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HONGSEN

HVAC&R SERVICE TOOLS



HONGSEN MACHINERY

ESCORT FOR SAFE REFRIGERATION

HVAC&R SERVICE TOOLS



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HONGSEN

ESCORT FOR
SAFE REFRIGERATION

ABOUT HONGSEN

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.



ADVANCED PRODUCTION LINE

Domestic leading technology,
highly automated production

SEMI-AUTOMATIC INFRARED ENERGY-SAVING OVEN

Energy efficient,
convenient operation



FINISHING CENTER

High-precision machining
center,
CNC numerical control



HELIUM TESTING MACHINE

Automatic leak detection alarm,
high detection accuracy

HELIUM TESTING MACHINE

Accurate and efficient,
environmentally safe



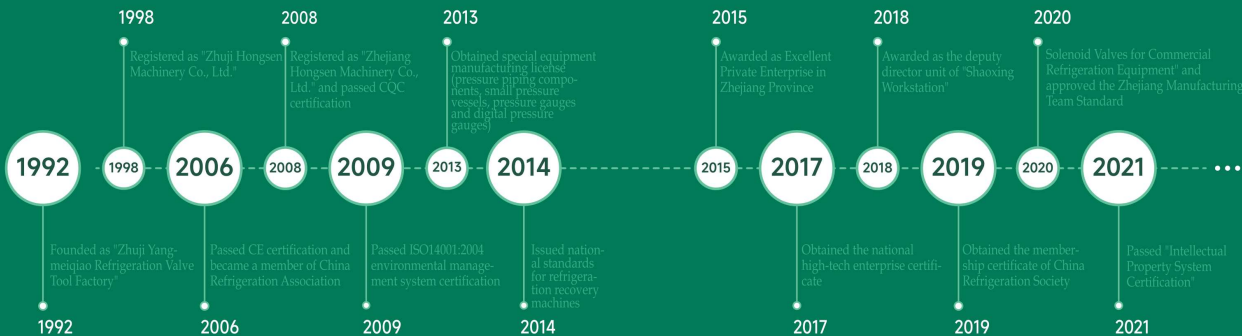
FOCUS ON REFRIGERATION FOR 30 YEARS

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.

DEVELOPMENT HISTORY

SHANGHAI HONGSEN MACHINERY CO., LTD.

HONGSEN



GLOBAL BRAND CHANNELS



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.

MANIFOLD GAUGE SET



MANIFOLD GAUGE SET HS-DVS60/HS-D480



Product Characteristics

Digital gauge

- High precision digital display
- Simple operation

Protective housing

- Anti-collision design

Knob

- Ball valve design, easier operation and more precise charging.
- Gentle and comfortable knob

Hook

- Foldable hook
- Easy storage and hiding

Liquid indicator

- Explosion-proof liquid indicator

Model selection



| HS-DVS60-101A | HS-D480AH | HS-D480AL | HS-D5300 |
|---------------|-----------|-----------|----------|
|---------------|-----------|-----------|----------|

Model selection

| Model | Refrigerant | Diameter | Pres.unit | Temp.unit | Refrigerant charging hose | Accessories | | |
|------------------|--|----------|-----------------|-----------|---------------------------|---------------|--------------|---|
| | | | | | | Quick coupler | Package | Other |
| HS-DVS60-101A-60 | R22 R134a R1234yf R32 R407C R504A R410A R507 R600a | — | psi/bar/Mpa/Kpa | °C/°F | 60" 800~4000psi | / | Plastic case | Charging control valve *2 5/16SAE"1/4SAE |
| HS-DVS60-101A-72 | R22 R134a R1234yf R32 R407C R504A R410A R507 R600a | — | psi/bar/Mpa/Kpa | °C/°F | 72" 800~4000psi | / | Plastic case | Charging control valve *2 5/16SAE"1/4SAE |

* Charging hoses 3 pcs(red,yellow,blue), all 1/4SAE connection

* Thread of all adapter on valve: 1/4SAE

Model selection

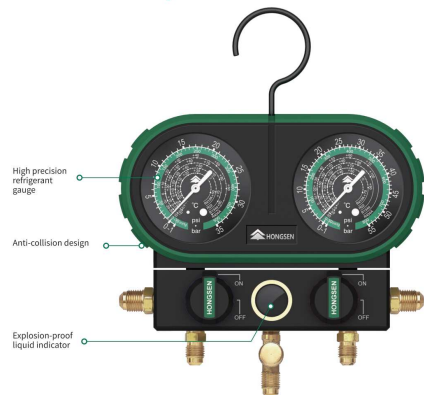
| Model | Refrigerant | Pressure gauge | | | Refrigerant charging hose | Accessories | | |
|--------------|--|----------------|-----------------|-----------|---------------------------|---------------|--------------|------------------|
| | | Diameter | Pres.unit | Temp.unit | | Quick coupler | Package | Other |
| HS-D480AH-36 | R22 R134a R1234yf R32 R407C R504A R410A R507 R600a | — | psi/bar/Mpa/Kpa | °C/°F | 36" 800~4000psi | / | Plastic case | R410A adapter *1 |
| HS-D480AH-60 | R22 R134a R1234yf R32 R407C R504A R410A R507 R600a | — | psi/bar/Mpa/Kpa | °C/°F | 60" 800~4000psi | / | Plastic case | R410A adapter *1 |
| HS-D480AH-72 | R22 R134a R1234yf R32 R407C R504A R410A R507 R600a | — | psi/bar/Mpa/Kpa | °C/°F | 72" 800~4000psi | / | Plastic case | R410A adapter *1 |
| HS-D480AL-36 | R22 R134a R1234yf R32 R407C R504A R410A R507 R600a | — | psi/bar/Mpa/Kpa | °C/°F | 36" 800~4000psi | / | Plastic case | R410A adapter *1 |
| HS-D480AL-60 | R22 R134a R1234yf R32 R407C R504A R410A R507 R600a | — | psi/bar/Mpa/Kpa | °C/°F | 60" 800~4000psi | / | Plastic case | R410A adapter *1 |
| HS-D480AL-72 | R22 R134a R1234yf R32 R407C R504A R410A R507 R600a | — | psi/bar/Mpa/Kpa | °C/°F | 72" 800~4000psi | / | Plastic case | R410A adapter *1 |
| HS-D5300 | R22 R134a R1234yf R32 R407C R504A R410A R507 R600a | — | psi/bar/Mpa/Kpa | °C/°F | / | / | Paper box | / |

* Charging hoses 2 pcs(4H with red, yellow hose; 4L with blue/yellow hose), all 1/4SAE connection

* Thread of all adapter on valve: 1/4SAE

MANIFOLD GAUGE SET

HS-MVS60/HS-M480



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

Operation demonstration
90° on-off control
Easy and convenient



Foldable hook



ball valve structure



Product Characteristics

Digital gauge

- High precision refrigerant gauge
- Simple operation

Protective housing

- Anti-collision design

Knob

- Ball valve design, easier operation and more precise charging.
- Gentle and comfortable knob

Hook

- Foldable hook
- Easy storage and hiding

Liquid indicator

- Explosion-proof liquid indicator

Model selection



HS-MVS60-101A

HS-M480AH

HS-M480AL

Model selection

| Model | Pressure gauge | | | | Refrigerant charging hose | Accessories | | | |
|------------------|-----------------------|--------------|-----------|-----------|---------------------------|-------------------|--------------|----------------------------------|--------------|
| | Refrigerant | Diameter | Pres.unit | Temp.unit | | Quick coupler | Screw driver | Other | Package |
| HS-MVS60-101A-60 | R22 R134a R404A R410A | 70mm(2-1/2") | psi/bar | °C | 60" 800-4000psi | / | 1 pc | R410A adapter *2 | Plastic case |
| HS-MVS60-101A-72 | R22 R134a R404A R410A | 70mm(2-1/2") | psi/bar | °C | 72" 800-4000psi | / | 1 pc | R410A adapter *2 | 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 | Core remove *1, Can tap valve *1 | 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 | Core remove *1, Can tap valve *1 | Plastic case |

• 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 pack in

Model selection

| Model | Pressure gauge | | | | Refrigerant charging hose | Accessories | | | |
|--------------|-----------------------|--------------|-----------|-----------|---------------------------|---------------|--------------|------------------|-----------|
| | Refrigerant | Diameter | Pres.unit | Temp.unit | | Quick coupler | Screw driver | Other | Package |
| HS-M480AH-36 | R22 R134a R404A R410A | 70mm(2-1/2") | psi/bar | °C | 36" 800-4000psi | / | / | R410A adapter *1 | Paper box |
| HS-M480AH-60 | R22 R134a R404A R410A | 70mm(2-1/2") | psi/bar | °C | 60" 800-4000psi | / | / | R410A adapter *1 | Paper box |
| HS-M480AH-72 | R22 R134a R404A R410A | 70mm(2-1/2") | psi/bar | °C | 72" 800-4000psi | / | / | R410A adapter *1 | Paper box |
| HS-M480AL-36 | R22 R134a R404A R410A | 70mm(2-1/2") | psi/bar | °C | 36" 800-4000psi | / | / | R410A adapter *1 | Paper box |
| HS-M480AL-60 | R22 R134a R404A R410A | 70mm(2-1/2") | psi/bar | °C | 60" 800-4000psi | / | / | R410A adapter *1 | Paper box |
| HS-M480AL-72 | R22 R134a R404A R410A | 70mm(2-1/2") | psi/bar | °C | 72" 800-4000psi | / | / | R410A adapter *1 | Paper box |

• 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

MANIFOLD GAUGE SET

Digital manifold HS-330



Technical Parameters

Pressure value: gauge pressure
Pressure unit: Kpa; MPa; bar; inHg; Psi.
Pressure range: 0Kpa~6000Kpa
Accuracy: $\pm 0.5\%(FS) + 5 \text{dgt}$
Overload Pressure limit: 10000Kpa (10MPa; 100bar)

Temperature unit: °C/°F
Temperature range: -40°C~150°C (-40°F~302°F)
Temperature accuracy: $\pm 0.5^\circ\text{C} \pm 2 \text{dgt}$ $\pm 0.9^\circ\text{F} \pm 2 \text{dgt}$

Power Supply: 4 × 1.5V
Connector: 1/4SAE

Vacuum value: relative vacuum
Vacuum unit: Kpa; MPa; bar; inHg; Psi.
Vacuum range: -101Kpa~0Kpa

Refrigerant(89): R11 R13 R14 R15 R16 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 R509A AR600 R600A R717 R744 (Co2) 1234yf

Product Characteristics

- 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.

MANIFOLD GAUGE SET

Digital manifold HS-370



HS-370-A



Technical Parameters

Pressure value: gauge pressure

Pressure unit: Kpa; MPa; bar; inHg; Psi.

Pressure range: 0Kpa~6000Kpa

Accuracy: $\pm 0.5\%$ FS ± 5 dg

Overload Pressure limit: 10000Kpa (10MPa; 100bar)

Temperature unit: °C/°F

Temperature range: -40°C~-150°C (-40°F~-302°F)

Temperature accuracy: $\pm 0.5^\circ\text{C} \pm 2$ dg $\pm 0.9^\circ\text{F} \pm 2$ dg

Vacuum value: relative vacuum

Vacuum unit: Kpa; MPa; bar; inHg; Psi.

Vacuum range: -101Kpa~-0Kpa

Power Supply: 24X1.5V **Connector:** 1/4SAE

Accessories:

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

Refrigerant[93]: R11 R113 R114 R115 R116 R12 R23 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 R404A R405A R405A 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 R425A R427A R428A R438A R448A R449A R452A R50 R500 R501 R502 R503 R504 R507A R508A R508B R509A R500 R600A R717 R744(Co2) R1234yf

Product Characteristics

- 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.

TEMPERATURE MEASURING CLAMP

HS-TS-1500



Technical Parameters

Temperature unit: °C/°F

Temperature range: -40°C~-150°C (-40°F~-302°F)

Temperature accuracy: $\pm 0.5^\circ\text{C} \pm 2$ dg $\pm 0.9^\circ\text{F} \pm 2$ dg

The length of sensor wire: 1.5m

Product Characteristics

- The shell uses high-strength engineering plastics the whole machine is solid.
- High precision sensor, accurate measurement.
- Flexible jaws, convenient and practical.

MANIFOLD GAUGE SET HS-350A-AD



MANIFOLD GAUGE SET

HS-350A-AD



(With charger, for sustainable power supply)

Technical Parameters

Code Number: 1024

Connector: 1/4 SAE

Refrigerant: R11 R12 R13 R14 R21 R22 R23 R32 R41 R114 R115 R123 R124 R134a R176 R218 R245CA R290 R401A R401B R401C R402A R402B R403A R403B R404A R406A R407A R407B R407C R408A R409A R410A R410B R411B R412A R413A R414A R416A R417A R420A R421A R422A R422B R422D R423A R424A R427A R434A R437A R438A R501 R502 R503 R504 R507 R600a R601 R601A R718 R1234yf

Temperature Range: -55~125°C

Temperature Accuracy: $\pm 0.5^{\circ}\text{C}$ (-10~85°C)

Pressure Range: 0.1~4.2MPa (表压 Gauge Pressure)

Pressure Accuracy: 1%

Accessories:

- 1 set of 60" 800~4000psi charging hose (red, yellow, blue)
- 2 sets of temperatures
- 1 pcs of Charger
- Plastic packing case

Model selection

Tool kit

High-end plastic-case packaging

Convenient storage, easy carry



Model selection

- The shell adopts soft and comfortable design, which makes it give comfortable handle and high shock resistance
- Large screen, multi-angle, big-font LCD and backlight design
- High precision pressure sensor and Digital temperature sensor greatly improve the accuracy and precision
- Micro power electronic component design greatly enhance the life of battery
- Contain 61 kinds of refrigerant parameter

- Dual channel RT measurement can work out the superheat and supercooling
- Multi-mode option can be used in vacuum measurement, pipe leak detection and routing maintenance
- Different pressure unit (MPa, kPa, bar, psi), temperature unit (°C, °F) can be switched freely to meet the usage
- It switches off automatically when the pressure is overloaded
- The valve body is made of high quality aluminum alloy

MANIFOLD GAUGE SET

HS-B60-R744

R744
CO₂


HS-B60-R744-A



HS-B60-R744-A-QC

Product Characteristics

- 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

| Model selection | | | | | | | | | |
|------------------|-------------------------|--------------|-----------|-----------|---------------------------|------------------------------|--------------|-------|----------------|
| Model | Pressure gauge | | | | Refrigerant charging hose | Accessories | | | |
| | Refrigerant | Diameter | Pres.unit | Temp.unit | | Quick coupler | Screw driver | Other | Package |
| HS-B60-R744-A | R744 (CO ₂) | 80mm(3-1/8") | psi/Mpa | / | 60" 120-600bar | / | / | / | Aluminium case |
| HS-B60-R744-A-QC | R744 (CO ₂) | 80mm(3-1/8") | psi/Mpa | / | 60" 120-600bar | 1.HS-MH-R744 2.HS-ML-R744 | / | / | Aluminium case |

Model selection



- Double-layer steel mesh, ultra-high pressure resistance, burst pressure ≥ 8700 Psi (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

| Model selection | | | | | |
|-----------------|-------------------------|------------------|-------------------|--------|---------------|
| Model | Refrigerant | Working pressure | Bursting pressure | Length | Connection |
| HS-360-R744 | R744 (CO ₂) | 120bar | 600bar | 60" | 1/4SAE-1/4SAE |
| HS-372-R744 | | | | 72" | 1/4SAE-1/4SAE |



- 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 ≥ 8700 Psi (60MPa)

| Model selection | | | | |
|-----------------|-------------------------|------------|-------------|-----------|
| Model | Refrigerant | Connection | Type | Remark |
| HS-MH-R744 | R744 (CO ₂) | 1/4SAE | Manual type | high side |
| HS-ML-R744 | | 1/4SAE | Manual type | low side |

MANIFOLD GAUGE SET HS-M01/HS-M02



(Pocketable)

Product Characteristics

- 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



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



Tool kit
Paper box
economical and practical

Model selection



HS-M01

HS-M01-134-A

HS-M02

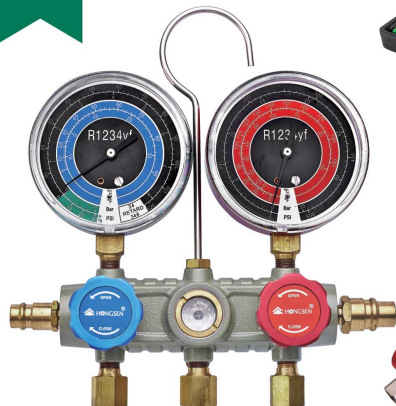
HS-M02-410-22-A

| Model selection | | | | | | | |
|-----------------|-------------------|----------------|------------|------------|---------------------------|-----------------|---------------------------|
| Model | Pressure gauge | | | | Refrigerant charging hose | Accessories | |
| | Refrigerant | Diameter | Pres. unit | Temp. unit | | Quick coupler | Other |
| HS-M01 | R134a R1234yf R22 | 50mm(1-15/16") | Psi/bar | °C | / | / | / |
| HS-M02 | R22 R410A R32 | 50mm(1-15/16") | Psi/bar | °C | / | / | / |
| HS-M01-134-A | R134a R1234yf R22 | 50mm(1-15/16") | Psi/bar | °C | 48" 600-3000Psi | 1.HS-MH 2.HS-ML | core-mover*1 cantoprobe*1 |
| HS-M02-410-22-A | R22 R410A R32 | 50mm(1-15/16") | Psi/bar | °C | 48" 600-3000Psi | / | R410A adapter*2 |

MANIFOLD GAUGE SET

HS-S36F-1234

R1234yf



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



Product Characteristics

Valve body

- Compact valve body design, convenient and easy to carry

Liquid indicator

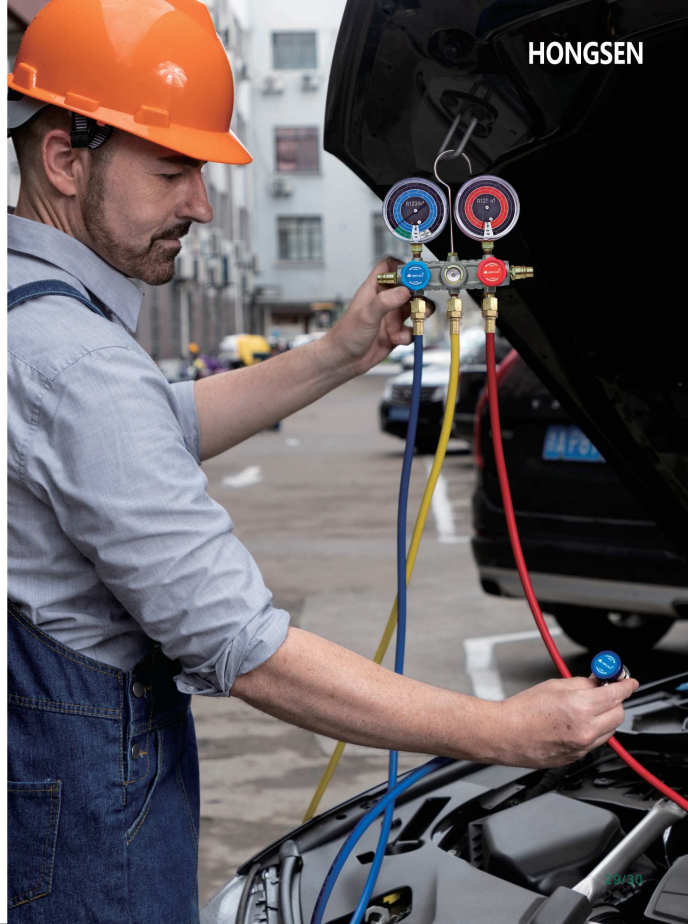
- Explosion-proof liquid indicator

Knob

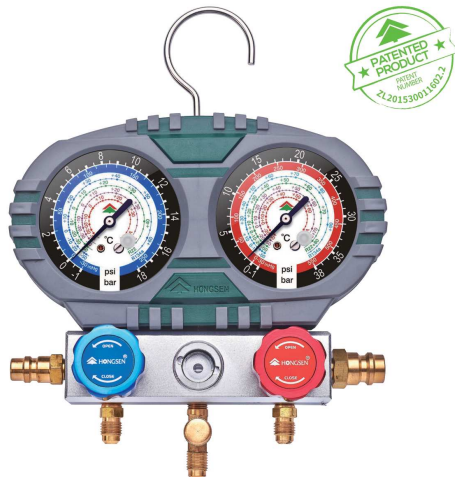
- Gentle and comfortable aluminium knob

Model selection

| Model | Pressure gauge | | | | Refrigerant charging hose | Accessories | | | |
|--------------|----------------|--------------|------------|------------|---------------------------|------------------------------------|--------------|----------------|--------------|
| | Refrigerant | Diameter | Pres. unit | Temp. unit | | Quick coupler | Screw driver | Other | Package |
| HS-S36F-1234 | R1234yf | 80mm(3-1/8") | psi/bar | °C/°F | 60" 800-4000psi | 1 x HS-S47H-1234 2 x HS-M6-1234 | 1 pic | Core remover*1 | Plastic case |



MANIFOLD GAUGE SET HS-S60



Product Characteristics

Protective housing
• Anti-collision design

Liquid indicator
• Explosion-proof liquid indicator

Knob
• Gentle and comfortable aluminium knob



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



Tool kit
Paper box
economical and practical

Model selection



HS-S60-101

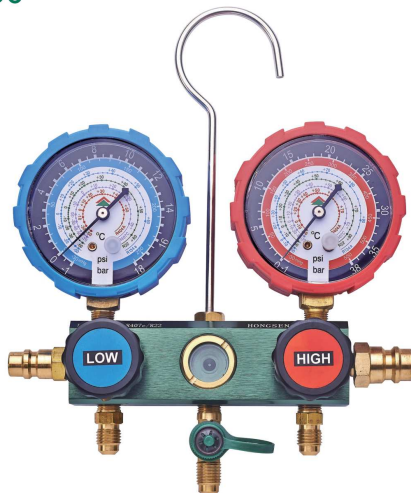


HS-S60-102

| Model selection | | | | | | | | | |
|-----------------|-------------------------|---------------|-----------|-----------|---------------------------|----------------------|--------------|-----------------|--------------|
| Model | Pressure gauge | | | | Refrigerant charging hose | Accessories | | | |
| | Refrigerant | Diameter | Pres.unit | Temp.unit | | Quick coupler | Screw driver | Other | Package |
| HS-S60-101-60 | R22 R404A R134a R407C | 3-1/8" (80mm) | psi/bar | °C | 60" 600-3000psi | / | / | / | Paper box |
| HS-S60-101-72 | R22 R404A R134a R407C | 3-1/8" (80mm) | psi/bar | °C | 72" 600-3000psi | / | / | / | Paper box |
| HS-S60-102 | R32 R410A | 3-1/8" (80mm) | psi/bar | °C | 60" 800-4000psi | / | / | / | Paper box |
| HS-S60-103 | R410A R22 R407C R134a | 3-1/8" (80mm) | psi/bar | °C | 60" 800-4000psi | / | / | / | Paper box |
| HS-S60-104 | R410A R404A R407C R134a | 3-1/8" (80mm) | psi/bar | °C | 60" 800-4000psi | / | / | / | Paper box |
| HS-S60-101-A | R22 R404A R134a R407C | 3-1/8" (80mm) | Psi/bar | °C | 60" 600-3000psi | / | 1pc | / | Plastic case |
| HS-S60-102-A | R410A R32 | 3-1/8" (80mm) | Psi/bar | °C | 60" 800-4000psi | / | 1pc | / | 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 | Core remover*1 | 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 | Core remover*1 | Plastic case |
| HS-S60-106A | R410A R22 R134a R404A | 3-1/8" (80mm) | psi/bar | °C | 60" 800-4000psi | / | / | R410A adapter*2 | Plastic case |

MANIFOLD GAUGE SET

HS-236



Product Characteristics

Valve body

- Compact valve body design, convenient and easy to carry

Liquid indicator

- Explosion-proof liquid indicator

Knob

- Gentle and comfortable aluminium knob



Tool kit

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



Tool kit

- Paper box
- economical and practical

Model selection



| | | | |
|---------|---------|---------|------------|
| HS-S36G | HS-404G | HS-236A | HS-260A-OA |
|---------|---------|---------|------------|

Model selection

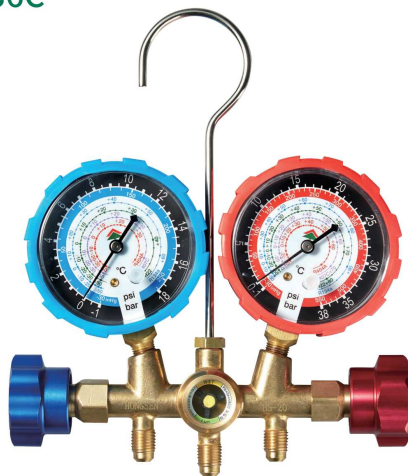
| Model | Pressure gauge | | | | Refrigerant charging hose | Accessories | | |
|---------|-----------------------|--------------|-----------|-----------|---------------------------|---------------|------------------|-----------|
| | Refrigerant | Diameter | Pres.unit | Temp.unit | | Quick coupler | Other | Package |
| HS-S36G | R134a R404A R22 R407C | 80mm(3-1/8") | psi/NPa | °C | 36" 600-3000psi | HS-S2B | Core remover *1 | Paper box |
| HS-404G | R134a R404A R22 R407C | 80mm(3-1/8") | psi/NPa | °C | 36" 600-3000psi | HS-S2B | Can tap valve *1 | Paper box |

Model selection

| Model | Pressure gauge | | | | Refrigerant charging hose | Accessories | | |
|------------|-----------------------|--------------|------------|-----------|---------------------------|----------------------|-------|--------------|
| | Refrigerant | Diameter | Pres.unit | Temp.unit | | Quick coupler | Other | 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 | / | Plastic case |
| HS-236A-T2 | R22 R134a R404A R407C | 70mm(2-1/2") | psi/bar | °C | 72" 600-3000psi | 1. HS-MH 2. HS-ML | / | Plastic case |
| HS-236-36 | R22 R134a R404A R407C | 70mm(2-1/2") | psi/bar | °C | 36" 600-3000psi | / | / | Paper box |
| HS-236-60 | R22 R134a R404A R407C | 70mm(2-1/2") | psi/bar | °C | 60" 600-3000psi | / | / | Paper box |
| HS-236-T2 | R22 R134a R404A R407C | 70mm(2-1/2") | psi/bar | °C | 72" 600-3000psi | / | / | 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 | / | Plastic case |

MANIFOLD GAUGE SET

HS-536C



Product Characteristics

Valve body

- Integrated copper valve structure, reliable performance

Knob

- Gentle and comfortable aluminium knob

Tool kit

Paper box

economical and practical



Model selection



| | | |
|---------|---------|---------------|
| HS-536A | HS-536C | HS-536C-R410A |
|---------|---------|---------------|

| Model selection | | | | | | | | |
|-----------------|-----------------------|--------------|------------|------------|---------------------------|---------------|-------|-----------|
| Model | Pressure gauge | | | | Refrigerant charging hose | Accessories | | |
| | Refrigerant | Diameter | Pres. unit | Temp. unit | | Quick coupler | Other | Package |
| HS-536A | R410A R22 R134a R404A | 70mm(2-1/2") | psi/bar | °C | 3/8" 600-3000psi | / | / | Paper box |
| HS-536C | R22 R404A R407C R134a | 70mm(2-1/2") | psi/bar | °C | 3/8" 600-3000psi | / | / | Paper box |
| HS-536C-R410A | R22 R134a R404A R410A | 70mm(2-1/2") | psi/bar | °C | 3/8" 800-4000psi | / | / | Paper box |

MANIFOLD GAUGE SET HS-473AH/HS-473AL



Product Characteristics

Single manifold gauge

- Single meter design, economical and practical

Valve body

- Integrated copper valve structure, reliable performance

Liquid indicator

- Unique and practical designed sight glass

Knob

- Gentle and comfortable aluminium knob

Tool kit

Paper box

economical and practical



Model selection



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

| Model selection | | | | | | | | |
|-----------------|-----------------------|--------------|----------|-------------|---------------------------|---------------|------------------|-----------|
| Model | Pressure gauge | | | | Refrigerant charging hose | Accessories | | |
| | Refrigerant | Diameter | Pressure | Temperature | | Quick coupler | Other | Package |
| HS-473AH-36 | R410A R22 R134a R407C | 80mm(3-1/8") | psi/bar | °C | 36" R/Y 800-4000psi | / | R410A adapter *1 | Paper box |
| HS-473AH-60 | R410A R22 R134a R407C | 80mm(3-1/8") | psi/bar | °C | 60" R/Y 800-4000psi | / | R410A adapter *1 | Paper box |
| HS-473AH-72 | R410A R22 R134a R407C | 80mm(3-1/8") | psi/bar | °C | 72" R/Y 800-4000psi | / | R410A adapter *1 | Paper box |
| HS-473AL-36 | R410A R22 R134a R407C | 80mm(3-1/8") | psi/bar | °C | 36" B/Y 800-4000psi | / | R410A adapter *1 | Paper box |
| HS-473AL-60 | R410A R22 R134a R407C | 80mm(3-1/8") | psi/bar | °C | 60" B/Y 800-4000psi | / | R410A adapter *1 | Paper box |
| HS-473AL-72 | R410A R22 R134a R407C | 80mm(3-1/8") | psi/bar | °C | 72" B/Y 800-4000psi | / | R410A adapter *1 | Paper box |
| HS-466NAH | R410A R22 R404A R134a | 70mm(2-1/2") | psi/bar | °C | / | / | / | Paper box |
| HS-466NAL | R410A R22 R404A R134a | 70mm(2-1/2") | psi/bar | °C | / | / | / | Paper box |

MANIFOLD GAUGE SET

HS-468AH / HS-468AL



Tool kit
Paper box
economical and practical



Model selection



HS-467AH

HS-467AL

HS-468AH

HS-468AL

Product Characteristics

Single manifold gauge

- Single meter design, economical and practical

Knob

- Gentle and comfortable aluminium knob

| Model selection | | | | | | | | |
|-----------------|---------------------|--------------|------------------------|------------|---------------------------|---------------|-------|-----------|
| Model | Pressure gauge | | | | Refrigerant charging hose | Accessories | | |
| | Refrigerant | Diameter | Pres. unit | Temp. unit | | Quick coupler | Other | Package |
| HS-467AH | R12 R22 R404A R134a | 70mm(2-1/2") | psi kg/cm ² | °C | / | / | / | Paper box |
| HS-467AL | R12 R22 R404A R134a | 70mm(2-1/2") | psi kg/cm ² | °C | / | / | / | Paper box |
| HS-468AH | R32 R410A | 80mm(3-1/8") | psi/bar | °C | / | / | / | Paper box |
| HS-468AL | R32 R410A | 80mm(3-1/8") | psi/bar | °C | / | / | / | Paper box |

Pressure Gauge



Product Characteristics

- No-flutter gauge design
- With Front calibration access port
- Various refrigerants, pressure units, and temperature units can be customized

Model selection



213#H



213#L



211#H



211#L



201#H



201#L



200#H



200#L

| Model selection | | | | | |
|-----------------|-----------------------|--------------|------------|------------|-----------|
| Model | Refrigerant | Dial | Pres. unit | Temp. unit | Connector |
| 213# H | R404A R407C R22 R134a | 70mm(2-1/2") | psi/bar | °C | 1/8NPT |
| 213# L | | | | | |
| 211# H | | | | | |
| 211# L | R410A R22 R134a R404A | | | | |
| 201# H | R404A R407C R22 R134a | 80mm(3-1/8") | | | |
| 201# L | | | | | |
| 200# H | | | | | |
| 200# L | R32 R410A | | | | |

Oil-filled (vacuum) pressure Gauge



| Model selection | | | | | | |
|-----------------|-----------------------|--------------|------|-------------------------|------------|-----------|
| Model | Refrigerant | Oil | Dial | Pres. unit | Temp. unit | Connector |
| 242# H | R404A R407C R22 R134a | glycerin | 63mm | psi/Mpa | ℃ | 1/4SAE |
| 242# L | R404A R407C R22 R134a | | 63mm | psi/Mpa | | |
| 128# H | R410A | | 63mm | psi, Kg/cm ² | | |
| 128# L | R410A | Silicone oil | 63mm | psi, Kg/cm ² | | |
| 191# H | R404A R407C R22 R134a | | 63mm | Mpa | | |
| 191# L | R404A R407C R22 R134a | | 63mm | Mpa | | |
| 122# H | R404A R407C R22 R134a | 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 | | |

Flex Hose With Valve Gauge For Nitrogen



Product Characteristics

- 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.

| Model selection | | | | | |
|-----------------|--|-----------|---------------|------------|-----------------|
| Model | Applicable media | Connector | Dial | Pres. unit | Pressure range |
| HS-NG | R134a R404A R407C R507 R22 R410A Nitrogen gas | 1/4SAE | 80mm (3.1/8") | bar | -1 bar ~ 60 bar |

QUICK COUPLER SERIES

HS-MH-R744/HS-ML-R744



- 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)

| Model selection | | | | |
|-----------------|-------------------------|------------|-------------|-----------|
| Model | Refrigerant | Connection | Type | Remark |
| HS-MH-R744 | R744 (CO ₂) | 1/4SAE | Manual type | high side |
| HS-ML-R744 | | 1/4SAE | Manual type | low side |

Product Characteristics

Standard

- Meet the J639 standard

Reliability

- Self-locking structure, environmental protection and reliable

Precise operation

- Adjustable opening, precise filling



Model selection



| | | | |
|------------|------------|---------|---------|
| HS-MH-1234 | HS-ML-1234 | HS-MH-S | HS-ML-S |
|------------|------------|---------|---------|

Model selection

| Model | Refrigerants | Type | Remark |
|------------|--------------|-------------|-----------|
| HS-MH-1234 | R1234yf | Manual type | high side |
| HS-ML-1234 | | Manual type | low side |

Model selection

| Model | Refrigerants | Accessories | Type | Remark |
|-----------------|--------------|---------------------------|-------------|-----------|
| HS-MH-S | R134a | adapter (M14x1.5-1/4 SAE) | Manual type | high side |
| HS-ML-S | | adapter (M14x1.5-1/4 SAE) | Manual type | low side |
| HS-MH-S 1/4 SAE | | — | Manual type | high side |
| HS-ML-S 1/4 SAE | | — | Manual type | low side |

QUICK COUPLER SERIES HS-ML-1/4 / HS-MH-1/4

Product Characteristics

Standard

- Meet the J639 standard

Precise operation

- Adjustable opening, precise filling

Model selection



| | | | |
|--------------|--------------|-----------|-----------|
| HS-MH-14x1.5 | HS-ML-14x1.5 | HS-MH-1/4 | HS-ML-1/4 |
|--------------|--------------|-----------|-----------|

| Model selection | | | | |
|-----------------|--------------|-------------------------|-------------|-----------|
| Model | Refrigerants | Accessories | Type | Remark |
| HS-MH-14x1.5 | R134a | adapter M14x1.5-1/4 SAE | Manual type | high side |
| HS-ML-14x1.5 | | adapter M14x1.5-1/4 SAE | Manual type | low side |
| HS-MH-1/4 | | — | Manual type | high side |
| HS-ML-1/4 | | — | Manual type | low side |

QUICK COUPLER SERIES HS-MH-BMW/HS-12A/HS-12B

Product Characteristics

HS-MH-BMW

Standard

- Meet the J639 standard

Precise operation

- Adjustable opening, precise filling

- Specially designed for BMW

HS-12A/HS-12B

economical and practical

Model selection



| | | |
|-----------|--------|--------|
| HS-MH-BMW | HS-12A | HS-12B |
|-----------|--------|--------|

| Model selection | | | | |
|-----------------|--------------|-------------------------|--------------|------------|
| Model | Refrigerants | Accessories | Type | Remark |
| HS-MH-BMW | R134a | adapter M14x1.5-1/4 SAE | Manual type | high side |
| HS-12A | | — | push on snap | High & Low |
| HS-12B | | — | push on snap | High & Low |

QUICK COUPLER SERIES

HS-QL-1/4 / HS-QH-1/4



No man understands a deep book until he has seen and lived at least part of its contents.

— Chow Yun-fat, Actor

Technical Parameters

HS/R410A adapter: R134a

HS/black charging hose: 1/4SAE

Product Characteristics

- Meet SAE J639 standard
- Adjustable opening, precise filling
- Exquisite and compact, beautiful appearance
- Unique structure, innovative products

CHARGING VALVE SERIES



Product Characteristics

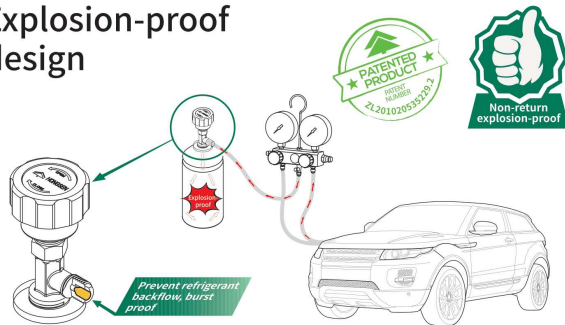
Knob

- Gentle and comfortable aluminium knob

non-return design

- prevent refrigerant backflow, burst proof

CAN TAP VALVE
Explosion-proof
design



Model selection



HS-338A



HS-339A



HS-340A

Model selection

| Model | Refrigerants | Connector A | Connector B | Type |
|---------|------------------------|--------------|-------------|----------|
| HS-338A | R22 | M12 × 1.25 | 1/4 SAE | pin type |
| HS-339A | R134a | M14 × 1.25 | 1/4 SAE | pin type |
| HS-340A | universal refrigerants | general type | 1/4 SAE | pin type |

CAN TAP VALVE

Product Characteristics

economical and practical

Model selection



| | | |
|---------------|--------|--------|
| HS-338/HS-339 | HS-341 | HS-340 |
|---------------|--------|--------|

| Model selection | | | | |
|-----------------|------------------------|--------------|-------------|-----------|
| Model | Refrigerants | Connector A | Connector B | Type |
| HS-338 | R22 | M12 X 1.25 | 1/4 SAE | pin type |
| HS-339 | R134a | M14 X 1.25 | 1/4 SAE | pin type |
| HS-341 | R22 R134a R410A | 7/16-28UNF | 1/4 SAE | stem type |
| HS-340 | universal refrigerants | general type | 1/4 SAE | pin type |

Refrigerant Charging Control Valve

Product Characteristics

Knob

- Aluminum knob, comfortable and durable
- Safe and reliable, energy saving and environmental protection



Model selection



| | | |
|---------|---------|---------|
| HS-1221 | HS-1222 | HS-1223 |
|---------|---------|---------|

| Model selection | | | | |
|--|-----------------|---------------------|-------------|-----------|
| Model | Refrigerants | Connector A | Connector B | Type |
| HS-1221 | R410A R32 | 5/16 SAE(F)(female) | 1/4 SAE | stem type |
| HS-1222 | R22 R404A R407C | 1/4 SAE(F)(female) | 1/4 SAE | stem type |
| HS-1223 | R410A R32 | 5/16 SAE(F)(female) | 5/16 SAE | stem type |
| Remarks: Special threads such as 1/2ACME, 1/2ACME left-handed, 5/16SAE left-handed, etc. can be customized | | | | |

REFRIGERANT CHARGING HOSE SERIES



SAE J2196
SAE J2888 R1234yf

Product Characteristics

Standard

- Meet the SAE J2196 and SAE J2888 standard

Sealing

- Knurled with hexagon, can be locked with a wrench to ensure the sealing effect
- 8 angle hydraulic pressure, uniform force, strengthened sealing

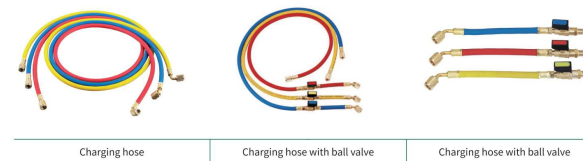
Reliability

- Modified PTFE sealing material, suitable for a variety of refrigerants, longer service life

Convenience

- Connector and length can be customized

Model selection



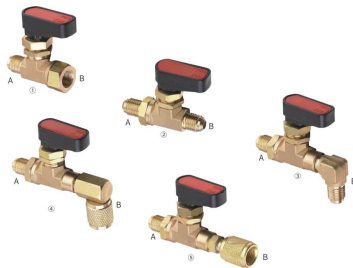
| Model selection | | | | | |
|-----------------|-----------------------------|------------------|----------------|--------|--|
| Model | Refrigerants | Working Pressure | Burst Pressure | Length | Connector |
| HS-336 | R22 R134a R404A R407C | 600psi | 3000psi | 36" | Red: 1/4SAE-1/4SAE Blue: 1/4SAE-1/4SAE Yellow: 1/4SAE-1/4SAE |
| HS-360 | | | | 60" | |
| HS-372 | | | | 72" | |
| HS-336-R410A | R22 R134a R404A R407C R410A | 800psi | 4000psi | 36" | Red: 1/4SAE-5/16SAE Blue: 1/4SAE-5/16SAE Yellow: 1/4SAE-1/4SAE |
| HS-360-R410A | | | | 60" | |
| HS-372-R410A | | | | 72" | |
| HS-336-8V | R22 R134a R404A R407C R410A | 800psi | 4000psi | 36" | Red: 1/4SAE-1/4SAE Blue: 1/4SAE-1/4SAE Yellow: 1/4SAE-1/4SAE |
| HS-360-8V | | | | 60" | |
| HS-372-8V | | | | 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 |

BALL SHUT OFF VALVE

Product Characteristics

- Integrated copper valve structure, stable performance
- Double sealing, safe and reliable
- Modified PTFE sealing material, suitable for a variety of refrigerants

Model selection



| Model selection | | | | | Model selection | | | | |
|--|-------|-------------------------------------|----------------|----------------|-----------------|------------|-------------------------------------|-------------|----------------|
| Model | Group | Refrigerants | Connector A | Connector B | Model | Group | Refrigerants | Connector A | Connector B |
| 1320-01 | ① | R22 R134a R502 R404A R407C R410A | 1/4 SAE M | 1/8 NPT F | 1320-08 | ③ | R22 R134a R502 R404A R407C R410A | 1/4 SAE M | 1/4 SAE M 90° |
| 1320-05 | ② | | 1/4 SAE M | 1/4 SAE M | 1320-13 | | | 5/16 SAE M | 5/16 SAE M 90° |
| 1320-06 | | | 5/16 SAE M | 1/4 SAE M | 1320-02 | 1/4 SAE M | | 1/4 SAE F | |
| 1320-11 | ④ | | 5/16 SAE M | 1/4 SAE F 90° | 1320-03 | 1/4 SAE M | | 5/16 SAE F | |
| 1320-07 | | | 1/4 SAE M | 1/4 SAE F 90° | 1320-04 | 1/4 SAE M | | 3/8 SAE F | |
| 1320-09 | | | 1/4 SAE M | 5/16 SAE F 90° | 1320-10 | 5/16 SAE M | | 1/4 SAE F | |
| 1320-14 | | 5/16 SAE M | 5/16 SAE F 90° | 1320-12 | | 5/16 SAE M | 5/16 SAE F | | |
| Remarks: Special threads such as 1/2ACME, 1/2ACME left-handed, 5/16SAE left-handed, etc. can be customized | | | | | | | | | |

Remarks: Special threads such as 1/2ACME, 1/2ACME left-handed, 5/16SAE left-handed, etc. can be customized

SCHRADER VALVE REMOVER



SCHRADER VALVE REMOVER

Product Characteristics

HS-1430 / HS-1424

- The connector can be flexibly converted
- Assemble and disassemble valve core under running condition of refrigeration system

HS-1431

- Both ends can be used
- Simple and practical



HS-1430

HS-1431

Model selection

| Model | Connector | Working Condition |
|---------|--------------------|-------------------|
| HS-1430 | 1/4 SAE & 5/16 SAE | SV1 |
| HS-1431 | General | SV1 & 6V1 |

OIL INJECTOR

Product Characteristics

- 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

Model selection



HS-1416

HS-1417

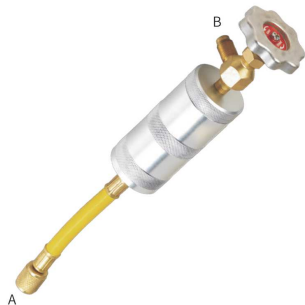
Model selection

| Model | Connector | Capacity |
|---------|-----------|----------|
| HS-1416 | 1/4 SAE | 70ml |
| HS-1417 | 1/4 SAE | 14ml |

FLUORESCENT LIQUID FILLER

Product Characteristics

- 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



| Model selection | | | |
|-----------------|-------------|-------------|----------|
| Model | Connector A | Connector B | Capacity |
| HS-1418 | 1/4 SAE | 1/4 SAE | 60ml |

A/C FLUSH CLEANER

Product Characteristics

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



| Model selection | | | |
|-----------------|-----------|------------------|----------|
| Model | Connector | Working Pressure | Capacity |
| HS-1415R | 1/4 SAE | 1Mpa | 1000ml |

CUTTER

Product Characteristics

- 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

Model selection

| | | | |
|--|---|---|---|
|  |  |  |  |
| HS-TD19 | HS-TD32 | HS-TD50 | HS-TD70 |

| Model selection | |
|-----------------|--------|
| Model | Size |
| HS-TD19 | Φ3-Φ19 |
| HS-TD32 | Φ4-Φ32 |
| HS-TD50 | Φ5-Φ50 |
| HS-TD70 | Φ6-Φ70 |

RECOVERY MACHINE

Product Characteristics

- 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

Model selection



| Model selection | | | | | | | | |
|-----------------|---|---|--------------|--|------------------------|-------------------------|---|-----------------|
| Model | Refrigerants | Power Supply | Power Supply | Compressor | High Pressure Shut Off | Operating Temperature | Recovery Rate | Dimensions (mm) |
| R250/R250F | • R12, R134a, R401C, R406A, R500 • R407D, R408A, R409A, R411A, R411B, R412A, R502, R509, R22, R401A, R401B, R402B, R407C | 220-240VAC/ 50-60Hz 110-120VAC/ 60Hz | 3/4 | Oil-free Piston style Air cooled | 38.5bar/ 3850kPa | 0°C-40°C/ 32°F-104°F | Vapor:0.26kg/min Liquid:1.85kg/min Push/Pull:6.22kg/min | 418×250×345 |
| | | | 1 | Oil-free Piston style Air cooled | 38.5bar/ 3850kPa | 0°C-40°C/ 32°F-104°F | Vapor:0.52kg/min Liquid:3.70kg/min Push/Pull:5.95kg/min | 418×250×345 |
| R500/R500F | • R402A, R404A, R407A, R407B, R410A, R507 | | | | | | | |

CYLINDER

Product Characteristics

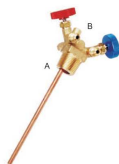
Cylinder valve

- 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

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

Model selection



Cylinder valve

Cylinder 12L / 30L

Model selection

| Model | Connector A | Connector B | Refrigerants |
|----------------|-------------|-------------|-----------------------------|
| Cylinder valve | PE27.8 | 1/4SAE | R22/R134a/R404A/R407C/R410A |

| Model | Size |
|--------------|---------|
| Cylinder 12L | 1/4 SAE |
| Cylinder 30L | 1/4 SAE |

BRASS FITTINGS

Nut

- Forged from high-quality copper alloy
- Complete connectors



Nut

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

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

Union connector

- High quality copper alloy
- Complete connectors



Union connector

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

Adapter

- High quality copper alloy
- Circip structure, environmental protection

| Adapter | Connector A | Connector B |
|--------------|------------------|----------------|
| R22 Adapter | 1/4 SAE(female) | 5/16 SAE(male) |
| R410 Adapter | 5/16 SAE(female) | 1/4 SAE(male) |



Adapter

- High quality copper alloy

| Adapter | Connector A | Connector B |
|---------|------------------|----------------|
| Adapter | 1/2 ACME(female) | 1/4 SAE (male) |



BRASS FITTINGS

Copper sealing ring

- High quality copper alloy
- Complete connectors



Copper sealing ring

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

Copper cap

- High quality copper alloy
- Complete connectors



Copper cap

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

Capillary tube with nut

- High quality copper alloy
- Welding structure, firm and reliable
- Connector and length can be customized



| Capillary tube with nut | Length | Connector |
|-------------------------|--------|-----------|
| HS-1350 | 1M | 1/4 SAE |
| HS-1351 | 1.5M | 1/4 SAE |
| HS-1352 | 2M | 1/4 SAE |