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HONGSEN 鸿森

2024

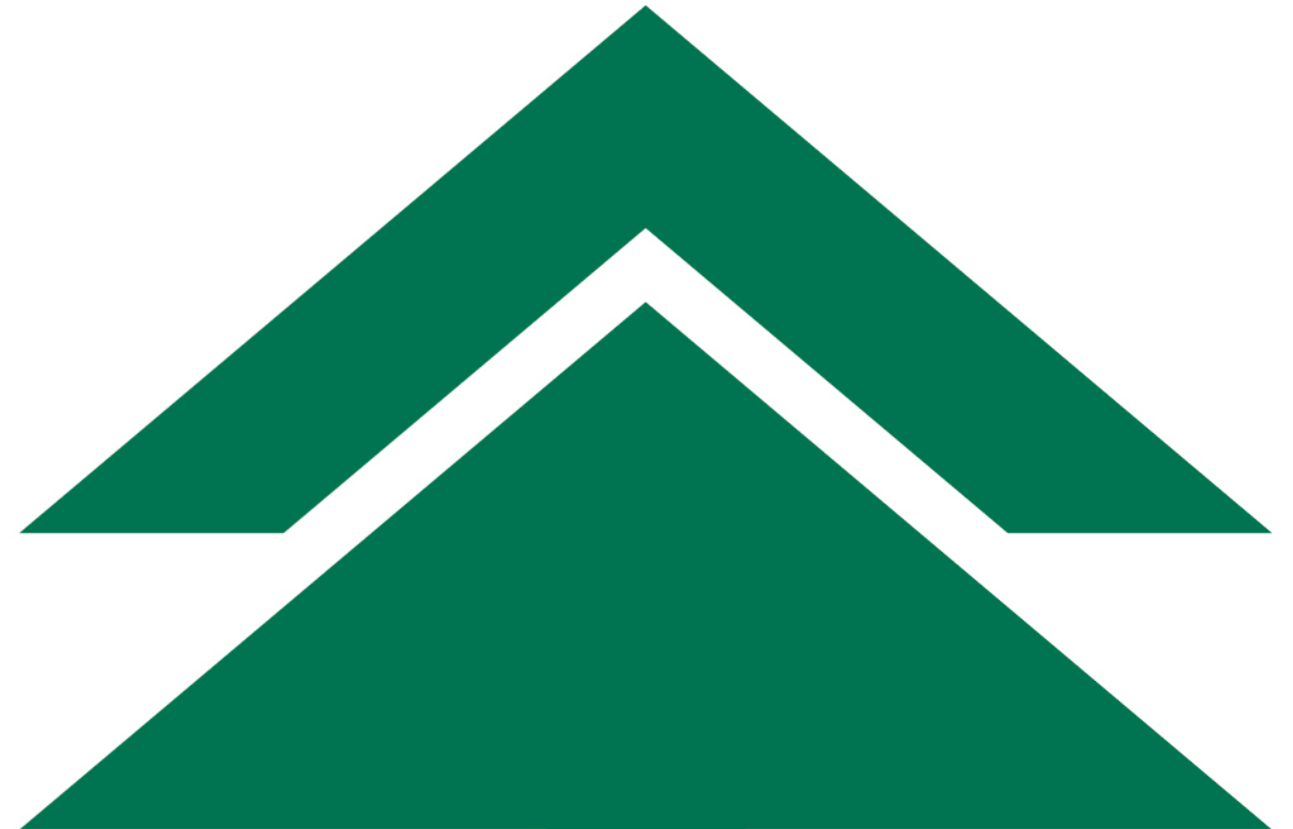
空调专业维修工具

HVAC&R SERVICE TOOLS

# 2024 HVAC&R SERVICE TOOLS

鸿森·空调专业维修工具

HONGSEN MACHINERY  
Escort For Safe Refrigeration



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# HONGSEN

ESCORT FOR  
SAFE REFRIGERATION

关于鸿森

# ABOUT HONGSEN

鸿森人有着对产品的匠人匠心精神,借助现代化高精尖设备和技术,做好每一款产品。

鸿森机械有限公司创建于1992年,一直潜心致力于制冷空调用各类阀门的开发、研究和制造。30年来,鸿森人“开拓进取,永不满足”的执着追求,坚持以高新技术为发展方向,坚持走规模效益、质量效益的可持续发展之路。

公司占地面积50000平方米,拥有员工400多人,以及一支30多人的专业技术团队,年生产能力2000万件。在浙江大学、上海交通大学和西安交通大学等高校专家的指导下,聘请国内著名主机企业的技术行家为顾问,为企业培育了一批强有力的生产、技术和质量的精英,公司主要生产电子膨胀阀系列、电动调节阀系列、电磁阀系列、球阀系列、视镜液镜系列、膨胀阀系列、截止阀系列、避震管系列、过滤器系列等多种产品,逐步发展为一体化生产企业。

Hongsen people have the spirit of craftsmanship, with the help of modern high-end equipment and technology, do every product well.

Zhejiang Hongsen Machinery Co., Ltd was founded in 1992, which devotes itself in the R&D and manufacture of various valves in refrigeration and air conditioning system. For 30 years, Hongsen Machinery staffs persistently adhere to open up, keep forging ahead and never rest content with their achievements. They insist on new and high-tech as the guidance in the development and pursue the sustainable development road with high productivity and quality efficiency.

Hongsen Machinery covers a land area of 50,000 square meters. There are over 400 staffs and workers including a specialty team of 30 technicians. Hongsen Machinery has a close cooperation with the professors and experts in Zhejiang University, Shanghai Jiao Tong University and Xian Jiao Tong University and several senior engineers of leading domestic OEMs are invited as the consultants of the company. A number of technical talents are trained in production, development and quality control and grow up in the company. At present, Hongsen Machinery is capable to manufacture multiple categories of refrigeration and A/C accessory parts such as electric expansion valve series, motorized regulating valve series, solenoid valve series, ball valve series, sight glass series, expansion valve series and shut off valve series. Hongsen Machinery becomes one company integrating R&D, production and marketing into one.



智能生产线  
ADVANCED PRODUCTION LINE

国内领先技术  
自动化生产

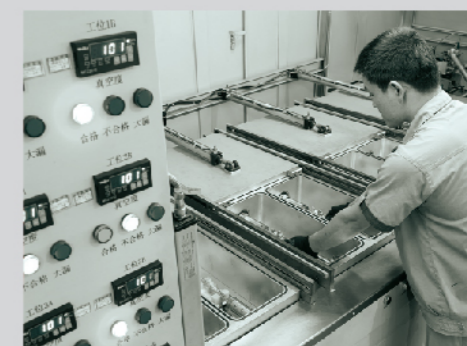
半自动红外线节能烘箱  
SEMI-AUTOMATIC  
INFRARED ENERGY-SAVING OVEN

高效节能  
操作便捷



精加工车间  
FINISHING CENTER

高精尖加工中心  
CNC数控



氦气检漏设备  
HELIUM TESTING  
MACHINE

高效精准  
环保安全



氦气检漏设备  
HELIUM TESTING  
MACHINE

自动检漏报警  
检测效率极高

每一款产品的背后  
是高精技术的匠心打造

# FOCUS ON REFRIGERATION FOR 30 YEARS

公司下设三个事业部：空调工具事业部、自控元件事业部和环境设备事业部，拥有国内先进的CNC加工设备及高端检测设备300余台(套)。

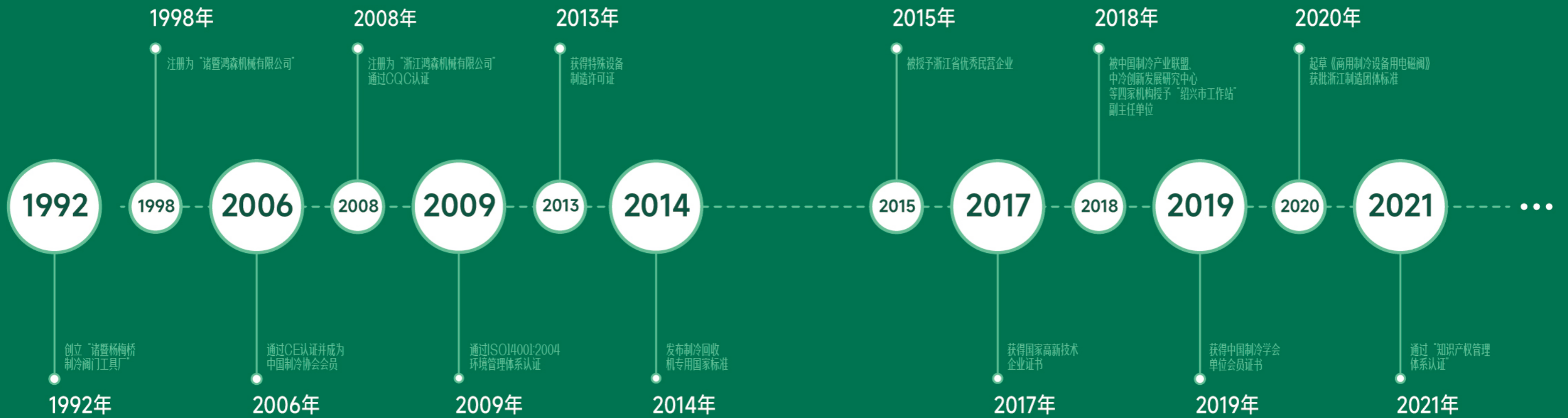
Hongsen has three production divisions: A/C tooling, Refrigeration Control parts and Environmental equipment, with the support more than 300 sets of inspecting equipments and advanced CNC equipments.



# 发展历程

## DEVELOPMENT HISTORY

HVAC&R SERVICE TOOLS



## 全球品牌渠道

# GLOBAL BRAND CHANNELS



公司拥有自营进出口权, 产品主要销往广州、上海、北京, 并出口欧洲、美国、澳洲等地, 并与国内知名空调制冷企业建立了长期业务合作关系, 产品质量深受用户青睐。

Hongsen product is well sold in domestic market, like Guangzhou, Shanghai, Beijing, etc... exported mainly to Europe, USA, Australia. With its good quality, Hongsen has built long-term cooperation with famous companies in refrigeration or A/C.

HVAC&R SERVICE TOOLS

HONGSEN



# MANIFOLD GAUGE SET

表组系列





# 表组系列 MANIFOLD GAUGE SET

## HS-DVS60/HS-D480



**工具套件**  
高档皮箱包装  
方便收纳和携带

**Tool kit**  
High-end plastic-case packaging  
Convenient storage, easy carry

**操作演示**  
90度转动开关控制  
方便快捷

**Operation demonstration**  
90° on-off control  
Easy and convenient



## 产品特点 Product Characteristics

### 电子表 Digital gauge

- 高精度数字显示 High precision digital display
- 操作简便 Simple operation

### 外壳 Protective housing

- 防撞设计 Anti-collision design

### 手轮 Knob

- 球阀式设计, 操作便捷, 精准加注 Ball valve design, easier operation and more precise charging.
- 符合人体功能学的手轮, 舒适耐用 Gentle and comfortable knob

### 挂钩 Hook

- 折叠挂钩 Foldable hook
- 便于收纳 Easy storage and hiding

### 视液镜 Liquid indicator

- 防爆视液镜 Explosion-proof liquid indicator

## 选型 Model selection



HS-DVS60-101A	HS-D480AH	HS-D480AL	HS-D5300
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### 选型表 Model selection

型号 Model	压力表 Pressure gauge				加液管 Refrigerant charging hose	额外配置 Accessories		
	制冷剂 Refrigerant	表盘大小 Diameter	压力单位 Pres.unit	温度单位 Temp.unit		快速接头 Quick coupler	包装 Package	其他 Other
HS-DVS60-101A-60	R22 R134a R1234yf R32 R407C R404A R410A R507 R600a	—	psi/bar/Mpa/Kpa	°C/°F	60" 800-4000psi	/	皮箱 Plastic case	Charging control valve *2 5/16SAE*1/4SAE
HS-DVS60-101A-72	R22 R134a R1234yf R32 R407C R404A R410A R507 R600a	—	psi/bar/Mpa/Kpa	°C/°F	72" 800-4000psi	/	皮箱 Plastic case	Charging control valve *2 5/16SAE*1/4SAE

· 三色管3根 (红色、黄色、蓝色), 接口为1/4SAE  
· 所有阀体上的接口为1/4SAE

· Charging hoses 3 pcs(red,yellow,blue), all 1/4SAE connection  
· Thread of all adapter on valve: 1/4SAE

### 选型表 Model selection

型号 Model	压力表 Pressure gauge				加液管 Refrigerant charging hose	额外配置 Accessories		
	制冷剂 Refrigerant	表盘大小 Diameter	压力单位 Pres.unit	温度单位 Temp.unit		快速接头 Quick coupler	包装 Package	其他 Other
HS-D480AH-36	R22 R134a R1234yf R32 R407C R404A R410A R507 R600a	—	psi/bar/Mpa/Kpa	°C/°F	36" 800-4000psi	/	皮箱 Plastic case	R410A转换接头 *1 R410A adapter *1
HS-D480AH-60	R22 R134a R1234yf R32 R407C R404A R410A R507 R600a	—	psi/bar/Mpa/Kpa	°C/°F	60" 800-4000psi	/	皮箱 Plastic case	R410A转换接头 *1 R410A adapter *1
HS-D480AH-72	R22 R134a R1234yf R32 R407C R404A R410A R507 R600a	—	psi/bar/Mpa/Kpa	°C/°F	72" 800-4000psi	/	皮箱 Plastic case	R410A转换接头 *1 R410A adapter *1
HS-D480AL-36	R22 R134a R1234yf R32 R407C R404A R410A R507 R600a	—	psi/bar/Mpa/Kpa	°C/°F	36" 800-4000psi	/	皮箱 Plastic case	R410A转换接头 *1 R410A adapter *1
HS-D480AL-60	R22 R134a R1234yf R32 R407C R404A R410A R507 R600a	—	psi/bar/Mpa/Kpa	°C/°F	60" 800-4000psi	/	皮箱 Plastic case	R410A转换接头 *1 R410A adapter *1
HS-D480AL-72	R22 R134a R1234yf R32 R407C R404A R410A R507 R600a	—	psi/bar/Mpa/Kpa	°C/°F	72" 800-4000psi	/	皮箱 Plastic case	R410A转换接头 *1 R410A adapter *1
HS-D5300	R22 R134a R1234yf R32 R407C R404A R410A R507 R600a	—	psi/bar/Mpa/Kpa	°C/°F	/	/	纸盒 Paper box	/

· 三色管2根 (AH配红色、黄色管子; AL配蓝色、黄色管子), 接口为1/4SAE  
· 所有阀体上的接口为1/4SAE

· Charging hoses 2 pcs(AH with red, yellow hose; AL with blue,yellow hose), all 1/4SAE connection  
· Thread of all adapter on valve: 1/4SAE



# 表组系列 MANIFOLD GAUGE SET

## HS-MVS60/HS-M480

**高精度冷媒表**  
High precision refrigerant gauge

**防撞设计**  
Anti-collision design

**防爆视液镜**  
Explosion-proof liquid indicator

**折叠挂钩**  
Foldable hook

**球阀结构**  
ball valve structure

**工具套件**  
高档皮箱包装  
方便收纳和携带

**操作演示**  
90度转动开关控制  
方便快捷

**Tool kit**  
High-end plastic-case packaging  
Convenient storage, easy carry

**Operation demonstration**  
90° on-off control  
Easy and convenient

### 产品特点 Product Characteristics

#### 电子表 Digital gauge

- 高精度冷媒表 High precision refrigerant gauge
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#### 外壳 Protective housing

- 防撞设计 Anti-collision design

#### 手轮 Knob

- 球阀式设计, 操作便捷, 精准加注 Ball valve design, easier operation and more precise charging.
- 符合人体功能学的手轮, 舒适耐用 Gentle and comfortable knob

#### 挂钩 Hook

- 折叠挂钩 Foldable hook
- 便于收纳 Easy storage and hiding

#### 视镜 Liquid indicator

- 防爆视镜 Explosion-proof liquid indicator

### 选型 Model selection



HS-MVS60-101A	HS-M480AH	HS-M480AL
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#### 选型表 Model selection

型号 Model	压力表 Pressure gauge				加液管 Refrigerant charging hose	额外配置 Accessories			
	制冷剂 Refrigerant	表盘大小 Diameter	压力单位 Pres.unit	温度单位 Temp.unit		快速接头 Quick coupler	螺丝刀 Screw driver	其他 Other	包装 Package
HS-MVS60-101A-60	R22 R134a R404A R410A	70mm(2-1/2")	psi/bar	°C	60" 800~4000psi	/	1 pc	R410A转换接头 *2 R410A adapter *2	皮箱 Plastic case
HS-MVS60-101A-72	R22 R134a R404A R410A	70mm(2-1/2")	psi/bar	°C	72" 800~4000psi	/	1 pc	R410A转换接头 *2 R410A adapter *2	皮箱 Plastic case
HS-MVS60-134-60A	R22 R134a R404A R410A	70mm(2-1/2")	psi/bar	°C	60" 800~4000psi	1. HS-MH 2. HS-ML	1 pc	取芯工具1只, 开瓶器1只 Core remover *1 Can tap valve *1	皮箱 Plastic case
HS-MVS60-134-72A	R22 R134a R404A R410A	70mm(2-1/2")	psi/bar	°C	72" 800~4000psi	1. HS-MH 2. HS-ML	1 pc	取芯工具1只, 开瓶器1只 Core remover *1 Can tap valve *1	皮箱 Plastic case

• 三色管3根 (红色、黄色、蓝色), 工作压力800psi, 爆破压力4000psi, 接口为1/4SAE  
• 所有阀体上的接口为1/4SAE  
• 塑料箱包装

• Charging hoses 3 pcs (red, yellow, blue), 800 psi working pres., 4000 psi bursting pres., all 1/4SAE connection  
• Thread of all adapter on valve: 1/4SAE  
• Plastic case packin

#### 选型表 Model selection

型号 Model	压力表 Pressure gauge				加液管 Refrigerant charging hose	额外配置 Accessories			
	制冷剂 Refrigerant	表盘大小 Diameter	压力单位 Pres.unit	温度单位 Temp.unit		快速接头 Quick coupler	螺丝刀 Screw driver	其他 Other	包装 Package
HS-M480AH-36	R22 R134a R404A R410A	70mm(2-1/2")	psi/bar	°C	36" 800~4000psi	/	/	R410A转换接头 *1 R410A adapter *1	彩盒 Paper box
HS-M480AH-60	R22 R134a R404A R410A	70mm(2-1/2")	psi/bar	°C	60" 800~4000psi	/	/	R410A转换接头 *1 R410A adapter *1	彩盒 Paper box
HS-M480AH-72	R22 R134a R404A R410A	70mm(2-1/2")	psi/bar	°C	72" 800~4000psi	/	/	R410A转换接头 *1 R410A adapter *1	彩盒 Paper box
HS-M480AL-36	R22 R134a R404A R410A	70mm(2-1/2")	psi/bar	°C	36" 800~4000psi	/	/	R410A转换接头 *1 R410A adapter *1	彩盒 Paper box
HS-M480AL-60	R22 R134a R404A R410A	70mm(2-1/2")	psi/bar	°C	60" 800~4000psi	/	/	R410A转换接头 *1 R410A adapter *1	彩盒 Paper box
HS-M480AL-72	R22 R134a R404A R410A	70mm(2-1/2")	psi/bar	°C	72" 800~4000psi	/	/	R410A转换接头 *1 R410A adapter *1	彩盒 Paper box

• 三色管2根 (AH配红色、黄色管子; AL配蓝色、黄色管子), 接口为1/4SAE  
• 所有阀体上的接口为1/4SAE

• Charging hoses 2 pcs (AH with red, yellow hose; AL with blue, yellow hose), all 1/4SAE connection  
• Thread of all adapter on valve: 1/4SAE



## 表组系列 MANIFOLD GAUGE SET 智能数字表 HS-330

★  
制冷剂  
89种  
★



### 技术参数 Technical Parameters

**压力测试 Pressure value:** 表压 gauge pressure  
**压力测试单位 Pressure unit:** Kpa; MPa; bar; inHg; Psi.  
**压力测试量程 Pressure range:** 0Kpa~6000Kpa  
**压力测试精度 Accuracy:**  $\pm 0.5\%$ (FS)+5dgt  
**压力过载极限 Overload Pressure limit:** 10000Kpa (10MPa; 100bar)

**温度测试单位 Temperature unit:** °C/°F  
**温度测试量程 Temperature range:** -40°C~150°C (-40°F~302°F)  
**温度测试精度 Temperature accuracy:**  $\pm 0.5^\circ\text{C}+2\text{dgt}$   
 $\pm 0.9^\circ\text{F}+2\text{dgt}$

**供电电源 Power Supply:** 4×1.5V  
**接口 Connector:** 1/4SAE

**真空度测试 Vacuum value:** 相对真空度  
**真空度测试单位 Vacuum unit:** Kpa; MPa; bar; inHg; Psi.  
**真空度测试量程 Vacuum range:** -101Kpa~0Kpa

**适用工质 Refrigerant(89):** R11 R113 R114 R115 R116 R12 R123 R124 R125 R1270 R13 R134A R14 R141B R142B R143A R152A R170 R21 R218 R22 R227EA R23 R236EA R245CA R245FA R290 R32 R401A R401B R401C R402A R402B R403A R403B R404 R405A R406A R407A R407B R407C R407D R407E R408A R409A R409B R41 R410A R410B R411A R411B R412A R413A R414A R414B R415A R415B R416A R417A R418A R419A R420A R421A R421B R422A R422B R422C R422D R423A R424A R425A R426A R427A R428A R50 R500 R501 R502 R503 R504 R507A R508A R508B R509A AR600 R600A R717 R744 (Co2) 1234yf

### 产品特点 Product Characteristics

- 外壳采用高强度工程塑料成型, 整机坚固结实
- 柔性防滑硅胶设计, 握持舒适
- 高精度数据采集单元, 数据稳定精准
- 背光设计, 方便弱光处操作
- 低功耗电子元件, 延长电池寿命
- 内置89种冷媒数据库, 参数齐全
- 双通道实时温度测量, 精准、方便
- 多模式选择, 功能齐全
- 折叠挂钩, 便于收纳
- 优质铝合金阀组, 经久耐用
- 防爆视窗, 安全可靠
- High-strength engineering plastics applied for the housing, make it strong and solid.
- Flexible non-slip silicone design, comfortable to hold.
- High-precision data acquisition unit, stable and accurate.
- Backlight design, easy to operate in low light.
- Micro-power electronics, to extend battery life.
- Built-in 89 kinds of refrigerant database, complete parameters.
- Dual-channel real-time temperature measurement, accurate and convenient.
- Multi-mode selection, full-featured.
- Folding hook, easy to storage.
- High-quality aluminum alloy valve manifold, durable.
- Explosion-proof sight glass, safe and reliable.



表组系列 MANIFOLD GAUGE SET

HS-B60-R744

R744  
CO<sub>2</sub>



HS-B60-R744-A



HS-B60-R744-A-QC

产品特点 Product Characteristics

- 阀体  
一体式铜阀结构, 性能优越
- 手轮  
符合人体功能学的铝制手轮, 舒适耐用
- 泄压结构, 可手动排气
- 超强耐压性能, 安全可靠
- Valve body  
Integrated copper valve structure, superior performance
- Handwheel  
Ergonomic aluminum handwheel, comfortable and durable
- Pressure relief structure, manual exhaust
- Super pressure resistance, safe and reliable

选型表 Model selection

型号 Model	压力表 Pressure gauge				加液管 Refrigerant charging hose	额外配置 Accessories			
	制冷剂 Refrigerant	表盘大小 Diameter	压力单位 Pres.unit	温度单位 Temp.unit		快速接头 Quick coupler	螺丝刀 Screw driver	其他 Other	包装 Package
HS-B60-R744-A	R744 (CO <sub>2</sub> )	80mm(3-1/8")	psi/Mpa	/	60" 120-600bar	/	/	/	铝箱 Aluminium case
HS-B60-R744-A-QC	R744 (CO <sub>2</sub> )	80mm(3-1/8")	psi/Mpa	/	60" 120-600bar	1.HS-MH-R744 2.HS-ML-R744	/	/	铝箱 Aluminium case"

选型 Model selection



- 双层钢网, 超高耐压, 爆破压力≥8700Psi (60MPa)
- 硬密封接口, 安全可靠
- SUS304配件, 使用寿命更长
- 8角液压, 受力均匀, 加强密封
- 保护弹簧, 有效保护管体两端
- Double-layer steel mesh, ultra-high pressure resistance, burst pressure ≥8700Psi (60MPa)
- Hard sealed interface, safe and reliable
- SUS304 accessories, longer service life
- 8 angle hydraulic mounting, uniform force, strengthened sealing
- Protective spring, effectively protect both ends of the hose

选型表 Model selection

型号 Model	制冷剂 Refrigerant	工作压力 Working pressure	爆破压力 Bursting pressure	长度 Length	接口 Connection
HS-360-R744	R744 (CO <sub>2</sub> )	120bar	600bar	60"	1/4SAE-1/4SAE
HS-372-R744				72"	1/4SAE-1/4SAE



- 符合J639标准
- 自锁结构, 环保可靠
- 开度可调, 精准加注
- 一体式阀体结构, 超高耐压, 爆破压力≥8700Psi (60MPa)
- Meet the J639 standard
- Self-locking structure, environmental protection and reliable
- Adjustable opening, precise filling
- One-piece valve body structure, ultra-high pressure resistance, burst pressure ≥8700Psi (60MPa)

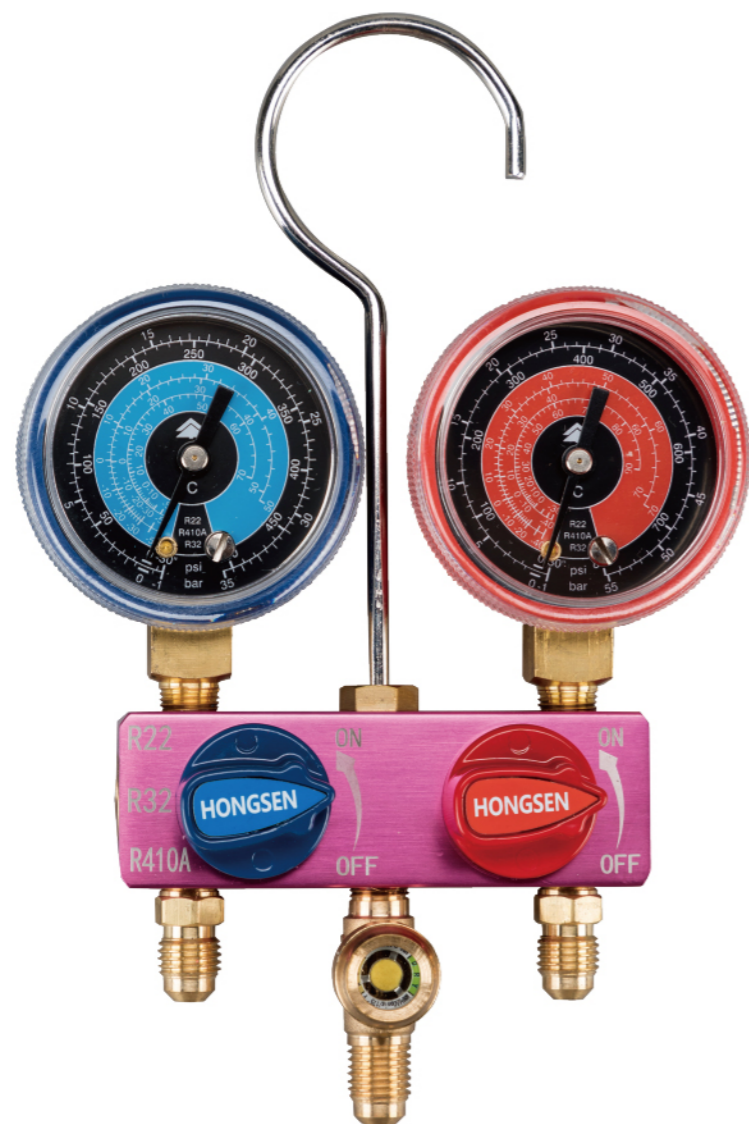


选型表 Model selection

型号 Model	制冷剂 Refrigerant	接口 Connection	类型 Type	备注 Remark
HS-MH-R744	R744 (CO <sub>2</sub> )	1/4SAE	手动型 Manual type	高压high side
HS-ML-R744		1/4SAE	手动型 Manual type	低压low side



# 表组系列 MANIFOLD GAUGE SET HS-M01/HS-M02



(小巧便携)



工具套件  
高档皮箱包装  
方便收纳和携带

Tool kit  
High-end plastic-case packaging  
Convenient storage, easy carry

工具套件  
塑封盒  
经济实用

Tool kit  
Paper box  
economical and practical

## 选型 Model selection



HS-M01	HS-M01-134-A	HS-M02	HS-M02-410-22-A
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## 产品特点 Product Characteristics

- 精致小巧,外形精美
- 滚压视窗,安全美观
- 球阀结构,开关方便快捷
- 人体功能学手轮,舒适耐用
- 皮箱包装:方便收纳和携带
- Exquisite and small, beautiful appearance
- Rolling Sight glass, safe and beautiful
- Ball valve structure, convenient and fast switching
- Gentle and comfortable aluminum knob
- Plastic box package: easy to store and carry

型号 Model	压力表 Pressure gauge				加液管 Refrigerant charging hose	额外配置 Accessories		
	制冷剂 Refrigerant	表盘大小 Diameter	压力单位 Pres.unit	温度单位 Temp.unit		快速接头 Quick coupler	其他 Other	包装 Package
HS-M01	R134a R1234yf R22	50mm(1-15/16")	Psi/bar	°C	/	/	/	泡壳 Blister Packing
HS-M02	R22 R410A R32	50mm(1-15/16")	Psi/bar	°C	/	/	/	泡壳 Blister Packing
HS-M01-134-A	R134a R1234yf R22	50mm(1-15/16")	Psi/bar	°C	48" 600-3000Psi	1.HS-MH 2.HS-ML	取芯工具1只 HS-339开瓶器1只 1 pic of core remover 1 pic of HS-339 can tap valve	皮箱 Plastic case
HS-M02-410-22-A	R22 R410A R32	50mm(1-15/16")	Psi/bar	°C	48" 600-3000Psi	/	HS-R410A转换接头2只 with 2 pcs of HS-R410A adapters	皮箱 Plastic case



表组系列 MANIFOLD GAUGE SET

智能数字表 HS-370



★  
制冷剂  
93种  
★

HS/370-A

技术参数 Technical Parameters

**压力测试Pressure value:**表压 gauge pressure  
**压力测试单位Pressure unit:**Kpa;MPa;bar;inHg;Psi  
**压力测试量程Pressure range:**0Kpa~6000Kpa  
**压力测试精度Accuracy:**±0.5%(FS)+5dgt  
**压力过载极限Overload Pressure limit:**10000Kpa (10MPa;100bar)  
**温度测试单位Temperature unit:**°C/°F  
**温度测试量程Temperature range:**-40°C~150°C (-40°F~302°F)  
**温度测试精度Temperature accuracy:**±0.5°C+2dgt  
 ±0.9°F +2dgt  
**真空度测试Vacuum value:**相对真空度  
**真空度测试单位Vacuum unit:**Kpa;MPa;bar;inHg;Psi.  
**真空度测试量程Vacuum range:**-101Kpa~0Kpa  
**供电电源Power Supply:**4×1.5V   **接口Connector:**1/4SAE

**配置:**

- HS/TS-1500 测温夹:两只
- HS/可调节快速接头:一套
- HS/R410A转换接头:两只
- HS/1.5米三色管:一套
- 5号电池:4节

**Accessories:**

- HS/TS-1500 temperature sensor:2pcs
- HS/Quick coupler: 1set
- HS/R410A adapter: 2pcs
- HS/1.5M charging hose:1set
- 5# battery: 4pcs

**适用工质 Refrigerant(93):**R11 R113 R114 R115 R116 R12 R123 R124 R125 R127O R13 R134A R14 R141B R142B R143A R152A R170 R21 R218 R22 R227EA R23 R236EA R245CA R245FA R290 R32 R401A R401B R401C R402A R402B R403A R403B R404A R405A R406A R407A R407B R407C R407D R407E R408A R409A R409BR41 R410A R410B R411A R411B R412A R413A R414A R414B R415A R415B R416A R417A R418A R419A R420A R421A R421B R422A R422B R422C R422D R423A R424A R425A R426A R427A R428A R438A R448A R449A R452A R50 R500 R501 R502 R503 R504 R507A R508A R508B R509A R600 R600A R717 R744(Co2) R1234yf

产品特点 Product Characteristics

- 外壳采用高强度工程塑料成型, 整机坚固结实
- 柔性防滑硅胶设计, 握持舒适
- 高精度数据采集单元, 数据稳定精准
- 背光设计, 方便弱光处操作
- 低功耗电子元件, 延长电池寿命
- 内置93种冷媒数据库, 参数齐全
- 双通道实时温度测量, 精准、方便
- 多模式选择, 功能齐全
- 折叠挂钩, 便于收纳
- 优质铝合金阀组, 经久耐用
- 防爆视窗, 安全可靠
- High-strength engineering plastics applied for the housing, make it strong and solid.
- Flexible non-slip silicone design, comfortable to hold.
- High-precision data acquisition unit, stable and accurate.
- Backlight design, easy to operate in low light.
- Micro-power electronics, to extend battery life.
- Built-in 93 kinds of refrigerant database, complete parameters.
- Dual-channel real-time temperature measurement, accurate and convenient.
- Multi-mode selection, full-featured.
- Folding hook, easy to storage.
- High-quality aluminum alloy valve manifold, durable.
- Explosion-proof sight glass, safe and reliable.

测温夹 TEMPERATURE MEASURING CLAMP

HS-TS-1500



技术参数 Technical Parameters

**温度测试单位 Temperature unit:**°C/°F  
**温度测试量程 Temperature range:**-40°C~150°C (-40°F~302°F)  
**温度测试精度 Temperature accuracy:**±0.5°C+2dgt  
 ±0.9°F +2dgt  
**传感器线长The length of sensor wire:**1.5m

产品特点 Product Characteristics

- 外壳采用高强工程塑料成型, 坚固结实
- 传感器精度高, 测量精准
- 弹性钳口, 方便实用
- The shell uses high-strength engineering plastics the whole machine is solid.
- High precision sensor, accurate measurement.
- Flexible jaws, convenient and practical.

# 压力表 Pressure Gauge



## 选型 Model selection



## 产品特点 Product Characteristics

- 防跳针设计
- 配置校准螺母
- 各种制冷剂、压力单位、温度单位均可接受定制
- No-flutter gauge design
- With Front calibration access port
- Various refrigerants, pressure units, and temperature units can be customized

选型表 Model selection					
型号 Model	制冷剂 Refrigerant	尺寸 Dial	压力单位 Pres.unit	温度单位 Temp.unit	接口 Connector
213# H	R404A R407C R22 R134a	70mm(2-1/2")	psi/bar	°C	1/8NPT
213# L					
211# H	R410A R22 R134a R404A				
211# L					
201# H	R404A R407C R22 R134a	80mm(3-1/8")			
201# L					
200# H	R32 R410A				
200# L					



# 充油(真空)压力表 Oil-filled (vacuum) pressure Gauge



# 氮气保压表 Flex Hose With Valve Gauge For Nitrogen



选型表 Model selection						
型号 Model	制冷剂 Refrigerant	充油 Oil	尺寸 Dial	压力单位 Pres.unit	温度单位 Temp.unit	接口 Connector
242# H	R404A R407C R22 R134a	甘油 glycerin	63mm	psi/Mpa	°C	1/4SAE
242# L	R404A R407C R22 R134a		63mm	psi/Mpa		
128# H	R410A	硅油 Silicone oil	63mm	psi, Kg/cm3		
128# L	R410A		63mm	psi, Kg/cm3		
191# H	R404A R407C R22 R134a	硅油 Silicone oil	63mm	Mpa		
191# L	R404A R407C R22 R134a		63mm	Mpa		
122# H	R404A R407C R22 R134a	甘油 glycerin	63mm	Mpa psi		
122# L	R404A R407C R22 R134a		63mm	Mpa psi		
59# H	R404A R407C R22 R134a	—	63mm	psi/Mpa		
59# L	R404A R407C R22 R134a	—	63mm	psi/Mpa		

## 产品特点 Product Characteristics

- 具有三类不同制冷剂系统的保压试漏的压力指示功能
  - 具有充氮清理管路, 充氮保护焊接管路的压力指示功能
  - 小球阀, 方便控制压力输出
  - 红色指针用于标识输入时压力值
- Indicate the pressure during the leaking test under pressure
  - Indicate the pressure during the flushing or nitrogen protection welding
  - Mini ball valve, easy to control pressure output
  - The red pointer can be used to record the input pressure.

选型表 Model selection					
型号 Model	适用介质 Applicable media	接口 Connector	尺寸 Dial	压力单位 Pres.unit	压力量程 Pressure range
HS-NG	R134a R404A R407C R507 R22 R410A 氮气 Nitrogen gas	1/4SAE	80mm (3-1/8")	bar	-1 bar ~ 60 bar

# 表组系列 MANIFOLD GAUGE SET

## HS-468AH / HS-468AL



工具套件 Tool kit  
彩盒 Paper box  
经济实用 economical and practical



### 选型 Model selection



HS-467AH	HS-467AL	HS-468AH	HS-468AL
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### 产品特点 Product Characteristics

#### 单表阀 Single manifold gauge

- 单表设计, 经济实用  
Single meter design, economical and practical

#### 手轮 Knob

- 符合人体功能学的铝制手轮, 舒适耐用  
Gentle and comfortable aluminium knob

#### 选型表 Model selection

型号 Model	压力表 Pressure gauge				加液管 Refrigerant charging hose	额外配置 Accessories		
	制冷剂 Refrigerant	表盘大小 Diameter	压力单位 Pres.unit	温度单位 Temp.unit		快速接头 Quick coupler	其他 Other	包装 Package
HS-467AH	R12 R22 R404A R134a	70mm(2-1/2")	psi kg/cm2	°C	/	/	/	彩盒 Paper box
HS-467AL	R12 R22 R404A R134a	70mm(2-1/2")	psi kg/cm2	°C	/	/	/	彩盒 Paper box
HS-468AH	R32 R410A	80mm(3-1/8")	psi/bar	°C	/	/	/	彩盒 Paper box
HS-468AL	R32 R410A	80mm(3-1/8")	psi/bar	°C	/	/	/	彩盒 Paper box



表组系列 MANIFOLD GAUGE SET

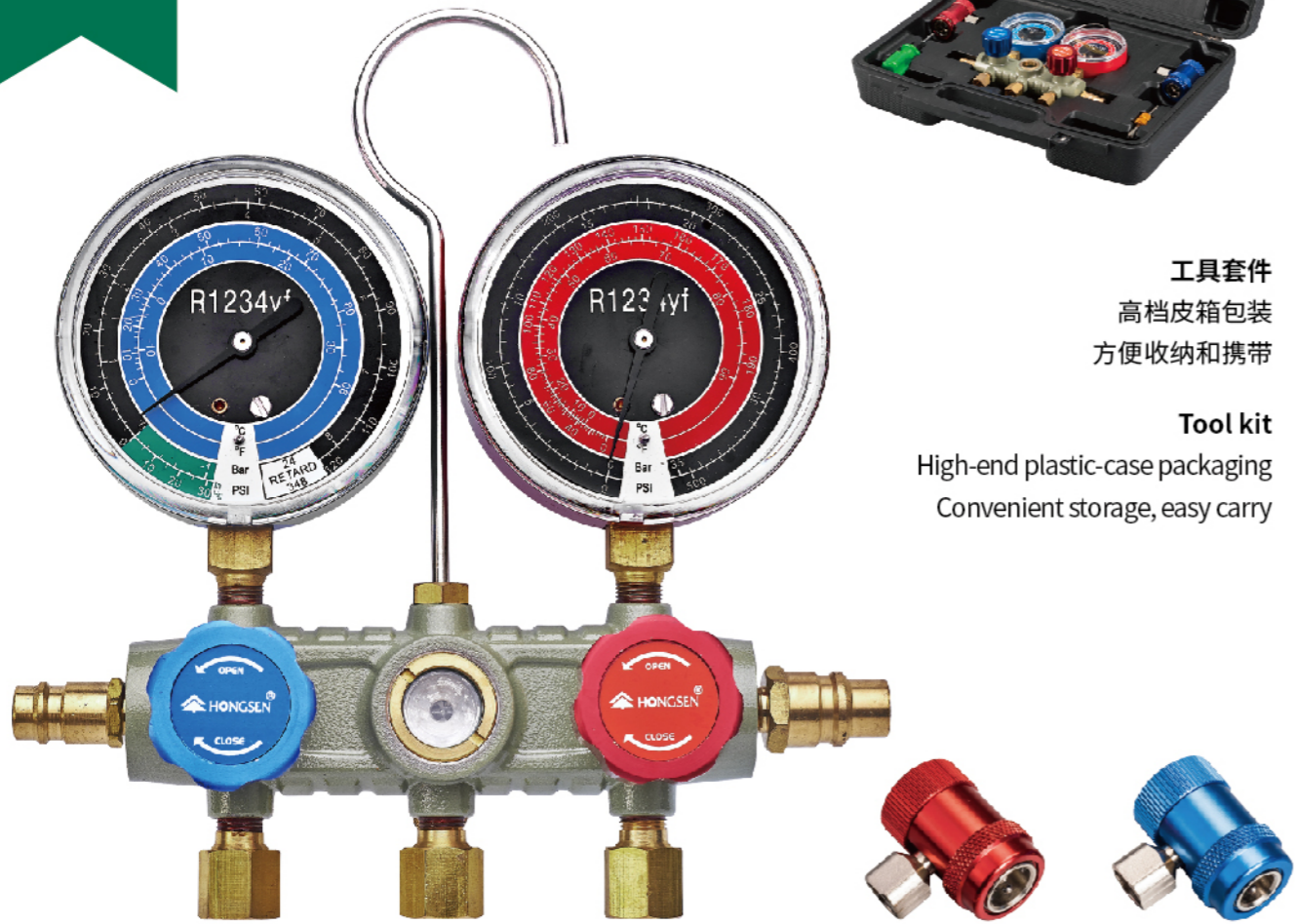
HS-S36F-1234

R1234yf



工具套件  
高档皮箱包装  
方便收纳和携带

Tool kit  
High-end plastic-case packaging  
Convenient storage, easy carry



产品特点 Product Characteristics

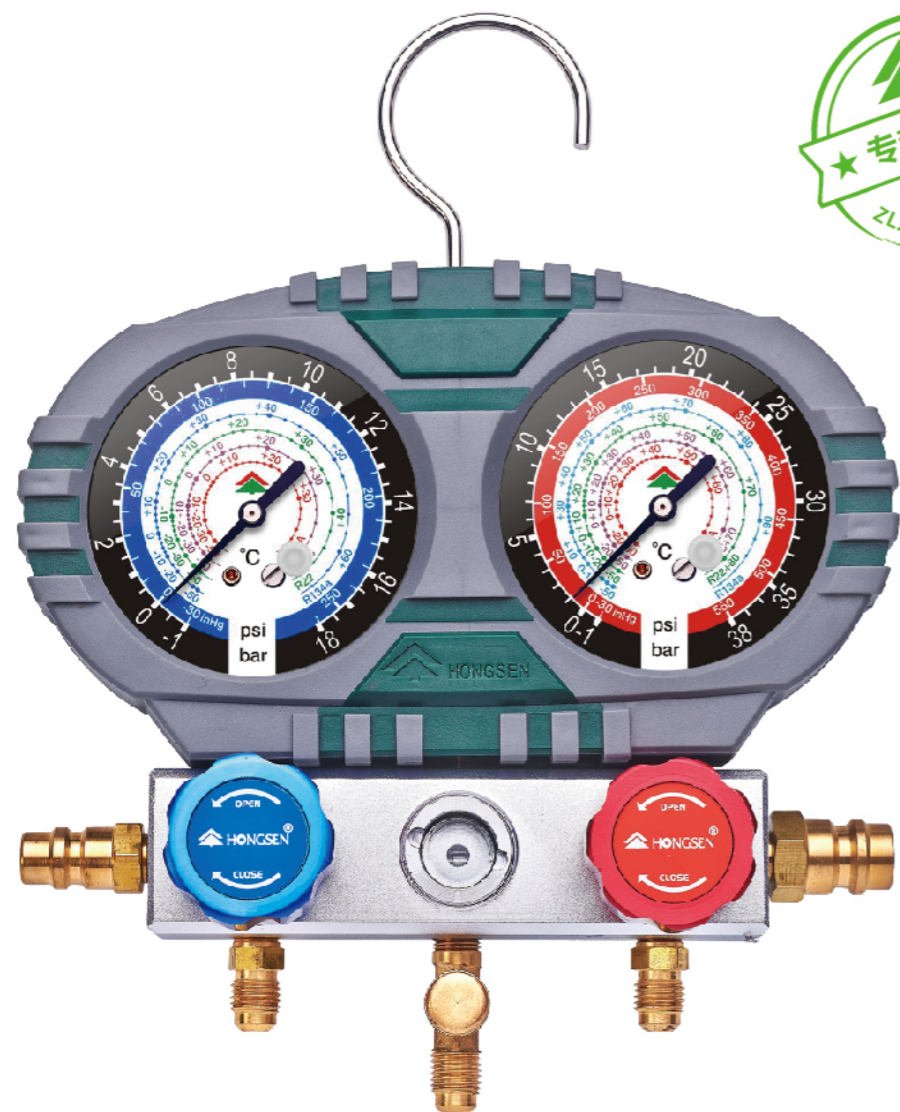
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| <p><b>阀体 Valve body</b></p> <ul style="list-style-type: none"> <li>• 紧凑的阀体设计, 便捷易携<br/>Compact valve body design, convenient and easy to carry</li> </ul> | <p><b>视液镜 Liquid indicator</b></p> <ul style="list-style-type: none"> <li>• 防爆视液镜 Explosion-proof liquid indicator</li> </ul> | <p><b>手轮 Knob</b></p> <ul style="list-style-type: none"> <li>• 符合人体功能学的铝制手轮, 舒适耐用<br/>Gentle and comfortable aluminium knob</li> </ul> |
|---|---|--|

选型表 Model selection									
型号 Model	压力表 Pressure gauge				加液管 Refrigerant charging hose	额外配置 Accessories			
	制冷剂 Refrigerant	表盘大小 Diameter	压力单位 Pres.unit	温度单位 Temp.unit		快速接头 Quick coupler	螺丝刀 Screw driver	其他 Other	包装 Package
HS-S36F-1234	R1234yf	80mm(3-1/8")	psi/bar	°C/°F	60" 800-4000psi	1.HS-MH-1234 2.HS-ML-1234	1 pic	取芯工具1只 Core remover *1	皮箱 Plastic case





## 表组系列 MANIFOLD GAUGE SET HS-S60



### 产品特点 Product Characteristics

#### 外壳 Protective housing

- 防撞设计 Anti-collision design

#### 视镜 Liquid indicator

- 防爆视镜 Explosion-proof liquid indicator

#### 手轮 Knob

- 符合人体功能学的铝制手轮, 舒适耐用 Gentle and comfortable aluminium knob



#### 工具套件

- 高档皮箱包装
- 方便收纳和携带

#### Tool kit

- High-end plastic-case packaging
- Convenient storage, easy carry

#### 工具套件

- 彩盒
- 经济实用

#### Tool kit

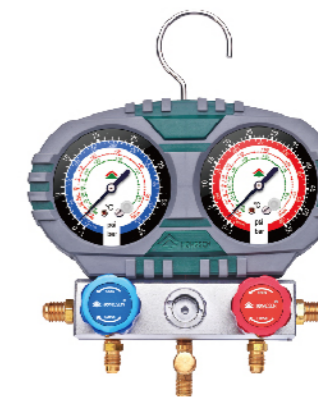
- Paper box
- economical and practical



### 选型 Model selection



HS-S60-101



HS-S60-102

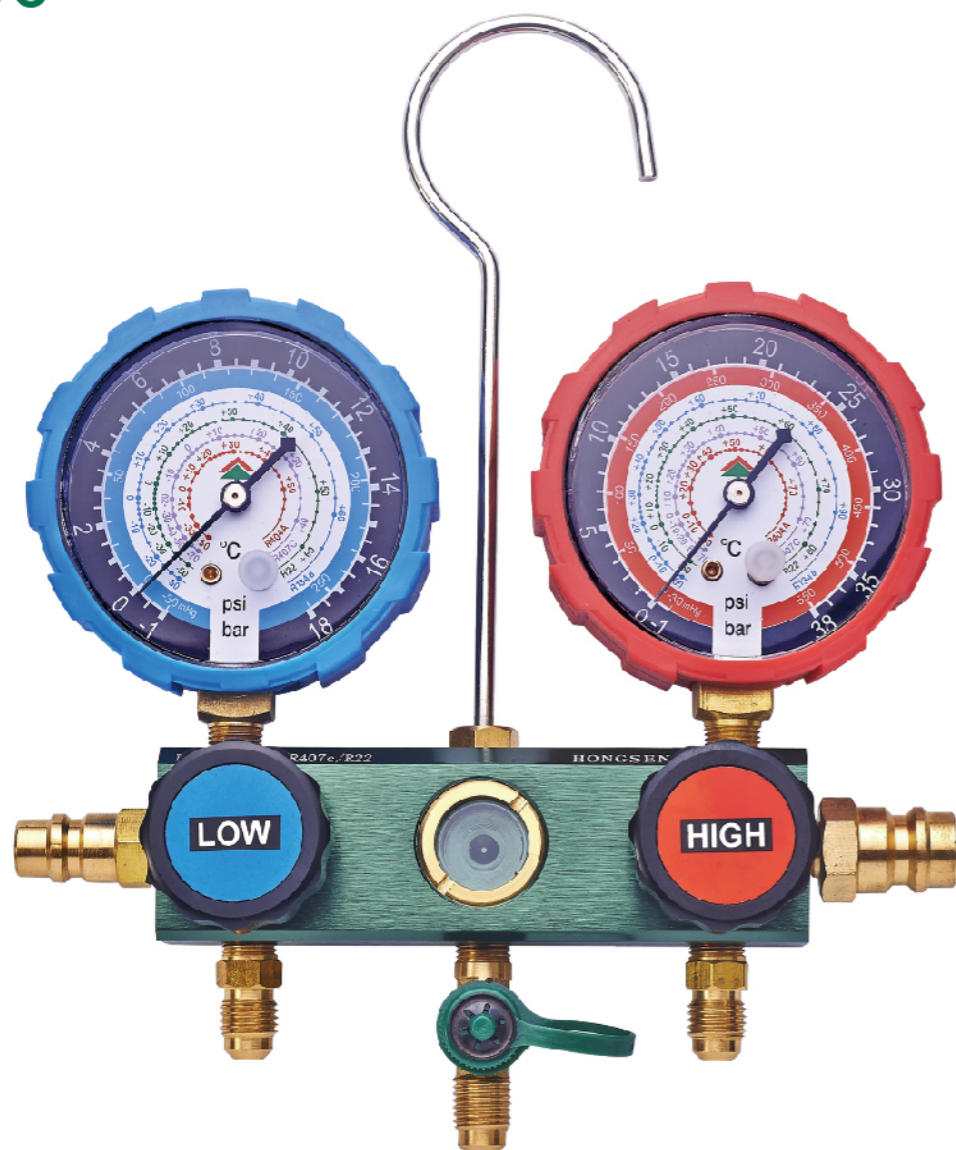
#### 选型表 Model selection

型号 Model	压力表 Pressure gauge				加液管 Refrigerant charging hose	额外配置 Accessories			
	制冷剂 Refrigerant	表盘大小 Diameter	压力单位 Pres.unit	温度单位 Temp.unit		快速接头 Quick coupler	螺丝刀 Screw driver	其他 Other	包装 Package
HS-S60-101-60	R22 R404A R134a R407C	3-1/8" (80mm)	psi/bar	°C	60" 600-3000psi	/	/	/	彩盒 Paper box
HS-S60-101-72	R22 R404A R134a R407C	3-1/8" (80mm)	psi/bar	°C	72" 600-3000psi	/	/	/	彩盒 Paper box
HS-S60-102	R32 R410A	3-1/8" (80mm)	psi/bar	°C	60" 800-4000psi	/	/	/	彩盒 Paper box
HS-S60-103	R410A R22 R407C R134a	3-1/8" (80mm)	psi/bar	°C	60" 800-4000psi	/	/	/	彩盒 Paper box
HS-S60-104	R410A R404A R407C R134a	3-1/8" (80mm)	psi/bar	°C	60" 800-4000psi	/	/	/	彩盒 Paper box
HS-S60-101-A	R22 R404A R134a R407C	3-1/8" (80mm)	Psi/bar	°C	60" 600-3000psi	/	1pc	/	皮箱 Plastic case
HS-S60-102-A	R410A R32	3-1/8" (80mm)	Psi/bar	°C	60" 800-4000psi	/	1pc	/	皮箱 Plastic case
HS-S60-105-A-60	R404A R407C R22 R134a	3-1/8" (80mm)	psi/bar	°C	60" 600-3000psi	1. HS-MH 2. HS-ML	1 pc	取芯工具1只 Core remover *1	皮箱 Plastic case
HS-S60-105-A-72	R404A R407C R22 R134a	3-1/8" (80mm)	psi/bar	°C	72" 600-3000psi	1. HS-MH 2. HS-ML	1 pc	取芯工具1只 Core remover *1	皮箱 Plastic case
HS-S60-106A	R410A R22 R134a R404A	3-1/8" (80mm)	psi/bar	°C	60" 800-4000psi	/	/	R410A转接头2只 R410A adapter *2	皮箱 Plastic case



表组系列 MANIFOLD GAUGE SET

HS-236



工具套件  
高档皮箱包装  
方便收纳和携带

Tool kit  
High-end plastic-case packaging  
Convenient storage, easy carry



工具套件  
彩盒  
经济实用

Tool kit  
Paper box  
economical and practical

选型 Model selection



HS-S36G	HS-404G	HS-236A	HS-260A-OA
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选型表 Model selection

型号 Model	压力表 Pressure gauge				加液管 Refrigerant charging hose	额外配置 Accessories		
	制冷剂 Refrigerant	表盘大小 Diameter	压力单位 Pres.unit	温度单位 Temp.unit		快速接头 Quick coupler	其他 Other	包装 Package
HS-S36G	R134a R404A R22 R407C	80mm(3-1/8")	psi/MPa	°C	36" 600-3000psi	HS-12B	取芯工具1只 Core remover *1	彩盒 Paper box
HS-404G	R134a R404A R22 R407C	80mm(3-1/8")	psi/MPa	°C	36" 600-3000psi	HS-12B	开瓶器1只 Can tap valve *1	彩盒 Paper box

选型表 Model selection

型号 Model	压力表 Pressure gauge				加液管 Refrigerant charging hose	额外配置 Accessories		
	制冷剂 Refrigerant	表盘大小 Diameter	压力单位 Pres.unit	温度单位 Temp.unit		快速接头 Quick coupler	其他 Other	包装 Package
HS-236A-60	R22 R134a R404A R407C	70mm(2-1/2")	psi kg/cm2	°C	60" 600-3000psi	1. HS-MH 2. HS-ML	/	皮箱 Plastic case
HS-236A-72	R22 R134a R404A R407C	70mm(2-1/2")	psi/bar	°C	72" 600-3000psi	1. HS-MH 2. HS-ML	/	皮箱 Plastic case
HS-236-36	R22 R134a R404A R407C	70mm(2-1/2")	psi/bar	°C	36" 600-3000psi	/	/	彩盒 Paper box
HS-236-60	R22 R134a R404A R407C	70mm(2-1/2")	psi/bar	°C	60" 600-3000psi	/	/	彩盒 Paper box
HS-236-72	R22 R134a R404A R407C	70mm(2-1/2")	psi/bar	°C	72" 600-3000psi	/	/	彩盒 Paper box
HS-260A-OA	R410A R22 R134a R404A	70mm(2-1/2")	psi/bar	°C	60" 600-3000psi	1. HS-MH 2. HS-ML	/	皮箱 Plastic case

产品特点 Product Characteristics

阀体 Valve body

- 紧凑的阀体设计, 便捷易携  
Compact valve body design, convenient and easy to carry

视液镜 Liquid indicator

- 防爆视液镜 Explosion-proof liquid indicator

手轮 Knob

- 符合人体功能学的铝制手轮, 舒适耐用  
Gentle and comfortable aluminium knob



表组系列 MANIFOLD GAUGE SET

HS-536C



工具套件 Tool kit  
彩盒 Paper box  
经济实用 economical and practical



选型 Model selection



产品特点 Product Characteristics

**阀体 Valve body**  
• 一体式铜阀结构, 性能可靠  
Integrated copper valve structure, reliable performance

**手轮 Knob**  
• 符合人体功能学的铝制手轮, 舒适耐用  
Gentle and comfortable aluminium knob

HS-536A	HS-536C	HS-536G-R410A
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选型表 Model selection								
型号 Model	压力表 Pressure gauge				加液管 Refrigerant charging hose	额外配置 Accessories		
	制冷剂 Refrigerant	表盘大小 Diameter	压力单位 Pres.unit	温度单位 Temp.unit		快速接头 Quick coupler	其他 Other	包装 Package
HS-536A	R410A R22 R134a R404A	70mm(2-1/2")	psi/bar	°C	36" 600-3000psi	/	/	彩盒 Paper box
HS-536C	R22 R404A R407C R134a	70mm(2-1/2")	psi/bar	°C	36" 600-3000psi	/	/	彩盒 Paper box
HS-536G-R410A	R22 R134a R404A R410A	70mm(2-1/2")	psi/bar	°C	36" 800-4000psi	/	/	彩盒 Paper box



# 表组系列 MANIFOLD GAUGE SET

## HS-473AH/HS-473AL



### 产品特点 Product Characteristics

#### 单表阀 Single manifold gauge

- 单表设计, 经济实用  
Single meter design, economical and practical

#### 阀体 Valve body

- 一体式铜阀结构, 性能可靠  
Integrated copper valve structure, reliable performance

#### 视镜 Liquid indicator

- 独特而实用的铜阀带视镜设计  
Unique and practical designed sight glass

#### 手轮 Knob

- 符合人体功能学的铝制手轮, 舒适耐用  
Gentle and comfortable aluminium knob

- 工具套件 Tool kit
- 彩盒 Paper box
- 经济实用 economical and practical



### 选型 Model selection



HS-473AH      HS-473AL      HS-466NAH      HS-466NAL

选型表 Model selection								
型号 Model	压力表 Pressure gauge				加液管 Refrigerant charging hose	额外配置 Accessories		
	制冷剂 Refrigerant	表盘大小 Diameter	压力单位 Pres.unit	温度单位 Temp.unit		快速接头 Quick coupler	其他 Other	包装 Package
HS-473AH-36	R410A R22 R134a R407C	80mm(3-1/8")	psi/bar	°C	36" R/Y 800-4000psi	/	R410A转换接头 *1 R410A adapter *1	彩盒 Paper box
HS-473AH-60	R410A R22 R134a R407C	80mm(3-1/8")	psi/bar	°C	60" R/Y 800-4000psi	/	R410A转换接头 *1 R410A adapter *1	彩盒 Paper box
HS-473AH-72	R410A R22 R134a R407C	80mm(3-1/8")	psi/bar	°C	72" R/Y 800-4000psi	/	R410A转换接头 *1 R410A adapter *1	彩盒 Paper box
HS-473AL-36	R410A R22 R134a R407C	80mm(3-1/8")	psi/bar	°C	36" B/Y 800-4000psi	/	R410A转换接头 *1 R410A adapter *1	彩盒 Paper box
HS-473AL-60	R410A R22 R134a R407C	80mm(3-1/8")	psi/bar	°C	60" B/Y 800-4000psi	/	R410A转换接头 *1 R410A adapter *1	彩盒 Paper box
HS-473AL-72	R410A R22 R134a R407C	80mm(3-1/8")	psi/bar	°C	72" B/Y 800-4000psi	/	R410A转换接头 *1 R410A adapter *1	彩盒 Paper box
HS-466NAH	R410A R22 R404A R134a	70mm(2-1/2")	psi/bar	°C	/	/	/	彩盒 Paper box
HS-466NAL	R410A R22 R404A R134a	70mm(2-1/2")	psi/bar	°C	/	/	/	彩盒 Paper box

# 铜配件系列 BRASS FITTINGS

## 铜封环 Copper sealing ring

- 优质铜合金
- 接口齐全
- High quality copper alloy
- Complete connectors



## 铜封环 Copper sealing ring

1/4 3/8 1/2 5/8 3/4

## 铜封帽 Copper cap

- 优质铜合金
- 接口齐全
- High quality copper alloy
- Complete connectors



## 铜封帽 Copper cap

1/4 3/8 1/2 5/8 3/4

## 毛细管带纳子 Capillary tube with nut

- 优质铜合金
- 焊接结构, 牢固可靠
- 接口, 长度可接受定制
- High quality copper alloy
- Welding structure, firm and reliable
- Connector and length can be customized



毛细管带纳子 Capillary tube with nut	长度 Length	接口 Connector
HS-1350	1M	1/4 SAE
HS-1351	1.5M	1/4 SAE
HS-1352	2M	1/4 SAE

# 冷媒瓶 CYLINDER

## 产品特点 Product Characteristics

### Cylinder valve

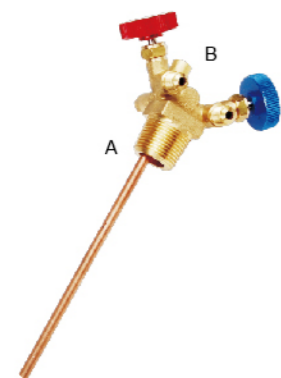
- 一体式铜阀结构, 安全可靠
- 改性PTFE密封垫, 性能优越
- 安全泄压, 2.8MPa-5.5MPa可调节
- 两个接口为高压(液态), 低压(汽态)
- 铜管长度可接受定制

- Integrated brass valve structure, safe and reliable
- Modified PTFE gasket, superior performance
- Safe pressure relief, adjustable from 2.8MPa-5.5MPa
- Two connectors: high pressure (liquid) and low pressure (vapor)
- The length of brass pipe can be customized

### Cylinder 12L / 30L

- 可重复使用
- 安全泄压, 2.8MPa-5.5MPa可调节
- 两个接口为高压(液态), 低压(汽态)

- Reusable
- Safe pressure relief, adjustable from 2.8MPa-5.5MPa
- Two connectors: high pressure (liquid) and low pressure (vapor)



Cylinder valve



Cylinder 12L / 30L

## 选型 Model selection

### 选型表 Model selection

型号 Model	接口A Connector A	接口B Connector B	适用工质 Refrigerants
铜瓶阀 Cylinder valve	PZ27.8	1/4SAE	R22/R134a/R404A/R407C/R410A

型号 Model	尺寸 Size
冷媒瓶 12L Cylinder 12L	1/4 SAE
冷媒瓶 30L Cylinder 30L	1/4 SAE

# 铜配件系列 BRASS FITTINGS

### 纳子 Nut

- 优质铜合金锻制而成
- 接口齐全

- Forged from high-quality copper alloy
- Complete connectors



1/4 3/8 1/2 5/8 3/4

### 纳子 Nut

1/4 3/8 1/2 5/8 3/4

### 双接头 Union connector

- 优质铜合金
- 接口齐全

- High quality copper alloy
- Complete connectors



1/4 3/8 1/2 5/8 3/4

### 双接头 Union connector

1/4 3/8 1/2 5/8 3/4

### 转换接头 Adapter

- 优质铜合金
- 卡簧结构, 环保
- High quality copper alloy
- Circlip structure, environmental protection

转换接头 Adapter	接口A Connector A	接口B Connector B
R22转换接头 R22 Adapter	1/4 SAE(内) 1/4 SAE(female)	5/16 SAE(外) 5/16 SAE(male)
R410A转换接头 R410 Adapter	5/16 SAE(内) 5/16 SAE(female)	1/4 SAE(外) 1/4 SAE(male)



### 转换接头 Adapter

- 优质铜合金
- High quality copper alloy

转换接头 Adapter	接口A Connector A	接口B Connector B
小表接头 Adapter	1/2 ACME(内) 1/2 ACME(female)	1/4 SAE(外) 1/4 SAE(male)







# 快速接头 QUICK COUPLER SERIES

## HS-ML-1/4 / HS-MH-1/4

### 产品特点 Product Characteristics

**行业标准 Standard**

- 符合J639标准  
Meet the J639 standard

**精准操作 Precise operation**

- 开度可调, 精准加注  
Adjustable opening, precise filling

### 选型 Model selection



HS-MH-14x1.5	HS-ML-14x1.5	HS-MH-1/4	HS-ML-1/4
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选型表 Model selection				
型号 Model	适用制冷剂 Refrigerants	附件 Accessories	类型 Type	备注 Remark
HS-MH-14x1.5	R134a	adapter M14x1.5-1/4 SAE	手动型 Manual type	高压 high side
HS-ML-14x1.5		adapter M14x1.5-1/4 SAE	手动型 Manual type	低压 low side
HS-MH-1/4		—	手动型 Manual type	高压 high side
HS-ML-1/4		—	手动型 Manual type	低压 low side

# 快速接头 QUICK COUPLER SERIES

## HS-MH-BMW/HS-12A/HS-12B

### 产品特点 Product Characteristics

**HS-MH-BMW**

**行业标准 Standard**

- 符合J639标准  
Meet the J639 standard

**精准操作 Precise operation**

- 开度可调, 精准加注  
Adjustable opening, precise filling
- 专为BMW特殊车型设计  
Specially designed for BMW

**HS-12A/HS-12B**

**经济实用**

economical and practical

### 选型 Model selection



HS-MH-BMW	HS-12A	HS-12B
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选型表 Model selection				
型号 Model	适用制冷剂 Refrigerants	附件 Accessories	类型 Type	备注 Remark
HS-MH-BMW	R134a	adapter M14x1.5-1/4 SAE	手动型 Manual type	高压 high side
HS-12A		—	快按型 push on snap	高压&低压 High & Low
HS-12B		—	快按型 push on snap	高压&低压 High & Low



# 快速接头 QUICK COUPLER SERIES

## HS-MH-R744/HS-ML-R744



- 符合J639标准
- 自锁结构, 环保可靠
- 开度可调, 精准加注
- 一体式阀体结构, 超高耐压, 爆破压力 $\geq 8700\text{Psi}$  (60MPa)
- 自备泄压, 装卸方便

- Meet the J639 standard
- Self-locking structure, environmental protection and reliable
- Adjustable opening, precise filling
- One-piece valve body structure, ultra-high pressure resistance, burst pressure  $\geq 8700\text{Psi}$  (60MPa)

选型表 Model selection				
型号 Model	制冷剂 Refrigerant	接口 Connection	类型 Type	备注 Remark
HS-MH-R744	R744 (CO <sub>2</sub> )	1/4SAE	手动型 Manual type	高压 high side
HS-ML-R744		1/4SAE	手动型 Manual type	低压 low side

## 产品特点 Product Characteristics

### 行业标准 Standard

- 符合J639标准
- Meet the J639 standard

### 安全可靠 Reliability

- 自锁结构, 环保可靠
- Self-locking structure, environmental protection and reliable

### 精准操作 Precise operation

- 开度可调, 精准加注
- Adjustable opening, precise filling



## 选型 Model selection



(R1234yf)



(R1234yf)



(R134a)



(R134a)

HS-MH-1234	HS-ML-1234	HS-MH-S	HS-ML-S
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### 选型表 Model selection

型号 Model	适用制冷剂 Refrigerants	类型 Type	备注 Remark
HS-MH-1234	R1234yf	手动型 Manual type	高压 high side
HS-ML-1234		手动型 Manual type	低压 low side

### 选型表 Model selection

型号 Model	适用制冷剂 Refrigerants	附件 Accessories	类型 Type	备注 Remark
HS-MH-S	R134a	转换接头 adapter (M14x1.5-1/4 SAE)	手动型 Manual type	高压 high side
HS-ML-S		转换接头 adapter (M14x1.5-1/4 SAE)	手动型 Manual type	低压 low side
HS-MH-S 1/4 SAE		—	手动型 Manual type	高压 high side
HS-MH-L 1/4 SAE		—	手动型 Manual type	低压 low side

# CHARGING VALVE SERIES

加注阀系列



## 产品特点 Product Characteristics

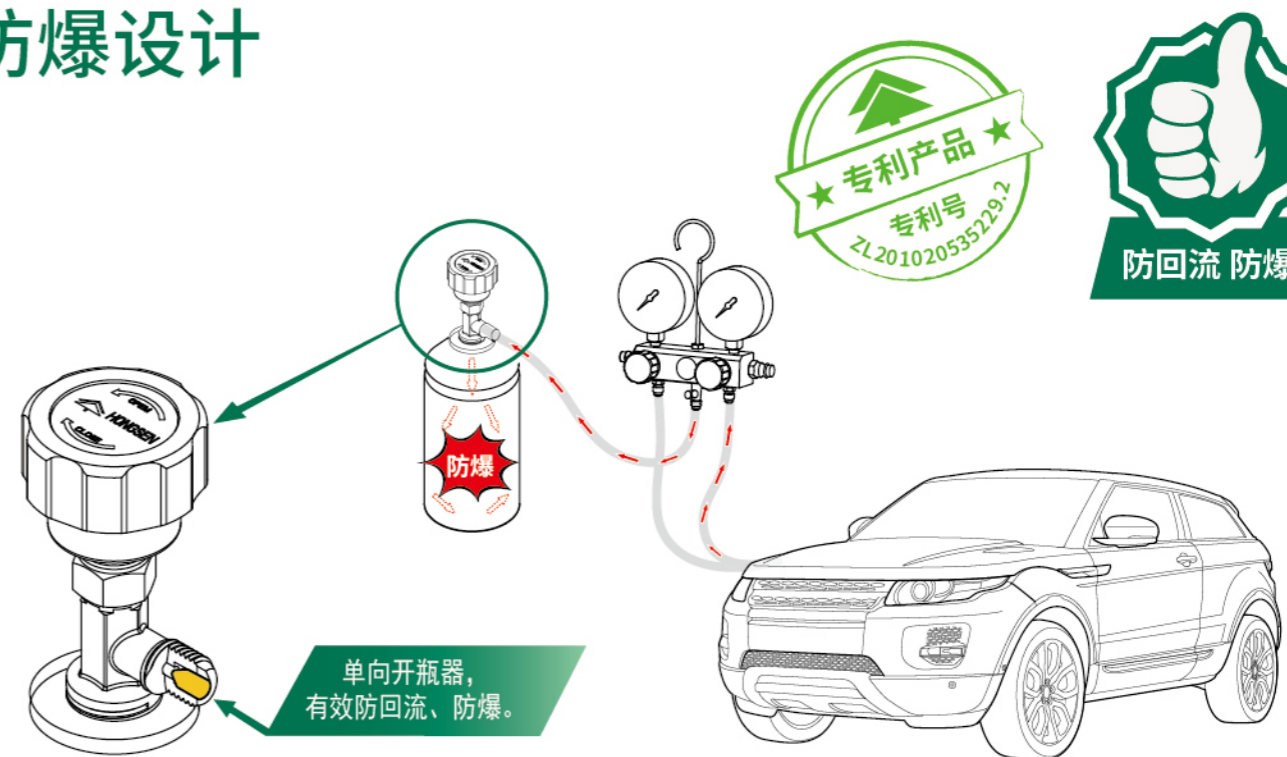
### 手轮Knob

- 符合人体功能学的铝制手轮, 舒适耐用  
Gentle and comfortable aluminium knob

### 防回流设计non-return design

- 防止制冷剂倒流, 防爆  
prevent refrigerant backflow, burst proof

## 开瓶器A系列 CAN TAP VALVE 防爆设计



## 选型 Model selection



HS-338A



HS-339A



HS-340A

选型表 Model selection				
型号 Model	适用制冷剂 Refrigerants	接口A Connector A	接口B Connector B	类型 Type
HS-338A	R22	M12×1.25	1/4 SAE	顶针型 pin type
HS-339A	R134a	M14×1.25	1/4 SAE	顶针型 pin type
HS-340A	通用 universal refrigerants	通用 general type	1/4 SAE	顶针型 pin type

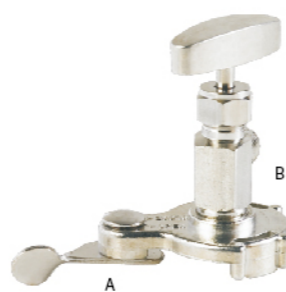
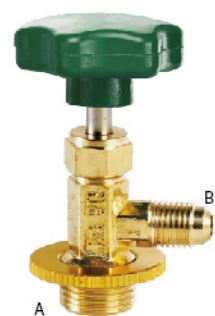
# 开瓶器系列 CAN TAP VALVE

## 产品特点 Product Characteristics

### 经济实用

economical and practical

## 选型 Model selection



HS-338/HS-339

HS-341

HS-340

选型表 Model selection				
型号 Model	适用制冷剂 Refrigerants	接口A Connector A	接口B Connector B	类型 Type
HS-338	R22	M12×1.25	1/4 SAE	顶针型 pin type
HS-339	R134a	M14×1.25	1/4 SAE	顶针型 pin type
HS-341	R22 R134a R410A	7/16-28UNF	1/4 SAE	顶杆型 stem type
HS-340	通用 universal refrigerants	通用 general type	1/4 SAE	顶针型 pin type

# 空调加液阀 Refrigerant Charging Control Valve

## 产品特点 Product Characteristics

### 手轮 Knob

- 铝制手轮, 舒适耐用
- Aluminum knob, comfortable and durable
- 安全可靠, 节能环保
- Safe and reliable, energy saving and environmental protection



## 选型 Model selection



HS-1221

HS-1222

HS-1223

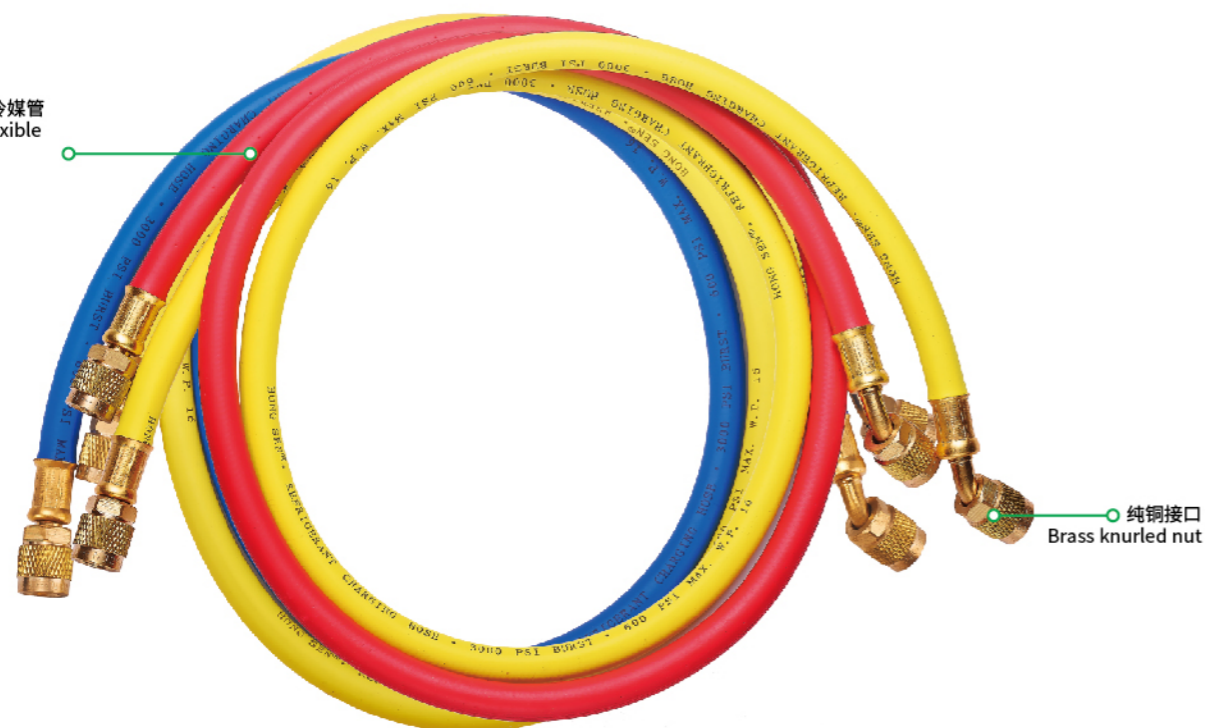
选型表 Model selection				
型号 Model	适用制冷剂 Refrigerants	接口A Connector A	接口B Connector B	类型 Type
HS-1221	R410A R32	5/16 SAE(内)(female)	1/4 SAE	顶杆型 stem type
HS-1222	R22 R404A R407C	1/4 SAE(内)(female)	1/4 SAE	顶杆型 stem type
HS-1223	R410A R32	5/16 SAE(内)(female)	5/16 SAE	顶杆型 stem type

备注: 1/2ACME, 1/2ACME反牙, 5/16SAE反牙等特殊螺纹皆可接受定制  
Remarks: Special threads such as 1/2ACME, 1/2ACME left-handed, 5/16SAE left-handed, etc. can be customized



# 三色管 REFRIGERANT CHARGING HOSE SERIES

三层防漏冷媒管  
3-layer flexible  
hose



SAE J2196  
SAE J2888 R1234yf

## 产品特点 Product Characteristics

### 行业标准 Standard

- 三色管符合SAE J2196 SAE J2888标准  
Meet the SAE J2196 and SAE J2888 standard

### 密封性强 Sealing

- 带六角滚花, 可使用扳手锁紧, 保证密封效果  
Knurled with hexagon, can be locked with a wrench to ensure the sealing effect
- 8角液压, 受力均匀, 加强密封  
8 angle hydraulic pressure, uniform force, strengthened sealing

### 安全可靠 Reliability

- 改性PTFE密封材质, 适用多种制冷剂, 使用寿命更长  
Modified PTFE sealing material, suitable for a variety of refrigerants, longer service life

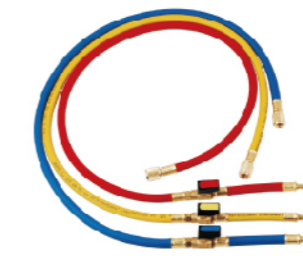
### 实用方便 Convenience

- 接口, 长度均可定制  
Connector and length can be customized

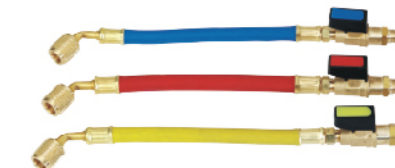
## 选型 Model selection



Charging hose



Charging hose with ball valve



Charging hose with ball valve

### 选型表 Model selection

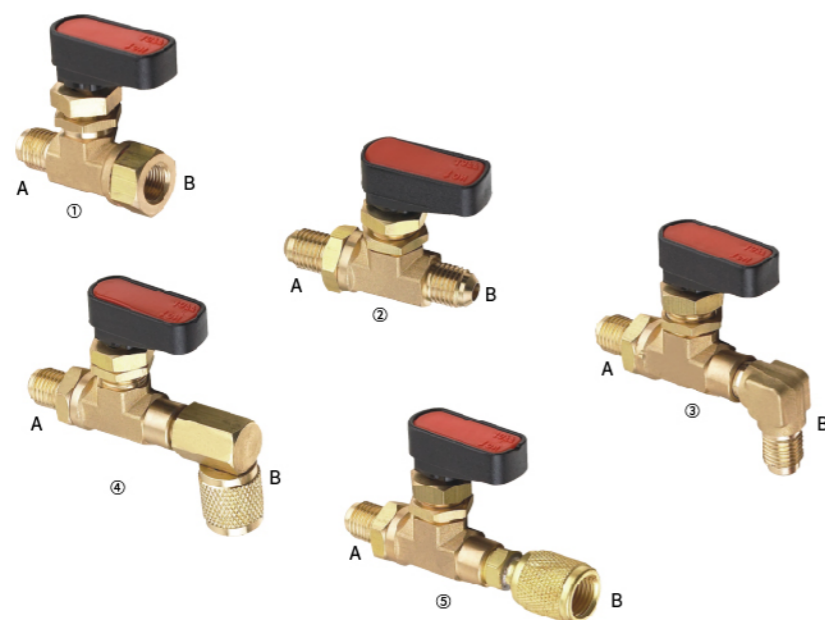
型号 Model	适用制冷剂 Refrigerants	工作压力 Working Pressure	爆破压力 Burst Pressure	长度 Length	接口 Connector
HS-336	R22 R134a R404A R407c	600psi	3000psi	36"	红Red: 1/4SAE-1/4SAE 蓝Blue: 1/4SAE-1/4SAE 黄Yellow: 1/4SAE-1/4SAE
HS-360				60"	
HS-372				72"	
HS-336-R410A	R22 R134a R404A R407c R410A	800psi	4000psi	36"	红Red: 1/4SAE-5/16SAE 蓝Blue: 1/4SAE-5/16SAE 黄Yellow: 1/4SAE-1/4SAE
HS-360-R410A				60"	
HS-372-R410A				72"	
HS-336-BV	R22 R134a R404A R407c R410A	800psi	4000psi	36"	红Red: 1/4SAE-1/4SAE 蓝Blue: 1/4SAE-1/4SAE 黄Yellow: 1/4SAE-1/4SAE
HS-360-BV				60"	
HS-372-BV				72"	
HS-115-1/4	R22 R134a R404A R407c R410A	800psi	4000psi	6"	1/4SAE-1/4SAE
HS-115-5/16				6"	1/4SAE-5/16SAE

# 小球阀 BALL SHUT OFF VALVE

## 产品特点 Product Characteristics

- 一体式结构,性能稳定
- 双重密封,安全可靠
- 改性PTFE密封材质,适用多种制冷剂
- Integrated copper valve structure,, stable performance
- Double sealing, safe and reliable
- Modified PTFE sealing material, suitable for a variety of refrigerants

## 选型 Model selection



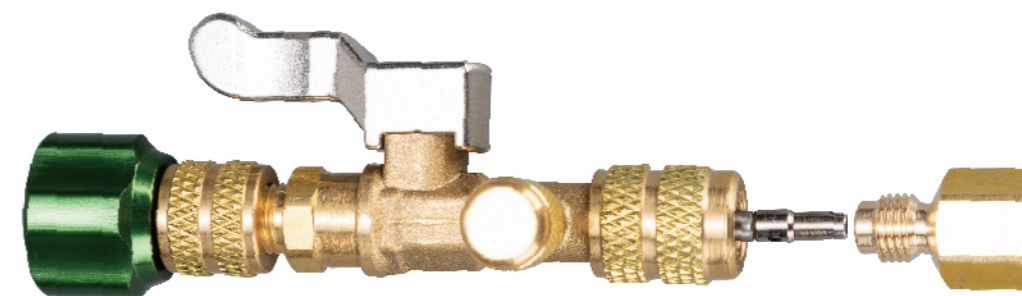
选型表 Model selection				
型号 Model	分组 Group	适用制冷剂 Refrigerants	接口A Connector A	接口B Connector B
1320-01	①	R22 R134a R502 R404A R407C R410A	1/4 SAE M	1/8 NPT F
1320-05	②		1/4 SAE M	1/4 SAE M
1320-06			5/16 SAE M	1/4 SAE M
1320-11	④		5/16 SAE M	1/4 SAE F 90°
1320-07			1/4 SAE M	1/4 SAE F 90°
1320-09			1/4 SAE M	5/16 SAE F 90°
1320-14			5/16 SAE M	5/16 SAE F 90°

选型表 Model selection				
型号 Model	分组 Group	适用制冷剂 Refrigerants	接口A Connector A	接口B Connector B
1320-08	③	R22 R134a R502 R404A R407C R410A	1/4 SAE M	1/4 SAE M 90°
1320-13			5/16 SAE M	5/16 SAE M 90°
1320-02	⑤		1/4 SAE M	1/4 SAE F
1320-03			1/4 SAE M	5/16 SAE F
1320-04			1/4 SAE M	3/8 SAE F
1320-10			5/16 SAE M	1/4 SAE F
1320-12			5/16 SAE M	5/16 SAE F

备注: 1/2ACME, 1/2ACME反牙, 5/16SAE反牙等特殊螺纹皆可接受定制  
Remarks: Special threads such as 1/2ACME, 1/2ACME left-handed, 5/16SAE left-handed, etc. can be customized

# SCHRADER VALVE REMOVER

## 气门芯装卸工具



# 气门芯装卸工具 SCHRADER VALVE REMOVER

## 产品特点 Product Characteristics

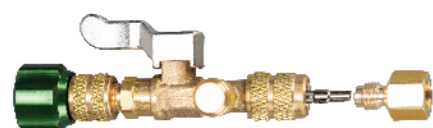
### HS-1430 / HS-1424

- 接口可灵活转换
- 工作中可装卸阀芯
- The connector can be flexibly converted
- Assemble and disassemble valve core under running condition of refrigeration system

### HS-1431

- 可双头使用
- 简便实用
- Both ends can be used
- Simple and practical

## 选型 Model selection



HS-1430

HS-1431

选型表 Model selection		
型号 Model	接口 Connector	适用工况 Working Condition
HS-1430	1/4 SAE & 5/16 SAE	5V1
HS-1431	通用 General	5V1 & 6V1

# 注油器 OIL INJECTOR

## 产品特点 Product Characteristics

- 1/2ACME, 1/2ACME反牙, 5/16SAE反牙等特殊螺纹皆可接受定制
- 单向充注, 有效防回流
- 为系统充注荧光试剂和冷冻油

- Special threads such as 1/2ACME, 1/2ACME left-handed, 5/16SAE left-handed, etc. can be customized
- One-way filling, effectively preventing backflow
- Filling the fluorescent reagents and refrigerant oil for system

## 选型 Model selection



HS-1416

HS-1417

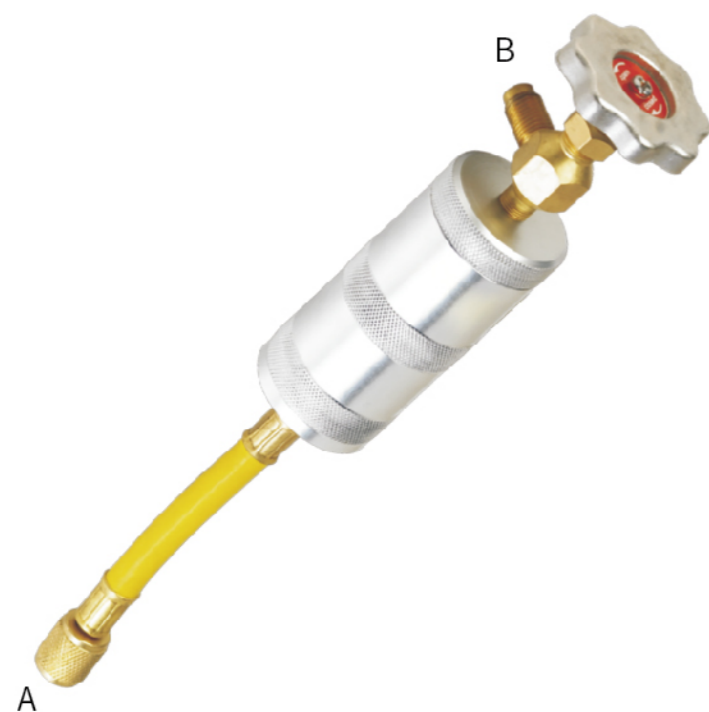
选型表 Model selection		
型号 Model	接口 Connector	容积 Capacity
HS-1416	1/4 SAE	70ml
HS-1417	1/4 SAE	14ml

# 荧光加液器 FLUORESCENT LIQUID FILLER

## 产品特点 Product Characteristics

- 1/2ACME, 1/2ACME反牙, 5/16SAE反牙等特殊螺纹皆可接受定制
- 为系统充注荧光试剂和冷冻油

- Special threads such as 1/2ACME, 1/2ACME left-handed, 5/16SAE left-handed, etc. can be customized
- Filling the fluorescent reagents and refrigerant oil for system



选型表 Model selection			
型号 Model	接口A Connector A	接口B Connector B	容积 Capacity
HS-1418	1/4 SAE	1/4 SAE	60ml

# 清洗瓶 A/C FLUSH CLEANER

## 产品特点 Product Characteristics

- 软管连接, 使用轻便灵活
- 深度清洗冷凝器和蒸发器
- 超压自动排泄, 安全可靠

- Flexible hose connection, easy to use
- Can clean the condenser and evaporator deeply
- Automatic discharge of overpressure, safe and reliable



选型表 Model selection			
型号 Model	接口 Connector	工作压力 Working Pressure	容积 Capacity
HS-1415R	1/4 SAE	1Mpa	1000ml



# 割刀 CUTTER

## 产品特点 Product Characteristics

- 精密螺杆机械结构: 灵活进给
  - 多滚轮结构: 作业时刀片保持在同圈内切割
  - 凹槽滚轮结构: 可贴近管子扩口切割
  - GCr15刀片: 准确锋利切断管件
- Precision screw mechanical structure: smart moving
  - Multi-rolling wheel structure: same circle cutting will be kept during operation
  - The groove wheel structure: can be close to the tube expansion cutting
  - GCR15 blade: precise and sharp cutting

## 选型 Model selection



HS-TD19	HS-TD32	HS-TD50	HS-TD70
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选型表 Model selection	
型号 Model	尺寸 Size
HS-TD19	Φ3-Φ19
HS-TD32	Φ4-Φ32
HS-TD50	Φ5-Φ50
HS-TD70	Φ6-Φ70

# 回收机 RECOVERY MACHINE

## 产品特点 Product Characteristics

- 无油压缩机, 可回收大部分常用冷媒
  - 自净化功能, 清除机内残留冷媒
  - 低压保护, 自动停机
  - 高压保护, 复位按键
- Oil-free compressor, suitable for all commonly used refrigerants
  - Self-purification function, can remove the residual refrigerants in the machine
  - Low-pressure protection, automatic shutdown
  - High pressure protection, reset button

## 选型 Model selection



选型表 Model selection								
型号 Model	适用制冷剂 Refrigerants	电源 Power Supply	电机 Power Supply	压缩机 Compressor	高压保护 High Pressure Shut-Off	工作温度 Operating Temperature	回收速率 Recovery Rate	外形尺寸 Dimensions (mm)
R250/R250F	<ul style="list-style-type: none"> <li>• R12, R134a, R401C, R406A, R500</li> <li>• R407D, R408A, R409A, R411A, R411B, R412A, R502, R509, R22, R401A, R401B, R402B, R407C</li> </ul>	220-240VAC/50-60Hz	3/4	Oil-free Piston style Air cooled	38.5bar/ 3850kPa	0°C~40°C/ 32°F~104°F	气态Vapor:0.26kg/min 液态Liquid:1.85kg/min 推拉模式 Push/Pull:6.22kg/min	418×250×345
R500/R500F	<ul style="list-style-type: none"> <li>• R402A, R404A, R407A, R407B, R410A, R507</li> </ul>	110-120VAC/60Hz	1	Oil-free Piston style Air cooled	38.5bar/ 3850kPa	0°C~40°C/ 32°F~104°F	气态Vapor:0.52kg/min 液态Liquid:3.70kg/min 推拉模式 Push/Pull:9.95kg/min	418×250×345