

HONGSEN

HONGSEN MACHINERY

Escort For Safe Refrigeration

HVAC&R SERVICE TOOLS

HVAC&R SERVICE TOOLS



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HONGSEN

ESCORT FOR
SAFE REFRIGERATION

ABOUT HONGSEN

ESCORT FOR SAFE REFRIGERATION

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. In the past tens 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.



ELECTRIC EXPANSION VALVE PRODUCTION LINE

Advanced 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

Accurate and efficient,
environmentally safe



HELIUM TESTING MACHINE

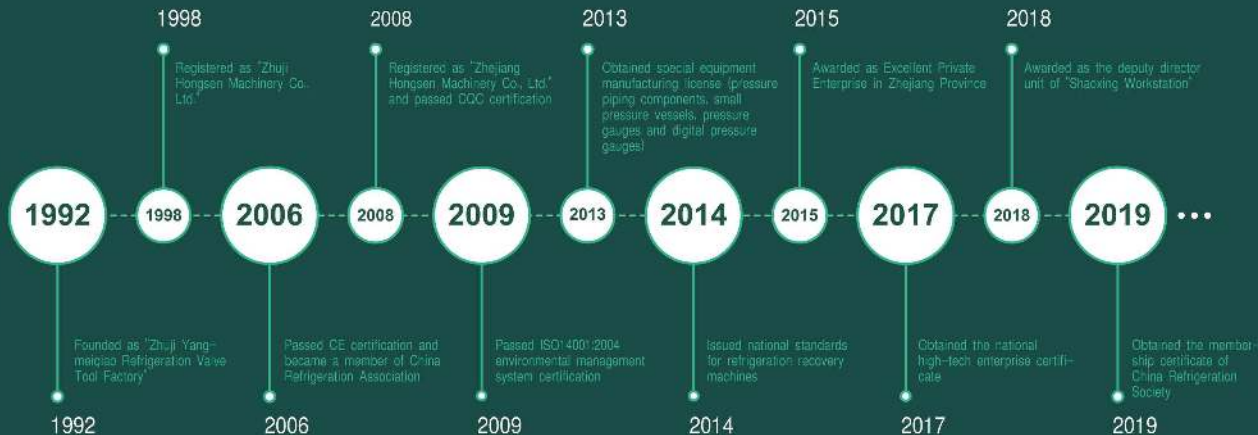
Automatic leak detection alarm,
high detection accuracy

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

INTEGRATION & ACQUISITION



HONGSEN

GLOBAL BRAND CHANNELS



HONGSEN product is well sold in domestic market, like Guangzhou, Shenzhen, 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 ranges

- High precision digital display
- Simple operation

Protective housing

- Anti-collision device

Knob

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

Hagel

- Foldable hook
- Easy storage and hiding

Liquid indicator

- Erythrocyte-potential liquid indicator

Model selection



Model selection									
Model	Parameter choice				Regression coefficient	Regression			
	Self-regress	Regressor	Residual	Temporal		Quick-coefficient	Exchange	Other	
HS (A560) 11.15.01	322 815.0 (R2=0.8152) P(197.2) 141.0 (R2=0.6425)	—	363.0 (R2=0.9405)	1.7%	82% 822.000000	2	HS(2) GMS	Cheng et al. (2017) 11.15.01	
HS (A560) 12.15.02	322 815.0 (R2=0.8152) P(197.2) 141.0 (R2=0.6425)	—	363.0 (R2=0.9405)	1.7%	77% 815.000000	2	HS(2) GMS	Cheng et al. (2017) 12.15.02	
*Cheng et al. (2017) 11.15.01, 12.15.02, 12.15.03					*Cheng et al. (2017) 11.15.01, 12.15.02, 12.15.03				

Model selection									
Model	Pressure gauge				Hydraulic charging hose	Accessories			
	Rating†	Summer	Post cut	Temp. limit		Glass package	Package	Order	
HS-040240-01	123 PSI (8.6 MPa) R37 467.1 MPa (67.6 KSI) 123.2	—	240000000000	72°F	06" (1.5") × 1000 ft	2	1-bag package	HS-040240-01 1840 (6) complete†	
HS-040240-02	123 PSI (8.6 MPa) R37 467.1 MPa (67.6 KSI) 123.2	—	240000000000	72°F	06" (1.5") × 1000 ft	2	1-bag package	HS-040240-02 1840 (6) complete†	
HS-040240-02	123 PSI (8.6 MPa) R37 467.1 MPa (67.6 KSI) 123.2	—	240000000000	72°F	06" (1.5") × 1000 ft	2	1-bag package	HS-040240-02 1840 (6) complete†	
HS-040240-05	123 PSI (8.6 MPa) R37 467.1 MPa (67.6 KSI) 123.2	—	240000000000	72°F	06" (1.5") × 1000 ft	2	1-bag package	HS-040240-05 1840 (6) complete†	
HS-040240-50	123 PSI (8.6 MPa) R37 467.1 MPa (67.6 KSI) 123.2	—	240000000000	72°F	06" (1.5") × 1000 ft	2	1-bag package	HS-040240-50 1840 (6) complete†	
HS-040240-75	123 PSI (8.6 MPa) R37 467.1 MPa (67.6 KSI) 123.2	—	240000000000	72°F	06" (1.5") × 1000 ft	2	1-bag package	HS-040240-75 1840 (6) complete†	
HS-040240	123 PSI (8.6 MPa) R37 467.1 MPa (67.6 KSI) 123.2	—	240000000000	72°F	?	2	2-bag box	?	

†Complete kit includes pressure relief valve and safety hose with 1000 ft (305 m) of 1/2" (12.7 mm) ID hose and 1/2" (12.7 mm) ID hose.

†Hoses of 1/2" (12.7 mm) ID hose are not available.

MANIFOLD GAUGE SET
HS-MVS60/HS-M480



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

Operation demonstration
RF on-off control
Easy and convenient



Product Characteristics

Digital ranges

- High precision refrigerant gauge
- Simple operation

Protective housing

- Anti-collision device

Kinob

- Ball valve design, easier operation and more positive charging
- Gentle and comfortable snub

Hook

- Foldable hook
- Easy storage and hiding

Liquid indicator

- Explosive on ground liquid indicator

Model selection



HS-MVS60-101A	HS-M480AL	HS-M480AH
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Model selection

Model	Product data				High power energy (kWh)	Components			
	Reflector	Scanner	Frontend	Temperat		Quick sample	Secondary	Other	Package
HS-M950-10-A-10	R22-R134, R6046-R410A	10cm-12-121	no-fiber	°C	60° 600-4000Pa	2	1.0	HS-Scalpel2	Plastic case
HS-M950-10-A-15	R72-R134, R6046-R410A	10cm-12-121	no-fiber	°C	62° 600-4000Pa	2	1.0	HS-Scalpel2	Plastic case
HS-M950-124-30A	R22-R134, R6046-R410A	10cm-12-121	no-fiber	°C	60° 600-4000Pa	2, 15-104 2, 15-104	1.0	Secondary Calibration 1	Plastic case
HS-M950-124-72A	R22-R134, R6046-R410A	10cm-12-121	no-fiber	°C	62° 600-4000Pa	2, 15-104 2, 15-104	1.0	Secondary Calibration 1	Plastic case

Model selection

Model	Processor data				Redundant strength factor	Resistance			
	Subject	Stress	Force	Temp		Quasi-static strength	Other	Package	
45-995340-00	022 9024 1909A 00124	00000-01271	galvan	12	607 600-00226	2	2	462-240000-13	Super base
45-995240-00	022 9024 1909A 00124	00000-01271	galvan	12	607 600-00226	2	2	462-240000-13	Super base
45-995240-22	022 9024 1909A 00124	00000-01271	galvan	12	607 600-00226	2	2	462-240000-13	Super base
45-995240-37	022 9024 1909A 00124	00000-01271	galvan	12	607 600-00226	2	2	462-240000-13	Super base
45-995240-51	022 9024 1909A 00124	00000-01271	galvan	12	607 600-00226	2	2	462-240000-13	Super base
45-995240-72	022 9024 1909A 00124	00000-01271	galvan	12	607 600-00226	2	2	462-240000-13	Super base

>The galvanneal prep. is performed on both sides of the sheet metal.

>The zinc coating is 0.0025 in.

MANIFOLD GAUGE SET
HS-350A-AD



MANIFOLD GAUGE SET
HS-350A-AD



(With charger, for sustainable power supply)

Technical Parameters

Code Number: 1024 Connector: 14543

Hbfgpqrstuvwxyz0123456789-.,!@#\$%^&*()_+~`{|}~<=>?[]\;:'"/>

Temperature Range: 15~125°C

Temperature Accuracy: $\pm 0.5^{\circ}\text{C}$ to $\pm 0.25^{\circ}\text{C}$

Pressure Range: 0.1~4.2MPa (1.5~60psi Gauge Pressure)

Pressure Accuracy: 1%

HONGSEN A/C SERVICE TOOLS

Model selection

Tool kit

High-end plastic-case packaging

Convenient storage, easy carry



产品特点 Model selection

- [illegible]

MANIFOLD GAUGE SET

HS-B60-R744

R744
CO₂



HS-B60-R744-A



HS-B60-R744-A-QC

Product Characteristics

- Valve body: Integrated cooperative structure, superior performance
- Handwheel: Ergonomic aluminum handwheel, comfortable and durable
- Pressure relief structure, manual exhaust
- Super pressure resistance, safe and reliable

Model	Pressure gauge				Solvent filling test	Accessories			
	Ref. gauge	Barometer	Access	Temp. test		Quick coupler	Screw driver	Other	Package
HS-B60-R744-A	R744-0202	80mmx5-125T	160/20	2	60~2000psi	2	2	2	Aluminum case
HS-B60-R744-A-QC	R744-0202	80mmx5-125T	160/20	2	60~2000psi	2	2	2	Aluminum case

Model selection



- Double layer steel mesh, ultra-high pressure resistance, burst pressure >8700Psi (60MPa)
- Flare welded interface, safe and reliable
- SUS304 stainless steel, longer service life
- Flange hydraulic mounting, reliable leak-proof, strengthened sealing
- Shockproof spring, effectively protect both ends of the hose

Model selection

Model	Ref. gauge	Working pressure	Bursting pressure	Length	Connection
HS-B60-R744	R744-0202	20MPa	60MPa	10ft	1/4"SAE 1/4"SWT
HS-B70-R744				7.7ft	1/4"SAE 1/4"SWT



- Meet the ISO 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

4-2 Model	4-2 4 Refrigerant	Ref. Connection	Ref. Type	Ref. Remarks
HS-B60-R744	R22/R135a	1/4"SAE	快速接头 (Quick Coupler)	高压 (High Pressure)
HS-B70-R744		1/4"SAE	快速接头 (Quick Coupler)	低压 (Low Pressure)

MANIFOLD GAUGE SET HS-S36F-1234

R1234yf



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

Product Characteristics

Valve body

- Compact and battery design, convenient maintenance.

Liquid indicator

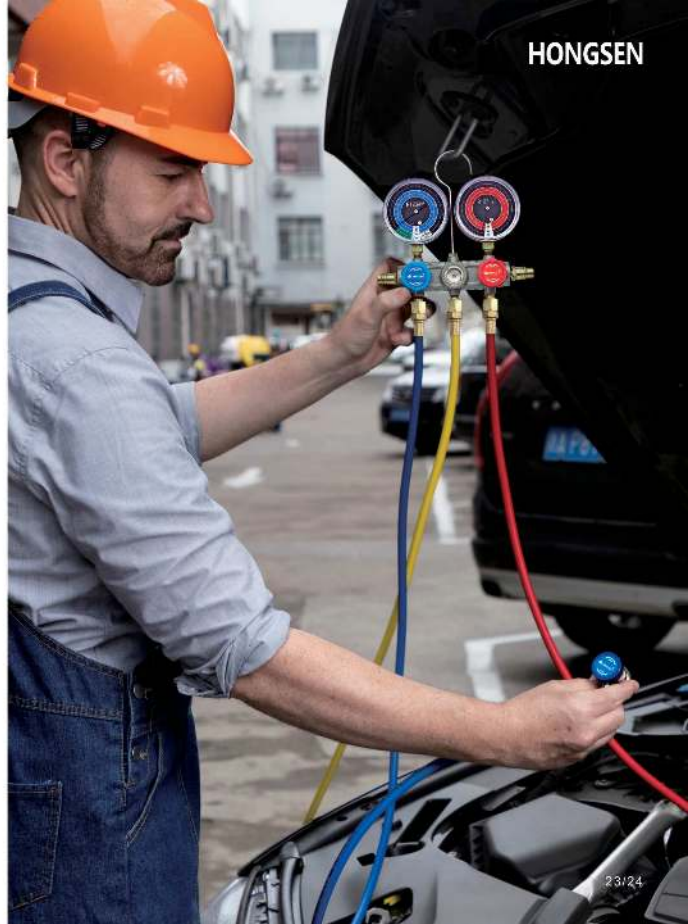
- Top view, small liquid indicator.

Knob

- Sealed and anti-static, no oil leakage.

Model selection

Model	Pressure gauge					Accessories			
	Refrigerant	Pressure	Flow rate	Temp. unit	Refrigerant charging time	Quick connector	Service valve	Other	Package
HS-S36F-1234	R1234yf	0.1~1.0 MPa	0.1~1.0 MPa	°C/°F	0.1~1.0 MPa	1/4" (6.35 mm)	1/4" (6.35 mm)	1/4" (6.35 mm)	1/4" (6.35 mm)



MANIFOLD GAUGE SET HS-236



Product Characteristics

Valve body

- Compact valve body design, convenient and easy to carry.

Liquid indicator

- Liquid crystal liquid indicator

Knob

- Gentle anti-condensation knob cover



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

Tool kit
Paper box
Economical and practical

Model selection



HS-336G

HS-406G

HS-236A

HS-236A OA

Model selection

Model	Pressure gauge				Substrate charging tool	Accessories		
	Substrate	Barometer	Pressure	Temperature		Quick coupler	Other	Package
HS-336G	HS-1124A 0.025/0.025	HS-1124A 0.025/0.025	HS-1124A 0.025/0.025	HS-1124A 0.025/0.025	HS-1124A 0.025/0.025	HS-1124A 0.025/0.025	HS-1124A 0.025/0.025	HS-1124A 0.025/0.025
HS-406G	HS-1124A 0.025/0.025	HS-1124A 0.025/0.025	HS-1124A 0.025/0.025	HS-1124A 0.025/0.025	HS-1124A 0.025/0.025	HS-1124A 0.025/0.025	HS-1124A 0.025/0.025	HS-1124A 0.025/0.025

Model selection

Model	Pressure gauge				Substrate charging tool	Accessories		
	Substrate	Barometer	Pressure	Temperature		Quick coupler	Other	Package
HS-336G	HS-1124A 0.025/0.025	HS-1124A 0.025/0.025	HS-1124A 0.025/0.025	HS-1124A 0.025/0.025	HS-1124A 0.025/0.025	HS-1124A 0.025/0.025	HS-1124A 0.025/0.025	HS-1124A 0.025/0.025
HS-406G	HS-1124A 0.025/0.025	HS-1124A 0.025/0.025	HS-1124A 0.025/0.025	HS-1124A 0.025/0.025	HS-1124A 0.025/0.025	HS-1124A 0.025/0.025	HS-1124A 0.025/0.025	HS-1124A 0.025/0.025
HS-236A	HS-1124A 0.025/0.025	HS-1124A 0.025/0.025	HS-1124A 0.025/0.025	HS-1124A 0.025/0.025	HS-1124A 0.025/0.025	HS-1124A 0.025/0.025	HS-1124A 0.025/0.025	HS-1124A 0.025/0.025
HS-236A OA	HS-1124A 0.025/0.025	HS-1124A 0.025/0.025	HS-1124A 0.025/0.025	HS-1124A 0.025/0.025	HS-1124A 0.025/0.025	HS-1124A 0.025/0.025	HS-1124A 0.025/0.025	HS-1124A 0.025/0.025

MANIFOLD GAUGE SET HS-536C



Product Characteristics

Valve body

- International design and structure, and stable performance

Knob

- American standard knurled and turn knob

Tool kit

Paper box

economical and practical



Model selection



HS-536A	HS-536C	HS-536C-R410A
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Model	Pressure gauge				Accessories		
	Ref. gauge	Direction	Pressure	Temperature	Ref. gauge diameter	Quickcoupler	Other
HS-536A	R134A/R22/R410A/R404C	200mm (7.87")	psi/bar	°C/°F	3/8" (9.5mm)	✓	✓
HS-536C	R22/R404C/R410C/R134A	200mm (7.87")	psi/bar	°C/°F	3/8" (9.5mm)	✓	✓
HS-536C-R410A	R22/R134A/R410A/R404C	200mm (7.87")	psi/bar	°C/°F	3/8" (9.5mm)	✓	✓

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



Product Characteristics

Single manifold gauge

- Single gauge body, economical and practical

Liquid indicator

- Indicates and points out defective pipelines

Valve body

- Integrated copper valve body, reliable performance

Knob

- Detachable knob, convenient and flexible

Tool kit

Paper box

economical and practical



Model selection



HS-473AL	HS-473AH	HS-466AL	HS-466AH
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Model selection								
Model	Pressure gauge				High-pressure charging pipe (inches)	Accessories		
	Integrating	Connector	Pressure unit	Temperature unit		Quick-connect pipe	Other	Package
HS-473AL-01	HS-473AL-01	HS-473AL-01	psi/bar	°C	3/8" RV-300-4000psi	/	RV-300 connector**	Paper box
HS-473AH-01	HS-473AH-01	HS-473AH-01	psi/bar	°C	1/2" RV-400-4000psi	/	RV-400 connector**	Paper box
HS-473AL-02	HS-473AL-02	HS-473AL-02	psi/bar	°C	3/8" RV-300-4000psi	/	RV-300 connector**	Paper box
HS-473AH-02	HS-473AH-02	HS-473AH-02	psi/bar	°C	1/2" RV-400-4000psi	/	RV-400 connector**	Paper box
HS-473AL-03	HS-473AL-03	HS-473AL-03	psi/bar	°C	3/8" RV-300-4000psi	/	RV-300 connector**	Paper box
HS-473AH-03	HS-473AH-03	HS-473AH-03	psi/bar	°C	1/2" RV-400-4000psi	/	RV-400 connector**	Paper box
HS-473AL-04	HS-473AL-04	HS-473AL-04	psi/bar	°C	3/8" RV-300-4000psi	/	RV-300 connector**	Paper box
HS-473AH-04	HS-473AH-04	HS-473AH-04	psi/bar	°C	1/2" RV-400-4000psi	/	RV-400 connector**	Paper box
HS-473AL-05	HS-473AL-05	HS-473AL-05	psi/bar	°C	3/8" RV-300-4000psi	/	RV-300 connector**	Paper box
HS-473AH-05	HS-473AH-05	HS-473AH-05	psi/bar	°C	1/2" RV-400-4000psi	/	RV-400 connector**	Paper box

MANIFOLD GAUGE SET HS-468AH / HS-468AL



Product Characteristics

Single manifold gauge

- Simple water design, economical and practical

Knob

- Good seal and comfortable to use

Tool kit

Paper box

economical and practical



Model selection



HS-467AL

HS-467AH

HS-468AH

HS-468AL

Model selection								
Model	Pressure gauge				Relief pressure discharge pipe	Accessories		
	Reference	Size	Material	Temp.		Color	Other	Package
HS-467AH	HS-422-0404A-12-24	20mm(3/4")	304	70	1	1	1	Paper box
HS-467AL	HS-422-0404A-12-24	20mm(3/4")	304	70	1	1	1	Paper box
HS-468AH	HS-422-0404A-12-24	20mm(3/4")	304	70	1	1	1	Paper box
HS-468AL	HS-422-0404A-12-24	20mm(3/4")	304	70	1	1	1	Paper box

Pressure Gauge



Product Characteristics

- For fusion gauges only
- psi/bar and Celsius scales are present
- Celsius and pressure, pressure and temperature units can be interchanged

Model selection



213PH



213PL



2114H



2114L



201PH



201PL



2004H



2004L

Model selection

Product Selection								
Model	Reference	Size	Pressure	Temperature	Connection			
213PH	HSC-418940C ISO 11-384	71mm (2.83")	psi/bar	100 °C	1/4" BSP			
213PL								
2114H								
2114L	HSC-41822 ISO 41894-4	71mm (2.83")						
201PH								
201PL								
2004H	HSC-418940C ISO 11-384	81mm (3.15")						
2004L								
2005PH								
2005PL	HSC-54124	81mm (3.15")						
2007L								

Oil-filled (vacuum) pressure Gauge



Model selection						
Model	Applicable media	Case	Dial	Pressure unit	Temperature	Connector
2424H	ISO 44-6/457C/ISO 4336	Aluminum	50mm	1/10MPa	-70	1/4" NPT
2424L	ISO 44-6/457C/ISO 4336		50mm	1/10MPa		
1224H	ISO 44-6		75mm	psi, kg/cm ²		
1224L	ISO 44-6		75mm	psi, kg/cm ²		
1514H	ISO 44-6/457C/ISO 4336	Stainless steel	125mm	MPa		
1514L	ISO 44-6/457C/ISO 4336		125mm	MPa		
1224H	ISO 44-6/457C/ISO 4336	Aluminum	50mm	MPa, psi		
1224L	ISO 44-6/457C/ISO 4336		50mm	MPa, psi		
554H	ISO 44-6/457C/ISO 4336	—	125mm	1/10MPa		
554L	ISO 44-6/457C/ISO 4336	—	125mm	1/10MPa		

Flex Hose With Valve Gauge For Nitrogen



Product Characteristics

- Indicate the pressure during the filling and under pressure
- Indicate the pressure during the filling or nitrogen protection welding
- Simple and easy way to control pressure output
- The steel cabinet can be used to protect the input pressure

Model selection					
Model	Applicable media	Connector	Case	Pressure unit	Pressure range
RS-BLS	ISO 44-6 ISO 44-6/457C/ISO 4336 ISO 4336 Nitrogen gas	1/4" NPT	50mm (3.15MPa)	MPa	0 bar ~ 25 bar

QUICK COUPLER SERIES

HS-MH-1234 / HS-ML-1234



Product Characteristics

Standard

- Series: HS-MH/ML

Reliability

- Selflocking structure, environmental protection and reliable

Precise operation

- Adjustable opening, precise fitting



Model selection



(R1234yf)



(S1234yf)



(R134a)



(R134a)

HS-MH-1234	HS-ML-1234	HS-MH-S	HS-ML-S
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Model selection

Model	Refrigerant	Type	Remark
HS-MH-1234	R1234yf	Manual type	High side
HS-ML-1234		Manual type	Low side

Model selection

Model	Refrigerant	Accessories	Type	Remark
HS-MH-S	R134a	Adapter (R134a-S1/4-S1/4)	Manual type	High side
HS-ML-S		Adapter (R134a-S1/4-S1/4)	Manual type	Low side
HS-MH-S1/4-S1/4		—	Direct type	High side
HS-ML-S1/4-S1/4		—	Manual type	Low side

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

Product Characteristics

Standard

- Meets ISO standard

Precise operation

- Adjustable opening, precise filling

Model selection



HS-ML-1/4x1.5	HS-MH-1/4x1.5	HS-ML-1/4	HS-MH-1/4
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Model selection				
Model	Reference	Accessories	Type	Remark
HS-ML-1/4x1.5	R3342	adapter 1/4x1.5x1/4x1/4	Universal type	High flow
HS-PL-1/4x2.0		adapter 1/4x1.5x1/4x1/4	Universal type	High flow
HS-ML-1/4		—	Universal type	High flow
HS-PL-1/4		—	Universal type	High flow

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

Product Characteristics

HS-MH-BMW

Standard

- Meets ISO 4413 standard

Precise operation

- Adjustable opening, precise filling

- Specially designed to fit

HS-12A/HS-12B

- Economical and practical

Model selection



HS-MH-BMW	HS-12A	HS-12B
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Model selection				
Model	Reference	Accessories	Type	Remark
HS-MH-BMW	R3342	adapter 1/4x1.5x1/4x1/4	Universal type	High flow
HS-12A		—	Lock on seat	High flow
HS-12B		—	Lock on seat	High flow

CHARGING VALVE SERIES



Product Characteristics

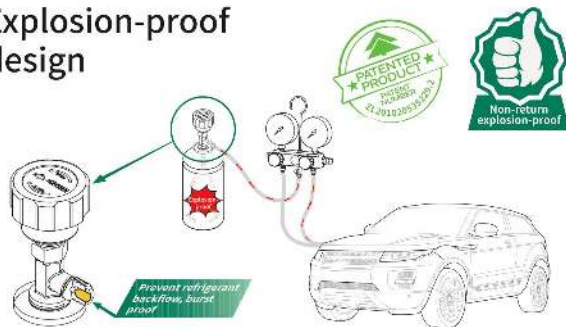
Knob

- Smooth and comfortable to turn

Non return design

- Prevent refrigerant backflow, burst proof

CAN TAP VALVE Explosion-proof design



Model selection



HS-233A



HS-333A



HS-340A

Model selection

Model	Ref. number	Connector A	Connector B	Type
HS-233A	R22	NE2XG125	3/4 SAE	pin type
HS-233A	R134a	NE4XG125	3/4 SAE	pin type
HS-333A	universal refrigerant	pin type	3/4 SAE	pin type

REFRIGERANT CHARGING HOSE SERIES



SAE J2196
SAE J2888 R1234yf

Product Characteristics

Standard

- Meet the SAE J2196 and SAE J2888 standard

Sealing

- Provided with 3 layers, 3 layers, each with a layer of two layers, 3 layers of 3 layers, 3 layers of 3 layers, uniform force, strong bonding

Reliability

- Excellent PTFE welding material, customer's warranty of integrity, long service life

Convenience

- Connector and length can be customised

Model selection



Charging hose

Charging hose With Ball Valve

Ball Valve

Model selection					
Model	Refrigerant	Working Pressure	Service Pressure	Length	Connector
PS-08	R22 R134a R404a R410a	8.0MPa	3.0MPa	12	R1/2" J1547 J1547 R1/2" J1547 J1547 R1/2" J1547 J1547
PS-08				32	
PS-12				72	
PS-08-R134a	R134a R404a R410a	8.0MPa	3.0MPa	12	R1/2" J1547 J1547 R1/2" J1547 J1547 R1/2" J1547 J1547
PS-08-R134a				32	
PS-08-R134a				72	
PS-12-R134a	R134a R404a R410a	8.0MPa	3.0MPa	12	R1/2" J1547 J1547 R1/2" J1547 J1547 R1/2" J1547 J1547
PS-12-R134a				32	
PS-12-R134a				72	
PS-12-R134a	R134a R404a R410a	8.0MPa	3.0MPa	12	R1/2" J1547 J1547 R1/2" J1547 J1547 R1/2" J1547 J1547
PS-12-R134a				32	
PS-12-R134a				72	
PS-12-R134a	R134a R404a R410a	8.0MPa	3.0MPa	12	R1/2" J1547 J1547 R1/2" J1547 J1547 R1/2" J1547 J1547
PS-12-R134a				32	
PS-12-R134a				72	

BALL SHUT OFF VALVE

Product Characteristics

- Improved operation accuracy, stable performance
- Friction sealing, safe and reliable
- Modified PTFE coating material, suitable for a variety of solvents

Model selection



Model selection					Model selection				
Model	Group	Ball/ports	Connection A	Connection B	Model	Group	Ball/ports	Connection A	Connection B
BS00-01	①		1/16 SAE M	1/8 NPT F	BS00-06	②		1/4 SAE M	1/4 SAE M F
BS00-03			1/4 SAE M	1/4 SAE F	BS00-03			3/12 SAE M	1/8 SAE M M
BS00-05	③	BS00-BUS-0123-0404 (102°C, 1000A)	3/16 SAE M	1/16 SAE F	BS00-02	④	BS00-BUS-0000-0000A (100°C, 1000A)	1/4 SAE M	1/4 SAE F
BS00-02			1/16 SAE M	1/16 SAE F	BS00-05			1/4 SAE M	3/16 SAE F
BS00-07	⑤		1/4 SAE M	1/8 SAE F F02	BS00-06	⑥		1/4 SAE M	3/8 SAE F
BS00-09			1/4 SAE M	3/16 SAE F M	BS00-09			1/2 SAE M	1/4 SAE F
BS00-04			1/16 SAE M	3/16 SAE F M F	BS00-17			1/1 SAE M	3/16 SAE F
① Example: One of these units as 1/4 SAE, 1/4 SAE 16-ported, 1/16 SAE 16-ported, etc. can be selected									

SCHRADER VALVE REMOVER

Product Characteristics

HS-1430 / HS-1424

- The detector can be fully converted
- Asymmetric and thus useful as a sensor under changing conditions of ambient conditions

HS-1431

- Both endocrine and exocrine
- Simple and complex

Model selection



HS-1430	HS-1424	HS-1431
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Model selection		
Mode	Connector	Working Condition
WT-103	1x15W B-TCT-500	0°C
HS-0424	1x14W & 1x15W & 1x15W	0°C
WT-103	General	70% & 60%

OIL INJECTOR

Product Characteristics

- Spec of interest such as LGADT, LGADT low-banded, GIGADT low-banded, etc., can be provided
- One-way fitting effectively is not required
- Fitting the baseline and nonparametric regression will be given

Model selection



HS-1416	HS-1417
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Model selection		
Model	Connection	Capacity
HS-1016	1.04540"	150m
HS-1017	1.04540"	140m

FLUORESCENT LIQUID FILLER

Product Characteristics

- Special model such as 1/24C70, 1/24C80 with handle, etc. can be selected
- Filling fluorescent refrigerant and refrigerant for system



Model selection			
Model	Connector A	Connector B	Capacity
1/24C70	1/24C70	1/24C80	20W

A/C FLUSH CLEANER

Product Characteristics

- Fast & easy connection, easy to use
- Free from the condenser and evaporator dirt
- Automatic discharge of excess gas, safe and reliable



Model selection			
Model	Connector	Working Pressure	Capacity
1/24C80	1/24C80	200psi	3000ml

CUTTER

Product Characteristics

- Adjustable opening, cuts faster
- Durable and adjustable
- Long edge life span

Model selection



Model selection	
Model	Size
H-S-T28	Φ3-28
H-S-T42	Φ4-42

CYLINDER

Product Characteristics

Cylinder valve

- Integrated brass valve assembly, safe and reliable
- Softened TPE gasket, superior performance
- Soft, pressure relief, adjustable flow control, safety
- Two connectors: high pressure (liquid) and low pressure (gas)
- The length of the pipe can be customized

Cylinder 12L / 30L

- 12L size
- Single pressure inlet, adjustable from 2.0 to 4.5 MPa
- Two connectors: high pressure (liquid) and low pressure (gas)

Model selection



Cylinder valve		Cylinder 12L / 30L	
Model selection			
Model	Connector A	Connector B	High pressure
Cylinder valve	PS24-3	CH24-3	PS24-3, CH24-3, PS24-3, CH24-3
Model	Size		
Cylinder 12L	12L 30L		
Cylinder 30L	30L 30L		

BRASS FITTINGS

Nut

- Derived from high quality copper alloy
- Complete connection



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

Nut

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

Union connector

- High quality copper alloy
- Complete connection



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

Union connector

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

Adapter

- High quality copper alloy
- Complete connection, excellent pressure resistance



Adapter	Connector A	Connector B
R2R Adapter	1/4 (3/16) Female	5/16 (3/4) Male
R10R Adapter	3/16 (1/4) Female	1/4 (5/8) Male

Adapter

- High quality copper alloy



Adapter	Connector A	Connector B
Adapter	1/2 (1/4) Female	1/4 (5/8) Male

BRASS FITTINGS

Copper sealing ring

- High quality copper alloy
- Complete connection



Copper sealing ring

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

Copper cap

- High quality copper alloy
- Complete connection



Copper cap

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

Capillary tube with nut

- Derived from copper alloy
- Welding process in form and size
- Consistent and high pressure resistance



Capillary tube with nut	Length	Connector
HC-123	2M	1/4 SAE
HC-124	1.5M	1/4 SAE
HC-122	2M	1/4 SAE

[illegible]This image shows a full page of primary-ruled paper. It features ten sets of horizontal lines, each consisting of a solid top line, a dashed middle line, and a solid bottom line. The lines are evenly spaced and extend across the entire width of the page, providing a guide for letter height and placement. There is no handwriting or other markings on the paper.