in.(120mm)
Size H	5.71in.(145mm)
Size H1	6.89in.(175mm)

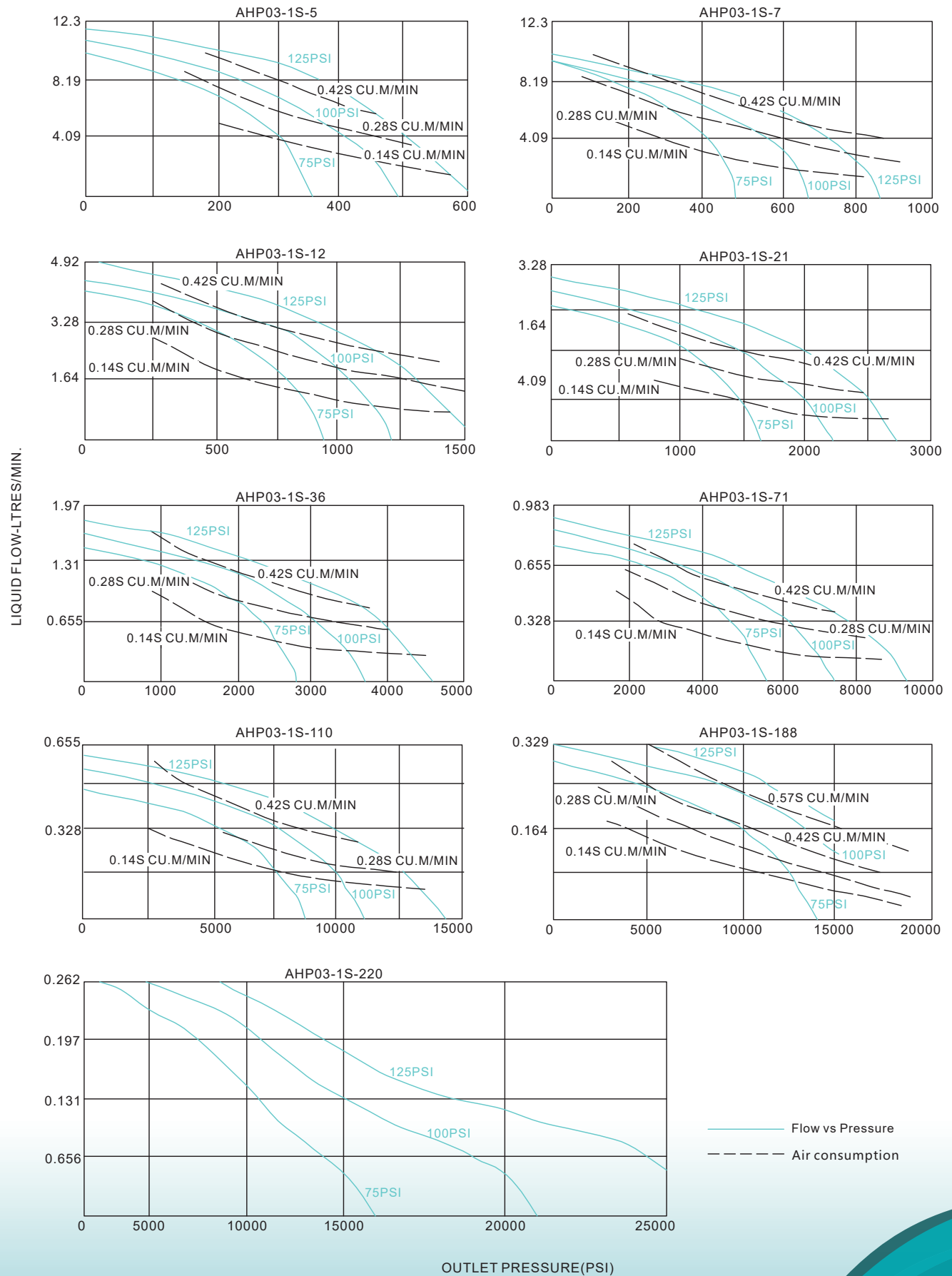


EXPLAIN

1. All model code listed are standard.
For pumps with handle add "-H" after the model codes.
For Pumps with relief valve add "-R" after the model codes.
For pumps with Viton seals add "-V" after the model codes.
For pumps with Pressure switch valve add "-P" after the model codes.
For cold area service add "-C" after the model codes.
2. Other sizes, materials and types are available upon request. For special requirements, please contact us.

Email: ordre@habuas.com

Performance Curves





AHP06 Series

Single Drive Single Acting Features

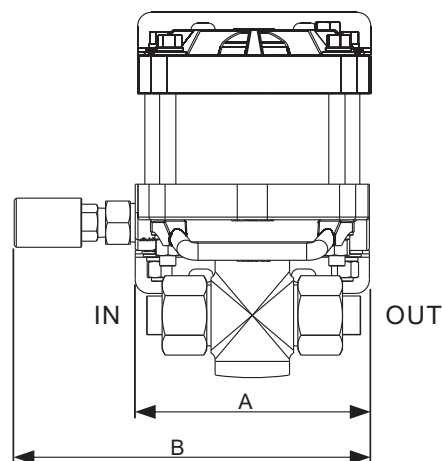
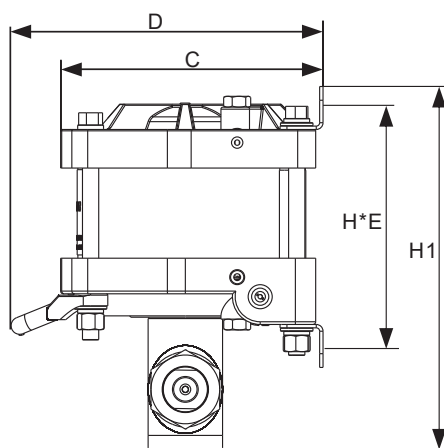
- ★ Choice of 10 ratios.
- ★ Flows to 66.4 l/min.
- ★ Choice of wetted materials.
- ★ Output pressures to 60,000 psi (4137 bar).
- ★ Drive pressure 3 to 150 psi (0.2 to 10.3 bar).
solvents, mild chemicals, liquefied gases.

Performance and Specification

Pump Model Code	Max.Out Press.	Dis. /Cycle	Max.Flow	Inlet Port	Outlet Port
AHP06-1S-10	1600psi	66.4ml	19.9l/min	1"NPT	1/2"NPT
AHP06-1S-15	2400psi	44.3ml	13.3l/min	1"NPT	1/2"NPT
AHP06-1S-25	4000psi	26.6ml	8l/min	1/2"NPT	1/2"NPT
AHP06-1S-35	5700psi	19.0ml	5.7l/min	1/2"NPT	1/2"NPT
AHP06-1S-60	10000psi	11.0ml	3.3l/min	1/2"NPT	1/2"NPT
AHP06-1S-100	15000psi	6.7ml	2l/min	1/2"NPT	1/2"NPT
AHP06-1S-150	22500psi	4.5ml	1.3l/min	1/2"NPT	1/4"HF
AHP06-1S-225	33750psi	3.0ml	0.7l/min	1/2"NPT	1/4"HF
AHP06-1S-300	45000psi	2.3ml	0.5l/min	1/2"NPT	1/4"HF
AHP06-1S-450	60000psi	1.5ml	0.3l/min	1/2"NPT	1/4"HF

HF means female high pressure connection.

Dimensions



Size A	6.81in.(173mm)	Size H	7.15in.(181.5mm)
Size B	10.3in.(262mm)	Size H1	10.6in.(269.8mm)
Size C	7.64in.(194mm)	Size D	9.06in.(230mm)
Size E	3in.(76.2mm)		

EXPLAIN

1. All model code listed are standard.

For angle pumps add "A" after the model codes.

For Quick repair pumps add "-Q" after the model codes.

For pumps with relief valve add "-R" after the model codes.

For pumps with Viton seals add "-V" after the model codes.

For pumps with Pressure switch valve add "-P" after the model codes.

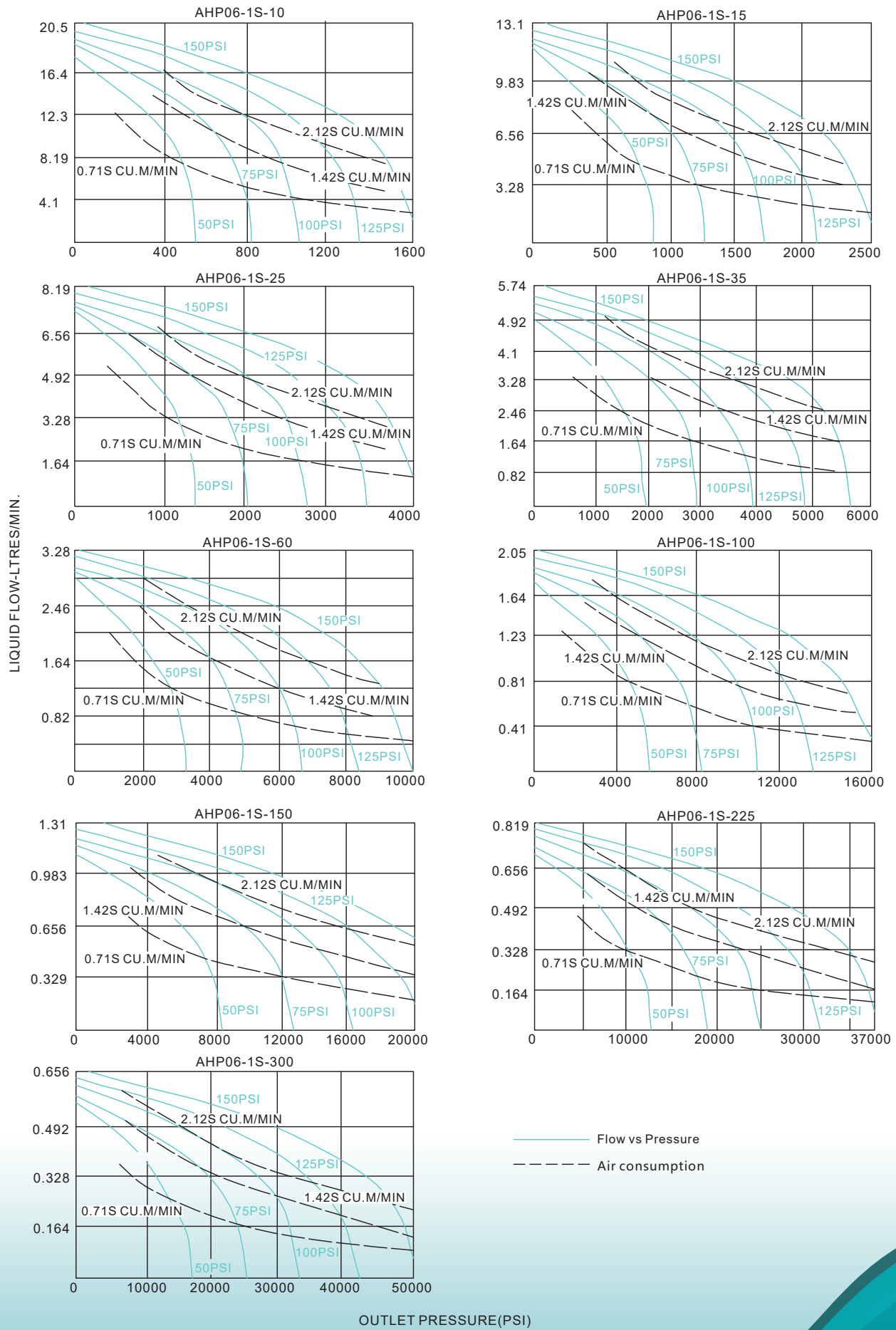
For cold area service add "-C" after the model codes.

2. Other sizes, materials and types are available upon request. For special requirements, please contact us.



Email: ordre@habuas.com

Performance Curves





AHP06 Series

Double Drive Single Acting

Features

- ★ Choice of 9 ratios.
- ★ Flows to 19.9 l/min.
- ★ Choice of wetted materials.
- ★ Output pressures to 75,000 psi (5171 bar).
- ★ Drive pressure 3 to 150 psi (0.2 to 10.3 bar).

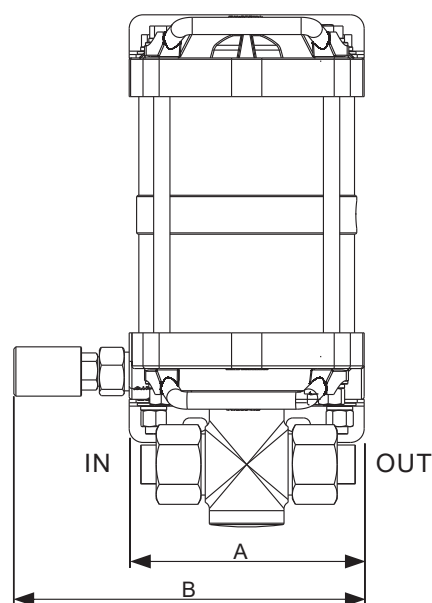
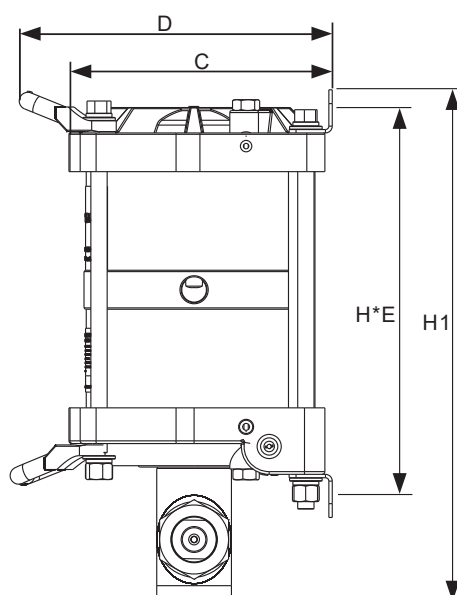
Performance and Specification

Pump Model Code	Max. Out Press.	Dis. /Cycle	Max. Flow	Inlet Port	Outlet Port
AHP06-2S-20	3200psi	66.4ml	19.9l/min	1"NPT	1/2"NPT
AHP06-2S-30	4800psi	44.3ml	13.3l/min	1"NPT	1/2"NPT
AHP06-2S-50	5000psi	26.6ml	8l/min	1/2"NPT	1/2"NPT
AHP06-2S-70	11000psi	19.0ml	5.7l/min	1/2"NPT	1/2"NPT
AHP06-2S-120	19000psi	11.0ml	3.3l/min	1/2"NPT	1/2"NPT
AHP06-2S-200	33000psi	6.7ml	1.5l/min	1/2"NPT	1/4"HF
AHP06-2S-300	50000psi	4.5ml	1l/min	1/2"NPT	1/4"HF
AHP06-2S-450	70000psi	3.0ml	0.7l/min	1/2"NPT	1/4"SF
AHP06-2S-600	75000psi	2.3ml	0.5l/min	1/2"NPT	1/4"SF

HF means female high pressure connection.

SF means female super high pressure connection.

Dimensions



Size A	6.81in.(173mm)	Size H	11.37in.(288.8mm)
Size B	10.3in.(262mm)	Size H1	15.35in.(390mm)
Size C	7.64in.(194mm)	Size D	9.06in.(230mm)
Size E	3in.(76.2mm)		

EXPLAIN

1. All model code listed are standard.

For angle pumps add "A" after the model codes.

For Quick repair pumps add "-Q" after the model codes.

For pumps with relief valve add "-R" after the model codes.

For pumps with Viton seals add "-V" after the model codes.

For pumps with Pressure switch valve add "-P" after the model codes.

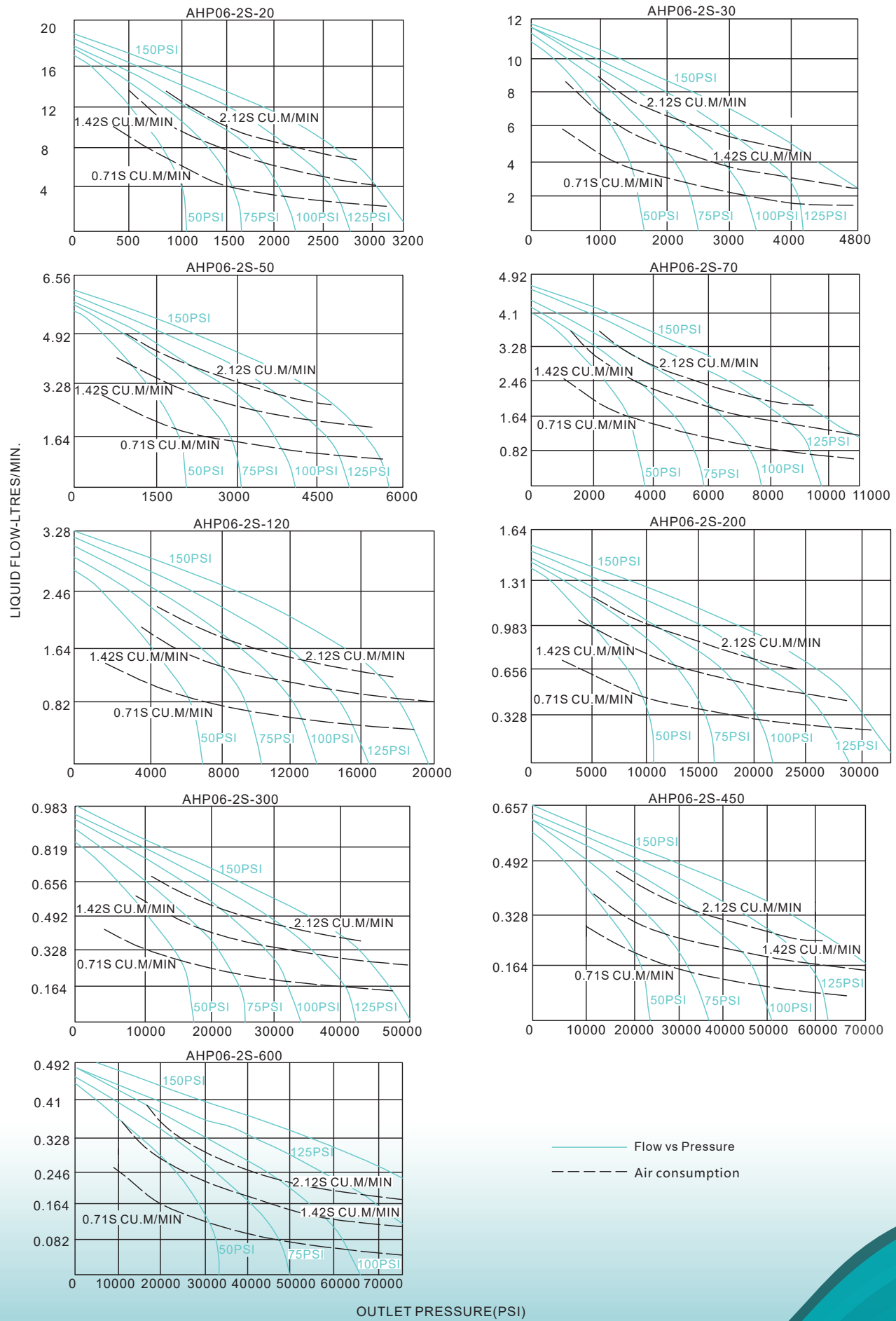
For cold area service add "-C" after the model codes.

2. Other sizes, materials and types are available upon request. For special requirements, please contact us.



Email: ordre@habuas.com

Performance Curves





AHP06 Series

Triple Drive Single Acting Features

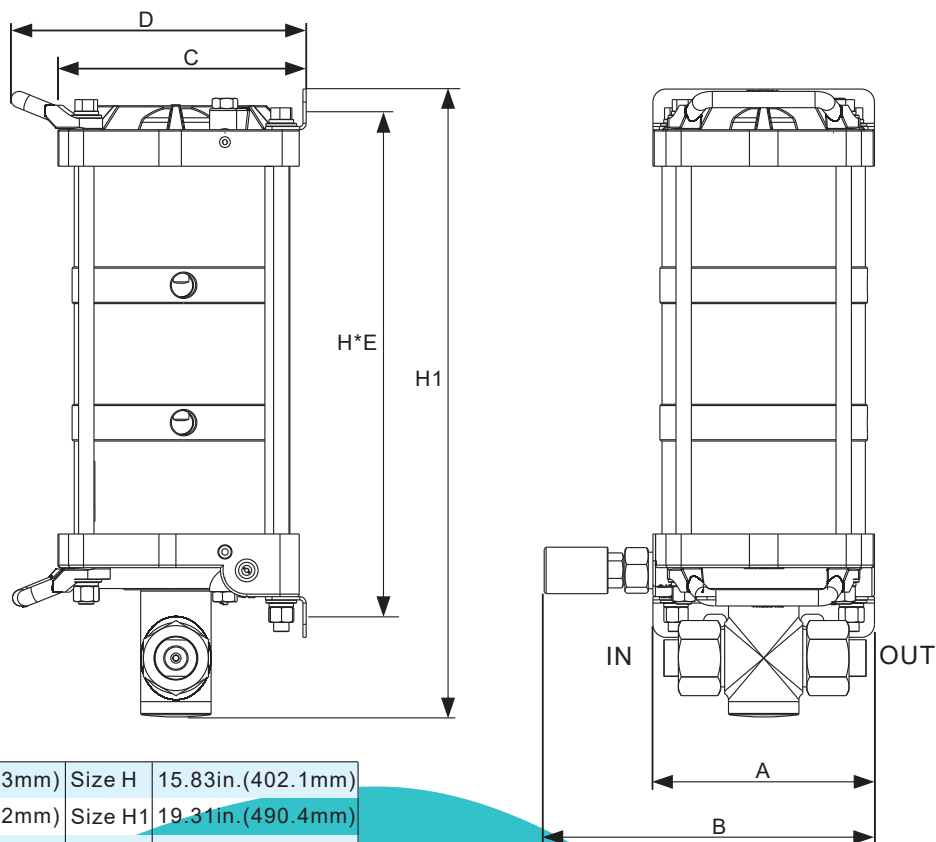
- ★ Choice of 3 ratios.
- ★ Flows to 0.41 l/min.
- ★ Choice of wetted materials.
- ★ Output pressures to 100,000 psi (6896 bar).
- ★ Drive pressure 3 to 150 psi (0.2 to 10.3 bar).
solvents, mild chemicals, liquefied gases.

Performance and Specification

Pump Model Code	Max.Out Press.	Dis. /Cycle	Max.Flow	Inlet Port	Outlet Port
AHP06-3S-675	70000psi	3.0ml	0.41l/min	1/2"NPT	1/4"SF
AHP06-3S-900	75000psi	2.3ml	0.33l/min	1/2"NPT	1/4"SF
AHP06-3S-1350	100000psi	1.5ml	0.20l/min	1/2"NPT	1/4"SF

SF means female super high pressure connection.

Dimensions



Size A	6.81in.(173mm)	Size H	15.83in.(402.1mm)
Size B	10.3in.(262mm)	Size H1	19.31in.(490.4mm)
Size C	7.64in.(194mm)	Size D	9.06in.(230mm)
Size E	3in.(76.2mm)		

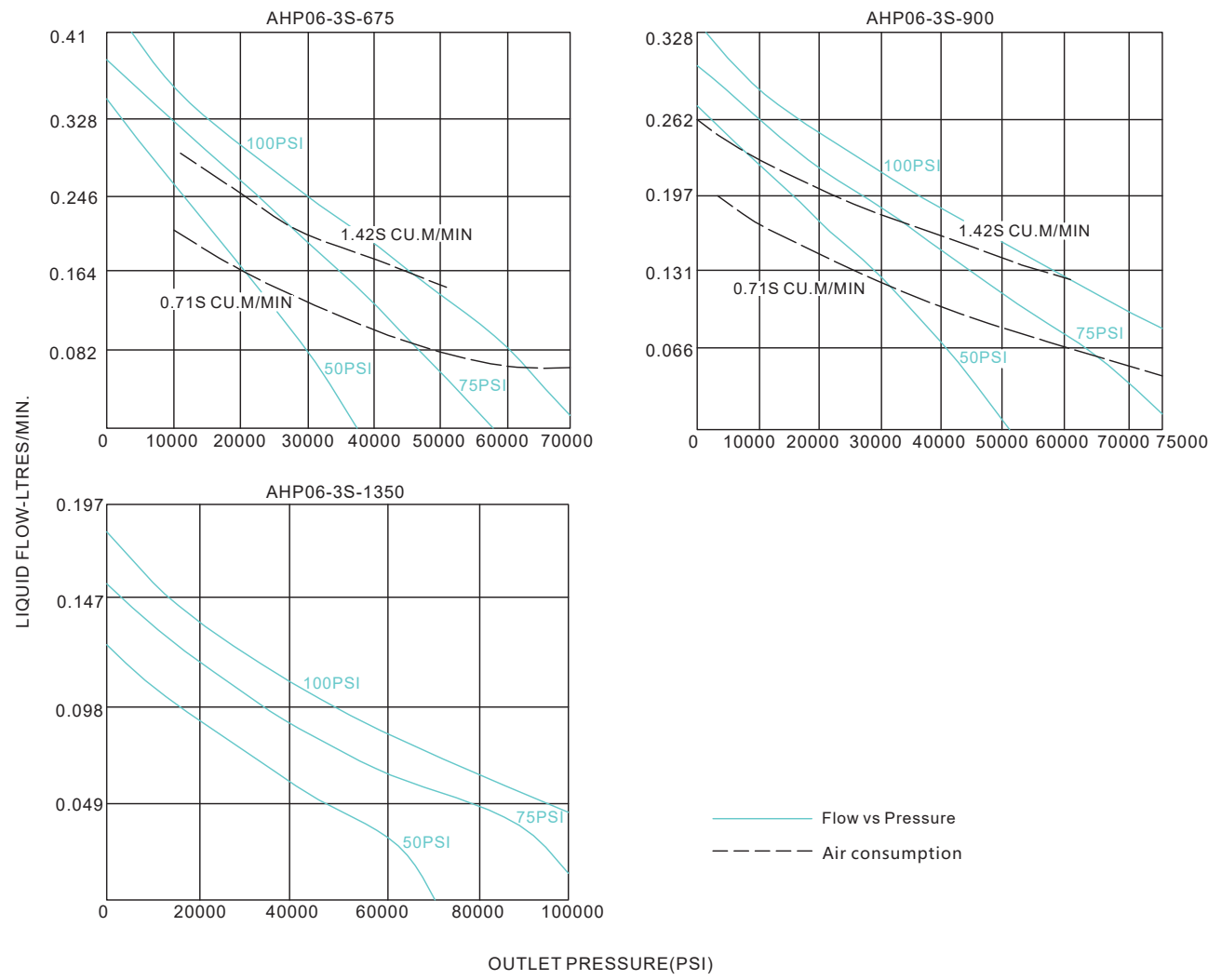
EXPLAIN

- All model code listed are standard.
For angle pumps add "A" after the model codes.
For Quick repair pumps add "-Q" after the model codes.
For pumps with relief valve add "-R" after the model codes.
For pumps with Viton seals add "-V" after the model codes.
For pumps with Pressure switch valve add "-P" after the model codes.
For cold area service add "-C" after the model codes.
- Other sizes, materials and types are available upon request. For special requirements, please contact us.

Email: ordre@habuas.com



Perfomance Curves





AHP06 Series

Single Drive Double Acting Features

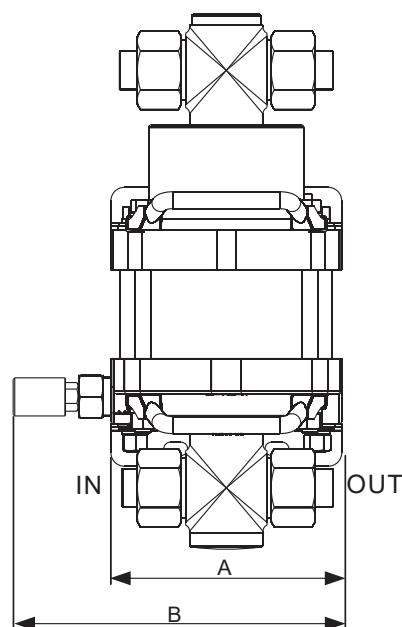
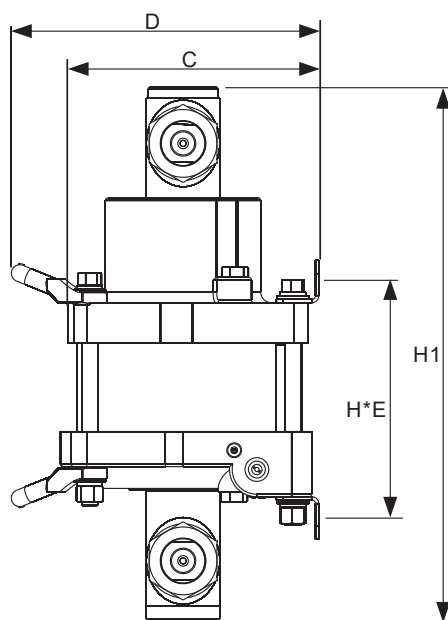
- ★ Choice of 7 ratios.
- ★ Flows to 29.9 l/min.
- ★ Choice of wetted materials.
- ★ Output pressures to 20,000 psi (1379 bar).
- ★ Drive pressure 3 to 150 psi (0.2 to 10.3 bar).

Performance and Specification

Pump Model Code	Max.Out Press.	Dis. /Cycle	Max.Flow	Inlet Port	Outlet Port
AHP06-1D-10	1600psi	133ml	29.9l/min	1"NPT	1/2"NPT
AHP06-1D-15	2400psi	89ml	19.9l/min	1/2"NPT	1/2"NPT
AHP06-1D-25	4000psi	53.6ml	11.9l/min	1/2"NPT	1/2"NPT
AHP06-1D-35	5700psi	38ml	8.6l/min	1/2"NPT	1/2"NPT
AHP06-1D-60	9800psi	22ml	4.9l/min	1/2"NPT	1/2"NPT
AHP06-1D-100	16500psi	13.4ml	3.0l/min	1/2"NPT	3/8"MF
AHP06-1D-150	20000psi	9ml	2.0l/min	1/2"NPT	3/8"MF

MF means female medium pressure connection.

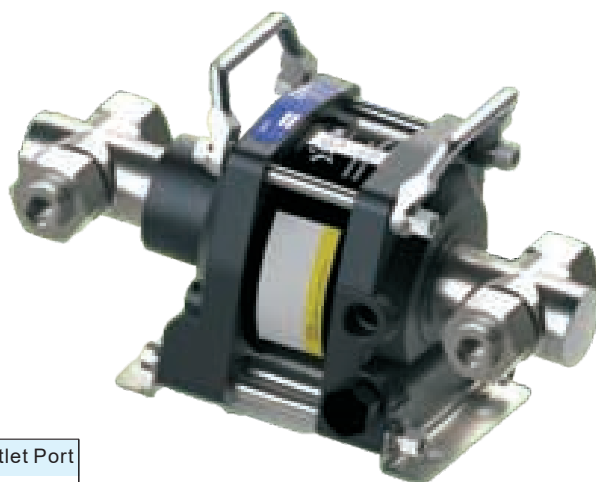
Dimensions



Size A	6.81in.(173mm)	Size H	7.95in.(202mm)
Size B	10.3in.(262mm)	Size H1	15.75in.(400mm)
Size C	7.64in.(194mm)	Size D	9.06in.(230mm)
Size E	3in.(76.2mm)		

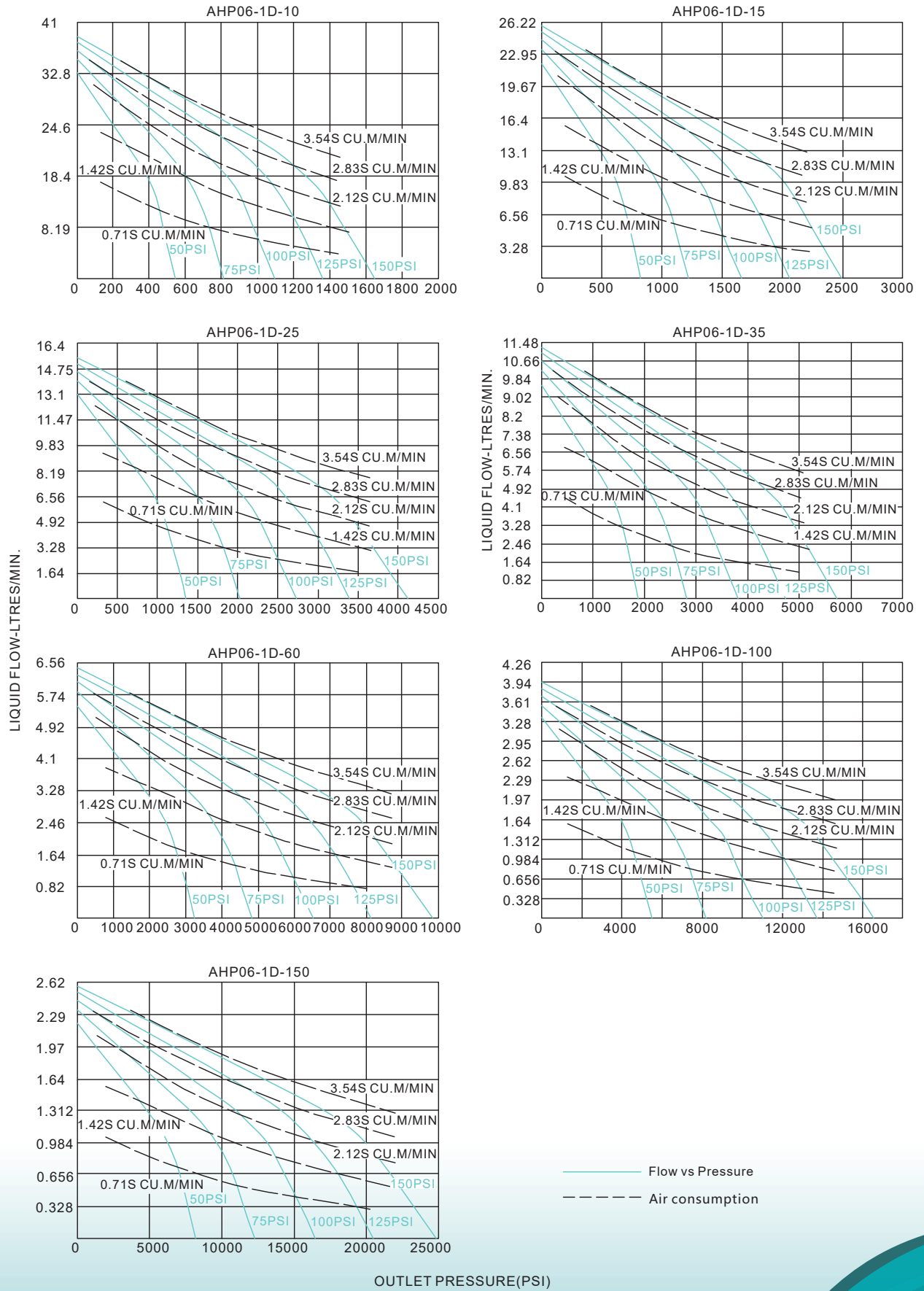
EXPLAIN

1. All model code listed are standard.
For angle pumps add "A" after the model codes.
For Quick repair pumps add "-Q" after the model codes.
For pumps with relief valve add "-R" after the model codes.
For pumps with Viton seals add "-V" after the model codes.
For pumps with Pressure switch valve add "-P" after the model codes.
For cold area service add "-C" after the model codes.
2. Other sizes, materials and types are available upon request. For special requirements, please contact us.



Email: ordre@habuas.com

Performance Curves





AHP06 Series

Double Drive Double Acting Features

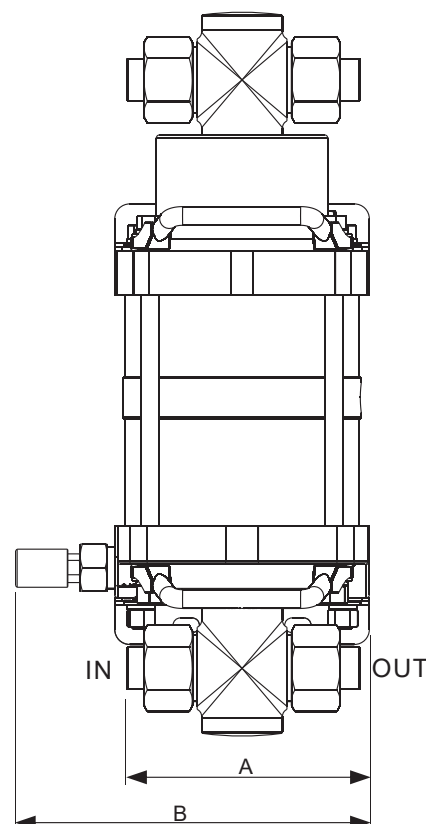
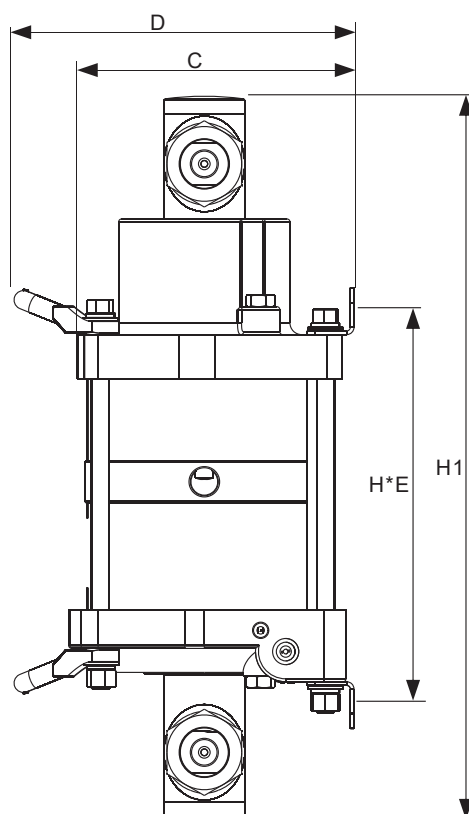
- ★ Choice of 4 ratios.
- ★ Flows to 8.6 l/min.
- ★ Choice of wetted materials.
- ★ Output pressures to 500,000 psi (3448 bar).
- ★ Drive pressure 3 to 150 psi (0.2 to 10.3 bar).

Performance and Specification

Pump Model Code	Max.Out Press.	Dis. /Cycle	Max.Flow	Inlet Port	Outlet Port
AHP06-2D-70	11000psi	38ml	8.6l/min	1/2"NPT	1/2"NPT
AHP06-2D-120	19000psi	22ml	4.9l/min	1/2"NPT	1/2"NPT
AHP06-2D-200	33000psi	13.4ml	3.0l/min	1/2"NPT	1/4"HF
AHP06-2D-300	50000psi	9ml	2.0l/min	1/2"NPT	1/4"HF

HF means female high pressure connection.

Dimensions



Size A	6.81in.(173mm)	Size H	7.95in.(202mm)
Size B	10.3in.(262mm)	Size H1	19.09in.(485mm)
Size C	7.64in.(194mm)	Size D	9.06in.(230mm)
Size E	3in.(76.2mm)		

EXPLAIN

1. All model code listed are standard.

For angle pumps add "A" after the model codes.

For pumps with relief valve add "-R" after the model codes.

For pumps with Viton seals add "-V" after the model codes.

For pumps with Pressure switch valve add "-P" after the model codes.

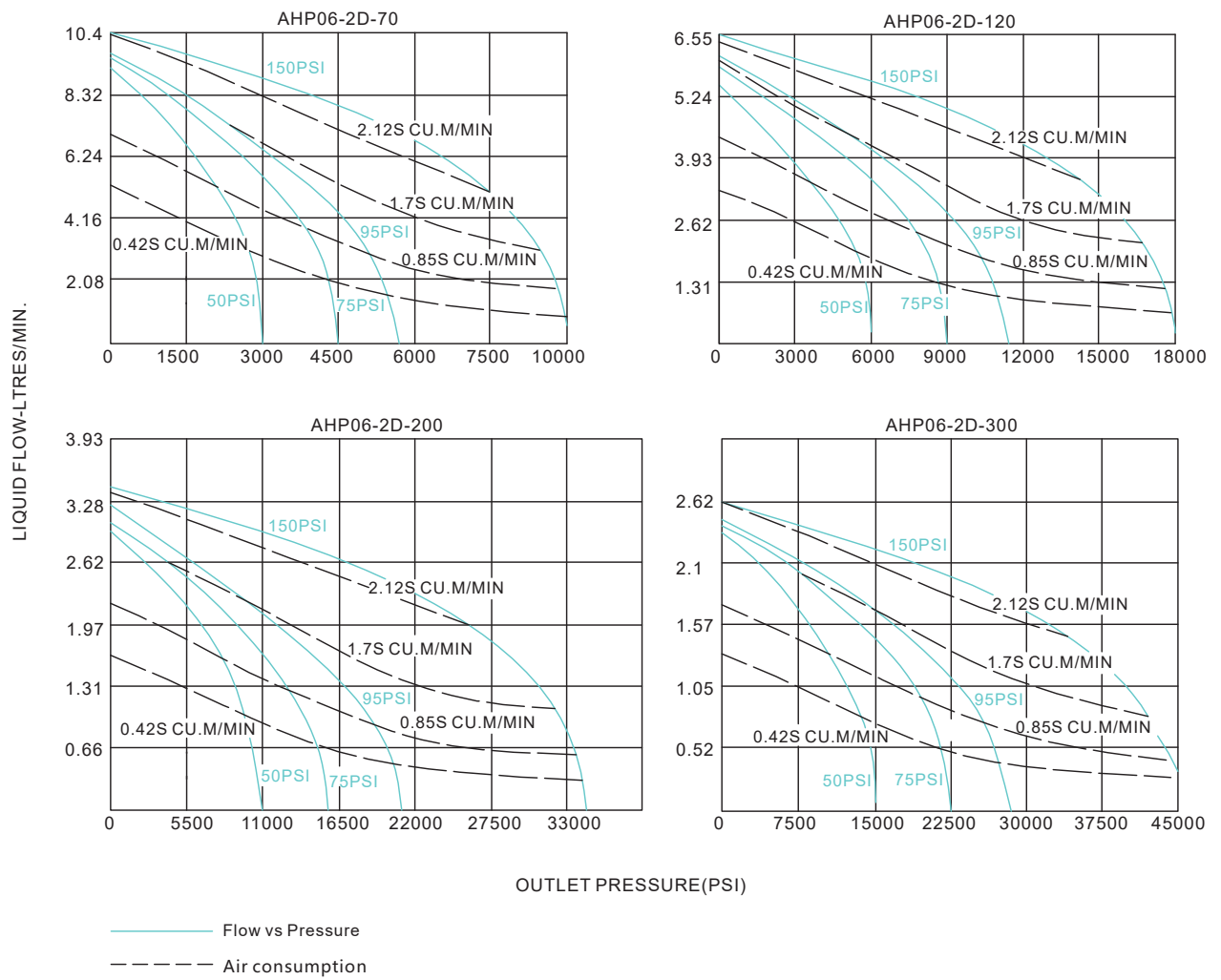
For cold area service add "-C" after the model codes.

2. Other sizes, materials and types are available upon request. For special requirements, please contact us.



Email: ordre@habuas.com

Performance Curves





AHP06 Series

Long Stroke Single Drive Double Acting Features

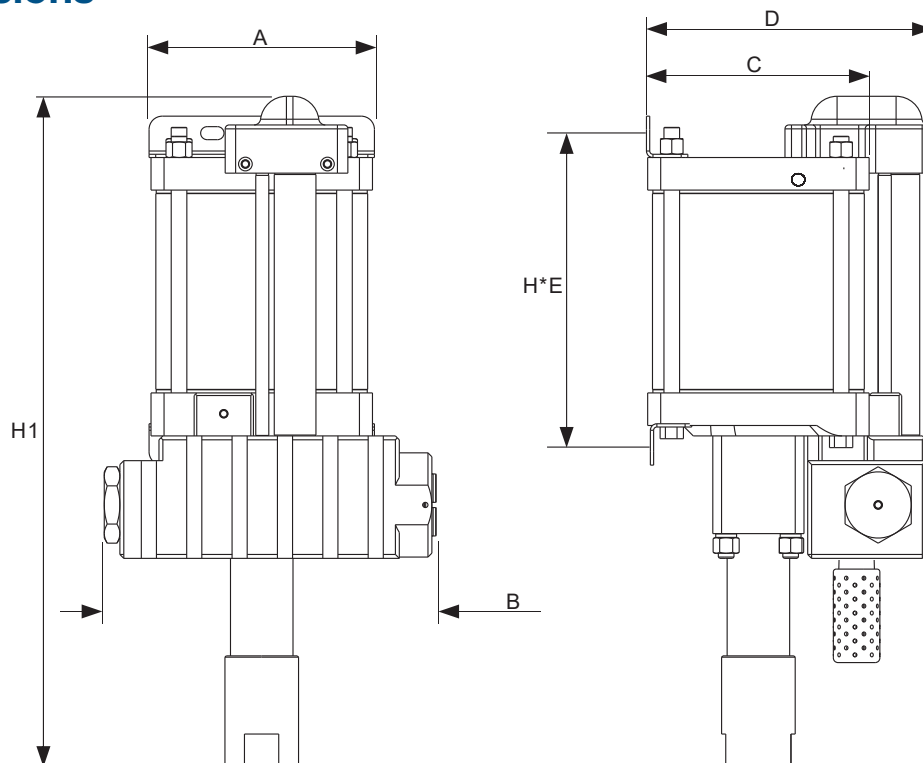
- ★ Choice of 4 ratios.
- ★ Flows to 82.1 l/min.
- ★ Choice of wetted materials .
- ★ Output pressures to 100,00 psi (690 bar).
- ★ Drive pressure 3 to 125 psi (0.2 to 8.6 bar).
- ★ All hydraulic fluids,water (plain or DI),solvents.



Performance and Specification

Pump Model Code	Max.Out Press.	Dis. /Cycle	Max.Flow	Inlet Port	Outlet Port
AHP06-1D-12L	1850psi	260ml	82.1l/min	1-1/4"NPT	3/4"NPT
AHP06-1D-35L	4375psi	98ml	31l/min	1-1/4"NPT	1/2"NPT
AHP06-1D-60L	7500psi	57ml	18.1l/min	1-1/4"NPT	1/2"NPT
AHP06-1D-100L	10000psi	34ml	10.8l/min	1-1/4"NPT	1/2"NPT

Dimensions



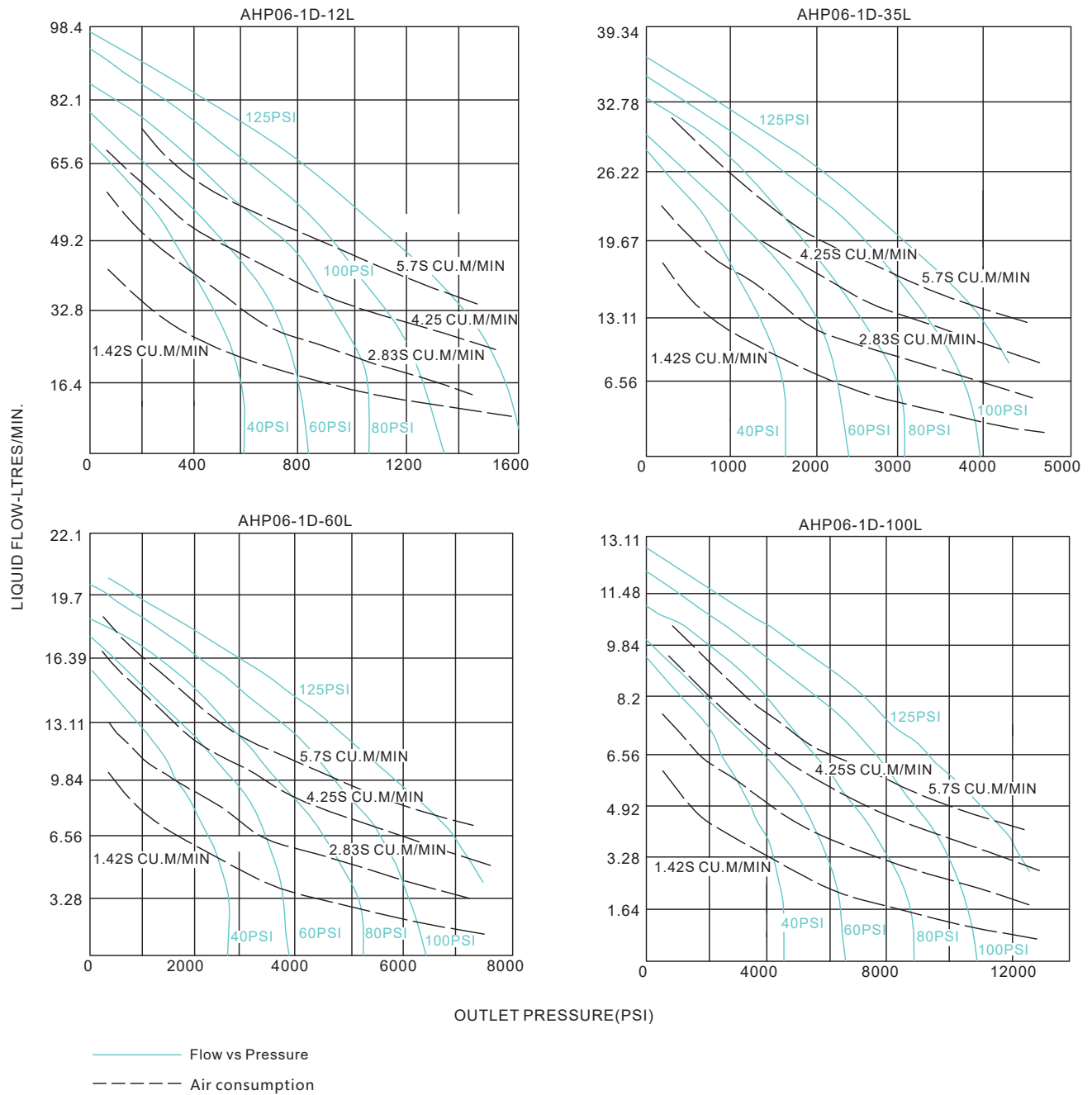
Size A	6.81in.(173mm)	Size H	9.57in.(243mm)
Size B	10in.(254mm)	Size H1	19.69in.(500mm)
Size C	6.73in.(171mm)	Size D	8.66in.(220mm)
Size E	3in.(76.2mm)		

EXPLAIN

- All model code listed are standard.
For pumps with relief valve add "-R" after the model codes.
For pumps with Viton seals add "-V" after the model codes.
For pumps with Pressure switch valve add "-P" after the model codes.
For cold area service add "-C" after the model codes.
- Other sizes,materials and types are available upon request. For special requirements, please contact us.

Email: ordre@habuas.com

Perfomance Curves





AHP10 Series

Single Drive Double Acting Features

- ★ Choice of 4 ratios.
- ★ Flows to 42 l/min.
- ★ Choice of wetted materials.
- ★ Can be quickly repaired.
- ★ Output pressures to 225,00 psi (1551 bar).
- ★ Drive pressure 3 to 125 psi (0.2 to 8.6 bar).
- ★ All hydraulic fluids, water (plain or DI), solvents liquefied gases.



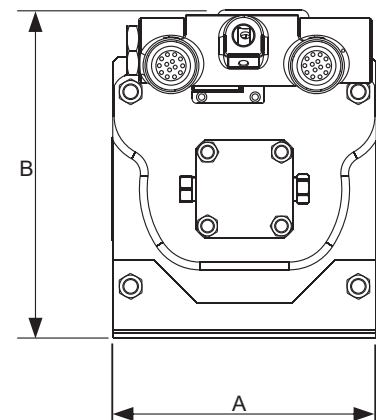
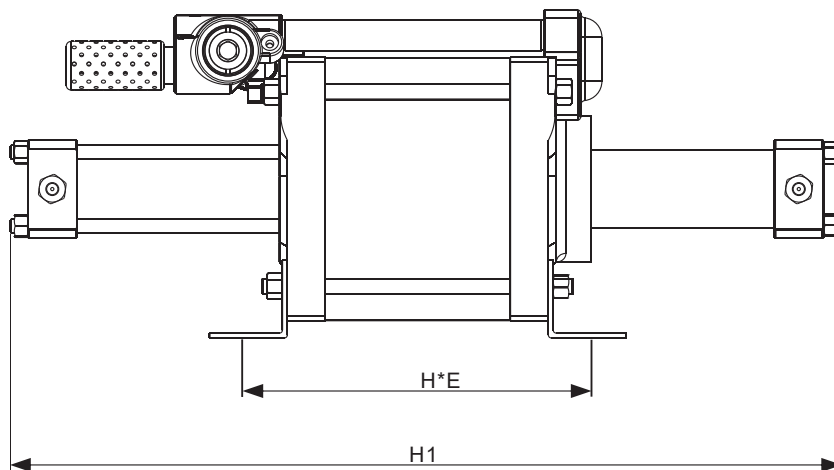
Performance and Specification

Pump Model Code	Max.Out Press.	Dis. /Cycle	Max.Flow	Inlet Port	Outlet Port
AHP10-1D-30	3750psi	323ml	42l/min	1"NPT	3/4"NPT
AHP10-1D-60	7500psi	160.8ml	20.9l/min	1"NPT	1/2"NPT
AHP10-1D-120	15000psi	78.8ml	10.2l/min	1"NPT	9/16"MF
AHP10-1D-180	22500psi	48.6ml	6.3l/min	1"NPT	9/16"HF

MF means female medium pressure connection.

HF means female high pressure connection.

Dimensions



Size A	10.63in.(270mm)	Size H	23.62in.(600mm)
Size B	13.39in.(340mm)	Size H1	19.69in.(500mm)
Size E	7.87in.(200mm)		

EXPLAIN

1. All model code listed are standard.

For pumps with relief valve add "-R" after the model codes.

For pumps with Viton seals add "-V" after the model codes.

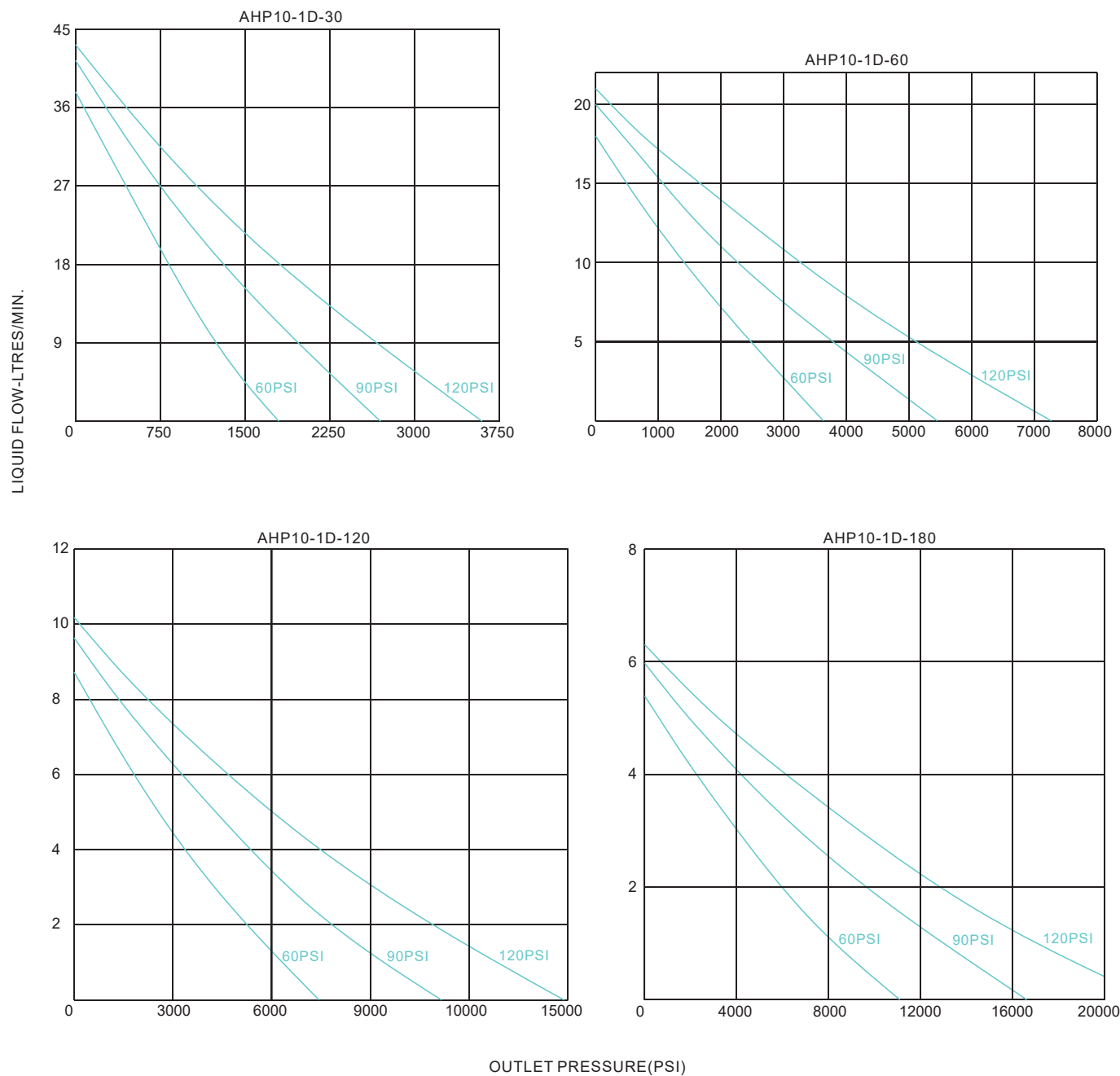
For pumps with Pressure switch valve add "-P" after the model codes.

For cold area service add "-C" after the model codes.

2. Other sizes, materials and types are available upon request. For special requirements, please contact us.

Email: ordre@habuas.com

Perfomance Curves





AHP10 Series

Double Drive Double Acting Features

- ★ Choice of 4 ratios.
- ★ Flows to 25.8 l/min.
- ★ Choice of wetted materials.
- ★ Can be quickly repaired.
- ★ Output pressures to 450,00 psi (3103 bar).
- ★ Drive pressure 3 to 125 psi (0.2 to 8.9 bar).
- ★ All hydraulic fluids, water (plain or DI), solvents liquefied gases.



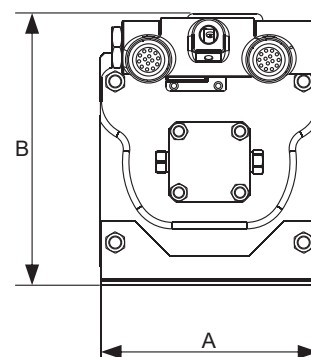
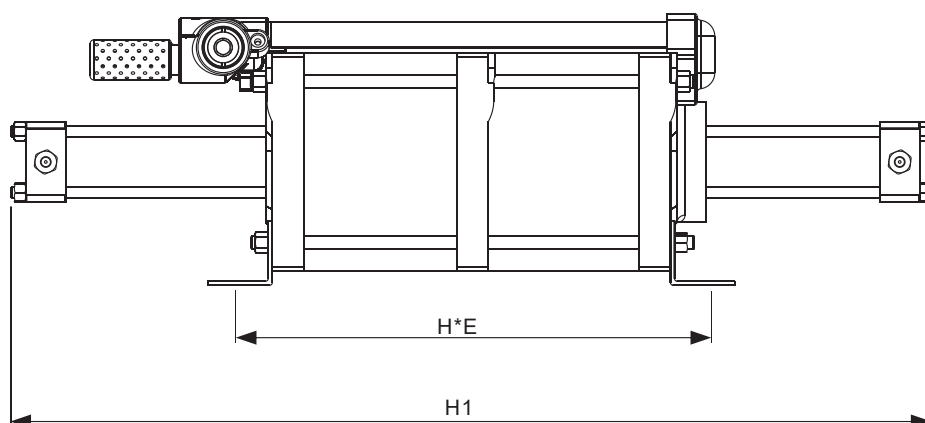
Performance and Specification

Pump Model Code	Max.Out Press.	Dis. /Cycle	Max.Flow	Inlet Port	Outlet Port
AHP10-2D-60	7500psi	323ml	25.8l/min	1"NPT	1/2"NPT
AHP10-2D-120	15000psi	160.8ml	12.8l/min	1"NPT	9/16"MF
AHP10-2D-240	30000psi	78.8ml	6.3l/min	1"NPT	9/16"HF
AHP10-2D-360	45000psi	48.6ml	3.9l/min	1"NPT	9/16"HF

MF means female medium pressure connection.

HF means female high pressure connection.

Dimensions



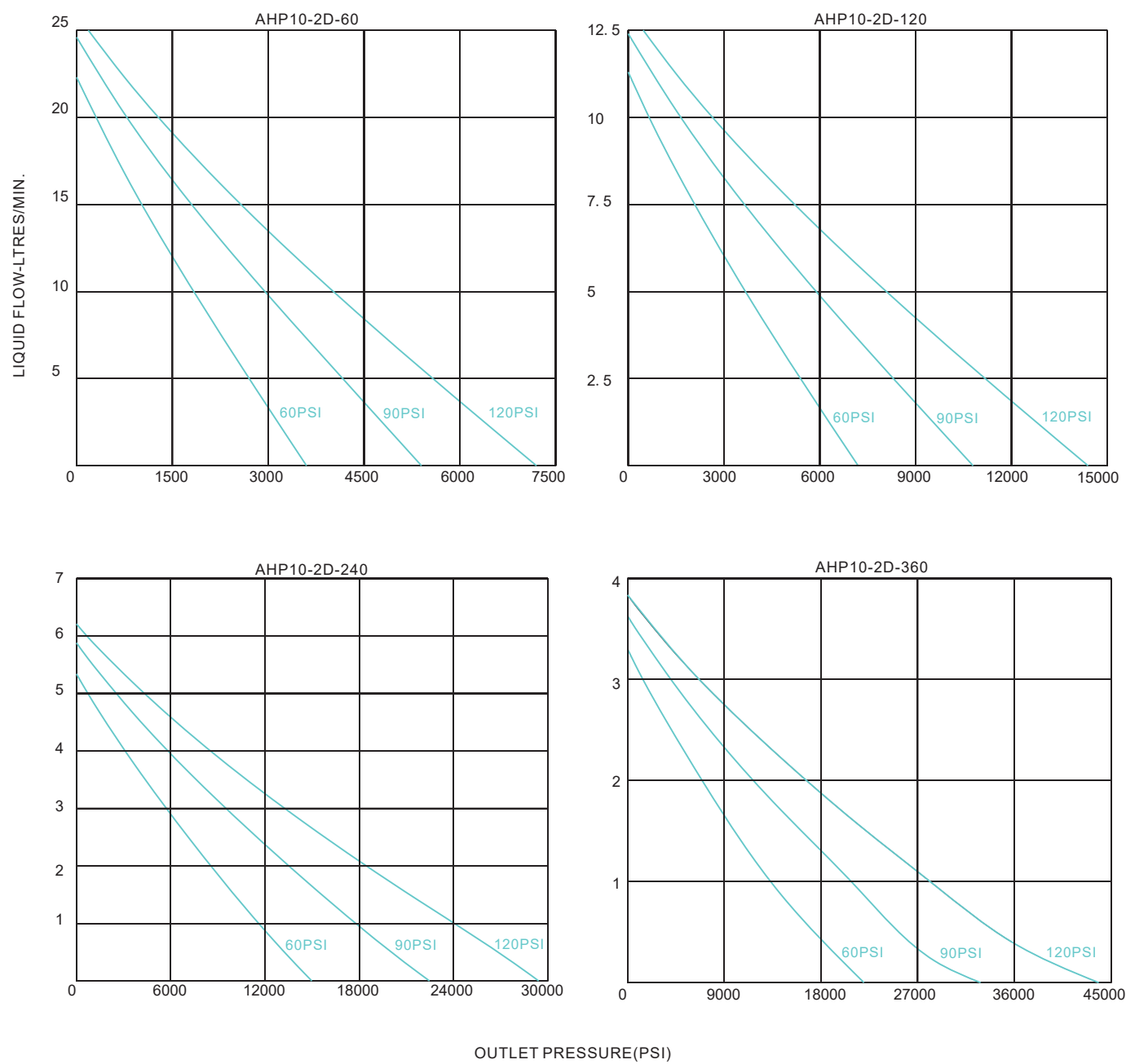
Size A	10.63in.(270mm)	Size H	49.21in.(1250mm)
Size B	13.39in.(340mm)	Size H1	26.77in.(680mm)
Size E	7.87in.(200mm)		

EXPLAIN

1. All model code listed are standard.
For pumps with relief valve add "-R" after the model codes.
For pumps with Viton seals add "-V" after the model codes.
For pumps with Pressure switch valve add "-P" after the model codes.
For cold area service add "-C" after the model codes.
2. Other sizes, materials and types are available upon request.
For special requirements, please contact us.

Email: ordre@habuas.com

Perfomance Curves



HYDR-STAR FLUID CONTROL COMPANY LIMITED



AIR-DRIVEN GAS BOOSTER

www.habusolutions.no



Gas Booster

Features

- ★ Suitable for most gases (Air, N₂, He, CO₂, Ne, Ar, O₂, H₂, CH₄, Natural Gas...).
- ★ Industrial gases like Argon, Helium and Nitrogen can be compressed to operating pressures of 25000 psig (1724 bar), Oxygen to 5000 psig (345 bar), Hydrogen to 15000 psig (1034 bar).
- ★ Single, double acting, and two-stage models.
- ★ Reliable, easy to maintain, compact and robust.
- ★ No heat, flame or spark risk.
- ★ Infinitely variable cycling speed and output.
- ★ Air driven boosters are an efficient alternative instead of electrically driven products and can be used in explosion proof areas.
- ★ Easy to apply automatic controls.
- ★ No limit or adverse affect to continuous stop/start applications.
- ★ Seal systems designed for long working life.
- ★ No airline lubricator required.
- ★ Separation between air and gas sections.
- ★ Built-in cooling.
- ★ Ability to stall at any predetermined pressure and hold the fixed pressure without consuming power or generating heat.
- ★ ATEX approved, CE certified.
- ★ There is no lubrication in the gas section. It will not pollute the gas and ensure the high purity of the gas.
- ★ The gas supply can be used to extremely low pressure, which improves the gas utilization.

Applications

- ★ Pressure test & leakage test with gas
- ★ Gas transfer
- ★ Charging of nitrogen accumulators
- ★ Supply for isolating gas systems
- ★ Gas assisted injection moulding
- ★ CO₂ foaming
- ★ Transfer of oxygen cylinders
- ★ Life Support Gas Transfer and Charging
- ★ Gas recovery: Pressurize the remaining lower pressure gases in the cylinder or pipeline and fill the gases into a cylinder.
- ★ Compressed Natural Gas (CNG) Boosting for vehicle refueling stations.
- ★ Hydrogen refueling station compresses hydrogen for fuel cell.

Technical specifications

There are two distinct sections: the air drive section and the gas barrel section.

Air Drive Section

Standard Air Drive Seals should perform reliably within a temperature range of (25°F to 150°F) (-4°C to 65°C). Lower temperatures will cause air/gas leakage; higher temperatures reduce seal life.

HYDR-STAR recommends a minimum Class 4 air quality per ISO 8573.1 standards. For operation at extremely low temperatures, consult factory.

Gas Barrel Section

Low temperatures normally have little effect on the operation of standard parts and seals. The heat from the compressing gas helps to balance out an acceptable temperature. Maximum average acceptable temperature 115°C (240°F). Generally, the built-in cooling adopts exhaust air cooling. That can keep the temperature not exceeding this value. Also cooling by water is available as an option.

Suction pressures lower than the indicated "Ps min" are not permitted and can cause damages on the unit. Because each booster has a fixed maximum compression ratio. When the air supply pressure is too low, the gas can not be pressurized to a certain pressure in the high-pressure barrel, causing the booster to reciprocate and fail to output gas. The gas will be compressed and released repeatedly in the high-pressure barrel.

stroke frequency

The maximum stroke frequency is at 100 cycles per minute for 50% duty cycle, It is recommended not to exceed 60 cycles/min for long-term operation or heavy-duty applications.

Email: ordre@habuas.com

Air Driven Gas Booster Configurations

HYDR-STAR air driven gas boosters have wide range of models it is possible to select the optimum booster for each application.

Single stage, double acting or two stage boosters or a combination of these models can be used to achieve different operating pressures and flow capacities.

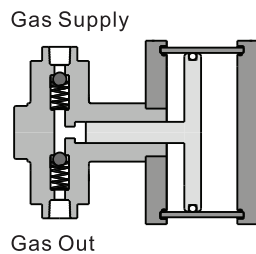
Single acting, single stage boosters are the base model.

Double acting, single stage provides twice the delivery of a single acting single stage booster.

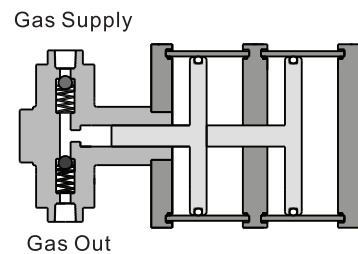
Two stage models are used for high gas compression ratios.

Types of the boosters

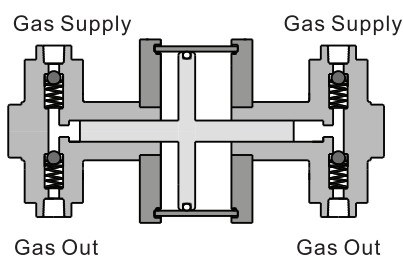
Single Drive, Single Acting



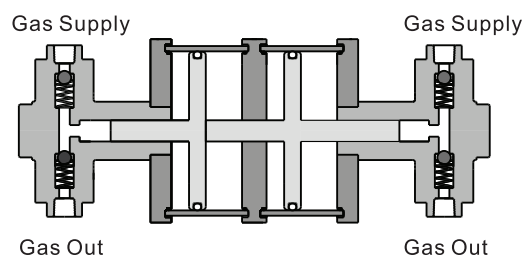
Double Drive, Single Acting



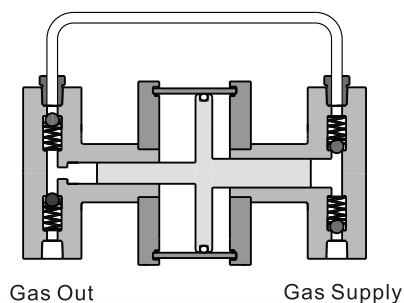
Single Drive, Double Acting



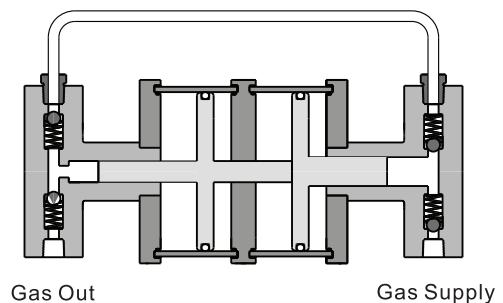
Double Drive, Double Acting



Single Drive, Two Stage



Double Drive, Two Stage





AGB06 Series

Single Drive Single Acting

Features

- ★ Choice of 5 ratios.
- ★ Max. air drive pressure $P_a=150$ psig(10.3 bar).
- ★ Choice of seal materials.
- ★ Pressure to 11,250 psig(776 bar).
- ★ No lubricator required.



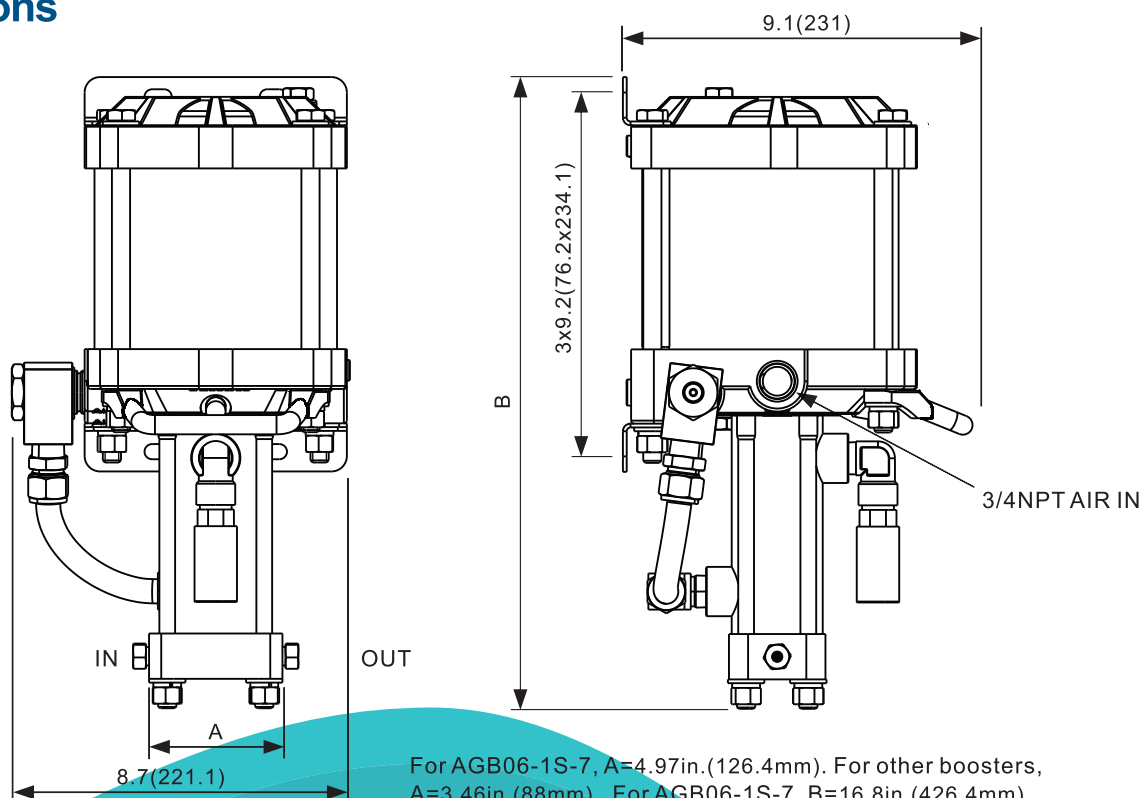
Performance and Specification

Booster Model Code	Max. Rated Gas Supply	Min. Rated Gas Supply	Max. Rated Gas Outlet (psig)			Actual ML Per Cycle	Outlet Stall Press. Formula	Compression Ratio Max.	Inlet & Outlet Gas Ports
			Inert Gas	Hydrogen	Oxygen				
AGB06-1S-7	1050psig	25psig	1050	1050	1050	216ML	7 Pa	20:1	3/8"FNPT
AGB06-1S-15	2250psig	50psig	2250	2250	2250	102ML	15 Pa	20:1	1/4"HF
AGB06-1S-30	4500psig	100psig	4500	4500	4500	51ML	30 Pa	25:1	1/4"HF
AGB06-1S-50	7500psig	100psig	7500	7500	5000	32ML	50 Pa	25:1	1/4"HF
AGB06-1S-75	11250psig	250psig	11250	11250	5000	20ML	75 Pa	25:1	1/4"HF

HF means female high pressure connection.

Dimensions

in.(mm)

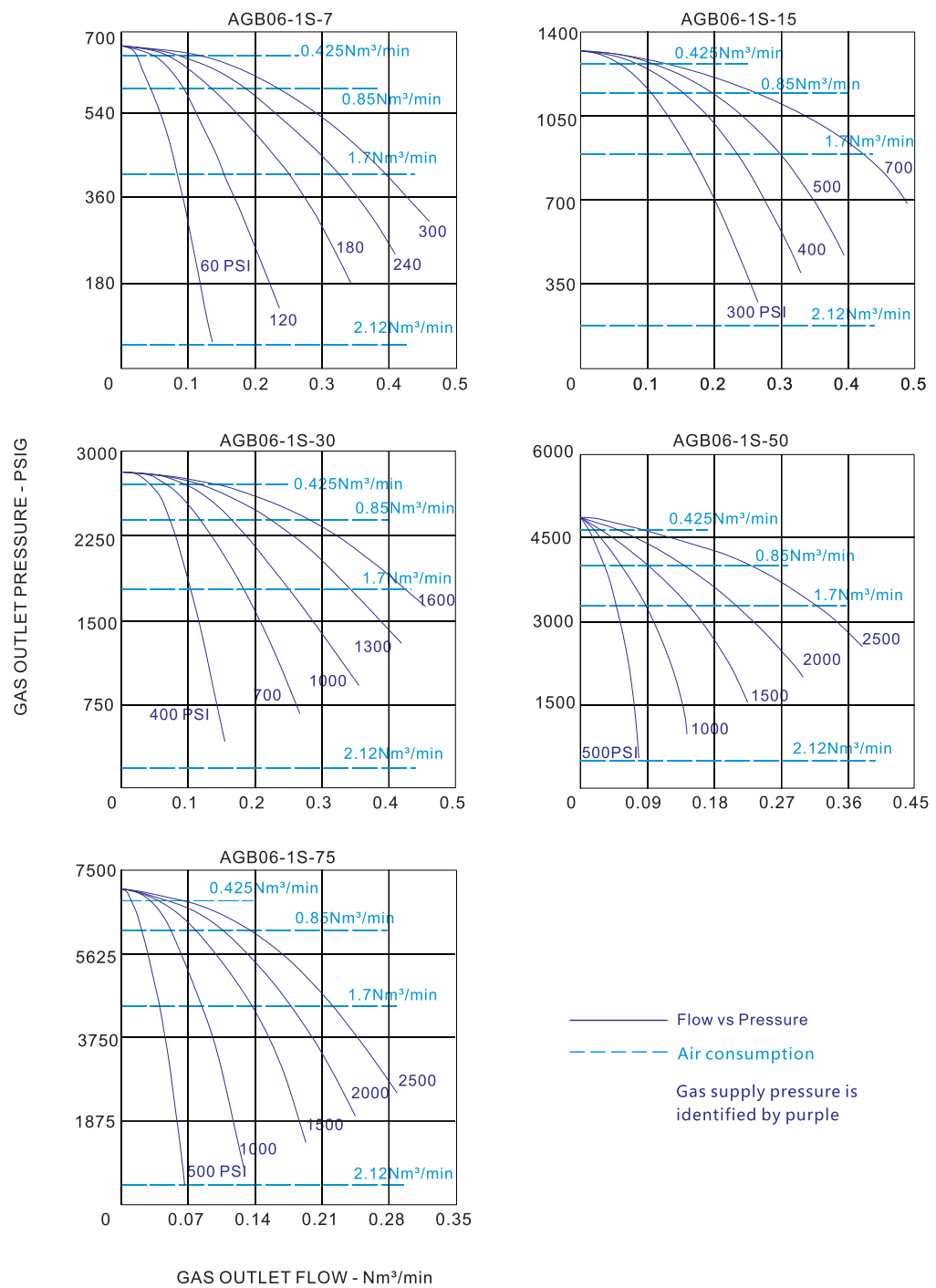


EXPLAIN

- All model code listed are standard.
 Oxygen gas service add "-O" after the model codes.
 Hydrogen gas service add "-H" after the model codes.
 Replaces all Buna static and dynamic seals in the drive section of the gas booster add "-V" after the model codes.
 With external pilot port on air drive section add "-X" after the model codes.
 With external pilot port on air drive section & pressure switch add "-XS" after the model codes.
- Other sizes, materials and types are available upon request. For special requirements, please contact us.

Email: ordre@habuas.com

Performance Curves — air drive source of approximately 90 psig





AGB06 Series

Double Drive Single Acting

Features

- ★ Choice of 3 ratios.
- ★ Max. air drive pressure $P_a=150$ psig(10.3 bar).
- ★ Choice of seal materials.
- ★ Higher outlet pressure to 20000 psig(1379 bar).
- ★ No lubricator required.



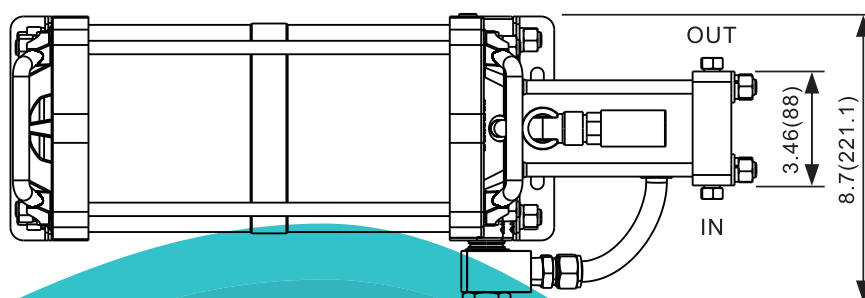
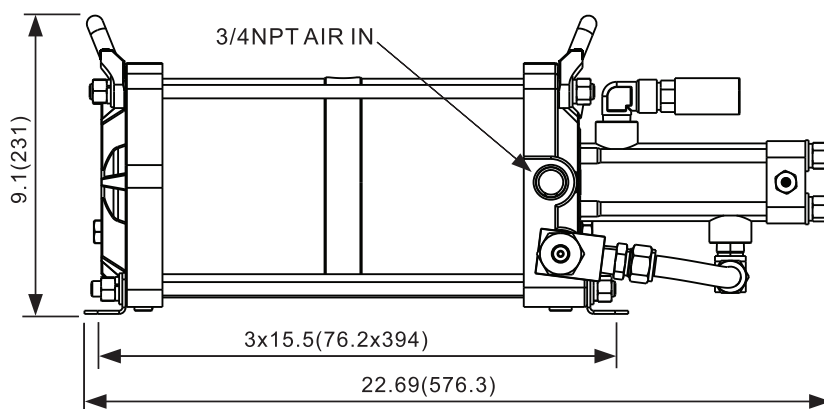
Performance and Specification

Booster Model Code	Max. Rated Gas Supply	Min. Rated Gas Supply	Max. Rated Gas Outlet(psig)			Actual ML Per Cycle	Outlet Stall Press. Formula	Compression Ratio Max.	Inlet & Outlet Gas Ports
			Inert Gas	Hydrogen	Oxygen				
AGB06-2S-60	9000psig	200psig	9000	9000	5000	51ML	60 Pa	25:1	1/4"HF
AGB06-2S-100	12000psig	100psig	12000	12000	5000	32ML	100 Pa	25:1	1/4"HF
AGB06-2S-150	20000psig	250psig	20000	15000	5000	20ML	150 Pa	25:1	1/4"HF

HF means female high pressure connection.

Dimensions

in.(mm)



EXPLAIN

1. All model code listed are standard.

Oxygen gas service add "-O" after the model codes.

Hydrogen gas service add "-H" after the model codes.

Replaces all Buna static and dynamic seals in the drive section of the gas booster add "-V" after the model codes.

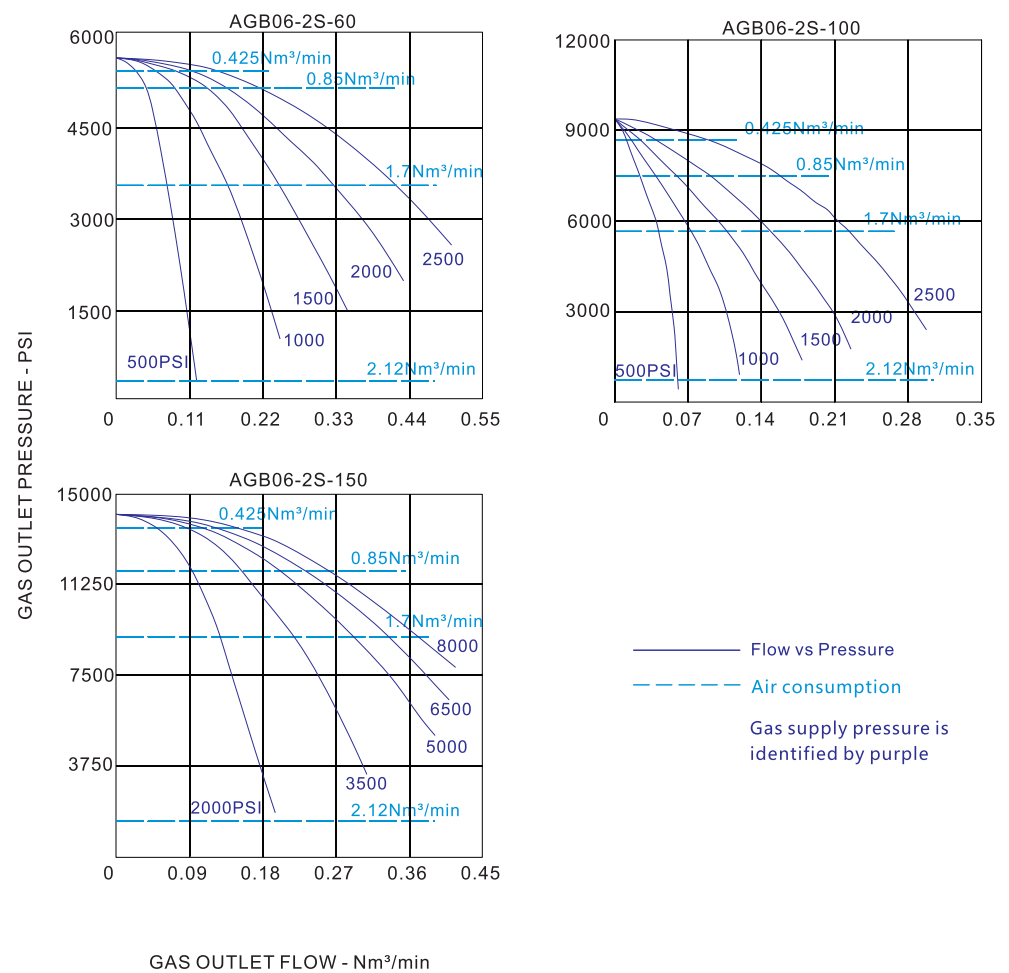
With external pilot port on air drive section add "-X" after the model codes.

With external pilot port on air drive section & pressure switch add "-XS" after the model codes.

2. Other sizes, materials and types are available upon request. For special requirements, please contact us.

Email: ordre@habuas.com

Performance Curves — air drive source of approximately 90 psig





AGB06 Series

Single Drive Double Acting

Features

- ★ Higher efficiency than single-acting boosters.
- ★ Max. air drive pressure $P_a=150$ psig(10.3 bar).
- ★ Less restriction on gas supply pressure P_s .
- ★ Choice of seal materials.
- ★ Pressure to 15000 psig(1034 bar).
- ★ No lubricator required.



Performance and Specification

Booster Model Code	Max. Rated Gas Supply	Min. Rated Gas Supply	Max. Rated Gas Outlet (psig)			Actual ML Per Cycle	Outlet Stall Press. Formula	Compression Ratio Max.	Inlet & Outlet Gas Ports
			Inert Gas	Hydrogen	Oxygen				
AGB06-1D-4	1250psig	ATM	1250	1250	1250	316ML	4 P_a+P_s	10:1	3/8" FNPT
AGB06-1D-7	2500psig	25psig	2500	2500	2500	432ML	7 P_a+P_s	20:1	3/8" FNPT
AGB06-1D-15	5000psig	50psig	5000	5000	5000	203ML	15 P_a+P_s	20:1	1/4" HF
AGB06-1D-30	9000psig	100psig	9000	9000	5000	102ML	30 P_a+P_s	25:1	1/4" HF
AGB06-1D-50	15000psig	100psig	15000	15000	5000	64ML	50 P_a+P_s	25:1	1/4" HF
AGB06-1D-75	15000psig	250psig	15000	15000	5000	39ML	75 P_a+P_s	25:1	1/4" HF

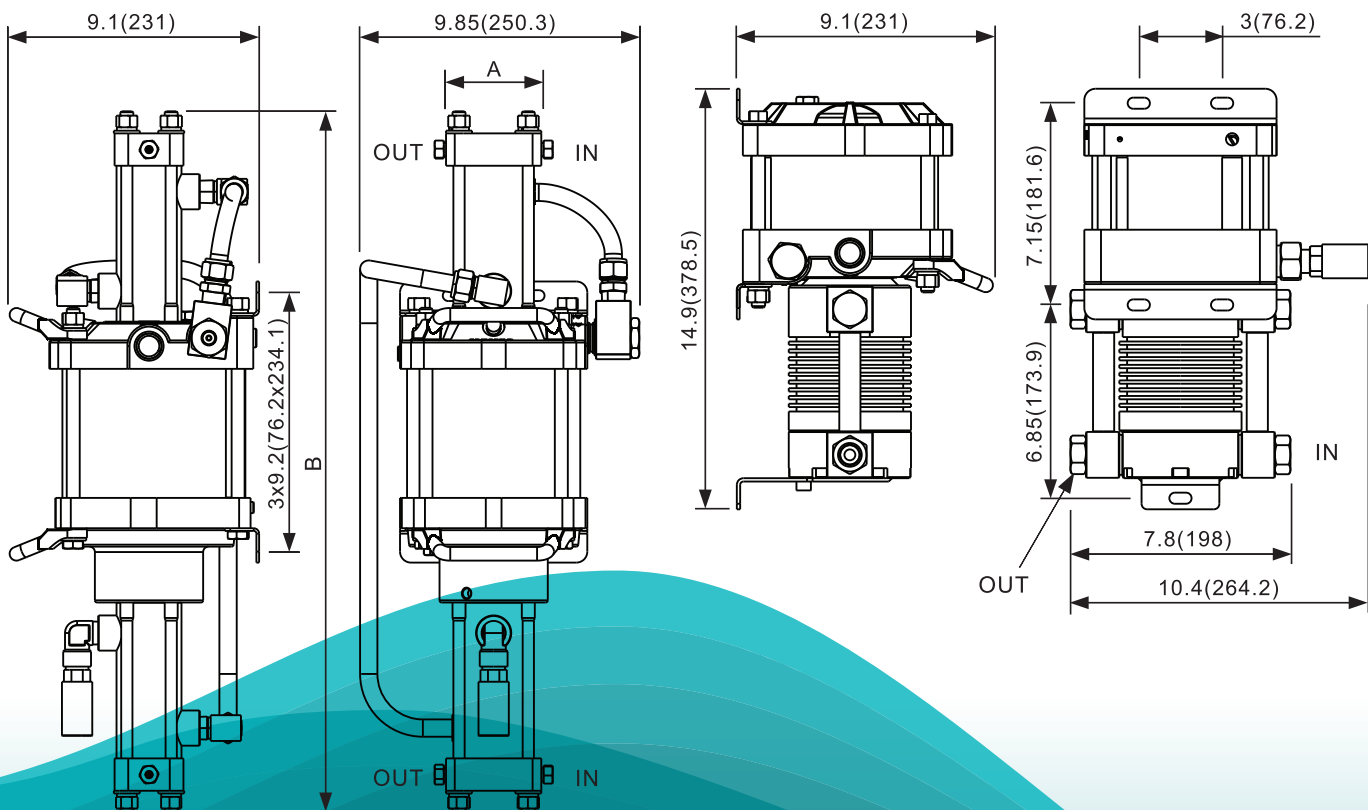
HF means female high pressure connection.

Dimensions

in.(mm)

-7, -15, -30, -50, -75

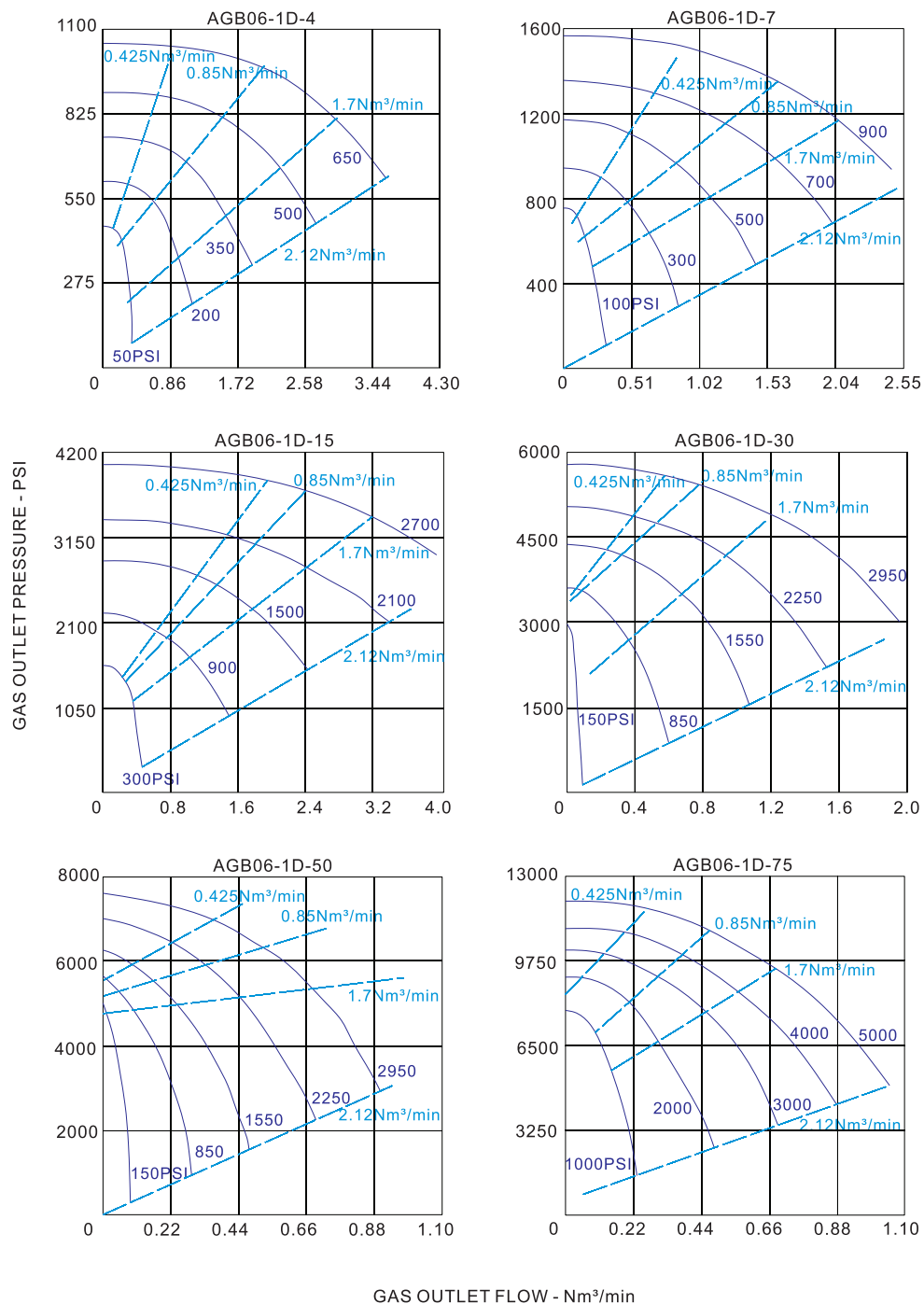
-4



-7 Boosters: A=4.97in.(126.4mm). -15, -30, -50, -75 Boosters : A=3.46in.(88mm).
 -7 Boosters: B=26.3in.(668mm). -15, -30, -50, -75 Boosters : B=25.5in.(648mm).
 3/4 female NPT AIR IN for all models.

Email: ordre@habuas.com

Performance Curves — air drive source of approximately 90 psig



EXPLAIN

1. All model code listed are standard.

Oxygen gas service add "-O" after the model codes.

Hydrogen gas service add "-H" after the model codes.

Replaces all Buna static and dynamic seals in the drive section of the gas booster add "-V" after the model codes.

With external pilot port on air drive section add "-X" after the model codes.

With external pilot port on air drive section & pressure switch add "-XS" after the model codes.

2. Other sizes, materials and types are available upon request. For special requirements, please contact us.



AGB06 Series

Double Drive Double Acting

Features

- ★ Higher efficiency than single-acting boosters.
- ★ Max. air drive pressure $P_a=150$ psig(10.3 bar).
- ★ Less restriction on gas supply pressure P_s .
- ★ Choice of seal materials.
- ★ Higher outlet pressure to 25000 psig(1724 bar).
- ★ No lubricator required.



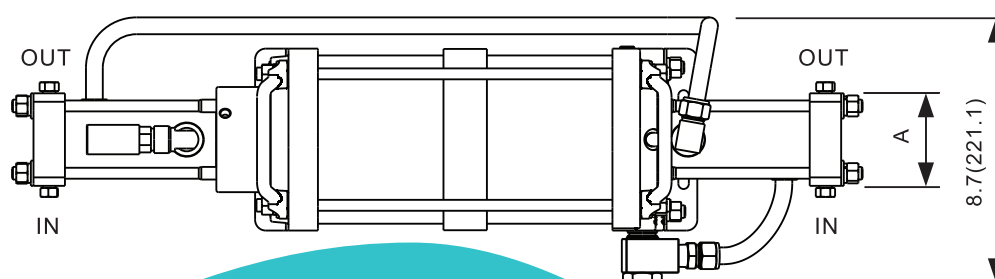
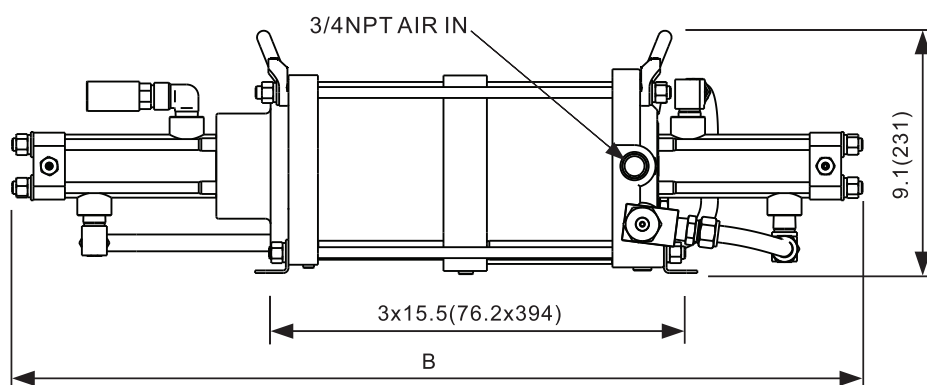
Performance and Specification

Booster Model Code	Max. Rated Gas Supply	Min. Rated Gas Supply	Max. Rated Gas Outlet (psig)			Actual ML Per Cycle	Outlet Stall Press. Formula	Compression Ratio Max.	Inlet & Outlet Gas Ports
			Inert Gas	Hydrogen	Oxygen				
AGB06-2D-14	3500psig	25psig	5000	5000	5000	432ML	14 Pa+Ps	20:1	3/8"FNPT
AGB06-2D-30	5000psig	50psig	5000	5000	5000	203ML	30 Pa+Ps	20:1	1/4"HF
AGB06-2D-60	9000psig	200psig	9000	9000	5000	102ML	60 Pa+Ps	25:1	1/4"HF
AGB06-2D-100	15000psig	100psig	15000	15000	5000	64ML	100 Pa+Ps	25:1	1/4"HF
AGB06-2D-150	25000psig	250psig	25000	15000	N/A	39ML	150 Pa+Ps	25:1	1/4"HF

HF means female high pressure connection.

Dimensions

in.(mm)



For AGB06-2D-14, A=4.97in.(126.4mm). For other boosters, A=3.46in.(88mm).
For AGB06-2D-14, B=32.64in.(829mm). For other boosters, B=31.85in.(809mm).

EXPLAIN

1. All model code listed are standard.

Oxygen gas service add "-O" after the model codes.

Hydrogen gas service add "-H" after the model codes.

Replaces all Buna static and dynamic seals in the drive section of the gas booster add "-V" after the model codes.

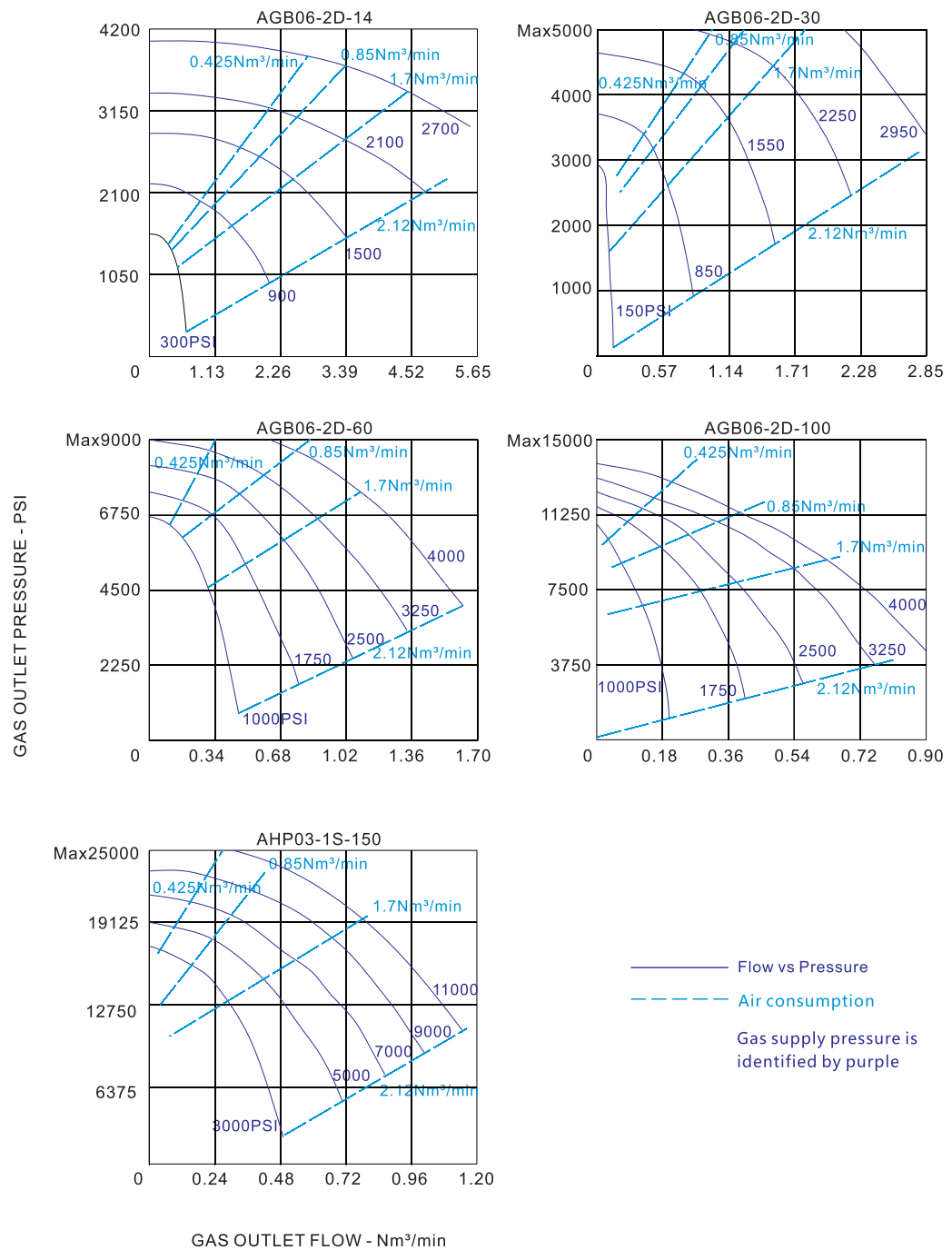
With external pilot port on air drive section add "-X" after the model codes.

With external pilot port on air drive section & pressure switch add "-XS" after the model codes.

2. Other sizes, materials and types are available upon request. For special requirements, please contact us.

Email: ordre@habuas.com

Performance Curves — air drive source of approximately 90 psig





AGB06 Series

Single Drive Double Stage

Features

- ★ Because it has a higher compression ratio, it can work at lower gas supply pressure Ps.
- ★ Max. air drive pressure $P_a=150$ psig(10.3 bar).
- ★ Choice of seal materials.
- ★ Pressure to 15000 psig(1034 bar).
- ★ No lubricator required.



Performance and Specification

Booster Model Code	Max. Gas Supply	Min. Gas Supply	Max. Rated Gas Outlet (psig)			Actual ML Per Cycle	Outlet Stall Press. Formula	Compression Ratio Max.	Max. barrel Safe Pressure	
			Inert Gas	Hydrogen	Oxygen				First stage	Second stage
AGB06-1T-4	1250psig	1/4ATM	1250	1250	1250	164ML	$4 P_a + P_s$	100:1	1250psig	1250psig
AGB06-1T-7/15	6 Pa	25psig	4050	4050	4050	216ML	$15 P_a + 2 P_s$	50:1	2500psig	5000psig
AGB06-1T-7/30	2 Pa	25psig	5700	5700	5000	216ML	$30 P_a + 4 P_s$	100:1	2500psig	9000psig
AGB06-1T-15/30	15 Pa	50psig	7500	7500	5000	102ML	$30 P_a + 2 P_s$	50:1	5000psig	9000psig
AGB06-1T-15/50	6.5 Pa	100psig	10700	10000	5000	102ML	$50 P_a + 3.3 P_s$	75:1	5000psig	15000psig
AGB06-1T-15/75	3.5 Pa	100psig	15000	15000	5000	102ML	$75 P_a + 5 P_s$	100:1	5000psig	25000psig
AGB06-1T-30/50	45 Pa	100psig	15000	15000	5000	51ML	$50 P_a + 1.6 P_s$	40:1	9000psig	15000psig
AGB06-1T-30/75	20 Pa	100psig	15000	15000	5000	51ML	$75 P_a + 2.5 P_s$	60:1	9000psig	25000psig

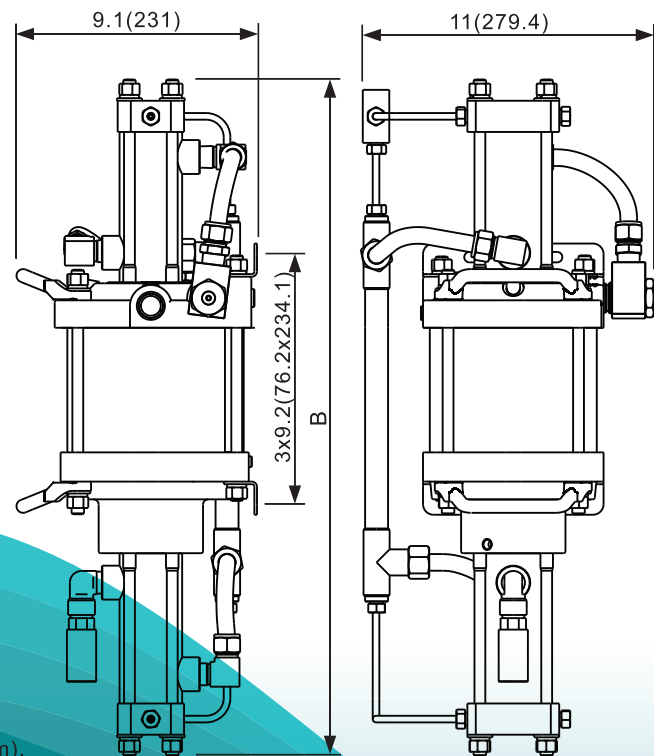
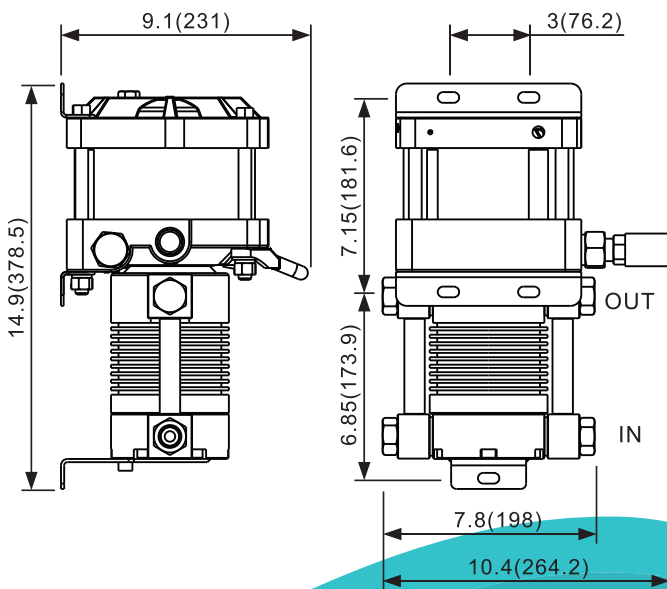
When the pressure of the first stage exceeds the Max. barrel Safe Pressure listed in the table. Install interstage relief valve set at this pressure.

Dimensions

in.(mm)

AGB06-1T-4

All other models except AGB06-1T-4



3/4 female NPT AIR IN for all models.

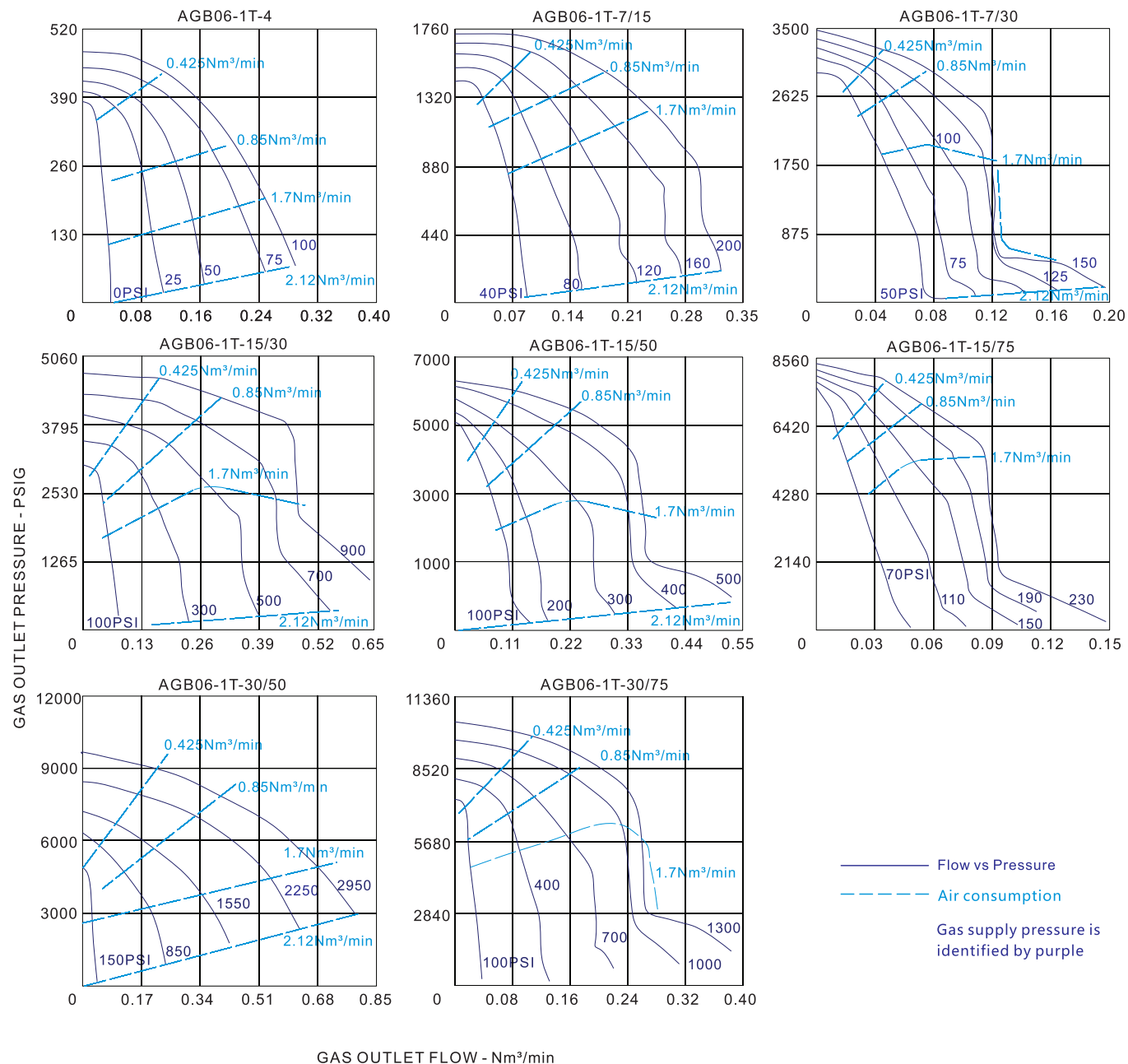
-7 /15 & -7/30 Boosters: B=25.9in.(658mm).

-15/30, -15/50, -15/75, -30/50, -30/75 Boosters :B=25.5in.(648mm).

For AGB06-1T-7 /15 & AGB06-1T-7/30 & AGB06-1t-4 the inlet ports are 3/8 female NPT. For other boosters the inlet port are 1/4 female high pressure connection. For AGB06-1t-4 the outlet port is 3/8 female NPT.

For all the other boosters the outlet ports are 1/4 female high pressure connection.

Email: ordre@habuas.com



EXPLAIN

1. All model code listed are standard.
Oxygen gas service add “-O” after the model codes.
Hydrogen gas service add “-H” after the model codes.
Replaces all Buna static and dynamic seals in the drive section of the gas booster add “-V” after the model codes.
With external pilot port on air drive section add “-X” after the model codes.
With external pilot port on air drive section & pressure switch add “-XS” after the model codes.
2. Other sizes, materials and types are available upon request. For special requirements, please contact us.



AGB06 Series

Double Drive Double Stage

Features

- ★ Because it has a higher compression ratio, it can work at lower gas supply pressure Ps.
- ★ Max. air drive pressure Pa=150 psig(10.3 bar).
- ★ Choice of seal materials.
- ★ Pressure to 25000 psig(1724 bar).
- ★ No lubricator required.



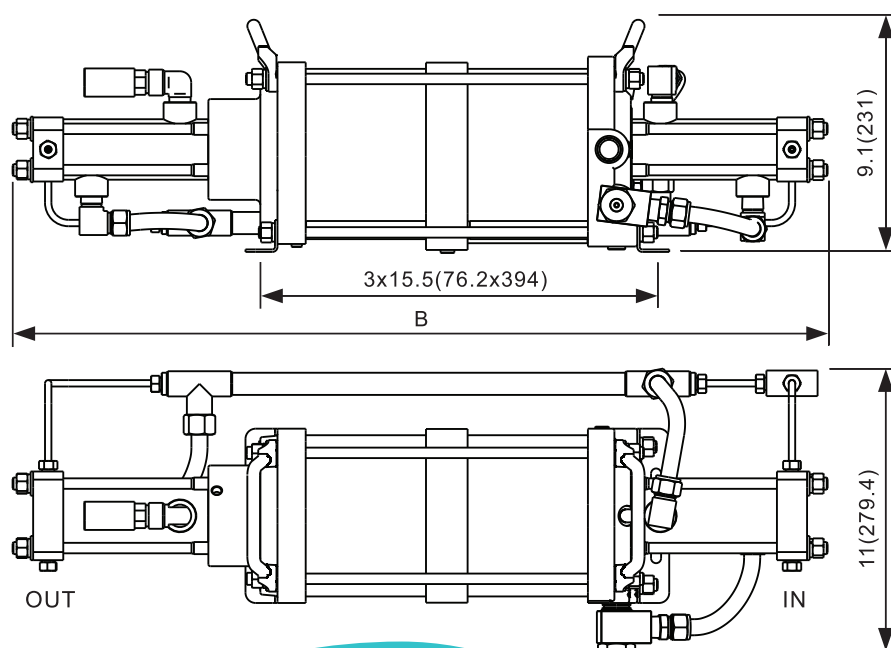
Performance and Specification

Booster Model Code	Max. Gas Supply	Min. Gas Supply	Max. Rated Gas Outlet (psig)			Actual ML Per Cycle	Outlet Stall Press. Formula	Compression Ratio Max.	Max. barrel Safe Pressure	
			Inert Gas	Hydrogen	Oxygen				First stage	Second stage
AGB06-2T-14/30	12 Pa	25psig	5000	5000	5000	216ML	30 Pa+2 Ps	50:1	2500psig	5000psig
AGB06-2T-14/60	4 Pa	25psig	9000	9000	5000	216ML	60 Pa+4 Ps	100:1	2500psig	9000psig
AGB06-2T-30/60	30 Pa	100psig	9000	9000	5000	102ML	60 Pa+2 Ps	50:1	5000psig	9000psig
AGB06-2T-30/100	13 Pa	100psi	14500	14500	5000	102ML	100 Pa+3.3 Ps	75:1	5000psig	15000psig
AGB06-2T-30/150	7 Pa	100psig	15000	15000	5000	102ML	150 Pa+5 Ps	100:1	5000psig	25000psig
AGB06-2T-60/100	90 Pa	100psig	15000	15000	5000	51ML	100 Pa+1.6 Ps	40:1	9000psig	15000psig
AGB06-2T-60/150	40 Pa	100psig	25000	15000	N/A	51ML	150 Pa+2.5 Ps	60:1	9000psig	25000psig

When the pressure of the first stage exceeds the Max. barrel Safe Pressure listed in the table. Install interstage relief valve set at this pressure.

Dimensions

in.(mm)



3/4 female NPT AIR IN for all models.

For AGB06-2T-14 /30 & AGB06-2T-14/60 : B=32.24in.(819mm). For other boosters :B=31.85in.(809mm).

For AGB06-2T-14 /30 & AGB06-2T-14/60 the inlet port are 3/8 female NPT. For other boosters the inlet port are 1/4 female high pressure connection. For all the boosters the outlet ports are 1/4 female high pressure connection.

EXPLAIN

1. All model code listed are standard.

Oxygen gas service add "-O" after the model codes.

Hydrogen gas service add "-H" after the model codes.

Replaces all Buna static and dynamic seals in the drive section of the gas booster add "-V" after the model codes.

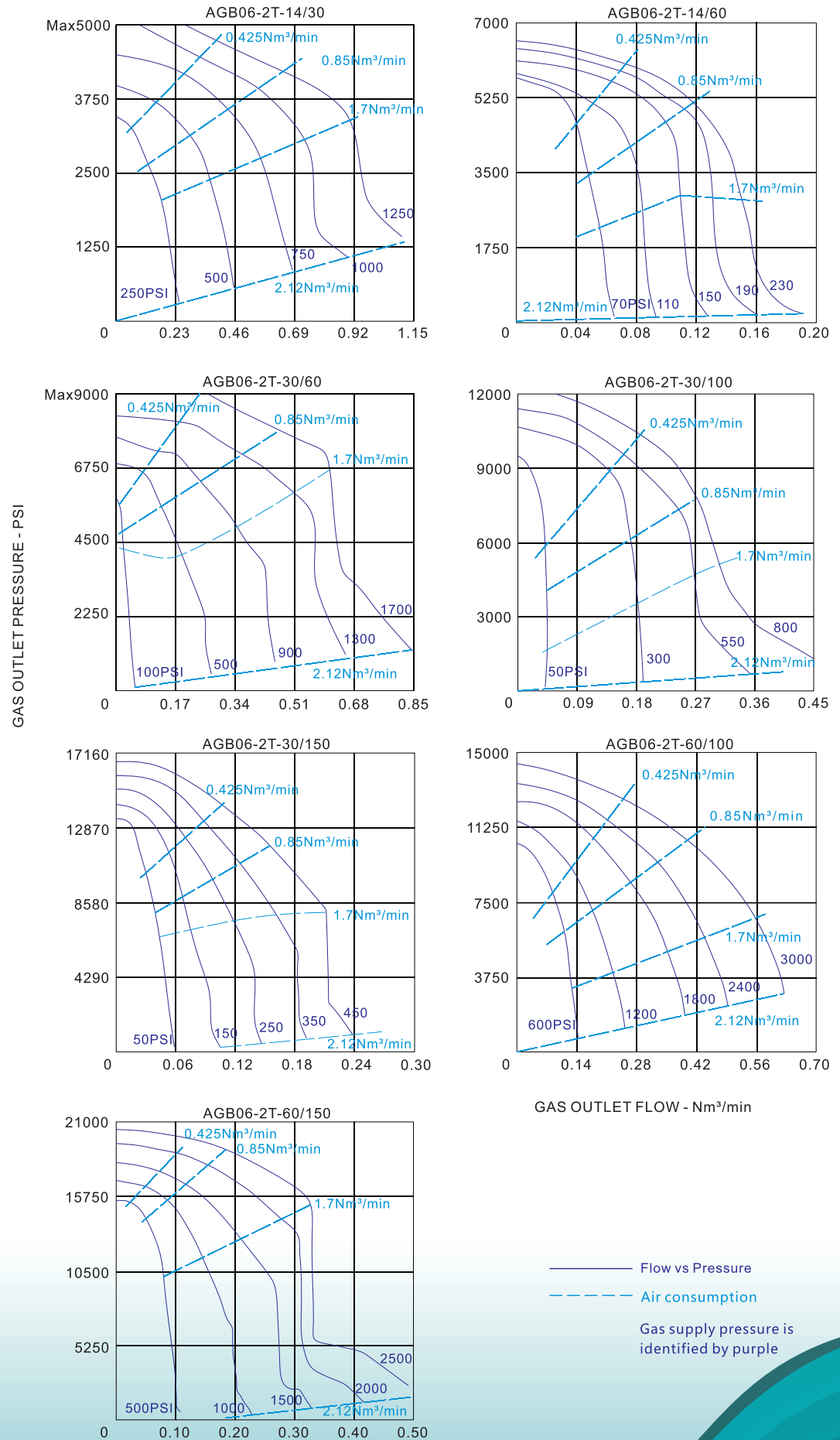
With external pilot port on air drive section add "-X" after the model codes.

With external pilot port on air drive section & pressure switch add "-XS" after the model codes.

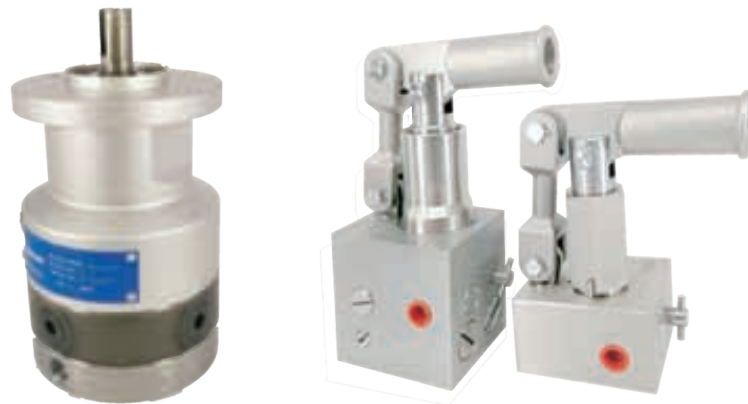
2. Other sizes, materials and types are available upon request. For special requirements, please contact us.

Email: ordre@habuas.com

Performance Curves — air drive source of approximately 90 psig



HYDR-STAR FLUID CONTROL COMPANY LIMITED



Manual Pumps & Electrical Pumps



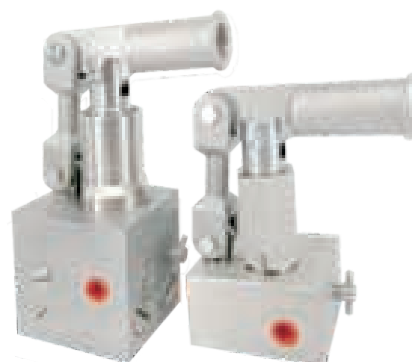
Manual Pump

Features

- ★ Can be repaired without removing the pump from system.
- ★ Replaceable pump spool.
- ★ Piston hardened and ground.
- ★ 26.5" handlebar reduces the operating force.

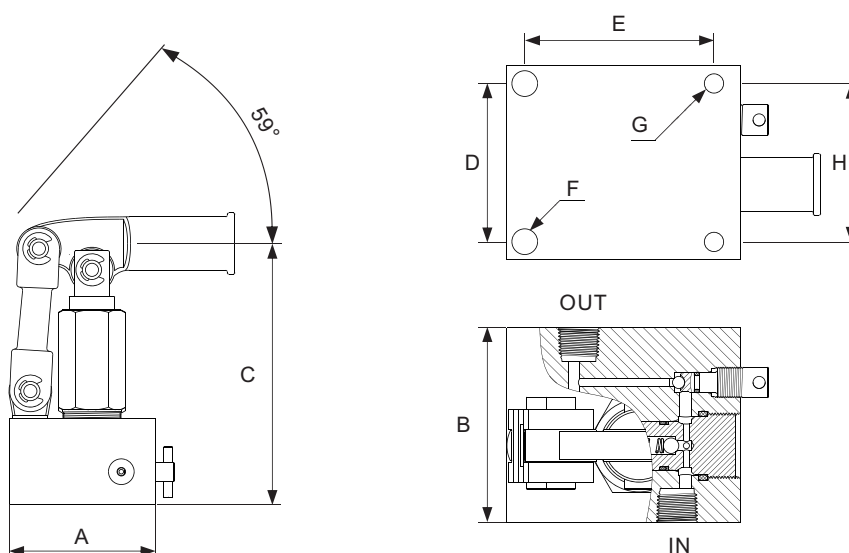
Description

These pumps provide a low cost efficient means for manually increasing pressure in a hydraulic system where emergency standby power is needed. Before increasing pressure, please use the handlebar to close the vent valve if there is one.



Performance and Specification

Single piston pump with vent



Ordering Code	MAX.Press.	VOL. pre Stroke	Ports	Handle Load pre 100psi
MP**OA- **	20000 psig	2.6 mL	3/8 Female NPT	0.27 kg
MP**1A- **	10000 psig	4.1 mL	3/8 Female NPT	0.51 kg
MP**2A- **	5000 psig	9.2 mL	3/8 Female NPT	1.05 kg
MP**3A- **	2500 psig	17.7 mL	3/8 Female NPT	2.1 kg
MP**2D- **	20000 psig	9.2 mL under 5000psig 2.6 ml up 5000psig	3/8 Female NPT Inlet 3/8 High Press. Outlet	1.05 kg under 5000psig 0.27 kg up 5000psig
MP**3D- **	30000 psig	9.2 mL under 5000psig 1.7 mL up 5000psig	3/8 Female NPT Inlet 3/8 High Press. Outlet	1.05 kg under 5000psig 0.15 kg up 5000psig

Email: ordre@habuas.com

Dimensions

in.(mm)

Pump Type	A	B	C	D	E	H	F thread	G thread
Single Piston,Relief & Vent	3. 76(95.5)	3.15 (80)	6.67(169.5)	2.25(57.2)	3.06(77.8)	2.5(63.5)	M12	M8
Single Piston	3. 76(95.5)	2.36(60)	6.67(169.5)	1.46(37.2)	3.06(77.8)	1.71(43.5)	M12	M8
Single Piston,Relief	3. 76(95.5)	3. 15(80)	6.67(169.5)	2.25(57.2)	3.06(77.8)	2.5(63.5)	M12	M8
Single Piston,Vent	3. 76(95.5)	3. 15(80)	6.67(169.5)	2.25(57.2)	3.06(77.8)	2.5(63.5)	M12	M8
Double Piston, Vent	3. 76(95.5)	3.94(100)	8.41(213.5)	3.04(77.2)	3.24(82.3)	3.29(83.5)	M12	M8
Double Piston	3. 76(95.5)	3.94(100)	8.41(213.5)	3.04(77.2)	3.24(82.3)	3.29(83.5)	M12	M8

Ordering Code : MP-SS-1A-RV

Code	Body Material	Code	Pump Type	Code	With Relief	Code	With Vent
SS	316 SS	0A	20000 psig,Single Piston	None	No	None	No
SL	316L SS	1A	10000 psig,Single Piston	R	yes	V	Yes
S4	304 SS	2A	5000 psig,Single Piston				
CS	Carbon Steel	3A	2500 psig,Single Piston				
		2D	20000 psig,Double Piston				
		3D	30000 psig,Double Piston				

Standard pump working Temperature range from -29°C to 120°C.

Other sizes and types available upon Request. For special requirements, please contact us.

Repair kit

Repair kit:Contains all seals

Repair Kit Ordering Code: KIT-MP-1A-RV

Code	Pump Type	Code	With Relief	Code	With Vent
0A	20000 psig,Single Piston	None	No	None	No
1A	10000 psig,Single Piston	R	yes	V	Yes
2A	5000 psig,Single Piston				
3A	2500 psig,Single Piston				
2D	20000 psig,Double Piston				
3D	30000 psig,Double Pisto				



Electrical Pump

3 Inch Body Pumps Features

- ★ Choice of 0.25 l/min, 0.45 l/min and 0.64 l/min 3 ratios.
- ★ High-strength alloy steel pump body, and stainless steel shell optional.
- ★ Low power consumption, and very low noise.
- ★ Standard Buna N seals for -29~120°C service, other seals available.
- ★ Output pressures up to 6000 psi (414 bar).
- ★ Pump can rotate clockwise and counterclockwise.

Description

The pump is a plunger pump, it needs to be driven by a motor and recommend using electric motor. It requires very little power, so solar energy can be used as an energy source for its motor. These pumps are used on wellhead control panel systems, Power packs on high-torque service tools. The pump application medium is hydraulic oil and it needs to be installed at a lower position than the tank. Before starting the pump, you must vent the air in the pump chamber.

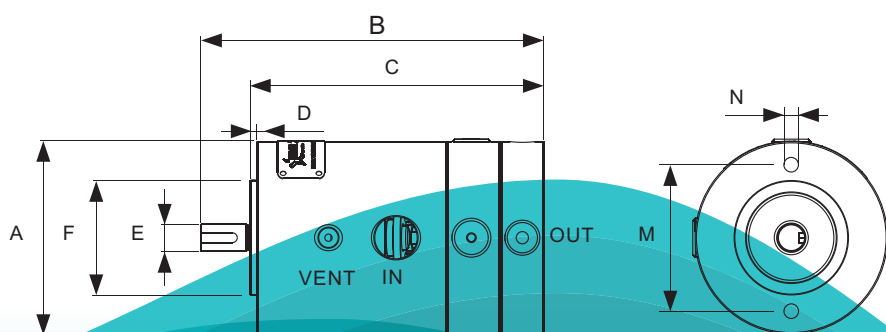


Performance and Specification

Ordering Code	Rated Press. psi(bar)	Max. Intermittent Press. psi(bar)	Flow at 1500rpm	Max. Speed	Stainless Steel Shell	Inlet Port	Outlet Port
ELP-3A01N	6000(414)	6000(414)	0.24l/min	3000rpm	No	1/2"NPT	1/8"NPT
ELP-3A02N	6000(414)	6000(414)	0.45l/min	3000rpm	No	1/2"NPT	1/8"NPT
ELP-3A03N	6000(414)	6000(414)	0.64l/min	3000rpm	No	1/2"NPT	1/8"NPT
ELP-3B01N	6000(414)	6000(414)	0.24l/min	3000rpm	Yes	1/2"NPT	1/8"NPT
ELP-3B02N	6000(414)	6000(414)	0.45l/min	3000rpm	Yes	1/2"NPT	1/8"NPT
ELP-3B03N	6000(414)	6000(414)	0.64l/min	3000rpm	Yes	1/2"NPT	1/8"NPT
ELP-3A01G	6000(414)	6000(414)	0.24l/min	3000rpm	No	G1/2"	G1/8"
ELP-3A02G	6000(414)	6000(414)	0.45l/min	3000rpm	No	G1/2"	G1/8"
ELP-3A03G	6000(414)	6000(414)	0.64l/min	3000rpm	No	G1/2"	G1/8"
ELP-3B01G	6000(414)	6000(414)	0.24l/min	3000rpm	Yes	G1/2"	G1/8"
ELP-3B02G	6000(414)	6000(414)	0.45l/min	3000rpm	Yes	G1/2"	G1/8"
ELP-3B03G	6000(414)	6000(414)	0.64l/min	3000rpm	Yes	G1/2"	G1/8"

1. Output flows are based on typical performance using 100 SUS (20 cSt) mineral oil at rated pressure.
2. Ordering codes listed are standard. Other materials and types are available upon request. For special requirements, please contact us.

Dimensions



Size A	3.11 in.(79 mm)	Size E	0.43 in.(11 mm)
Size B	5.56 in.(141.3 mm)	Size F	1.85 in.(47 mm)
Size C	4.77 in.(121.1 mm)	Size M	2.56 in.(65 mm)
Size D	0.11 in.(2.8 mm)	Size N	M8

Email: ordre@habuas.com

4 Inch Body Pumps

Features

- ★ Choice of 0.64 l/min, 1.02 l/min, 1.4 l/min and 2.1 l/min 4 ratios.
- ★ High-strength alloy steel pump body, and stainless steel shell optional.
- ★ Standard Buna N seals for -29~120°C service, other seals available.
- ★ Output pressures up to 15000 psi (1034 bar).
- ★ Pump can rotate clockwise and counterclockwise.
- ★ Large Flow, and very low noise.

Description

The pump is a plunger pump, it needs to be driven by a motor and recommend using electric motor. These pumps can be used on wellhead control panel systems, Power packs on high-torque service tools. The pump application medium is hydraulic oil and it needs to be installed at a lower position than the tank. Before starting the pump, you must vent the air in the pump chamber.

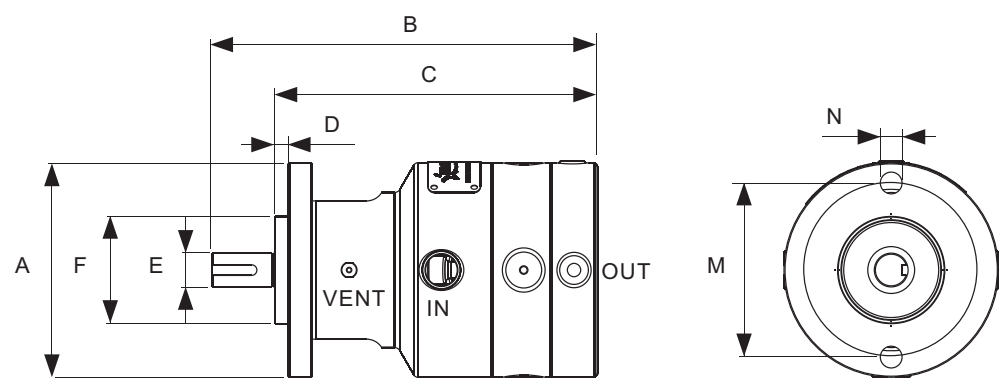


Performance and Specification

Ordering Code	Rated Press. psi(bar)	Max. Intermittent Press. psi(bar)	Flow at 1500rpm	Max. Speed	Stainless Steel Shell	Inlet Port	Outlet Port
ELP-4A03N	10000(690)	15000(1034)	0.64l/min	3000rpm	No	1/2"NPT	1/4"NPT
ELP-4A04N	10000(690)	15000(1034)	1.02l/min	3000rpm	No	1/2"NPT	1/4"NPT
ELP-4A05N	10000(690)	15000(1034)	1.4l/min	3000rpm	No	1/2"NPT	1/4"NPT
ELP-4A06N	10000(690)	15000(1034)	2.1l/min	3000rpm	No	1/2"NPT	1/4"NPT
ELP-4B03N	10000(690)	15000(1034)	0.64l/min	3000rpm	Yes	1/2"NPT	1/4"NPT
ELP-4B04N	10000(690)	15000(1034)	1.02l/min	3000rpm	Yes	1/2"NPT	1/4"NPT
ELP-4B05N	10000(690)	15000(1034)	1.4l/min	3000rpm	Yes	1/2"NPT	1/4"NPT
ELP-4B06N	10000(690)	15000(1034)	2.1l/min	3000rpm	Yes	1/2"NPT	1/4"NPT
ELP-4A03G	10000(690)	15000(1034)	0.64l/min	3000rpm	No	G1/2"	G1/4"
ELP-4A04G	10000(690)	15000(1034)	1.02l/min	3000rpm	No	G1/2"	G1/4"
ELP-4A05G	10000(690)	15000(1034)	1.4l/min	3000rpm	No	G1/2"	G1/4"
ELP-4A06G	10000(690)	15000(1034)	2.1l/min	3000rpm	No	G1/2"	G1/4"
ELP-4B03G	10000(690)	15000(1034)	0.64l/min	3000rpm	Yes	G1/2"	G1/4"
ELP-4B04G	10000(690)	15000(1034)	1.02l/min	3000rpm	Yes	G1/2"	G1/4"
ELP-4B05G	10000(690)	15000(1034)	1.4l/min	3000rpm	Yes	G1/2"	G1/4"
ELP-4B06G	10000(690)	15000(1034)	2.1l/min	3000rpm	Yes	G1/2"	G1/4"
ELP-4A03M	10000(690)	15000(1034)	0.64l/min	3000rpm	No	1/2"NPT	1/4" MF
ELP-4A04M	10000(690)	15000(1034)	1.02l/min	3000rpm	No	1/2"NPT	1/4" MF
ELP-4A05M	10000(690)	15000(1034)	1.4l/min	3000rpm	No	1/2"NPT	1/4" MF
ELP-4A06M	10000(690)	15000(1034)	2.1l/min	3000rpm	No	1/2"NPT	1/4" MF
ELP-4B03M	10000(690)	15000(1034)	0.64l/min	3000rpm	Yes	1/2"NPT	1/4" MF
ELP-4B04M	10000(690)	15000(1034)	1.02l/min	3000rpm	Yes	1/2"NPT	1/4" MF
ELP-4B05M	10000(690)	15000(1034)	1.4l/min	3000rpm	Yes	1/2"NPT	1/4" MF
ELP-4B06M	10000(690)	15000(1034)	2.1l/min	3000rpm	Yes	1/2"NPT	1/4" MF

1. Output flows are based on typical performance using 100 SUS (20 cSt) mineral oil at rated pressure.
2. MF means 20000psi female medium pressure connection.
3. Ordering codes listed are standard. Other materials and types are available upon request. For special requirements, please contact us.

Dimensions



Size A	4 in.(101.6 mm)	Size E	0.63 in.(16 mm)
Size B	7.2 in.(182.9 mm)	Size F	2 in.(50.8 mm)
Size C	6.02 in.(153 mm)	Size M	3.25 in.(82.5 mm)
Size D	0.26 in.(6.5 mm)	Size N	0.41 in(10.5mm)

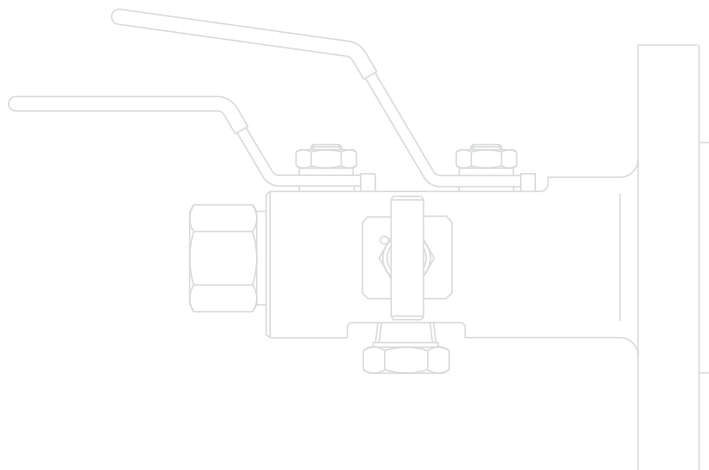
Repair kit

Repair kit:Contains the main seals

Repair Kit Ordering Code: **KIT-ELP-4N**

Code	Size	Code	Seal
4	4" Body Pump	N	Buna N
3	3" Body Pump	V	Viton
		K	Kalrez

Email: ordre@habuas.com



Habu Solutions AS

Risavika Havnering 97

N-4056 Tananger

Norway

Tel: +47 47 47 85 55

24 hours duty phone: +47 404 48 624

Email: ordre@habuas.com

Web: www.habusolutions.no

