

HONGSEN

HONGSEN MACHINERY

Escort For Safe Refrigeration

HVAC&R SERVICE TOOLS

HVAC&R SERVICE TOOLS



ZHUJIANG HONGSEN MACHINERY CO.,LTD

Address: Diankou refrigeration industrial park, Zhuji city, Zhejiang province

Tel: 0573-87567853/8576-87688165

Fax: 0573-8756885 Post Code: 311500

E-mail: hongsen66@hse.com.hongsen@zjhsx.com

CONTENTS

11-38

MultiPort Gauge Series

39-42

Quick Coupler Series

43-52

Changing Valve Series

53-56

Other Parts

57-58

Other Fittings

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 specially 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

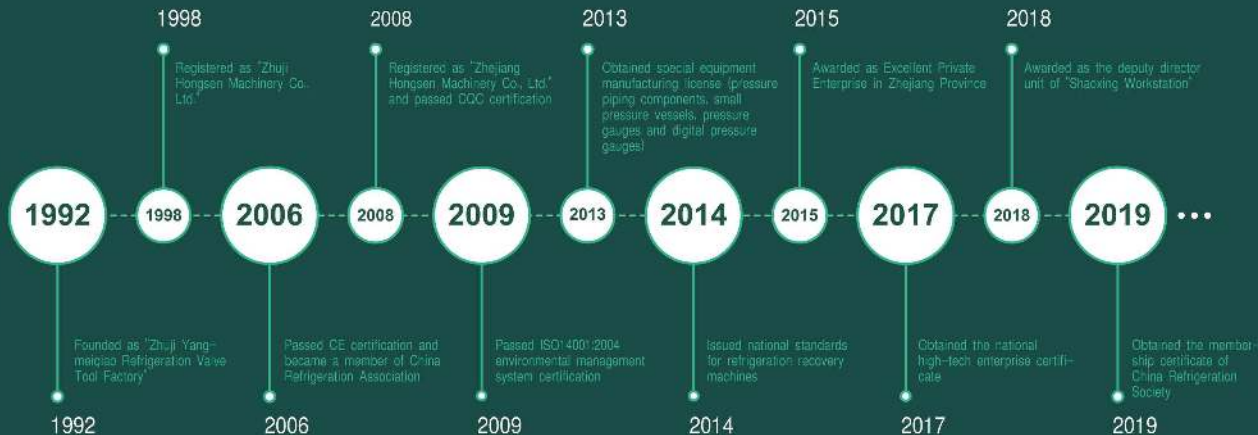
Automatic leak detection alarm,
high detection accuracy

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 OF MANUFACTURING & RESEARCH



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



MANIFOLD GAUGE SET HS-MVS60/HS-M480

High precision
refrigerant
gauges

Anti-collision design

Bleed-off proof
liquid indicator

Foldable hook



Ball valve structure



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

Operation demonstration
RF on-off control
Easy and convenient



Product Characteristics

Digital gauge

- High precision refrigerant gauge
- Simultaneous operation

Protective housing

- Anti-collision design

Knob

- Ball valve design, easy operation and more precise handling
- Gentle and comfortable knob

Hook

- Foldable hook
- Easy storage and hiding

Liquid indicator

- Explosive-proof liquid indicator

Model selection



HS-MVS60-10LA

HS-M480AL

HS-M480AH

Model selection

Model	Pressure gauge				Refrigerant charging hose	Accessories			Package
	Interface	Connector	Pressure	Temperature		Quick coupling	Screwdriver	Other	
HS-MVS60-10LA-00	R22/R134a/R404A/R410A	1/2" (12.4221)	psi/bar	°C	60" 3/8"-42210a	2	1.01	1402A adapter *3	Plastic case
HS-MVS60-10LA-05	R22/R134a/R404A/R410A	1/2" (12.4221)	psi/bar	°C	72" 3/8"-42210a	2	1.01	1402A adapter *3	Plastic case
HS-MVS60-134-00A	R22/R134a/R404A/R410A	1/2" (12.4221)	psi/bar	°C	60" 3/8"-42210a	2	1.01	1402A adapter *3 1402A adapter *3	Plastic case
HS-MVS60-134-70A	R22/R134a/R404A/R410A	1/2" (12.4221)	psi/bar	°C	62" 3/8"-42210a	2	1.01	1402A adapter *3 1402A adapter *3	Plastic case

* Charging hose: 1 pack (2 pack), 60" or 72" or 84" or 100" per
connection, 1/2" (12.4221) connection

* Thread of all cap and valve: 1/2" (12.4221)
* Plastic case: 1 pack

Model selection

Model	Pressure gauge				Refrigerant charging hose	Accessories			Package
	Interface	Connector	Pressure	Temperature		Quick coupling	Screwdriver	Other	
HS-M480AL-00	R22/R134a/R404A/R410A	1/2" (12.4221)	psi/bar	°C	30" 3/8"-42210a	2	1	1402A adapter *3	Plastic case
HS-M480AL-05	R22/R134a/R404A/R410A	1/2" (12.4221)	psi/bar	°C	60" 3/8"-42210a	2	1	1402A adapter *3	Plastic case
HS-M480AL-02	R22/R134a/R404A/R410A	1/2" (12.4221)	psi/bar	°C	12" 3/8"-40000a	2	1	1402A adapter *3	Plastic case
HS-M480AL-10	R22/R134a/R404A/R410A	1/2" (12.4221)	psi/bar	°C	30" 3/8"-42210a	2	1	1402A adapter *3	Plastic case
HS-M480AL-02	R22/R134a/R404A/R410A	1/2" (12.4221)	psi/bar	°C	60" 3/8"-42210a	2	1	1402A adapter *3	Plastic case
HS-M480AL-12	R22/R134a/R404A/R410A	1/2" (12.4221)	psi/bar	°C	62" 3/8"-42210a	2	1	1402A adapter *3	Plastic case

* Charging hose: 1 pack (2 pack), 30" or 60" or 12" or 100" per connection

* Thread of all cap and valve: 1/2" (12.4221)

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 (14.7 PSI 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 charging port	Accessories			
	Ref. gas	Max. pressure	Accuracy	Temp. limit		Quick coupler	Screw driver	Other	Package
HS-B60-R744-A	R744/CO ₂	800WPS/125T	±0.025	2	60°/20°/90°	2	2	2	Aluminum case
HS-B60-R744-A-QC	R744/CO ₂	800WPS/125T	±0.025	2	60°/20°/90°	2	2	2	Aluminum case

Model selection



- Double-layer steel, high, 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
- Protective spring, effectively protect both ends of the hose

Model selection

Model	Ref. gas	Working pressure	Bursting pressure	Length	Connection
HS-B60-R744	R744/CO ₂	125bar	600bar	10ft	1/4"SAE, 1/4"JIS
HS-B70-R744				7ft	1/4"SAE, 1/4"JIS



- 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

型号 Model	制冷剂 Refrigerant	接口 Connection	接口类型 Type	接口备注 Remarks
HS-B60-R744	R244/CO ₂	1/4"SAE	快速接头 Quick joint	高压 High pressure
HS-B70-R744		1/4"SAE	快速接头 Quick joint	中压 Mid 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 maintenance.

Model selection

Model	Pressure gauge				Refrigerant charging time	Accessories			
	Refrigerant	Pressure	Flow rate	Temp. unit		Quick connector	Service valve	Filter	Package
HS-110F-1234	R1234yf	0.1~1.0 MPa	0.1~1.0 MPa	°C/°F	10~15~30~60~90~120~150~180~210~240~270~300~330~360~390~420~450~480~510~540~570~600~630~660~690~720~750~780~810~840~870~900~930~960~990~1020~1050~1080~1110~1140~1170~1200~1230~1260~1290~1320~1350~1380~1410~1440~1470~1500~1530~1560~1590~1620~1650~1680~1710~1740~1770~1800~1830~1860~1890~1920~1950~1980~2010~2040~2070~2100~2130~2160~2190~2220~2250~2280~2310~2340~2370~2400~2430~2460~2490~2520~2550~2580~2610~2640~2670~2700~2730~2760~2790~2820~2850~2880~2910~2940~2970~3000~3030~3060~3090~3120~3150~3180~3210~3240~3270~3300~3330~3360~3390~3420~3450~3480~3510~3540~3570~3600~3630~3660~3690~3720~3750~3780~3810~3840~3870~3900~3930~3960~3990~4020~4050~4080~4110~4140~4170~4200~4230~4260~4290~4320~4350~4380~4410~4440~4470~4500~4530~4560~4590~4620~4650~4680~4710~4740~4770~4800~4830~4860~4890~4920~4950~4980~5010~5040~5070~5100~5130~5160~5190~5220~5250~5280~5310~5340~5370~5400~5430~5460~5490~5520~5550~5580~5610~5640~5670~5700~5730~5760~5790~5820~5850~5880~5910~5940~5970~6000~6030~6060~6090~6120~6150~6180~6210~6240~6270~6300~6330~6360~6390~6420~6450~6480~6510~6540~6570~6600~6630~6660~6690~6720~6750~6780~6810~6840~6870~6900~6930~6960~6990~7020~7050~7080~7110~7140~7170~7200~7230~7260~7290~7320~7350~7380~7410~7440~7470~7500~7530~7560~7590~7620~7650~7680~7710~7740~7770~7800~7830~7860~7890~7920~7950~7980~8010~8040~8070~8100~8130~8160~8190~8220~8250~8280~8310~8340~8370~8400~8430~8460~8490~8520~8550~8580~8610~8640~8670~8700~8730~8760~8790~8820~8850~8880~8910~8940~8970~9000~9030~9060~9090~9120~9150~9180~9210~9240~9270~9300~9330~9360~9390~9420~9450~9480~9510~9540~9570~9600~9630~9660~9690~9720~9750~9780~9810~9840~9870~9900~9930~9960~9990~10020~10050~10080~10110~10140~10170~10200~10230~10260~10290~10320~10350~10380~10410~10440~10470~10500~10530~10560~10590~10620~10650~10680~10710~10740~10770~10800~10830~10860~10890~10920~10950~10980~11010~11040~11070~11100~11130~11160~11190~11220~11250~11280~11310~11340~11370~11400~11430~11460~11490~11520~11550~11580~11610~11640~11670~11700~11730~11760~11790~11820~11850~11880~11910~11940~11970~12000~12030~12060~12090~12120~12150~12180~12210~12240~12270~12300~12330~12360~12390~12420~12450~12480~12510~12540~12570~12600~12630~12660~12690~12720~12750~12780~12810~12840~12870~12900~12930~12960~12990~13020~13050~13080~13110~13140~13170~13200~13230~13260~13290~13320~13350~13380~13410~13440~13470~13500~13530~13560~13590~13620~13650~13680~13710~13740~13770~13800~13830~13860~13890~13920~13950~13980~14010~14040~14070~14100~14130~14160~14190~14220~14250~14280~14310~14340~14370~14400~14430~14460~14490~14520~14550~14580~14610~14640~14670~14700~14730~14760~14790~14820~14850~14880~14910~14940~14970~15000~15030~15060~15090~15120~15150~15180~15210~15240~15270~15300~15330~15360~15390~15420~15450~15480~15510~15540~15570~15600~15630~15660~15690~15720~15750~15780~15810~15840~15870~15900~15930~15960~15990~16020~16050~16080~16110~16140~16170~16200~16230~16260~16290~16320~16350~16380~16410~16440~16470~16500~16530~16560~16590~16620~16650~16680~16710~16740~16770~16800~16830~16860~16890~16920~16950~16980~17010~17040~17070~17100~17130~17160~17190~17220~17250~17280~17310~17340~17370~17400~17430~17460~17490~17520~17550~17580~17610~17640~17670~17700~17730~17760~17790~17820~17850~17880~17910~17940~17970~18000~18030~18060~18090~18120~18150~18180~18210~18240~18270~18300~18330~18360~18390~18420~18450~18480~18510~18540~18570~18600~18630~18660~18690~18720~18750~18780~18810~18840~18870~18900~18930~18960~18990~19020~19050~19080~19110~19140~19170~19200~19230~19260~19290~19320~19350~19380~19410~19440~19470~19500~19530~19560~19590~19620~19650~19680~19710~19740~19770~19800~19830~19860~19890~19920~19950~19980~20010~20040~20070~20100~20130~20160~20190~20220~20250~20280~20310~20340~20370~20400~20430~20460~20490~20520~20550~20580~20610~20640~20670~20700~20730~20760~20790~20820~20850~20880~20910~20940~20970~21000~21030~21060~21090~21120~21150~21180~21210~21240~21270~21300~21330~21360~21390~21420~21450~21480~21510~21540~21570~21600~21630~21660~21690~21720~21750~21780~21810~21840~21870~21900~21930~21960~21990~22020~22050~22080~22110~22140~22170~22200~22230~22260~22290~22320~22350~22380~22410~22440~22470~22500~22530~22560~22590~22620~22650~22680~22710~22740~22770~22800~22830~22860~22890~22920~22950~22980~23010~23040~23070~23100~23130~23160~23190~23220~23250~23280~23310~23340~23370~23400~23430~23460~23490~23520~23550~23580~23610~23640~23670~23700~23730~23760~23790~23820~23850~23880~23910~23940~23970~24000~24030~24060~24090~24120~24150~24180~24210~24240~24270~24300~24330~24360~24390~24420~24450~24480~24510~24540~24570~24600~24630~24660~24690~24720~24750~24780~24810~24840~24870~24900~24930~24960~24990~25020~25050~25080~25110~25140~25170~25200~25230~25260~25290~25320~25350~25380~25410~25440~25470~25500~25530~25560~25590~25620~25650~25680~25710~25740~25770~25800~25830~25860~25890~25920~25950~25980~26010~26040~26070~26100~26130~26160~26190~26220~26250~26280~26310~26340~26370~26400~26430~26460~26490~26520~26550~26580~26610~26640~26670~26700~26730~26760~26790~26820~26850~26880~26910~26940~26970~27000~27030~27060~27090~27120~27150~27180~27210~27240~27270~27300~27330~27360~27390~27420~27450~27480~27510~27540~27570~27600~27630~27660~27690~27720~27750~27780~27810~27840~27870~27900~27930~27960~27990~28020~28050~28080~28110~28140~28170~28200~28230~28260~28290~28320~28350~28380~28410~28440~28470~28500~28530~28560~28590~28620~28650~28680~28710~28740~28770~28800~28830~28860~28890~28920~28950~28980~29010~29040~29070~29100~29130~29160~29190~29220~29250~29280~29310~29340~29370~29400~29430~29460~29490~29520~29550~29580~29610~29640~29670~29700~29730~29760~29790~29820~29850~29880~29910~29940~29970~30000~30030~30060~30090~30120~30150~30180~30210~30240~30270~30300~30330~30360~30390~30420~30450~30480~30510~30540~30570~30600~30630~30660~30690~30720~30750~30780~30810~30840~30870~30900~30930~30960~30990~31020~31050~31080~31110~31140~31170~31200~31230~31260~31290~31320~31350~31380~31410~31440~31470~31500~31530~31560~31590~31620~31650~31680~31710~31740~31770~31800~31830~31860~31890~31920~31950~31980~32010~32040~32070~32100~32130~32160~32190~32220~32250~32280~32310~32340~32370~32400~32430~32460~32490~32520~32550~32580~32610~32640~32670~32700~32730~32760~32790~32820~32850~32880~32910~32940~32970~33000~33030~33060~33090~33120~33150~33180~33210~33240~33270~33300~33330~33360~33390~33420~33450~33480~33510~33540~33570~33600~33630~33660~33690~33720~33750~33780~33810~33840~33870~33900~33930~33960~33990~34020~34050~34080~34110~34140~34170~34200~34230~34260~34290~34320~34350~34380~34410~34440~34470~34500~34530~34560~34590~34620~34650~34680~34710~34740~34770~34800~34830~34860~34890~34920~34950~34980~35010~35040~35070~35100~35130~35160~35190~35220~35250~35280~35310~35340~35370~35400~35430~35460~35490~35520~35550~35580~35610~35640~35670~35700~35730~35760~35790~35820~35850~35880~35910~35940~35970~36000~36030~36060~36090~36120~36150~36180~36210~36240~36270~36300~36330~36360~36390~36420~36450~36480~36510~36540~36570~36600~36630~36660~36690~36720~36750~36780~36810~36840~36870~36900~36930~36960~36990~37020~37050~37080~37110~37140~37170~37200~37230~37260~37290~37320~37350~37380~37410~37440~37470~37500~37530~37560~37590~37620~37650~37680~37710~37740~37770~37800~37830~37860~37890~37920~37950~37980~38010~38040~38070~38100~38130~38160~38190~38220~38250~38280~38310~38340~38370~38400~38430~38460~38490~38520~38550~38580~38610~38640~38670~38700~38730~38760~38790~38820~38850~38880~38910~38940~38970~39000~39030~39060~39090~39120~39150~39180~39210~39240~39270~39300~39330~39360~39390~39420~39450~39480~39510~39540~39570~39600~39630~39660~39690~39720~39750~39780~39810~39840~39870~39900~39930~39960~39990~40020~40050~40080~40110~40140~40170~40200~40230~40260~40290~40320~40350~40380~40410~40440~40470~40500~40530~40560~40590~40620~40650~40680~40710~40740~40770~40800~40830~40860~40890~40920~40950~40980~41010~41040~41070~41100~41130~41160~41190~41220~41250~41280~41310~41340~41370~41400~41430~41460~41490~41520~41550~41580~41610~41640~41670~41700~41730~41760~41790~41820~41850~41880~41910~41940~41970~42000~42030~42060~42090~42120~42150~42180~42210~42240~42270~42300~42330~42360~42390~42420~42450~42480~42510~42540~42570~42600~42630~42660~42690~42720~42750~42780~42810~42840~42870~42900~42930~42960~42990~43020~43050~43080~43110~43140~43170~43200~43230~43260~43290~43320~43350~43380~43410~43440~43470~43500~43530~43560~43590~43620~43650~43680~43710~43740~43770~43800~43830~43860~43890~43920~43950~43980~44010~44040~44070~44100~44130~44160~44190~44220~44250~44280~44310~44340~44370~44400~44430~44460~44490~44520~44550~44580~44610~44640~44670~44700~44730~44760~44790~44820~44850~44880~44910~44940~44970~45000~45030~45060~45090~45120~45150~45180~45210~45240~45270~45300~45330~45360~45390~45420~45450~45480~45510~45540~45570~45600~45630~45660~45690~45720~45750~45780~45810~45840~45870~45900~45930~45960~45990~46020~46050~46080~46110~46140~46170~46200~46230~46260~46290~46320~46350~46380~46410~46440~46470~46500~46530~46560~46590~46620~46650~46680~46710~46740~46770~46800~46830~46860~46890~46920~46950~46980~47010~47040~47070~47100~47130~47160~47190~47220~47250~47280~47310~47340~47370~47400~47430~47460~47490~47520~47550~47580~47610~47640~47670~47700~47730~47760~47790~47820~47850~47880~47910~47940~47970~48000~48030~48060~48090~48120~48150~48180~48210~48240~48270~48300~48330~48360~48390~48420~48450~48480~48510~48540~48570~48600~48630~48660~48690~48720~48750~48780~48810~48840~48870~48900~48930~48960~48990~49020~49050~49080~49110~49140~49170~49200~49230~49260~49290~49320~49350~49380~49410~49440~49470~49500~49530~49560~49590~49620~49650~49680~49710~49740~49770~49800~49830~49860~49890~49920~49950~49980~50010~50040~50070~50100~50130~50160~50190~50220~50250~50280~50310~50340~50370~50400~50430~50460~50490~50520~50550~50580~50610~50640~50670~50700~50730~50760~50790~50820~50850~50880~50910~50940~50970~51000~51030~51060~51090~51120~51150~51180~51210~51240~51270~51300~51330~51360~51390~51420~51450~51480~51510~51540~51570~51600~51630~51660~51690~51720~51750~51780~51810~51840~51870~51900~51930~51960~51990~52020~52050~52080~52110~52140~52170~52200~52230~52260~52290~52320~52350~52380~52410~52440~52470~52500~52530~52560~52590~52620~52650~52680~52710~52740~52770~52800~52830~52860~52890~52920~52950~52980~53010~53040~53070~53100~53130~53160~53190~53220~53250~53280~53310~53340~53370~53400~53430~53460~53490~53520~53550~53580~53610~53640~53670~53700~53730~53760~53790~53820~53850~53880~53910~53940~53970~54000~54030~54060~54090~54120~54150~54180~54210~54240~54270~54300~54330~54360~54390~54420~54450~54480~54510~54540~54570~54600~54630~54660~54690~54720~54750~54780~54810~54840~54870~54900~54930~54960~54990~55020~55050~55080~55110~55140~55170~55200~55230~55260~55290~55320~55350~55380~55410~55440~55470~55500~55530~55560~55590~55620~55650~55680~55710~55740~55770~55800~55830~55860~55890~55920~55950~55980~56010~56040~56070~56100~56130~56160~56190~56220~56250~56280~56310~56340~56370~56400~56430~56460~56490~56520~56550~56580~56610~56640~56670~56700~56730~56760~56790~56820~56850~56880~56910~56940~56970~57000~57030~57060~57090~57120~57150~57180~57210~57240~57270~57300~57330~57360~57390~57420~57450~57480~57510~57540~57570~57600~57630~57660~57690~57720~57750~57780~57810~57840~57870~57900~57930~57960~57990~58020~58050~58080~58110~58140~58170~58200~58230~58260~58290~58320~58350~58380~58410~58440~58470~58500~58530~58560~58590~58620~58650~58680~58710~58740~58770~58800~58830~58860~58890~58920~58950~58980~59010~59040~59070~59100~59130~59160~59190~59220~59250~59280~59310~59340~59370~59400~59430~59460~59490~59520~59550~59580~59610~59640~59670~59700~59730~59760~59790~59820~59850~59880~59910~59940~59970~60000~60030~60060~60090~60120~60150~60180~60210~60240~60270~60300~60330~60360~60390~60420~60450~60480~60510~60540~60570~60600~60630~60660~60690~60720~60750~60780~60810~60840~60870~60900~60930~60960~60990~61020~61050~61080~61110~61140~61170~61200~61230~61260~61290~61320~61350~61380~61410~61440~61470~61500~61530~61560~61590~61620~61650~61680~61710~61740~61770~61800~61830~61860~61890~61920~61950~61980~62010~62040~62070~62100~62130~62160~62190~62220~62250~62280~62310~62340~62370~62400~62430~62460~62490~62520~62550~62580~62610~62640~62670~62700~62730~62760~62790~62820~62850~				

MANIFOLD GAUGE SET HS-S60



Product Characteristics

Protective housing
• Anti-radiation design

Liquid Indicator
• Expansion of liquid indicator

Knobs
• Gentle and comfortable aluminum knobs



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



Tool kit
Paper box
Economic and practical

Model selection



HS-S60-101



HS-S60-102

Model selection									
Model	Pressure range				High/low pressure range	Accessories			
	Reference	Discharge	Pressure	Temperature		Quick connector (mm)	Other	Packaging	
HS-S60-090-01	132.52 MPa (19.84 MPa) 145°C	3-10 ⁻¹ (20mm)	ps, bar	°C	60" 400-1011ps	2	1	2	Paper box
HS-S60-100-01	132.52 MPa (19.84 MPa) 145°C	3-10 ⁻¹ (20mm)	ps, bar	°C	60" 400-1011ps	2	2	2	Paper box
HS-S60-100-02	132.52 MPa (19.84 MPa) 145°C	3-10 ⁻¹ (20mm)	ps, bar	°C	60" 400-1011ps	2	2	2	Paper box
HS-S60-100-03	132.52 MPa (19.84 MPa) 145°C	3-10 ⁻¹ (20mm)	ps, bar	°C	60" 400-1011ps	2	1	2	Paper box
HS-S60-100-04	132.52 MPa (19.84 MPa) 145°C	3-10 ⁻¹ (20mm)	ps, bar	°C	60" 400-1011ps	2	2	2	Paper box
HS-S60-100-05	132.52 MPa (19.84 MPa) 145°C	3-10 ⁻¹ (20mm)	ps, bar	°C	60" 400-1011ps	2	2	2	Paper box
HS-S60-100-06	132.52 MPa (19.84 MPa) 145°C	3-10 ⁻¹ (20mm)	ps, bar	°C	60" 400-1011ps	2	2	2	Paper box
HS-S60-100-07	132.52 MPa (19.84 MPa) 145°C	3-10 ⁻¹ (20mm)	ps, bar	°C	60" 400-1011ps	2	2	2	Paper box
HS-S60-100-08	132.52 MPa (19.84 MPa) 145°C	3-10 ⁻¹ (20mm)	ps, bar	°C	60" 400-1011ps	2	2	2	Paper box
HS-S60-100-09	132.52 MPa (19.84 MPa) 145°C	3-10 ⁻¹ (20mm)	ps, bar	°C	60" 400-1011ps	2	2	2	Paper box
HS-S60-100-10	132.52 MPa (19.84 MPa) 145°C	3-10 ⁻¹ (20mm)	ps, bar	°C	60" 400-1011ps	2	2	2	Paper box
HS-S60-100-11	132.52 MPa (19.84 MPa) 145°C	3-10 ⁻¹ (20mm)	ps, bar	°C	60" 400-1011ps	2	2	2	Paper box
HS-S60-100-12	132.52 MPa (19.84 MPa) 145°C	3-10 ⁻¹ (20mm)	ps, bar	°C	60" 400-1011ps	2	2	2	Paper box
HS-S60-100-13	132.52 MPa (19.84 MPa) 145°C	3-10 ⁻¹ (20mm)	ps, bar	°C	60" 400-1011ps	2	2	2	Paper box
HS-S60-100-14	132.52 MPa (19.84 MPa) 145°C	3-10 ⁻¹ (20mm)	ps, bar	°C	60" 400-1011ps	2	2	2	Paper box
HS-S60-100-15	132.52 MPa (19.84 MPa) 145°C	3-10 ⁻¹ (20mm)	ps, bar	°C	60" 400-1011ps	2	2	2	Paper box
HS-S60-100-16	132.52 MPa (19.84 MPa) 145°C	3-10 ⁻¹ (20mm)	ps, bar	°C	60" 400-1011ps	2	2	2	Paper box
HS-S60-100-17	132.52 MPa (19.84 MPa) 145°C	3-10 ⁻¹ (20mm)	ps, bar	°C	60" 400-1011ps	2	2	2	Paper box
HS-S60-100-18	132.52 MPa (19.84 MPa) 145°C	3-10 ⁻¹ (20mm)	ps, bar	°C	60" 400-1011ps	2	2	2	Paper box
HS-S60-100-19	132.52 MPa (19.84 MPa) 145°C	3-10 ⁻¹ (20mm)	ps, bar	°C	60" 400-1011ps	2	2	2	Paper box
HS-S60-100-20	132.52 MPa (19.84 MPa) 145°C	3-10 ⁻¹ (20mm)	ps, bar	°C	60" 400-1011ps	2	2	2	Paper box

MANIFOLD GAUGE SET HS-236



Product Characteristics

Valve body

- Durable valve body design, convenient and new to install.

Liquid indicator

- Liquid crystal liquid indicator

Knob

- Gentle anti-collision and cushioning.



Model selection



HS-236G

HS-404G

HS-236A

HS-236A OA

Model selection

Model	Pressure gauge				Substrate charging tool	Accessories		
	Substrate	Barometer	Pressure	Temperature		Quick coupler	Other	Package
HS-236G	HS-236G-001 (0-1000)	HS-236G-002 (0-1000)	HS-236G-003 (0-1000)	HS-236G-004 (0-1000)	HS-236G-005 (0-1000)	HS-236G-006 (0-1000)	HS-236G-007 (0-1000)	HS-236G-008 (0-1000)
HS-404G	HS-404G-001 (0-1000)	HS-404G-002 (0-1000)	HS-404G-003 (0-1000)	HS-404G-004 (0-1000)	HS-404G-005 (0-1000)	HS-404G-006 (0-1000)	HS-404G-007 (0-1000)	HS-404G-008 (0-1000)

Model selection

Model	Pressure gauge				Substrate charging tool	Accessories		
	Substrate	Barometer	Pressure	Temperature		Quick coupler	Other	Package
HS-236A-01	HS-236A-001 (0-1000)	HS-236A-002 (0-1000)	HS-236A-003 (0-1000)	HS-236A-004 (0-1000)	HS-236A-005 (0-1000)	HS-236A-006 (0-1000)	HS-236A-007 (0-1000)	HS-236A-008 (0-1000)
HS-236A-02	HS-236A-001 (0-1000)	HS-236A-002 (0-1000)	HS-236A-003 (0-1000)	HS-236A-004 (0-1000)	HS-236A-005 (0-1000)	HS-236A-006 (0-1000)	HS-236A-007 (0-1000)	HS-236A-008 (0-1000)
HS-236A-03	HS-236A-001 (0-1000)	HS-236A-002 (0-1000)	HS-236A-003 (0-1000)	HS-236A-004 (0-1000)	HS-236A-005 (0-1000)	HS-236A-006 (0-1000)	HS-236A-007 (0-1000)	HS-236A-008 (0-1000)
HS-236A-04	HS-236A-001 (0-1000)	HS-236A-002 (0-1000)	HS-236A-003 (0-1000)	HS-236A-004 (0-1000)	HS-236A-005 (0-1000)	HS-236A-006 (0-1000)	HS-236A-007 (0-1000)	HS-236A-008 (0-1000)
HS-236A-05	HS-236A-001 (0-1000)	HS-236A-002 (0-1000)	HS-236A-003 (0-1000)	HS-236A-004 (0-1000)	HS-236A-005 (0-1000)	HS-236A-006 (0-1000)	HS-236A-007 (0-1000)	HS-236A-008 (0-1000)
HS-236A-06	HS-236A-001 (0-1000)	HS-236A-002 (0-1000)	HS-236A-003 (0-1000)	HS-236A-004 (0-1000)	HS-236A-005 (0-1000)	HS-236A-006 (0-1000)	HS-236A-007 (0-1000)	HS-236A-008 (0-1000)

MANIFOLD GAUGE SET HS-536C



Product Characteristics

Valve body

- International design and structure, reliable performance

Knob

- American standard, comfortable and firm to hold

Tool kit

Paper box

economical and practical



Model selection



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

Model selection								
Model	Pressure gauge				Ref. gauge charging hose	Accessories		
	Ref. gauge	Direction	Pressure	Temperature		Quickcoupler	Other	Package
HS-536A	R134A/R22/R410A/R404C	200mm(7.87")	psi/bar	°C	3/8" (9.5)-100psi	/	/	Paper box
HS-536C	R22/R404C/R410C/R134A	200mm(7.87")	psi/bar	°C	3/8" (9.5)-100psi	/	/	Paper box
HS-536C-R410A	R22/R134A/R410A/R404C	200mm(7.87")	psi/bar	°C	3/8" (9.5)-100psi	/	/	Paper box

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 refrigerant

Valve body

- Integrated copper valve body with reliable performance

Knob

- Detachable and lockable with knob

Tool kit

Paper box

economical and practical



Model selection

HS-473AL	HS-473AH	HS-469AL	HS-469AH

Model selection								
Model	Pressure gauge				High-pressure charging pipe (mm)	Accessories		
	Integrating	Connector	Pressure	Temperature		Quick coupling	Other	Package
HS-473AL-01	HS-473AL-01	HS-473AL-01	HS-473AL-01	HS-473AL-01	HS-473AL-01	HS-473AL-01	HS-473AL-01	HS-473AL-01
HS-473AH-01	HS-473AH-01	HS-473AH-01	HS-473AH-01	HS-473AH-01	HS-473AH-01	HS-473AH-01	HS-473AH-01	HS-473AH-01
HS-469AL-01	HS-469AL-01	HS-469AL-01	HS-469AL-01	HS-469AL-01	HS-469AL-01	HS-469AL-01	HS-469AL-01	HS-469AL-01
HS-469AH-01	HS-469AH-01	HS-469AH-01	HS-469AH-01	HS-469AH-01	HS-469AH-01	HS-469AH-01	HS-469AH-01	HS-469AH-01
HS-473AL-02	HS-473AL-02	HS-473AL-02	HS-473AL-02	HS-473AL-02	HS-473AL-02	HS-473AL-02	HS-473AL-02	HS-473AL-02
HS-473AH-02	HS-473AH-02	HS-473AH-02	HS-473AH-02	HS-473AH-02	HS-473AH-02	HS-473AH-02	HS-473AH-02	HS-473AH-02
HS-469AL-02	HS-469AL-02	HS-469AL-02	HS-469AL-02	HS-469AL-02	HS-469AL-02	HS-469AL-02	HS-469AL-02	HS-469AL-02
HS-469AH-02	HS-469AH-02	HS-469AH-02	HS-469AH-02	HS-469AH-02	HS-469AH-02	HS-469AH-02	HS-469AH-02	HS-469AH-02
HS-473AL-03	HS-473AL-03	HS-473AL-03	HS-473AL-03	HS-473AL-03	HS-473AL-03	HS-473AL-03	HS-473AL-03	HS-473AL-03
HS-473AH-03	HS-473AH-03	HS-473AH-03	HS-473AH-03	HS-473AH-03	HS-473AH-03	HS-473AH-03	HS-473AH-03	HS-473AH-03
HS-469AL-03	HS-469AL-03	HS-469AL-03	HS-469AL-03	HS-469AL-03	HS-469AL-03	HS-469AL-03	HS-469AL-03	HS-469AL-03
HS-469AH-03	HS-469AH-03	HS-469AH-03	HS-469AH-03	HS-469AH-03	HS-469AH-03	HS-469AH-03	HS-469AH-03	HS-469AH-03

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



Product Characteristics

Single manifold gauge

- Simple and elegant design, economical and practical

Knob

- Good seal and anti-leakage at ambient temp.

Tool kit

Paper box

economical and practical



Model selection



HS-467AL	HS-467AH	HS-468AH	HS-468AL
----------	----------	----------	----------

Model selection								
Model	Pressure gauge				Rel. pressure discharge photo	Accessories		
	Reference	Temperature	Scale unit	Temp. limit		Gauge adapter	Other	Package
HS-467AH	HS-422-0404A (1/2")	23mm (2-1/4")	psi / kg/cm ²	70	1	1	1	Paper box
HS-467AL	HS-422-0404A (1/2")	23mm (2-1/4")	psi / kg/cm ²	70	1	1	1	Paper box
HS-468AH	HS-422-0404A (1/2")	23mm (2-1/4")	psi / kg/cm ²	70	1	1	1	Paper box
HS-468AL	HS-422-0404A (1/2")	23mm (2-1/4")	psi / kg/cm ²	70	1	1	1	Paper box

Pressure Gauge



Product Characteristics

- For fusion gauging only
- psi/bar scale and Celsius scale
- Stainless steel body, 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	Connector				
213PH	HSC-418940C ISO 11-384	71mm (2.83")	psi/bar	-10 to 150 °C	1/8" BSP				
213PL									
2114H									
2114L									
201PH	HSC-418940C ISO 11-384	83mm (3.27")	psi/bar	-10 to 150 °C	1/8" BSP				
201PL									
2004H	HSC-418940C ISO 11-384								
2004L									
2005H	HSC-418940C ISO 11-384	83mm (3.27")	psi/bar	-10 to 150 °C	1/8" BSP				
2005L									

Oil-filled (vacuum) pressure Gauge



Model selection						
Model	Applicable media	Case	Dial	Pressure unit	Temperature	Connector
2424H	ISO 44-6/457C/ISO 4324	Stainless steel	50mm	1.0MPa	-70	1/4" NPT
2424L	ISO 44-6/457C/ISO 4324		50mm	1.0MPa		
1224H	ISO 44-6		75mm	0.1~1.0MPa		
1224L	ISO 44-6		75mm	0.1~1.0MPa		
1514H	ISO 44-6/457C/ISO 4324	Stainless steel	125mm	MPa		
1514L	ISO 44-6/457C/ISO 4324		125mm	MPa		
1224H	ISO 44-6/457C/ISO 4324	Aluminum	50mm	MPa or psi		
1224L	ISO 44-6/457C/ISO 4324		50mm	MPa or psi		
554H	ISO 44-6/457C/ISO 4324	—	125mm	1.0MPa		
554L	ISO 44-6/457C/ISO 4324	—	125mm	1.0MPa		

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 model RS-NC can be used to control the output pressure

Model selection					
Model	Applicable media	Connector	Case	Pressure unit	Pressure range
RS-BLS	RS244 ISO 44-6/457C/ISO 4324 ISO 4324 Nitrogen gas	1/4" NPT	50mm (2.0")	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



(R1234yfl)



(S1234yfl)



(R134s)



(R134s)

HS-MH-1234

HS-ML-1234

HS-MH-S

HS-ML-S

Model selection

Model	Ref. pressure	Type	Remark
HS-MH-1234	1234yfl	Standard type	High side
HS-ML-1234		Standard type	Low side

Model selection

Model	Ref. pressure	Accessories	Type	Remark
HS-MH-S	R134s	Adapter (R134s to S1/4" O.D.)	Standard type	High side
HS-ML-S		Adapter (R134s to S1/4" O.D.)	Standard type	Low side
HS-MH-S1/4" O.D.		—	Standard type	High side
HS-ML-S1/4" O.D.		—	Standard 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
---------------	---------------	-----------	-----------

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-1/4x1.5		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

- Specifically designed for BMW

HS-12A/HS-12B

- Universal and practical

Model selection



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

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

CHARGING VALVE SERIES



Product Characteristics

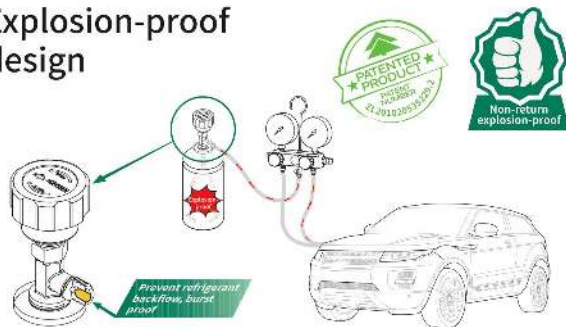
Knob

- 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, coated with a layer of two layers of sealing O-ring, it can resist high pressure, uniform force, and long-term sealing

Reliability

- Excellent PTFE welding material, customer's warranty of integrity, Hongsen also has

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 J19396 J19397 R1/2 J19398 J19399 R1/2 J19396 J19397
PS-08				32	
PS-12				72	
PS-08-R134a	R134a R404a R410a	8.0MPa	3.0MPa	12	R1/2 J19396 J19397 R1/2 J19398 J19399 R1/2 J19396 J19397
PS-08-R134a				32	
PS-08-R134a				72	
PS-12-R134a	R134a R404a R410a	8.0MPa	3.0MPa	90	R1/2 J19396 J19397 R1/2 J19398 J19399 R1/2 J19396 J19397
PS-12-R134a				32	
PS-12-R134a				72	
PS-12-R134a	R134a R404a R410a	8.0MPa	3.0MPa	6"	J19396 J19397
PS-12-R134a				6"	

BALL SHUT OFF VALVE

Product Characteristics

- Improved operation accuracy, stable performance
- Friction sealing, safe and reliable
- Modified PTFE sealing 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	A		1/4" SAE M	1/8" PTFE	BS00-06	B		1/4" SAE M	1/4" SAE M
BS00-03			1/4" SAE M	1/4" SAE F	BS00-03			1/2" SAE M	1/2" SAE M
BS00-05	B		1/2" SAE M	1/4" SAE F	BS00-02		BS2-5/16" BSPT WITH BRASS PLUGS	1/4" SAE M	1/4" SAE F
BS00-02			1/2" SAE M	1/2" SAE F	BS00-00			1/4" SAE M	1/2" SAE F
BS00-07	C	BS2-1/2" BSPT WITH BRASS PLUGS	1/4" SAE M	1/4" SAE F	BS00-09			1/4" SAE M	1/2" SAE F
BS00-04			1/4" SAE M	1/2" SAE F	BS00-10			1/2" SAE M	1/4" SAE F
BS00-08	D		1/4" SAE M	1/2" SAE F	BS00-11			1/2" SAE M	1/2" SAE F
BS00-09			1/4" SAE M	1/2" SAE F	BS00-12			1/2" SAE M	1/2" SAE F

Connection A and B are both 1/4" SAE, 1/2" SAE, 3/4" SAE, 1" SAE, 1 1/2" SAE, 2" SAE, etc. can be customized.

SCHRADER VALVE REMOVER



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
- Instruments: 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 2.5 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	PSI/gamma
Cylinder valve	PS24-3	CH24-3	PS24-3, CH24-3, CH24-3, 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 performance



Adapter	Connector A	Connector B
R2R Adapter	1/4 (3/16) Female	1/8 (5/16) 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 length (in standard)



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][illegible]