

HAL-LOK



pressure regulator sample book

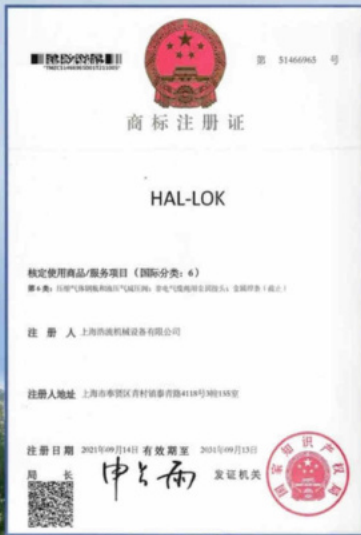
上海浩流机械设备有限公司
Shanghai Haoliu Machinery Equipment Co., LTD

INTRODUCTION

Shanghai HaoLiu Machinery Equipment Co.,Ltd. Mainly produces and sells tube fittings, pipe fittings, quick connectors, stainless steel pressure regulator, diaphragm valves, stainless steel ball valves, stainless steel needle valves, instrument manifolds, seamless steel pipes, and provides gas pipeline engineering installation. The company has a group of high-quality engineering quality technical talents and management personnel, continuously introducing advanced technical experience, production equipment, and testing instrument from both domestic and foreign countries, and is committed to becoming a leading enterprise in the mechanical industry.

Our products sell well both domestically and internationally, and can be provided in the various forms such as single and double ferrules. They can be interchanged and used with international brands. Our products are widely used in petrochemical, natural gas, metallurgy, analytical instruments, biopharmaceutical, paper, food, shipbuilding, semiconductor and other fields.

We will make unremitting efforts, innovate continuously, improve product quality, improve after-sales service, and win strong support and praise from customers.



Pressure Regulators



Single-stage regulator,
P1 - P2



One pressure gauge regulator,
P3 - P4



Bipolar regulator,
P5 - P6



Large flow regulators,
P7 - P8

Gas Control Panel



P9 - P10



P11 - P12



P13



P14



P15



P16

HL8SL Series Stainless Steel Pressure Regulator

Features

- ▶ Single-stage pressure reducing structure
- ▶ Two pressure gauges
- ▶ The body and diaphragm are hard sealed
- ▶ Female thread: 1/4"NPT (F)
- ▶ The internal structure is easy to purge, built in filter screen
- ▶ Panel type or wall type installation can be adopted
- ▶ Needle valve and diaphragm valve can be selected for air outlet



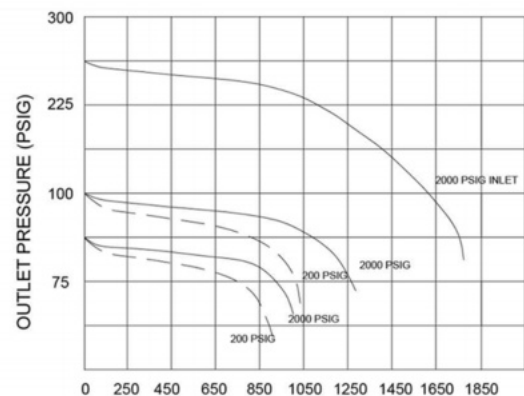
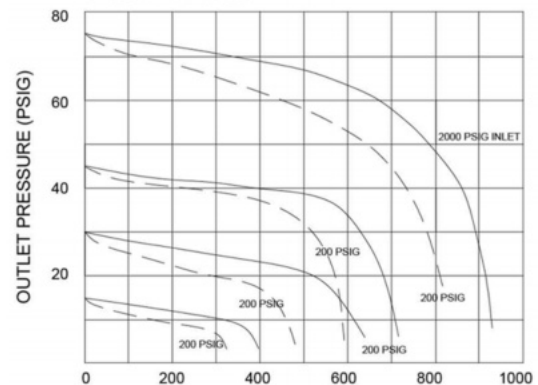
Specifications

- ▶ Inlet pressure max.: 3000psig
- ▶ Outlet pressure: 0~25psig, 0~50psig, 0~100psig, 0~250psig, 0~500psig
- ▶ Operating temperature: -40 ° F ~ +165 ° (-40 ° C ~ +74 ° C)
- ▶ Proof pressure: 150% of Maximum rated pressure
- ▶ Leak rate: 2×10^{-8} atm cc/sec He
- ▶ Cv: 0.08

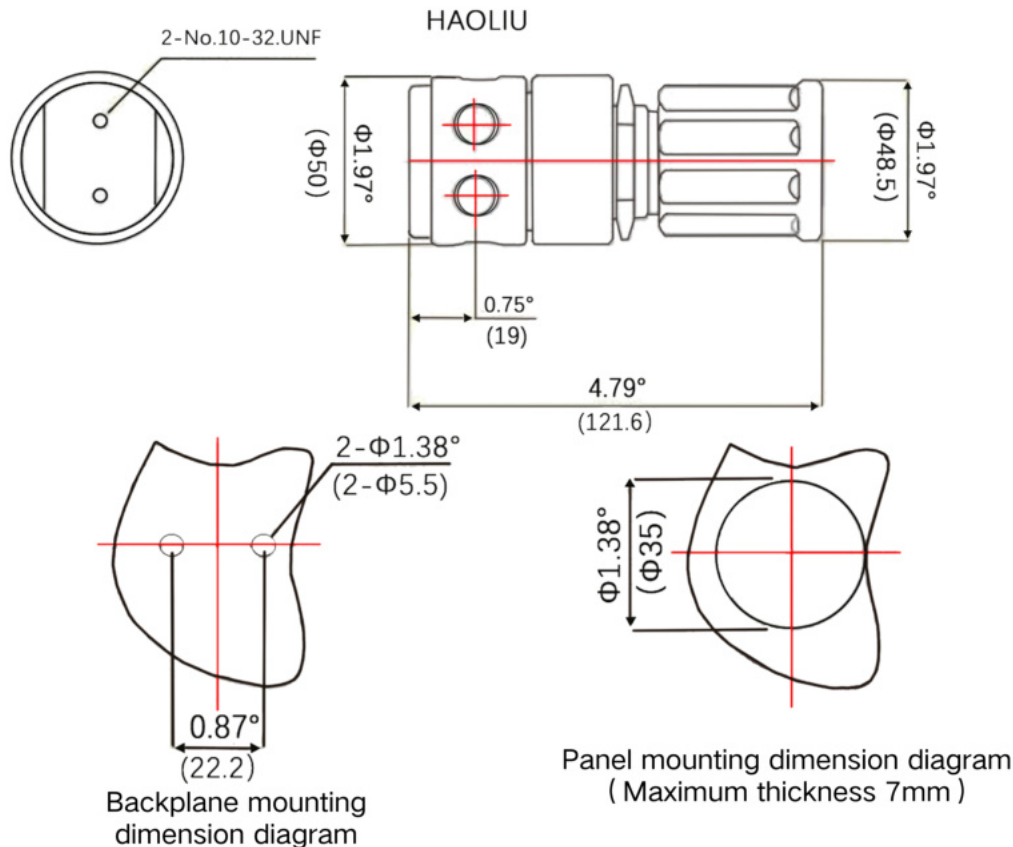
Materials Of Construction

- ▶ Body: SS316L
- ▶ Bonnet: 304 SS
- ▶ Diaphragm: Alloy C-276
- ▶ Valve seat: PCTFE
- ▶ Valve rod: SS316L

Flow Data



Dimensions



Ordering Information

Series	Outlet Gauge	Inlet Gauge
Example: HL8SL	Example: 0-25Mpa	Example: 0-1.6Mpa
So the order number is:HL8SL-25M-1.6M		

Series	Body Materials	Body ports	Inlet pressure	Outlet pressure	Gauge	Inlet connection	Outlet connection	Option
HL8SL	SS316L	A	D: 3000psig	H:0-150psig	G:With gauge	00:1/4"NPT(F)	00:1/4"NPT(F)	P:Panel mounting
		B	X:2200psig	I:0-100psig	(MPa)	01:1/4"NPT(M)	01:1/4"NPT(M)	R:Relief valve
		D	F:500psig	K:0-50psig	P:With pressure gauge	23:CGA330	10:1/8" Tube fittings	N:Needle valve
		G		L:0-25psig	(psi/bar)	24:CGA350	11:1/4" Tube fittings	D:Diaphragm valve
		J		M:0-15psig	W:Without gauge	27:CGA580	12:3/8" Tube fittings	
				Q:30"Hg Vac-30psig		28:CGA660	15:6mm Tube fittings	
				S:30"Hg Vac-60psig		30:CGA590	Other connectors available	
				T:30"Hg Vac-100psig		52:G5/8"-RH(F)		
				U:30"Hg Vac-200psig		63:W21.8-14RH(F)		
						64:W21.8-14LH(F)		
						Other connectors available		

NOTE: Dimensions subject to change, to be used for reference only. For detailed parameters, please consult HAL technical support.

HL9SL Series Stainless Steel Pressure Regulator

Features

- ▶ Single-stage pressure reducing structure
- ▶ One pressure gauge
- ▶ The body and diaphragm are hard sealed
- ▶ Female thread: 1/4"NPT (F)
- ▶ The internal structure is easy to purge,built in filter screen
- ▶ Panel type or wall type installation can be adopted
- ▶ Needle valve and diaphragm valve can be selected for air outlet



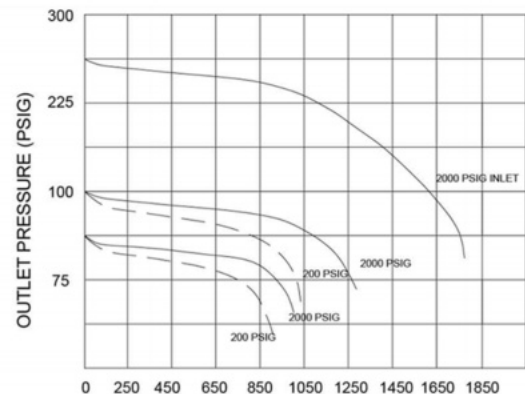
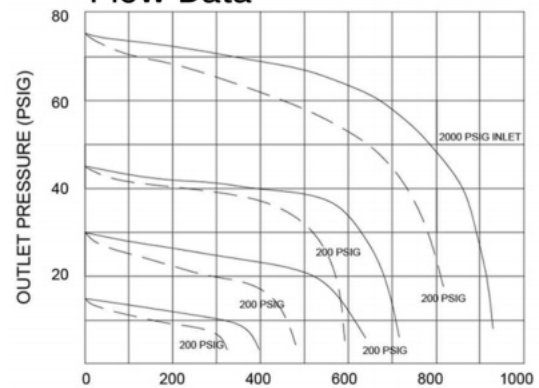
Specifications

- ▶ Inlet pressure max.: 3000psig
- ▶ Outlet pressure: 0~25psig,0~50psig,0~100psig,0~250psig,0~500psig
- ▶ Operating temperature:-40 ° F~+165 ° (-40 ° C~+74 ° C)
- ▶ Proof pressure: 150% of Maximum rated pressure
- ▶ Leak rate: 2×10^{-8} atm cc/sec He
- ▶ Cv:0.08

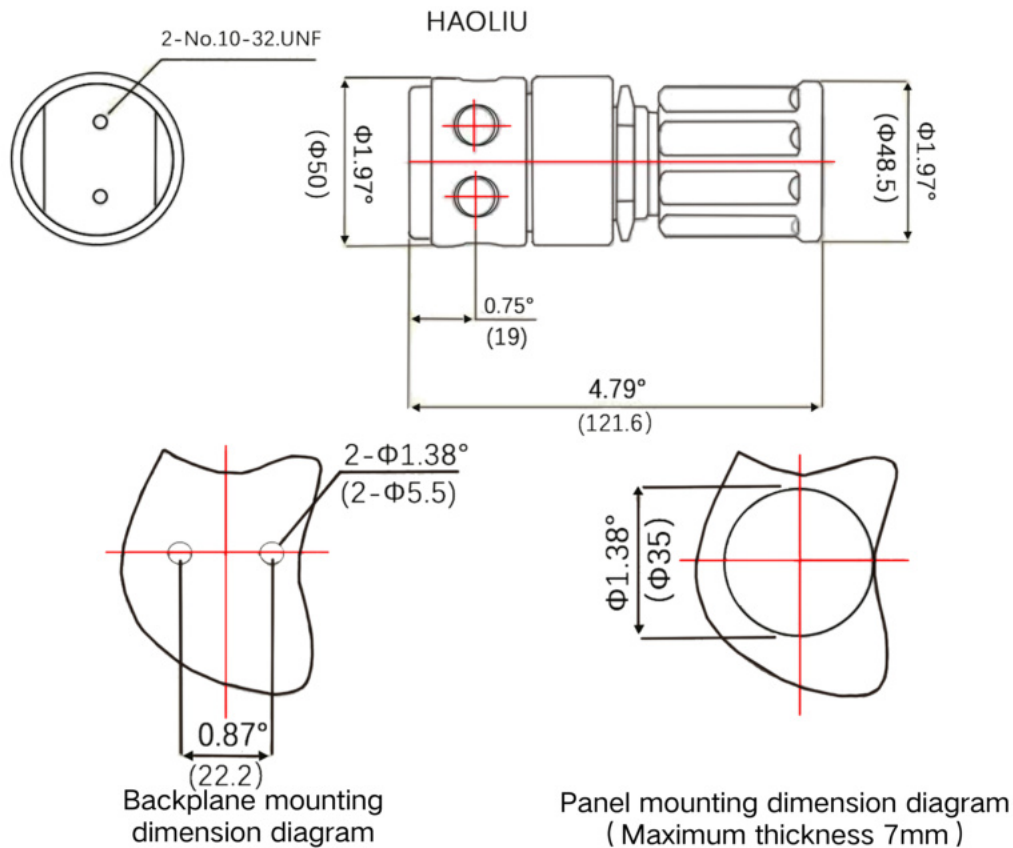
Materials Of Construction

- ▶ Body: SS316L
- ▶ Bonnet: 304 SS
- ▶ Diaphragm: Alloy C-276
- ▶ Valve seat: PCTFE
- ▶ Valve rod: SS316L

Flow Data



Dimensions



Ordering Information

Series	—	Outlet Gauge
Example: HL9SL	—	Example: 0-1.6Mpa
So the order number is: HL8SL-25M-1.6M		

Series	Body Materials	Body ports	Inlet pressure	Outlet pressure	Gauge	Inlet connection	Outlet connection	Option
HL9SL	SS316L	A	D: 3000psig	H:0-150psig	G:With gauge	00:1/4"NPT(F)	00:1/4"NPT(F)	P:Panel mounting
		B	X:2200psig	I:0-100psig	(MPA)	01:1/4"NPT(M)	01:1/4"NPT(M)	R:Relief valve
		C	F:500psig	K:0-50psig	P:With pressure gauge	23:CGA330	10:1/8" Tube fittings	N:Needle valve
		D		L:0-25psig	(psi/bar)	24:CGA350	11:1/4" Tube fittings	D:Diaphragm valve
		G		M:0-15psig	W:Without gauge	27:CGA580	12:3/8" Tube fittings	
		H		Q:30"Hg Vac-30psig		28:CGA660	15:6mm Tube fittings	
		J		S:30"Hg Vac-60psig		30:CGA590	Other connectors available	
		M		T:30"Hg Vac-100psig		52:G5/8"-RH(F)		
				U:30"Hg Vac-200psig		63:W21.8-14RH(F)		
						64:W21.8-14LH(F)		
						Other connectors available		

NOTE: Dimensions subject to change, to be used for reference only. For detailed parameters, please consult HAL technical support.

HL10SL Series Stainless Steel Regulator

Features

- ▶ Tw-stage pressure reducing structure
- ▶ Two pressure gauges
- ▶ The body and diaphragm are hard sealed
- ▶ Female thread: 1/4"NPT (F)
- ▶ The internal structure is easy to purge,built in filter screen
- ▶ Panel type or wall type installation can be adopted
- ▶ Needle valve and diaphragm valve can be selected for air outlet



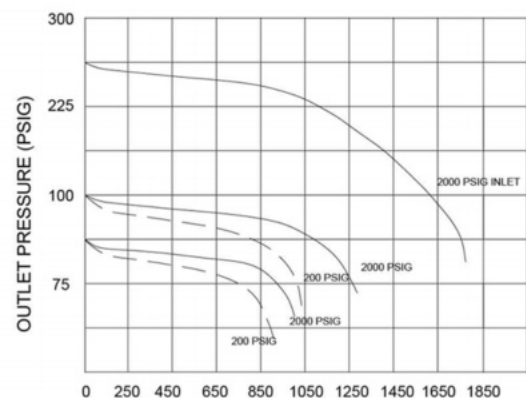
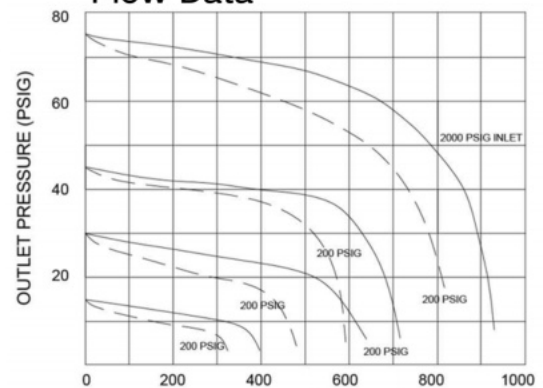
Specifications

- ▶ Inlet pressure max.: 3000psig
- ▶ Outlet pressure: 0~25psig,0~50psig,0~100psig,0~250psig,0~500psig
- ▶ Operating temperature:-40 ° F~+165 ° (-40 ° C~+74 ° C)
- ▶ Proof pressure: 150% of Maximum rated pressure
- ▶ Leak rate: 2×10^{-8} atm cc/sec He
- ▶ Cv:0.08

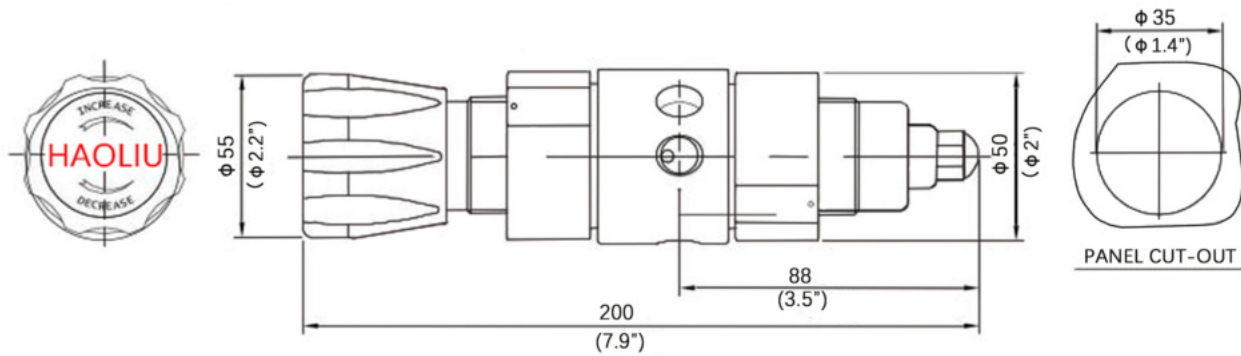
Materials Of Construction

- ▶ Body: SS316L
- ▶ Bonnet: 304 SS
- ▶ Diaphragm: Alloy C-276
- ▶ Valve seat : PCTFE
- ▶ Valve rod : SS316L

Flow Data



Dimensions



Ordering Information

Series	Inlet Gauge	Outlet Gauge
Example: HL10SL	Example: 0-25Mpa	Example: 0-1.6Mpa
So the order number is: HL10SL-25M-1.6M		

Series	Body Materials	Body ports	Inlet pressure	Outlet pressure	Gauge	Inlet connection	Outlet connection	Option
HL10SL	SS316L	A	D: 3000psig	H:0-250psig	G:With gauge	00:1/4"NPT(F)	00:1/4"NPT(F)	P:Panel mounting
		B	X:2200psig	I:0-100psig	(MPA)	00:1/4"NPT(M)	00:1/4"NPT(M)	R:Relief valve
		D	F:1500psig	K:0-50psig	P:With pressure gauge	23:CGA330	10:1/8" Tube fittings	N:Needle valve
				L:0-25psig	(psi/bar)	24:CGA350	11:1/4" Tube fittings	D:Diaphragm valve
				M:0-15psig	W:Without gauge	27:CGA580	12:3/8" Tube fittings	
				Q:30"Hg Vac-30psig		28:CGA660	15:6mm	
				S:30"Hg Vac-60psig		30:CGA590	Other connectors available	
				T:30"Hg Vac-100psig		52:G5/8"-RH(F)		
				U:30"Hg Vac-200psig		63:W21.8-14RH(F)		
						64:W21.8-14LH(F)		
						Other connectors available		

NOTE: Dimensions subject to change, to be used for reference only. For detailed parameters, please consult HAL technical support.

HL11SL Series Stainless Steel Regulator

It is applicable to the occasion of high flow output demand

Features

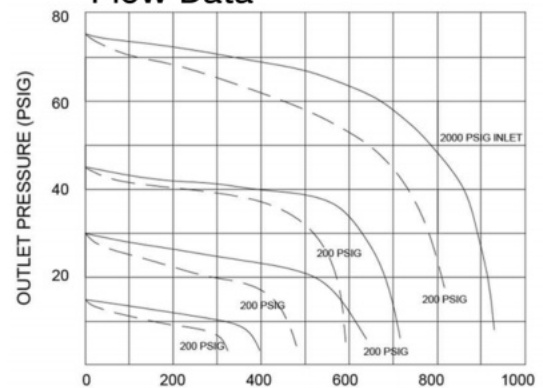
- ▶ Single-stage pressure reducing structure
- ▶ The body and diaphragm are hard sealed
- ▶ Female thread: 1/2"NPT (F),3/4"NPT (F)
- ▶ The internal structure is easy to purge,built in filter screen
- ▶ Panel type or wall type installation can be adopted
- ▶ Needle valve and diaphragm valve can be selected for air outlet



Specifications

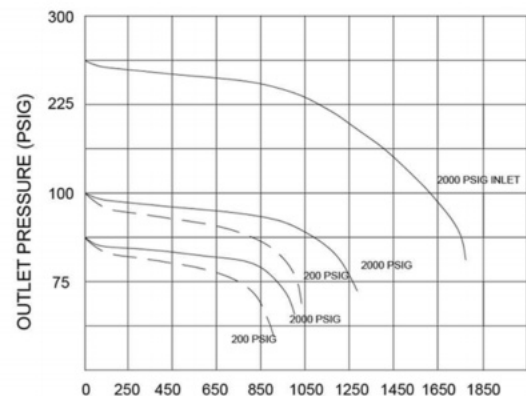
- ▶ Inlet pressure max.: 3000psig
- ▶ Outlet pressure: 0~25psig,0~50psig,0~100psig,0~250psig,0~500psig
- ▶ Operating temperature:-40 ° F~+165 ° (-40 ° C~+74 ° C)
- ▶ Proof pressure: 150% of Maximum rated pressure
- ▶ Leak rate: 2×10^{-8} atm cc/sec He
- ▶ Cv:1.0

Flow Data



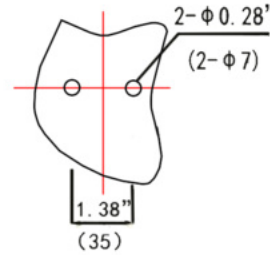
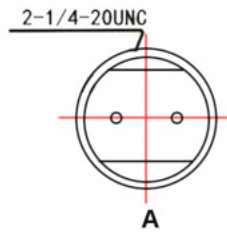
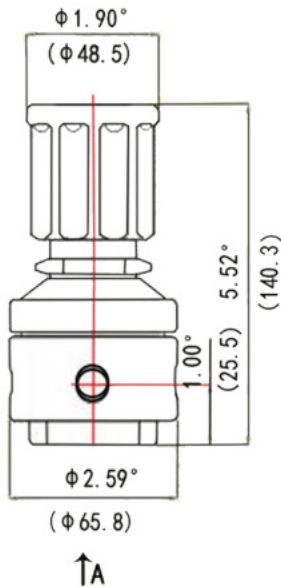
Materials Of Construction

- ▶ Body: SS316L
- ▶ Bonnet: 304 SS
- ▶ Diaphragm: Alloy C-276
- ▶ Valve seat : PCTFE
- ▶ Valve rod : SS316L

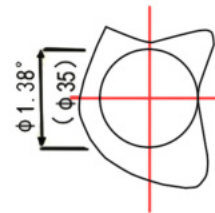


Dimensions

HAOLIU



Backplane mounting dimension diagram



Panel mounting dimension diagram (Maximum thickness 7mm)

Ordering Information

Series	—	Outlet Gauge
Example: HL11SL	—	Example: 0-1.6Mpa
So the order number is: HL11SL-1.6M		

Series	Body Materials	Body ports	Inlet pressure	Outlet pressure	Gauge	Inlet connection	Outlet connection	Option
HL11SL	SS316L	A	E: 1500psig	H:0-125psig	G:With gauge	05:1/2"NPT(M)	05:1/2"NPT(M)	P:Panel mounting
		B	F:500psig	I:0-250psig	(MPA)	06:3/4NPT(F)	06:3/4NPT(F)	R:Relief valve
		D		K:0-100psig	P:With pressure gauge	13: 1/2" Tube fittings	13:1/2" Tube fittings	N:Needle valve
		G		L:0-50psig	(psi/bar)	24:CGA350	11:3/4" Tube fittings	D:Diaphragm valve
		J		M:0-15psig	W:Without gauge	11:3/4" Tube fittings	44:3/8" Tube fittings	
		M		Q:30"Hg Vac-30psig		Other connectors available	Other connectors available	
				S:30"Hg Vac-60psig				
				T:30"Hg Vac-100psig				

NOTE: Dimensions subject to change, to be used for reference only. For detailed parameters, please consult HAL technical support.

HL211 Series Single-Sided Gas Control Panel

Features

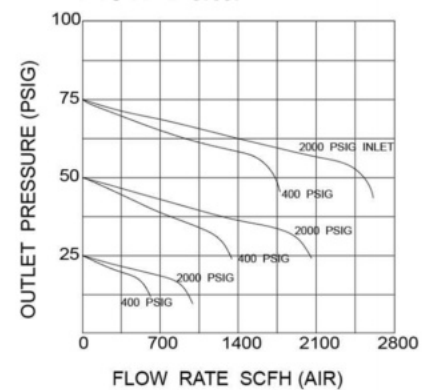
- ▶ Using special gas single-stage pressure regulator
- ▶ Diaphragm valve knob with on/off indicator window
- ▶ Internal structure is easy to blow
- ▶ Expandability with convergence tubes
- ▶ Wall mountable
- ▶ Optional pressure alarm device available



Specifications

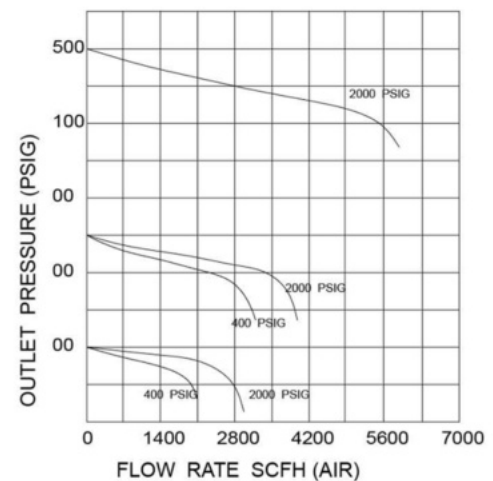
- ▶ Inlet pressure max.: 3000psig
- ▶ Outlet pressure: 0~25psig, 0~50psig, 0~100psig, 0 ~ 250psig, 0~500psig
- ▶ Operating temperature: -40 ° F ~ +165 ° (-40 ° C ~ +74 ° C)
- ▶ Proof pressure: 150% of Maximum rated pressure
- ▶ Leak rate: 2×10^{-8} atm cc/sec He
- ▶ Cv: 0.08
- ▶ Weight: 2.9KG

Flow Data

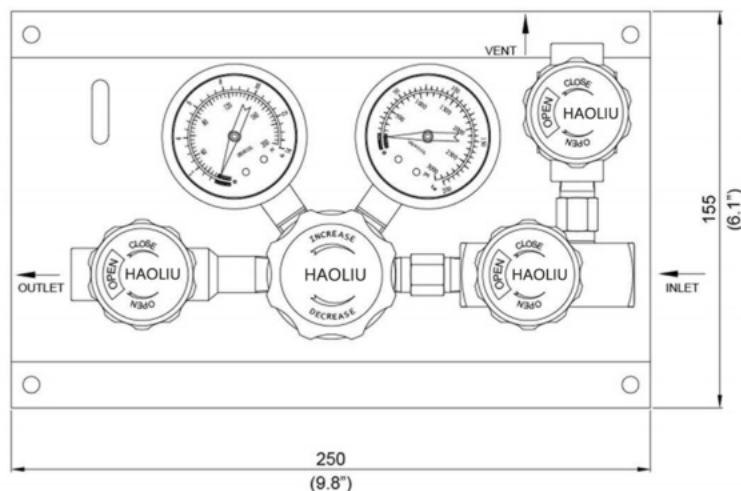
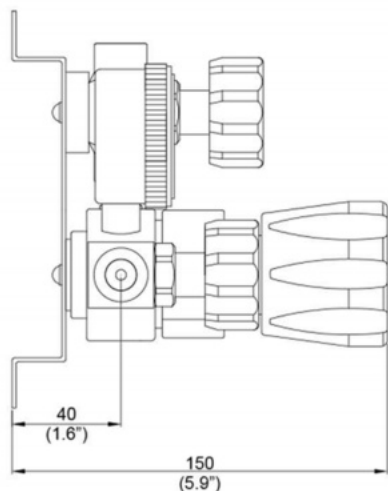


Materials Of Construction

- ▶ Body: SS316L
- ▶ Gasket: PTFE; PCTFE; PEEK
- ▶ Diaphragm valve: SS316L
- ▶ Inlet end: NPT 1/4(Female)



Dimensions



Ordering Information

Series	Body Materials	Body ports	Inlet pressure	Outlet pressure	Gauge	Inlet connection	Outlet connection	Option
HL221	SS316L	A	D: 3000psig	F:0-500psig	G:With gauge	00:1/4"NPT(F)	00:1/4"NPT(F)	AP:High Pressure Hose
		B	X:2200psig	G:0-250psig	(MPA)	00:1/4"NPT(M)	00:1/4"NPT(M)	AR:Metal Tubing
		D	F:1500psig	L:0-100psig	P:With pressure gauge	23:CGA330	10:1/8" Tube fittings	FA:Flashback Arrestor
				K:0-50psig	(psi/bar)	24:CGA350	11:1/4" Tube fittings	F:Relief Valve
				Q:30"Hg Vac-30psig	W:Without gauge	27:CGA580	12:3/8" Tube fittings	
				S:30"Hg Vac-60psig		28:CGA660	15:6mm	
				T:30"Hg Vac-100psig		30:CGA590	Other connectors available	
				U:30"Hg Vac-200psig		52:G5/8"-RH(F)		
						63:W21.8-14RH(F)		
						64:W21.8-14LH(F)		
						Other connectors available		

NOTE: Dimensions subject to change, to be used for reference only. For detailed parameters, please consult HAL technical support.

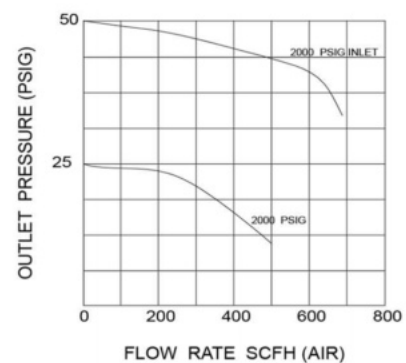
HL222 Series Semi-Automatic Switchover Gas Control Panel



Features

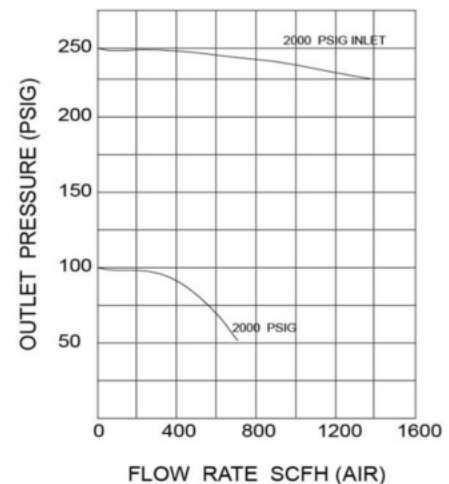
- ▶ Using special gas single-stage pressure regulator
- ▶ Diaphragm valve knob with on/off indicator window
- ▶ Internal structure is easy to blow
- ▶ Expandability with convergence tubes
- ▶ Wall mountable
- ▶ Optional pressure alarm device available

Flow Data



Specifications

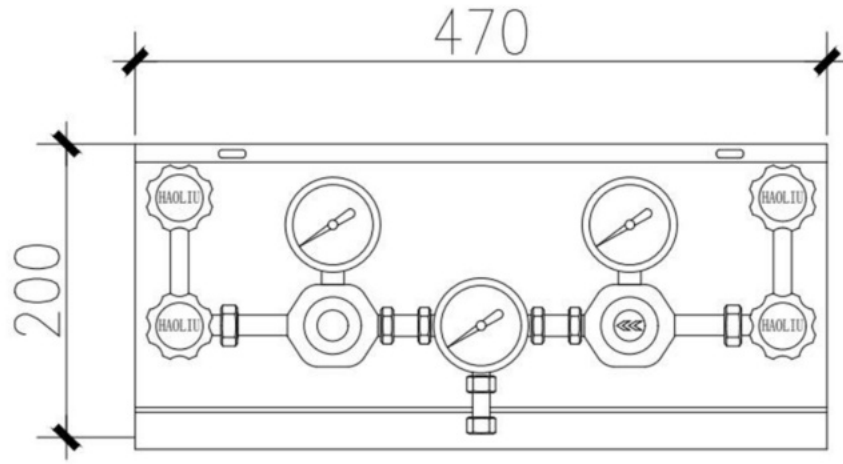
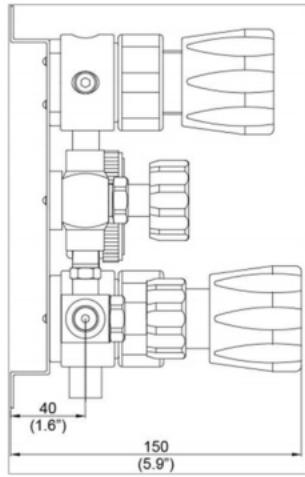
- ▶ Inlet pressure max.: 3000psig
- ▶ Outlet pressure: 0~25psig, 0~50psig, 0~100psig, 0 ~ 250psig
- ▶ Operating temperature: -40 ° F ~ +165 ° (-40 ° C ~ +74 ° C)
- ▶ Proof pressure: 150% of Maximum rated pressure
- ▶ Leak rate: 2×10^{-8} atm cc/sec He
- ▶ Cv: 0.08
- ▶ Weight: 6KG



Materials Of Construction

- ▶ Body: SS316L
- ▶ Gasket: PTFE; PCTFE; PEEK
- ▶ Diaphragm valve: SS316L
- ▶ Inlet end: NPT 1/4 (Female)

Dimensions

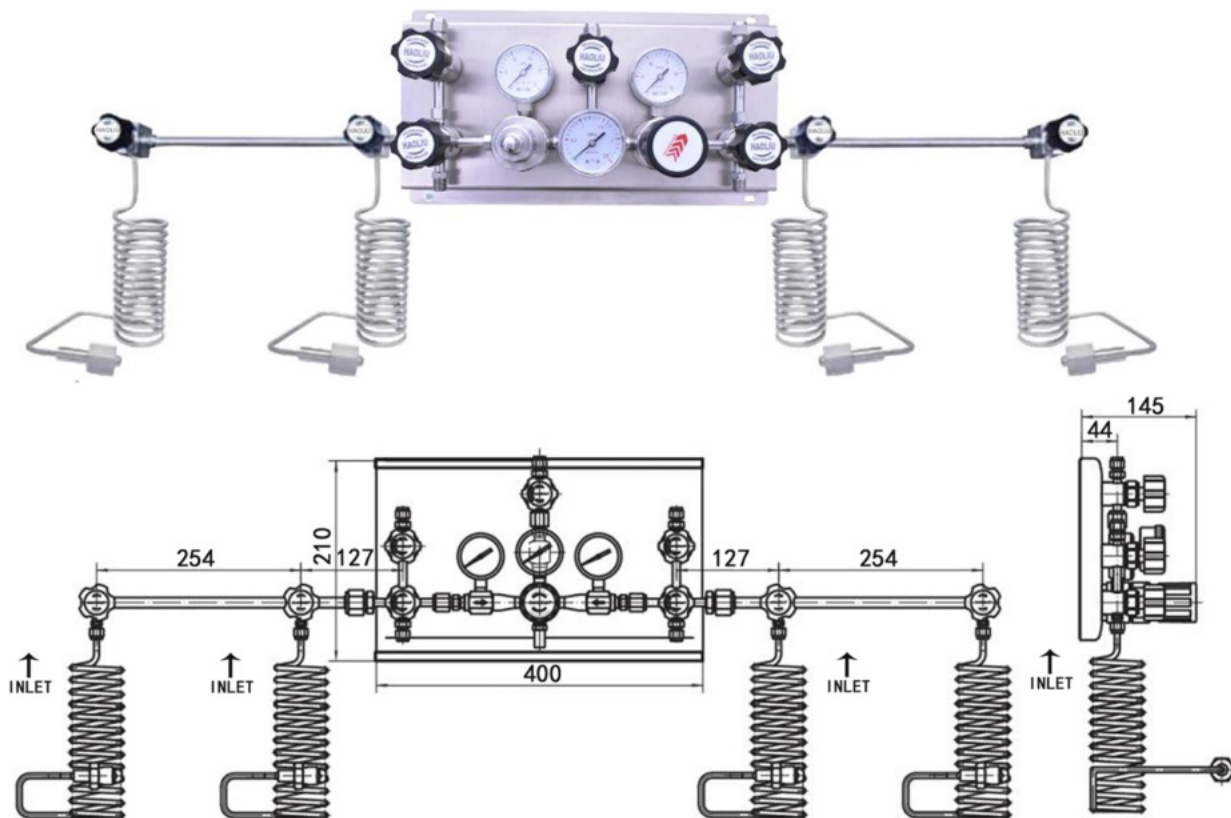


Ordering Information

Series	Body Materials	Inlet pressure	Outlet pressure	Gauge	Inlet connection	Outlet connection	Option
HL222	SS316L	D: 3000psig	G:0-250psig	G:With gauge	00:1/4"NPT(F)	00:1/4"NPT(F)	A:Remote Alarm
		X:2200psig	I:0-100psig	(MPA)	01:1/4"NPT(M)	00:1/4"NPT(M)	AP:High Pressure Hose
		F:500psig	K:0-50psig	P:With pressure gauge	23:CGA330	10:1/8" Tube fittings	AR:Metal Tubing
			L:0-50psig	(psi/bar)	24:CGA350	11:1/4" Tube fittings	FA:Flashback Arrestor
			M:0-15psig		27:CGA580	12:3/8" Tube fittings	D:Outlet Diaphragm Valve
					28:CGA660	15:6mm	
					30:CGA590	16:8mm	
					52:G5/8"-RH(F)	Other connectors available	
					63:W21.8-14RH(F)		
					64:W21.8-14LH(F)		
					Other connectors available		

NOTE: Dimensions subject to change, to be used for reference only. For detailed parameters, please consult HAL technical support.

HL223 Series Double-Sided Gas Control Panel

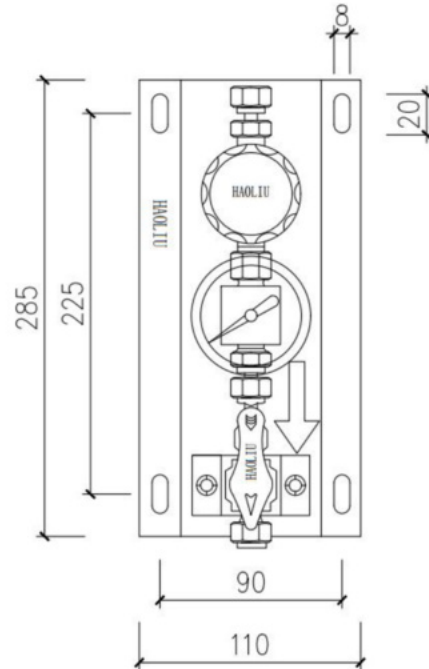


Ordering Information

Series	Body Materials	Inlet pressure	Outlet pressure	Gauge	Inlet connection	Outlet connection	Option
HL223	SS316L	D: 3000psig	G:0-250psig	G:With gauge	00:1/4"NPT(F)	00:1/4"NPT(F)	A:Remote Alarm
		X:2200psig	I:0-100psig	(MPA)	01:1/4"NPT(M)	00:1/4"NPT(M)	AP:High Pressure Hose
		F:500psig	K:0-50psig	P:With pressure gauge	23:CGA330	10:1/8" Tube fittings	AR:Metal Tubing
			L:0-50psig	(psi/bar)	24:CGA350	11:1/4" Tube fittings	FA:Flashback Arrestor
			M:0-15psig		27:CGA580	12:3/8" Tube fittings	R:Relief Valve
					28:CGA660	15:6mm	
					30:CGA590	16:8mm	
					52:G5/8"-RH(F)	Other connectors available	
					63:W21.8-14RH(F)		
					64:W21.8-14LH(F)		
					Other connectors available		

NOTE: Dimensions subject to change, to be used for reference only. For detailed parameters, please consult HAL technical support.

HL224 Series Terminal Gas Control Panel

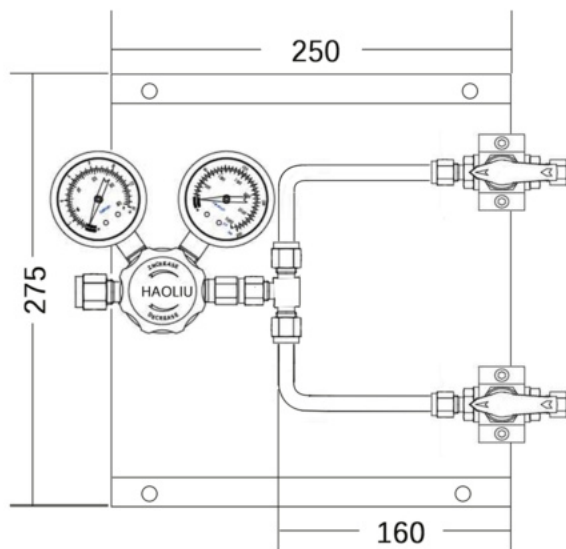


Ordering Information

Series	Body Materials	Body ports	Inlet pressure	Outlet pressure	Gauge	Inlet connection	Outlet connection	Option
HL224	SS316L	A	D: 3000psig	G:0-250psig	G:With gauge	00:1/4"NPT(F)	00:1/4"NPT(F)	A:Remote Alarm
		B	X:2200psig	I:0-100psig	(MPA)	01:1/4"NPT(M)	00:1/4"NPT(M)	AP:High Pressure Hose
		D	F:1500psig	K:0-50psig	P:With pressure gauge	23:CGA330	10:1/8" Tube fittings	AR:Metal Tubing
				L:0-25psig	(psi/bar)	24:CGA350	11:1/4" Tube fittings	F:Relief Valve
				M:0-15psig	W:Without gauge	27:CGA580	12:3/8" Tube fittings	
						28:CGA660	15:6mm	
						30:CGA590	16:8mm	
						52:G5/8"-RH(F)	Other connectors available	
						63:W21.8-14RH(F)		
						64:W21.8-14LH(F)		
						Other connectors available		

NOTE: Dimensions subject to change, to be used for reference only. For detailed parameters, please consult HAL technical support.

HG25SL Series Two-Cylinder Manual Gas Control Panel

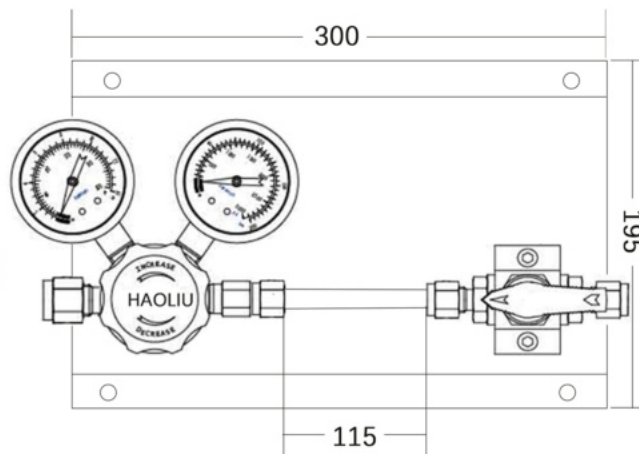
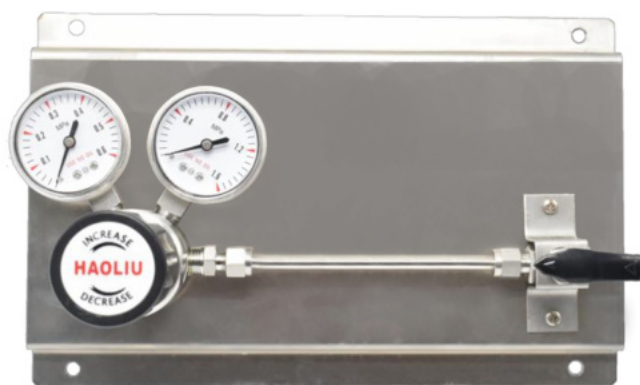


Ordering Information

Series	Body Materials	Body ports	Inlet pressure	Outlet pressure	Gauge	Inlet connection	Outlet connection	Option
HG25SL	SS316L	A	D: 3000psig	G:0-250psig	G:With gauge	00:1/4"NPT(F)	00:1/4"NPT(F)	A:Remote Alarm
		B	X:2200psig	I:0-100psig	(MPA)	01:1/4"NPT(M)	01:1/4"NPT(M)	AP:High Pressure Hose
		D	F:1500psig	K:0-50psig	P:With pressure gauge	23:CGA330	10:1/8" Tube fittings	AR:Metal Tubing
				L:0-25psig	(psi/bar)	24:CGA350	11:1/4" Tube fittings	F:Relief Valve
				M:0-15psig	W:Without gauge	27:CGA580	12:3/8" Tube fittings	
						28:CGA660	15:6mm Tube fittings	
						30:CGA590	16:8mm Tube fittings	
						52:G5/8"-RH(F)	Other connectors available	
						63:W21.8-14RH(F)		
						64:W21.8-14LH(F)		
						Other connectors available		

NOTE: Dimensions subject to change, to be used for reference only. For detailed parameters, please consult HAL technical support.

HLG25SL Series Single-Cylinder Manual Gas Control Panel



Ordering Information

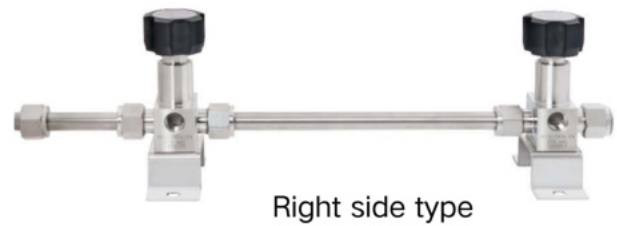
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HLG25SL	SS316L	A	D: 3000psig	G:0-250psig	G:With gauge	00:1/4"NPT(F)	00:1/4"NPT(F)	A:Remote Alarm
		B	X:2200psig	I:0-100psig	(MPA)	01:1/4"NPT(M)	01:1/4"NPT(M)	AP:High Pressure Hose
		D	F:1500psig	K:0-50psig	P:With pressure gauge	23:CGA330	10:1/8" Tube fittings	AR:Metal Tubing
				L:0-25psig	(psi/bar)	24:CGA350	11:1/4" Tube fittings	F:Relief Valve
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						52:G5/8"-RH(F)	Other connectors available	
						63:W21.8-14RH(F)		
						64:W21.8-14LH(F)		
						Other connectors available		

NOTE: Dimensions subject to change, to be used for reference only. For detailed parameters, please consult HAL technical support.

HLS Series Extensions

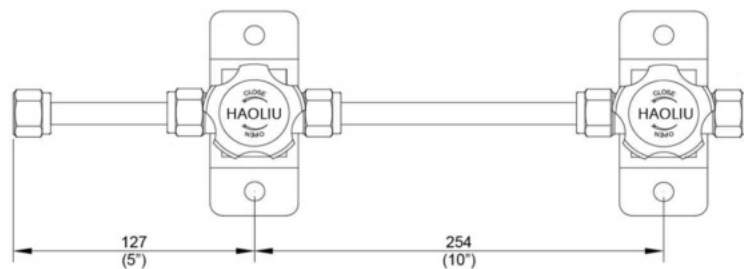


HLSL-210-FNT4-TF8



HLSR-210-FNT4-TF8

Dimensions



Features

- ▶ For gas control panel, easy installation and flexible expansion
- ▶ According to the use of position is divided into left, right type
- ▶ Pressure and leakage tested
- ▶ Maximum intake pressure 3000Psig
- ▶ Wall mounting

Materials Of Construction

- ▶ Body: 316 SS
- ▶ Valve seat: PCTFE
- ▶ Diaphragm valve: SS316L
- ▶ Pipe OD: 1/2 "
- ▶ BA tube: SS316L

Series	Structure	Stations	Station distance	Outlet connection	Inlet connection	Length connection
HLS	R:Right	2; 3; 5	5: 127mm	TF8: 1/2" Tube Fitting	FNT4:1/4"NPT(F) (standard)	None: 127mm (standard)
	L:Left		10:254mm (standard)		NT4:1/4"NPT(M)	12: 254mm

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Accessories

Diaphragm Valves

- Suitable for high purity and corrosive gases
- Internal diaphragm sealing structure
- Low impact on the purity of the gas medium
- Maximum working pressure: 3500psi



MHL-FNT



MPHL-NT

Series	Inlet Connection	Outlet Connection	Cv
MHL-FNT4	1/4NPT(F)	1/4NPT(F)	0.15
MHL-FNT10	1/2NPT(F)	1/2NPT(F)	0.15
MPHL-NT4	1/4	1/4	0.15
MPHL-NT4M	6mm	6mm	0.15
MPHL-NT10	1/2	1/2	0.15

Metal Pigtails

- For the connection of gas cylinder and use end
- Type: Coil, hose



Series	Length	Inlet Connection	Outlet Connection	Option
HPF	500:0.5m	00:1/4NPT(F)	00:1/4NPT(F)	CV: check valves
	1000:1m	52:G5/8-RH(F)	01:1/4NPT(M)	

Pressure Gauges

- Connection size:1/4 NPT(Male)
- Accuracy class:2.5 , $\pm 3-2-3\%$
- Bourden tube :SS316L



axial



radial

Range (MPa)				
0-0.16	0-0.25	0-0.4	0-0.6	0-1
0-1.6	0-2.5	0-4	0-6	0-10
0-16	0-25	0-40	0-60	

Cylinder Connections

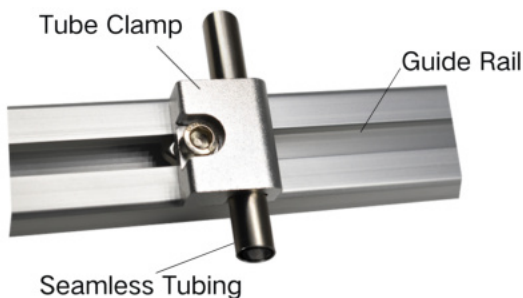
- Air inlet pipe and air inlet nut are suitable for connection of pressure regulator inlet, valve outlet and tube welding



Size	Threaded Connection(1/4NPT)	Welded Connection(1/4 tube)
	Model Number	Model Number
G5/8-RH	HAG-5	HAW-5
W21.8-LH	HAG-5H	HAW-5H
W21.8-RH	HAG-5Q	HAW-5Q

Guide Rail&Tube Clamps

- Guide rails and tube clamps support the wall mounting of seamless steel tubing

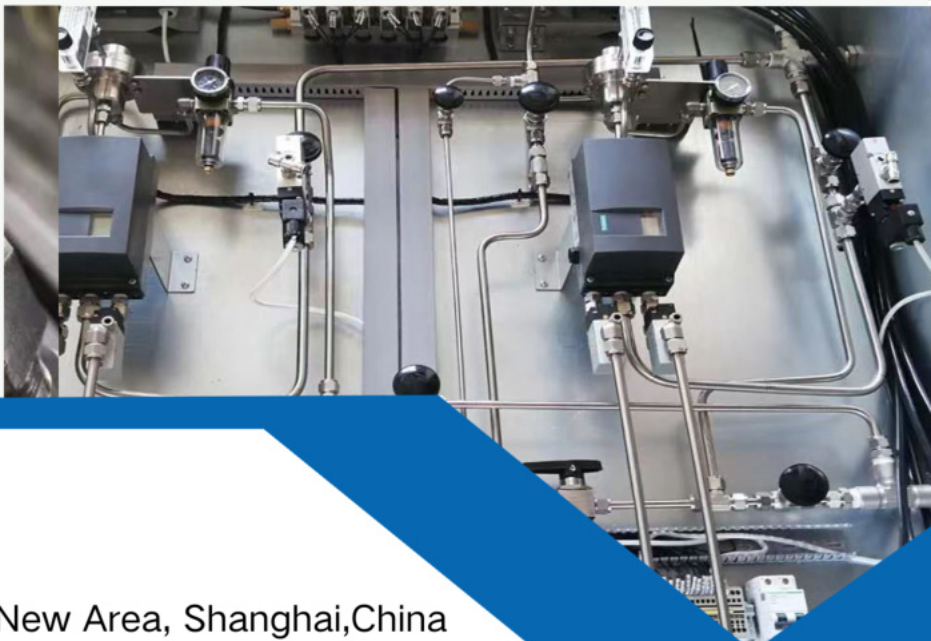


Aluminum tube clamps		Plastic tube clamps	
型号	规格	型号	规格
Series	Size	Series	Size
GJ-4	1/4	GJ-3M	3mm
GJ-6	3/8	GJ-6M	6mm
GJ-8	1/2	GJ-8M	8mm
		GJ-10M	10mm
		GJ-15M	15mm
		GJ-20M	20mm

Guide Rail	
Material	Model Number
Aluminum Guide Rail	LDG*1M
Iron Guide Rail	TDG*1M

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