

PULL R L PULL



CH-706A

Eccentric cone type flaring tool for 1/4", 5/16", 3/8", 1/2", 5/8", 3/4" O.D.tubing

CH-708A

Eccentric cone type flaring tool for 3/16", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4" O.D.tubing

CH-708M

Eccentric cone type flaring tool for 6, 8, 10, 12, 14, 16, 19 mm O.D.tubing



CH-806A

Eccentric Cone Type Flaring Tool for 1/4", 5/16", 3/8", 1/2", 5/8" & 3/4" O.D. tubing

CH-808A

Eccentric Cone Type Flaring Tool for 3/16", 1/4", 5/16", 3/8", 1/2", 5/8" & 3/4" O.D. tubing

CH-808M

Eccentric Cone Type Flaring Tool for 6, 8, 10, 12, 14, 16 & 19 O.D. tubing

LESS POWER, 45° ECCENTRIC CONE TYPE FLARING TOOLS BAR CAN BE CHOOSEN R410

w/two color carry box

CH-706AL

Kit include CH-706A 45° Eccentric Cone Type flaring tool, W/CH-274 tube cutter, CH-208 Reamer 1/4", 5/16", 3/8", 1/2", 5/8", 3/4" O.D.tubing

CH-708AL

Kit include CH-708A 45° Eccentric Cone Type flaring tool, W/CH-274 tube cutter, CH-208 Reamer 3/16", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4" O.D.tubing

CH-708ML

Kit include CH-708M 45° Eccentric Cone Type flaring tool, W/CH-274 tube cutter, CH-208 Reamer 6, 8, 10, 12, 14, 16, 19 mm O.D.tubing



CH-806AL

Kit include CH-806A 45° Eccentric Cone Type flaring tool, W/CH-274 tube cutter, CH-208 reamer. 1/4", 5/16", 3/8", 1/2", 5/8", 3/4" O.D. tubing

CH-808AL

Kit include CH-808A 45° Eccentric Cone Type flaring tool, W/CH-274 tube cutter, CH-208 reamer. 3/16", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4" O.D. tubing

CH-808ML

Kit include CH-808M 45° Eccentric Cone Type flaring tool, W/CH-274 tube cutter, CH-208 reamer. 6, 8, 10, 12, 14, 16, 19mm O.D. tubing



CH-709AML

Kit include CH-706A 45° Eccentric Cone Type flaring tool, W/CH-274 tube cutter, CH-208 Reamer 6, 8, 10, 12, 14, 16, 19 mm O.D.bar 1/4", 5/16", 3/8", 1/2", 5/8", 3/4" O.D. tubing



CH-809AML

Kit include CH-806A 45° Eccentric Cone Type flaring tool, W/CH-274 tube, CH-208 reamer 6, 8, 10, 12, 14, 16, 19mm O.D. tubing 1/4", 5/16", 3/8", 1/2", 5/8", 3/4" O.D. tubing

## ■ ■ BEST QUALITY FLARING TOOLS



### ■ ■ CH-606AL

W/CH-274 tube cutter, CH-208 Reamer  
1/4", 5/16", 3/8", 1/2", 5/8", 3/4" O.D. tubing.

### ■ ■ CH-608AL

W/CH-274 tube cutter, CH-208 Reamer  
3/16", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4" O.D. tubing.

### ■ ■ CH-608ML

W/CH-274 tube cutter, CH-208 Reamer  
6. 8. 10. 12. 14. 16. 19mm O.D. tubing.



### ■ ■ CH-609AML

W/CH-274 tube cutter, CH-208 Reamer  
6. 8. 10. 12. 14. 16. 19mm O.D. bar  
1/4", 5/16", 3/8", 1/2", 5/8", 3/4" O.D. tubing.

## ■ ■ LESS POWER, 45° ECCENTRIC CONE TYPE FLARING TOOLS WITH AIR WRENCH BIT OR 1/2" RATCHET WRENCH BAR CAN BE CHOSEN R410

### ■ ■ CH-806B

Eccentric Cone Type Flaring Tool for  
1/4", 5/16", 3/8", 1/2", 5/8" & 3/4" O.D. tubing  
W/1/2" AIR WRENCH BIT

### ■ ■ CH-808B

Eccentric Cone Type Flaring Tool for  
3/16", 1/4", 5/16", 3/8", 1/2", 5/8" & 3/4" O.D. tubing  
W/1/2" AIR WRENCH BIT

### ■ ■ CH-808BM

Eccentric Cone Type Flaring Tool for  
6, 8, 10, 12, 14, 16 & 19 O.D. tubing  
W/1/2" AIR WRENCH BIT



### ■ ■ CH-806W

Eccentric Cone Type Flaring Tool for  
1/4", 5/16", 3/8", 1/2", 5/8" & 3/4" O.D. tubing  
W/1/2" RATCHET WRENCH

### ■ ■ CH-808W

Eccentric Cone Type Flaring Tool for  
3/16", 1/4", 5/16", 3/8", 1/2", 5/8" & 3/4" O.D. tubing  
W/1/2" RATCHET WRENCH

### ■ ■ CH-808WM

Eccentric Cone Type Flaring Tool for  
6, 8, 10, 12, 14, 16 & 19 O.D. tubing  
W/1/2" RATCHET WRENCH

### ■ ■ CH-806BL

Kit include CH-806B 45°  
Eccentric Cone Type flaring tool,  
W/CH-274 tube cutter, CH-208 reamer.  
1/4", 5/16", 3/8", 1/2", 5/8", 3/4", O.D. tubing

### ■ ■ CH-808BL

Kit include CH-808B 45°  
Eccentric Cone Type flaring tool,  
W/CH-274 tube cutter, CH-208 reamer.  
3/16", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4" O.D. tubing

### ■ ■ CH-808BML

Kit include CH-808BM 45°  
Eccentric Cone Type flaring tool,  
W/CH-274 tube cutter, CH-208 reamer.  
6, 8, 10, 12, 14, 16, 19mm O.D. tubing

### ■ ■ CH-809BML

Kit include CH-806B 45°  
Eccentric Cone Type flaring tool,  
W/CH-274 tube cutter, CH-208 reamer.  
6, 8, 10, 12, 14, 16, 19mm O.D. tubing  
1/4", 5/16", 3/8", 1/2", 5/8", 3/4", O.D. tubing

### ■ ■ CH-806WL

Kit include CH-806B 45°  
Eccentric Cone Type flaring tool,  
W/1/2" RATCHET WRENCH  
W/CH-274 tube cutter, CH-208 reamer.  
1/4", 5/16", 3/8", 1/2", 5/8", 3/4", O.D. tubing

### ■ ■ CH-808WL

Kit include CH-808B 45°  
Eccentric Cone Type flaring tool,  
W/1/2" RATCHET WRENCH  
W/CH-274 tube cutter, CH-208 reamer.  
3/16", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4" O.D. tubing

### ■ ■ CH-808WML

Kit include CH-808BM 45°  
Eccentric Cone Type flaring tool,  
W/1/2" RATCHET WRENCH  
W/CH-274 tube cutter, CH-208 reamer.  
6, 8, 10, 12, 14, 16, 19mm O.D. tubing

### ■ ■ CH-809WML

Kit include CH-806B 45°  
Eccentric Cone Type flaring tool,  
W/CH-274 tube cutter, CH-208 reamer.  
& 1/2" RATCHET WRENCH  
6, 8, 10, 12, 14, 16, 19mm O.D. tubing  
1/4", 5/16", 3/8", 1/2", 5/8", 3/4", O.D. tubing





**NEW**

- **CH-506A**  
1/4", 5/16", 3/8", 1/2", 5/8", 3/4" O.D. tubing.
- **CH-508A**  
3/16", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4" O.D. tubing.
- **CH-508M**  
6. 8. 10. 12. 14. 16. 19mm O.D. tubing.
- **CH-195**  
for 3/16", 1/4", 5/16", 3/8", 7/16", 1/2" and 5/8" O.D. tubing.
- **CH-195M**  
for 4, 6, 8, 10, 12, 14 & 16mm O.D. tubing.
- **CH-525**  
For 3/16"~5/8" O.D. tubing.  
One opening hold for all sizes.
- **CH-500**  
For 3/16", 1/4", 5/16", 3/8", 1/2", 5/8" O.D. tubing.
- **CH-500M**  
For 6, 8, 10, 12, 16mm O.D. tubing.
- **CH-203**  
FLARING TOOL  
Size for 5/8", 3/4", 7/8" and 1- 1/8" O.D. Tubing

## ■ ■ FLARING TOOL



- **CH-275L**  
same as CH-275 and with hand carrying case.
- **CH-275LM**  
Metric size, for 4, 4.75, 6, 8, 10, 12, 14, 16 & 19 mm



- **CH-278L**  
Contains of kit : CH-275 flaring & swaging tool. CH-274 tube cutter, CH-122 ratchet wrench in plastic case.



- **CH-203L**  
CH-203 W/CH-312 Cutter & CH-208 Reamer. With hand carrying case.



- **CH-275**  
Flare 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 5/8", and 3/4" O.D. (1/8", 1/4", 3/8", 1/2", 5/8", nom.)  
Include 5 swage adapters which cover 3/16", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", (1/8", 1/4", 3/8", 1/2" 5/8" nom.) in plastic box
- **CH-275M**  
Metric size, for 4, 4.75, 6, 8, 10, 12, 14, 16 & 19mm .

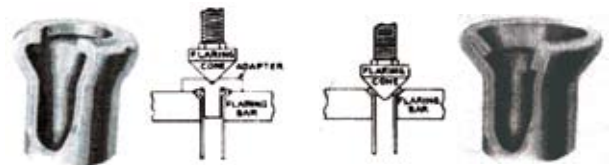


- **CH-1226**  
Contains of kit : CH-274 tube cutter CH-195 flaring tool.
- **CH-1226M**  
Contains of kit : CH-274 tube cutter CH-195M flaring tool.

## ■ ■ DOUBLE FLARING TOOL

**NEW**

- **CH-268FB**  
For 3/16", 1/4", 5/16", 3/8", 1/2" O.D. tubing. w/CH-274 & 5 Double Flare Adapters.



Screwing down flaring cone with proper adapter,  
Screwing back flaring cone to remove adapter, flared finished.

## ■ ■ A/C COMPRESSOR CLUTCH REMOVER KIT



### ■ ■ CH-248

Replace clutches found on Fs6, C171, 6P & 148 computer. Also GM R4 & A6, HR-6, DA-6 & V5 A / C compressors. And compressors of Sanden Sd505, 507, 508, 510, 575, 708 and 709. 2 & 3 hole puller plate fits most clutches, the mechanical force does the pulling job.

## ■ ■ CLUTCH REMOVE/INSTALL TOOL



### ■ ■ CH-249

For SD, GM, Ford, Chrysler Complete Kit in a Blow plastic Case.

## ■ ■ TORQUE WRENCH KIT SPANNER CLICK TYPE



### ■ ■ CH-STW - 07

sizes :  
17, 22, 24, 26, 27, 29mm.  
\*\*\* 19, 25, 28, 32mm  
is optional

## ■ ■ UNIVERSAL A/C CLUTCH HOLDING TOOL



### ■ ■ CH-N001T

Hold Compressor Clutch Plate for Retaining Nut remove & Installation.

## ■ ■ MULTI SIZES TUBE EXPANDER



### ■ ■ CH-1000 INCH SIZE

Kit include CH-1000H Handle, CH-208 Plastic reamer 3/16"~1-1/2" and CH-1000E Expand Heads

6 sizes : 3/8", 1/2", 5/8", 3/4", 7/8" & 1" complete Kit in a steel hand carrying case.

\*\*\* Expand Heads 1-1/8", 1-1/4", 1-1/2", 1-3/8" 1-5/8" optional \*\*\*

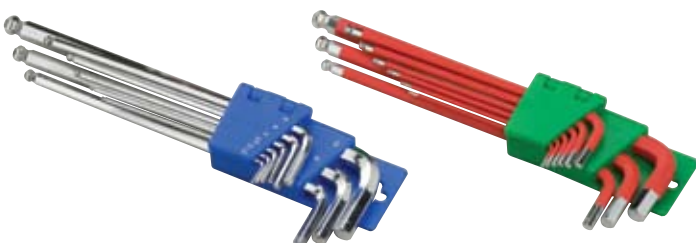
### ■ ■ CH-2000 MM SIZE

Kit include CH-2000H Handle, CH-208 Plastic reamer 3mm~38mm and CH-2000E Expand Heads.

6 sizes : 10mm, 12mm, 15mm, 16mm, 18mm & 22mm complete Kit in a steel hand carrying case.

\*\*\* Expand Heads 14mm, 28mm, 35mm, 42mm, optional \*\*\*

## ■ ■ HIGH QUALITY HEX WRENCH



**NEW**

CRV 6150 Cover Can Be Chosen Ni Plated Or Red/blue Color Painted.

### ■ ■ CH-HW

Size: 1.5, 2.5, 3, 4, 5, 6, 8, 10 mm

\*\*\*Fit for over 0.8mm copper tube.\*\*\*  
 \*\*\*Hard Stainless not available\*\*\*  
 \*\*\*Anneal for over 5/8" copper tube.\*\*\*

## ■ ■ TUBE BENDER KIT



### ■ ■ CH-505M

For bending 8,10,12,14,16,18,22mm soft tubings. Bending worked by ratchet which can save power and do more efficiency bending. Complete set in a hand carrying case. Fit for over 0.8mm copper tube.

\*\*\*Soft tubing ratchet 15mm, 20mm, optional\*\*\*



### ■ ■ CH-404L

For bending 3/8", 1/2", 5/8", 3/4" and 7/8" soft tubings. Bending worked by ratchet which can save power and do more efficiency bending. Complete set includes 5 bending form wheels, tube cutter and reamer in a hand carrying case.



## ■ ■ MULTI SIZES TUBE BENDER



### ■ ■ CH-364-04-1/4"

### ■ ■ CH-364A-6mm

For 1/4" / 6mm O.D. tubing 180° degree bent.

### ■ ■ CH-364-05-5/16"

### ■ ■ CH-364A-8mm

For 5/16" / 8mm O.D. tubing 180° degree bent.



### ■ ■ CH-364-06-3/8"

### ■ ■ CH-364A-10mm

For 3/8" / 10mm O.D. tubing 180° degree bent.

### ■ ■ CH-364-08-1/2"

### ■ ■ CH-364A-12mm

For 1/2" / 12mm O.D. tubing 180° degree bent.



### ■ ■ CH-364-10-5/8"

### ■ ■ CH-364A-16mm

For 5/8" / 16mm O.D. tubing 180° degree bent.

### ■ ■ CH-364-12-3/4"

### ■ ■ CH-364A-19mm

For 3/4" / 19mm O.D. tubing 180° degree bent.

### ■ ■ CH-364-14-7/8"

### ■ ■ CH-364A-22mm

For 7/8" / 22mm O.D. tubing 180° degree bent.



### ■ ■ CH-366 4-IN-1 BENDER

For 3/16" 1/4", 5/16", 3/8" O.D. Tubing  
With fixed hook, bends up to 180°.



**NEW**

### ■ ■ CH-364L

Kit For bending 1/4", 5/16", 3/8", 1/2", 5/8" W/carrying box.

### ■ ■ CH-364LM

Kit For bending 6,8,10,12,16 mm W/carrying box.

## ■ ■ ECONOMICAL TYPE

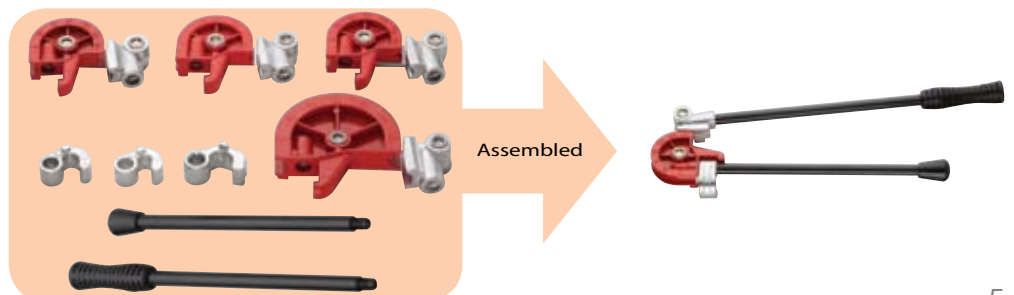
**NEW**

### ■ ■ CH-365

For 1/4", 3/8", 1/2", 5/8" O.D. tubing  
\*\*\* 5/16" is optional

### ■ ■ CH-365M

For 8,10,12,16 mm O.D. tubing



## ■ ■ MULTI SIZES TUBE BENDER



- ■ **CH-367 3-IN-1 BENDER**  
For 1/4", 5/16", 3/8" O.D. Tubing  
With fixed hook, bends up to 180°.
- ■ **CH-367M 3-IN-1 BENDER**  
For 6mm, 8mm, 10mm O.D. Tubing  
With fixed hook, bends up to 180°.



- ■ **CH-368 3-IN-1 TUBE BENDER**  
For 1/4", 5/16", 3/8" O.D. tubing 90° degree bent.
- ■ **CH-368M 3-IN-1 TUBE BENDER**  
For 6mm, 8mm, 10mm O.D. tubing 90° degree bent.



- ■ **CH-369 4-IN-1 BENDER**  
For 3/16", 1/4", 5/16", 3/8" O.D. Tubing 90° bent.

## ■ ■ TUBE CUTTER



- ■ **CH-104**  
CAPACITY : 1/4"~1-1/4" O.D. tubing Aluminum alloy body, red color painted with a spare cutting blade.



- ■ **CH-105**  
CAPACITY : 1/8"~1-3/8" O.D. tubing Aluminum alloy body, silver color painted with a spare cutting blade.



- ■ **CH-107**  
CAPACITY : 1/4"~2" O.D. tubing Aluminum alloy body, silver color painted with a spare cutting blade.



- ■ **CH-206**  
CAPACITY : 3/8"~2-5/8" O.D. tubing Aluminum alloy body, chrome plated finish and sand with spare cutting blade.



- ■ **CH-274**  
CAPACITY : 1/8"~1-1/8" O.D. tubing Aluminum alloy body, chrome plated finish and sand blast with a spare cutting blade.



- ■ **CH-312**  
CAPACITY : 1/4"~1-5/8" O.D. tubing Aluminum alloy body, chrome plated finish and sand blast with a spare cutting blade.



- ■ **CH-127**  
CAPACITY : 1/8"~5/8" O.D. tubing Zinc alloy body, zinc plated finish



- ■ **CUTTING BLADE**  
274B/312B : For CH-274/312,  
104B/105B/107B : For CH-105/107/104  
127B : For CH-127,  
206B : For CH-206,

## ■ ■ SWAGING PUNCH



- ■ **CH-95**  
5-in-1 punch  
Swaging punch for  
1/4", 5/16", 3/8",  
1/2" & 5/8" O.D.



- ■ **CH-193 SWAGING PUNCH**  
Swaging punch for  
1/4", 5/16", 3/8", 1/2" & 5/8" O.D. tubing.



- ■ **CH-95M 5-IN-1** **NEW**  
For 8, 10, 12, 14, 16mm O.D.



- ■ **CH-94 3-IN-1**  
For: 1/2", 5/8", And 7/8" O.D.



- ■ **CH-96 3-IN-1**  
For: 5/8", 7/8", And 1-1/8" O.D.



- ■ **SPRING BENDER**  
CH-102-04 Size 1/4" Length 10"  
CH-102-05 Size 5/16" Length 10"  
CH-102-06 Size 3/8" Length 10"  
CH-102-08 Size 1/2" Length 12"  
CH-102-10 Size 5/8" Length 14"  
CH-102-12 Size 3/4" Length 14"  
CH-102-14 Size 7/8" Length 14"

## ■ ■ SERVICE TOOL



### CAPILLARY TUBE CUTTER

- ■ **CH-128**  
Cuts all sizes of capillary tubes without collapsing nor swaging the tubes.

## ■ ■ INNER-OUTER REAMER

Reams Both Inside and Outside Edges of Tubing



- ■ **CH-208**  
Plastic body,  
3/16"~1-1/2" O.D.
- ■ **CH-209**  
Zinc body,  
1/4"~1-5/8" O.D.



### PVC PIPE CUTTER

- ■ **CH-42**  
Professional PVC cutter  
capacity up to 42mm.
- ■ **CH-35**  
Professional PVC cutter  
capacity up to 35mm.

## ■ ■ DEBURRING TOOL



- ■ **DT-100**  
Plastic Body With High Grade Steel Blade.  
Standard Product With a Spare Blade Stored.



- ■ **CH-352 FIN STRAIGHTENER**  
Fin straightener stainless steel, can clean & straighten evaporator fin.



- ■ **CH-351 FIN STRAIGHTENER**  
Fin straightener 8, 9, 10, 12, 14, 15 spacing per inch. can make with green handle if require.

## ■ ■ OPENING SINGAL ENDED RATCHET WRENCH



### ■ ■ CH-122

4 size : 1/4", 3/8", 3/16", 5/16" Square ratchet.



### ■ ■ CH-122L

4 size : 1/4", 3/8", 3/16", 5/16" Square ratchet with curve shape handle.



### ■ ■ CH-123

4 size : 1/4", 3/16", square 9/16", 1/2" hex ratchet.



### ■ ■ CH-210A

Can be used on pneumatic & hydraulic connections such as brake pipes.

SIZE: 10, 11, 13, 17, 19, 22 mm.

\*\*\* 12,14 mm is optional\*\*\*

\*\*\* 24,17,32 mm Individual sells only\*\*\*

## ■ ■ LOCKING "C" CLAMPS

## ■ ■ LOCKING CHAIN CLAMP



**NEW**

### ■ ■ CH-RC5

Locking "c" round clamp  
Multipurpose 48mm~100mm



**NEW**

### ■ ■ CH-306

Locking "c" clamps  
Size:6",11",18"



**NEW**

### ■ ■ CH-316

SIZE:19"chain

## ■ ■ LOCKING PLIERS



**NEW**

### ■ ■ CH-308

REFRIGERANT RECOVERY TOOL  
INSTA-TAP:8"



**NEW**

### ■ ■ CH-305

CURVED JAWS SIZE: 5",7",10"  
Drop forged steel jaws  
CR-V steel jaws



### ■ ■ CH-201 PINCH OFF PLIER

Pinch off plier 7" can pinch  
off copper tubing instantly.



## ■ ■ TEFLON DIAPHRAGM MANIFOLD

### ■ ■ PACKED EASY TO CARRY

Carry box suitable piston type manifold also.



### Wordwide patent on case design

Patent NO. :

US 6823, 688B1

US D500, 508s

M252855

D10225 / 000125D18-0001

3102937 / 684884

#### ■ ■ CH-J36G-C

R134. Manifold Set. 1/4" SAE thread  
W/QC-LM. HM. CH-336 RYB-S.

#### ■ ■ CH-J60G-C

R134. Manifold Set. 1/4" SAE thread  
W/QC-LM. HM. CH-360 RYB-S.

#### ■ ■ CH-J72G-C

R134. Manifold Set. 1/4" SAE thread  
W/QC-LM. HM. CH-372 RYB-S.

## ■ ■ BALL VALVE TYPE MANIFOLD



Complete kit in a hand carry blow case. Manifold is screw fixed on blow case to avoid vibration.

No need to release manifold will can be operated.

\* Wordwide patent on case design.

\* Gauge with rubber protective boots.

\* Manifold with R134 gauges, the connection thread can be 1/4" SAE or 1/2" ACME  
(1/4" SAE with QC-LM & QC-HM or QC-12 quick couplers)  
(1/2" ACME with QC-L & QC-H quick coupler)

\* Manifold with R410 gauge, the connection thread can be 1/4" SAE or 5/16" SAE Hose with ball valve shut-off.

\* Manifold body can be chosen blue or black color.

\* Case can be chosen silver or black color.

#### ■ ■ CH-M36G-C

R134. Manifold Set. 1/4" SAE thread  
W/QC-LM. HM. CH-336 RYB-S.

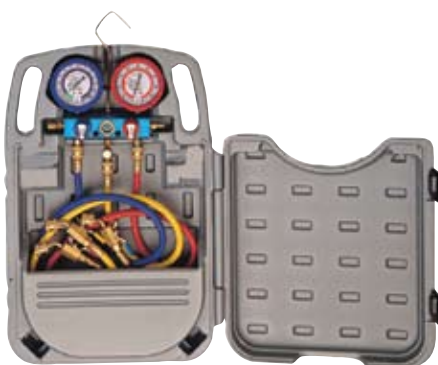
#### ■ ■ CH-M60G-C

R134. Manifold Set. 1/4" SAE thread  
W/QC-LM. HM. CH-360 RYB-S.

#### ■ ■ CH-M72G-C

R134. Manifold Set. 1/4" SAE thread  
W/QC-LM. HM. CH-372 RYB-S.

### ■ ■ OPEN TO PULL OUT HOSE



### ■ ■ OPERATING



Manifold with R134 gauges, the connection thread can be 1/4" SAE or 1/2" ACME.

(1/4" SAE with QC-LM & QC-HM or QC-12 quick couplers )

(1/2" ACME with QC-L & QC-H quick coupler )

**MANIFOLD ASSEMBLED W/ GAUGE, 1/4" SAE OR 1/2" ACME CONNECTION COMPLETE SET IN A BLOW CASE OF BLISTER BOX.**

Below manifold can be chosen to match with any model hose, and quick coupler

\* Made of aluminum, blue or black color can be chosen.

**BV-01G**

\* Manifold with R134 gauges, the connection thread can be 1/4" SAE or 1/2" ACME (1/4" SAE with QC-LM & QC-HM or QC-12 quick couplers) (1/2" ACME with QC-L & QC-H quick coupler)

\* Manifold with R410 gauge, the connection thread can be 1/4" SAE or 5/16" SAE Hose with shut-off ball valve .

**BV-136G**

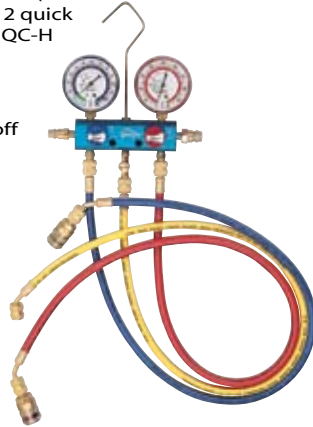
With 3 x 36" hose.  
R134. W/QC-12. 1/4" SAE

**BV-160G**

With 3 x 60" hose.  
R134. W/QC-12. 1/4" SAE

**BV-172G**

With 3 x 72" hose.  
R134. W/QC-12. 1/4" SAE.



**BV-02G**

\* Manifold with R134 gauges, the connection thread can be 1/4". W/Shut-off ball valve Hose.

\* Manifold with R410 gauge, the connection thread can be 1/4" SAE or 5/16" SAE Hose with shut-off ball valve .

**BV-236G**

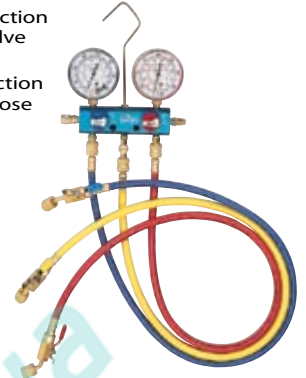
With 3 x 36" Shut-off ball valve hose.  
R410. without QC. 1/4" SAE.

**BV-260G**

With 3 x 60" Shut-off ball valve hose.  
R410. without QC. 1/4" SAE.

**BV-272G**

With 3 x 72" Shut-off ball valve hose.  
R410. without QC. 1/4" SAE.



**BALL VALVE TYPE MANIFOLD**

**BVL-01G**

\* Manifold with R134 gauges, the connection thread can be 1/4" SAE or 1/2" ACME (1/4" SAE with QC-LM & QC-HM or QC-12 quick couplers) (1/2" ACME with QC-L & QC-H quick coupler)

\* Manifold with R410 gauge, the connection thread can be 1/4" SAE or 5/16" SAE Hose with shut-off ball valve .

**BVL-136G**

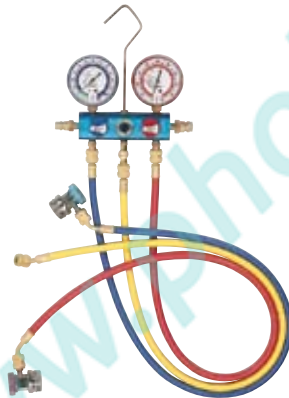
With 3x36" hose.  
R134. QC-LM. HM. 1/4" SAE.

**BVL-160G**

With 3 x 60" hose.  
R134. QC-LM. HM. 1/4" SAE.

**BVL-172G**

With 3 x 72" hose.  
R134. QC-LM. HM. 1/4" SAE.



**BVL-02G**

\* Manifold with R134 gauges, the connection thread can be 1/4" SAE W/Shut-off ball valve Hose.

\* Manifold with R410 gauge, the connection thread can be 1/4" SAE or 5/16" SAE Hose with ball valve shut-off.

**BVL-236G**

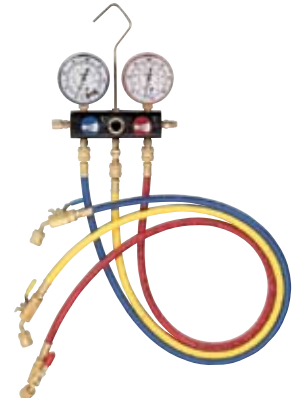
With 3 x 36" Shut-off ball valve hose.  
R410. 1/4" SAE. Hose without QC.

**BVL-260G**

With 3 x 60" Shut-off ball valve hose.  
R410. 1/4" SAE. Hose without QC.

**BVL-272G**

With 3 x 72" Shut-off ball valve hose.  
R410. 1/4" SAE. Hose without QC.



**BVS-01G**

\* Manifold with CH-800-04PT sight glass the connection thread can be 1/4" SAE with QC-LM & QC-HM or QC-12 quick couplers)

**BVS-136G**

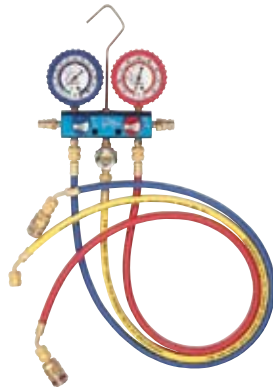
With 3 x 36" hose.  
R134. 1/4" SAE. W/QC-12

**BVS-160G**

With 3 x 60" hose.  
R134. 1/4" SAE. W/QC-12

**BVS-172G**

With 3 x 72" hose.  
R134. 1/4" SAE. W/QC-12



**BVS-02G**

\* Manifold with CH-800-04 PT sight glass, the connection thread can be 1/4" SAE W/Shut-off ball valve Hose.

\* Manifold with R410 gauge, the connection thread can be 1/4" SAE or 5/16" SAE Hose with shut-off ball valve.

**BVS-236G**

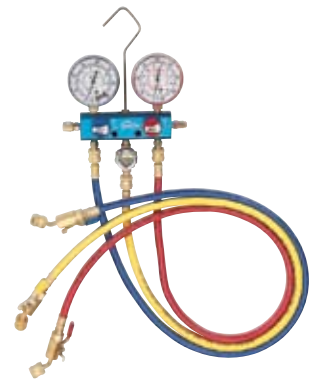
With 3 x 36" Shut-off ball valve hose.  
R410. Hose 1/4" SAE.

**BVS-260G**

With 3 x 60" Shut-off ball valve hose.  
R410. Hose 1/4" SAE.

**BVS-272G**

With 3 x 72" Shut-off ball valve hose.  
R410. Hose 1/4" SAE.



Picture with rubber protective boots is for reference. Standard product w/o rubber protective boots.

\* Above Manifold Body Hose can be Selected According to your needs.

■ **Ball Valve Type**

- \* Gauge with rubber protective boots is for reference.
- \* Manifold with R134 gauges, the connection thread can be 1/4"SAE or 1/2" ACME.
- \* 1/4" SAE with QC-LM & HM or QC-12 quick couplers.
- \* 1/2"ACME with QC-L & QC-H quick coupler.

■ **CH-N36G**

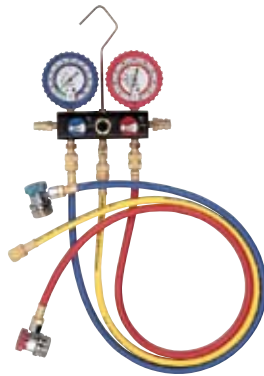
with 3 X 36" hose.  
R134. QC-L. H.1/2" ACME.

■ **CH-N60G**

with 3 X 60" hose.  
R134. QC-L. H.1/2" ACME.

■ **CH-N72G**

with 3 X 72" hose.  
R134. QC-L. H.1/2" ACME.



■ **TEFLON DIAPHRAGM TYPE**

- \* Manifold with R134 gauges, the connection thread can be 1/4" SAE or 1/2" ACME.
- \* 1/4" SAE with QC-LM & HM or QC-12 quick couplers.
- \* 1/2"ACME with QC-L & QC-H quick coupler.

■ **CH-L36G**

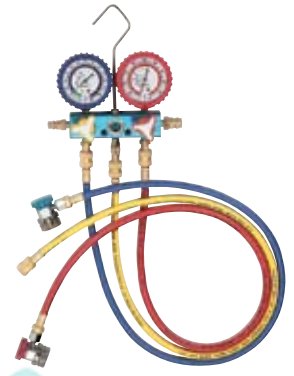
with 3 X 36" hose.  
R134. 1/2" ACME . QC-L. H.

■ **CH-L60G**

with 3 X 60" hose.  
R134. 1/2" ACME . QC-L. H.

■ **CH-L72G**

with 3 X 72" hose.  
R134. 1/2" ACME. QC-L. H.



■ **TESTING MANIFOLD**

■ **TEFLON DIAPHRAGM TYPE**

- \* Manifold with sight glass with R410A gauges, the connection thread can be 1/4"SAE or 5/16" SAE Hose with shut-off ball valve.
- \* For R134 Manifold W/QC Holder 1/4" SAE W/QC-LM/HM or 1/2" ACME, W/QC-L.H.

■ **CH-P36G**

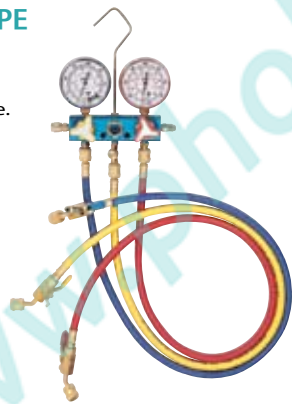
with 3 X 36" ball valve hose.  
R410. Hose 1/4" SAE.

■ **CH-P60G**

with 3 X 60" ball valve hose.  
R410. Hose 1/4" SAE.

■ **CH-P72G**

with 3 X 72" ball valve hose.  
R410. Hose 1/4" SAE.



■ **PISTON TYPE**

- \* Brass Manifold w/ sight glass, Hose with shut-off ball valve.
- \* For R410A connection thread can be 1/4" SAE or 5/16" SAE.

■ **CH-536G-L**

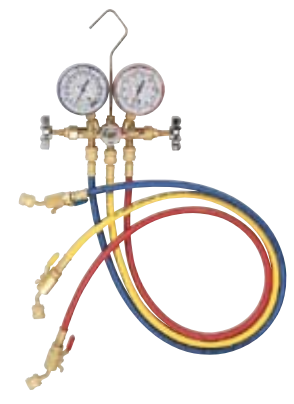
with 3 X 36" ball valve hose.  
R12. 1/4" SAE.

■ **CH-560G-L**

with 3 X 60" ball valve hose.  
R12. 1/4" SAE.

■ **CH-572G-L**

with 3 X 72" ball valve hose.  
R12. 1/4" SAE.



■ **CH-K01G**

- \* Aluminum 4 way manifold with 3 X 1/4" SAE & 1 X 3/8" SAE connector.
- \* Length of hose can be chosen.

\* With sight glass is optional.



- \* Brass Manifold w/o sight glass, Hose with ball valve.
- \* Gauge can be for R12 or R134 or R410A.
- \* For R410A connection thread can be 1/4" SAE or 5/16" SAE.

■ **CH-636G-L**

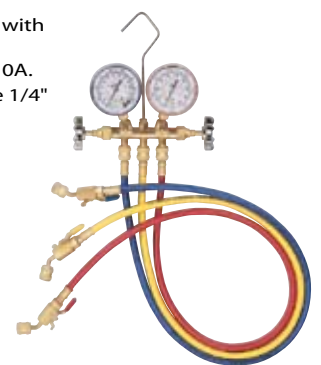
with 3 X 36" ball valve hose.  
R12. 1/4" SAE.

■ **CH-660G-L**

with 3 X 60" ball valve hose.  
R12. 1/4" SAE.

■ **CH-672G-L**

with 3 X 72" ball valve hose.  
R12. 1/4" SAE.





- **HANDWHEEL TYPE IS OPTIONAL**  
(for Piston Manifold ONLY)



Manifold for R134A with 3pcs hoses and sight glass 2pcs adjustable quick couplers, 1/4" SAE connection for R134A

can be used with QC-12

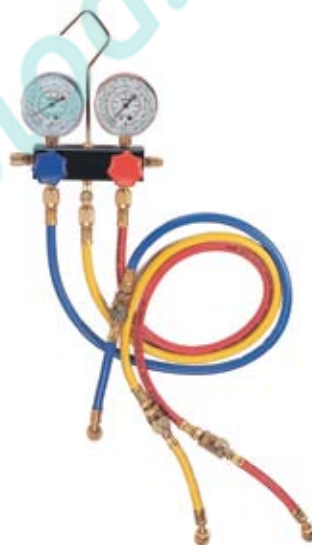
- **C-36G**  
with 3pcs 36" hoses, QC-LM, HM
- **C-60G**  
with 3pcs 60" hoses, QC-LM, HM
- **C-72G**  
with 3pcs 72" hoses, QC-LM, HM

## ■ ■ TESTING MANIFOLD GAUGE SETS



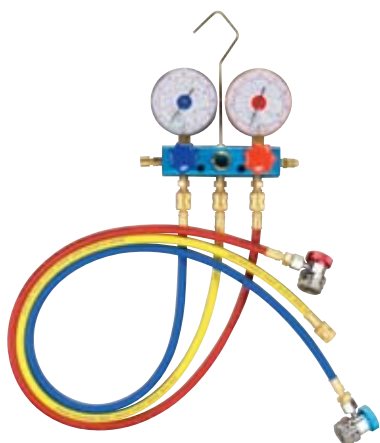
Manifold W/3 pcs hoses, 1/4" SAE connection for R12 or 134A  
W/CH-800-04PT .

- **CH-FS36G**  
W/3 x 36" shut-off ball valve hose.
- **CH-FS60G**  
W/3 x 60" shut-off ball valve hose.
- **CH-FS72G**  
W/3 x 72" shut-off ball valve hose.



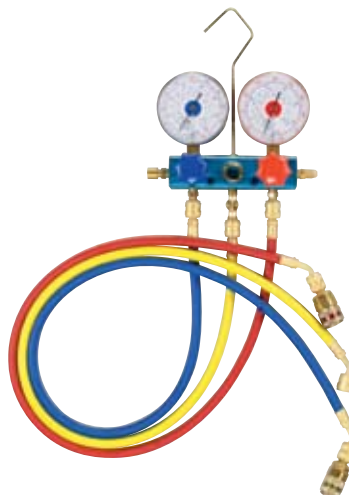
Manifold W/3 pcs hoses, 1/4" SAE connection for R12 or 134A.

- **CH-F36G**  
W/3 x 36" shut-off ball valve hose.
- **CH-F60G**  
W/3 x 60" shut-off ball valve hose.
- **CH-F72G**  
W/3 x 72" shut-off ball valve hose.



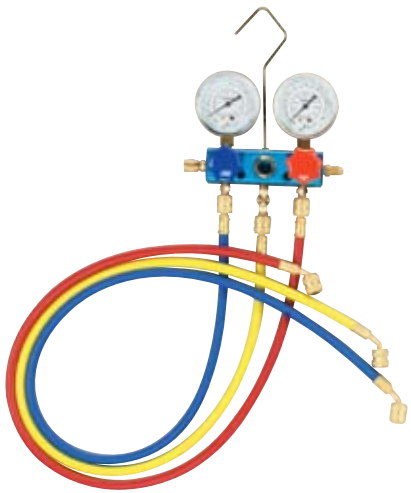
Manifold R22, 134, 404, 407 with 3pcs hoses, 2pcs adjustable quick couplers and 2pcs 80mm dia. gauge. 1/2" ACME connection.

- **A-36G**  
with 3pcs 36" hoses, QC-L, H
- **A-60G**  
with 3pcs 60" hoses, QC-L, H
- **A-72G**  
with 3pcs 72" hoses, QC-L, H

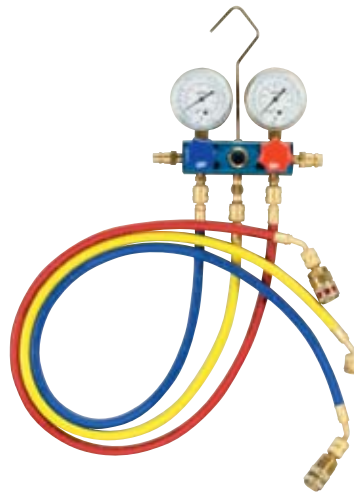


Manifold for R22, 134, 404, 407 with 3pcs hoses, 2pcs quick couplers and 2pcs 80mm dia. gauge. 1/4" SAE connection.

- **B-36G**  
with 3pcs 36" hoses, QC-12
- **B-60G**  
with 3pcs 60" hoses, QC-12
- **B-72G**  
with 3pcs 72" hoses, QC-12

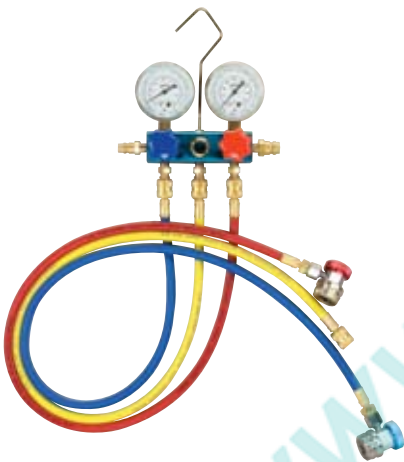


- Manifold with 3 pcs hoses, 1/4" SAE connection for R12.
- **CH-136G** with 3pcs 36" hoses,
  - **CH-160G** with 3pcs 60" hoses,
  - **CH-172G** with 3pcs 72" hoses,



- Manifold with 3 pcs hoses, 2pcs quick couplers. 1/4" SAE connection for R134A..
- **CH-236G** with 3pcs 36" hoses, QC-12
  - **CH-260G** with 3pcs 60" hoses, QC-12
  - **CH-272G** with 3pcs 72" hoses, QC-12

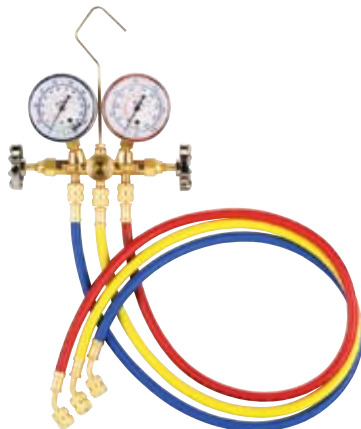
## ■ ■ TESTING MANIFOLD GAUGE SETS



- Manifold with 3 pcs hoses, 2pcs adjustable quick couplers. 1/2" ACME connection for R134A.
- **CH-336G** with 3pcs 36" hoses, QC-L,H
  - **CH-360G** with 3pcs 60" hoses, QC-L,H
  - **CH-372G** with 3pcs 72" hoses, QC-L,H



- Manifold with 3 pcs hoses, 2pcs adjustable quick couplers. 1/2" ACME connection for R134A.
- **CH-436G** with 3pcs 36" hoses, QC-L,H
  - **CH-460G** with 3pcs 60" hoses, QC-L,H
  - **CH-472G** with 3pcs 72" hoses, QC-L,H

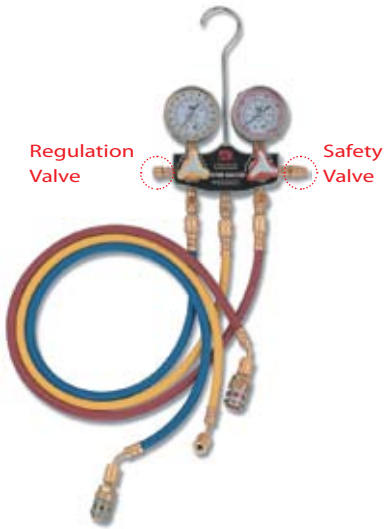


- **CT-501** Sight glass brass testing manifold body with hook, hose holder and two handwheels.
- **CT-501G** Sight glass brass testing manifold body with hook, hose holder and two handwheels. W/RG-250/500 gauge.
- **CT-536G** With 3 pcs 36" charging hoses for R12.
- **CT-560G** With 3pcs 60" charging hoses.
- **CT-572G** With 3pcs 72" charging hoses.

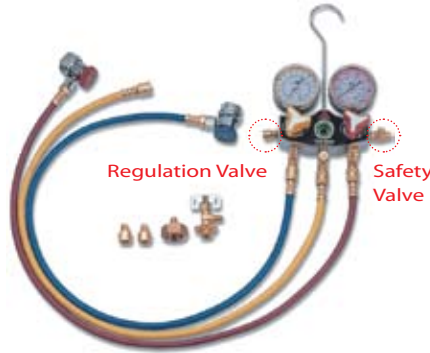


- **CT-601** Testing manifold body with hook, hose holder and two handwheels.
- **CT-601G** Testing manifold body with hook, hose holder and two handwheels. W/RG-250/500 gauge.
- **CT-636G** With 3 pcs 36" charging hoses.
- **CT-660G** With 3pcs 60" charging hoses.
- **CT-672G** with 3pcs 72" charging hoses.

## ■ ■ TESTING MANIFOLD GAUGE SET FOR R12 & R134 & R410A



- ■ **CH-936G**  
3pcs 36" charging hoses, W/QC-12&1pc changeable fitting.
- ■ **CH-960G**  
3pcs 60" charging hoses, W/QC-12 1pc changeable fitting.
- ■ **CH-972G**  
3pcs 72" charging hoses, W/QC-12 1pc changeable fitting.



- ■ **CH-R9134L**  
R134A manifold with sight glass. 1pc CA-04 X12 adapter, 2pcs changeable adapters, 1pc can tap valve.
- ■ **CH-R9134L-36**  
With 3pcs 36" hoses, W/QC-L,H
- ■ **CH-R9134L-60**  
With 3pcs 60" hoses, W/QC-L,H
- ■ **CH-R9134L-72**  
With 3pcs 72" hoses, W/QC-L,H

## ■ ■ SUPERIOR MANIFOLD

Manifold 1/4" SAE  
Complete set in a carrying plastic case.

- ■ **CH-736G**  
3pcs 36" hoses. W/QC-12
- ■ **CH-760G**  
3pcs 60" hoses. W/QC-12
- ■ **CH-772G**  
3pcs 72" hoses. W/QC-12



Manifold 1/2" SAE  
Complete set in a carrying plastic case.

- ■ **CH-836G**  
3pcs 36" hoses. W/QC-L,H
- ■ **CH-860G**  
3pcs 60" hoses. W/QC-L,H
- ■ **CH-872G**  
3pcs 72" hoses. W/QC-L,H



- ■ **CH-333**  
1/2" ACME can tap valve and another side with 1/4" SAE connection with R134A hose (total length 50cm).



- ■ **CH-555**  
1/2" ACME can tap valve and another side with low pressure quick coupler with R134A hose (total length 50cm).



Piston Type Manifold

- ■ **CH-Q01**  
Manifold body for 1/4" SEA
- ■ **CH-Q01G**  
R22.134.404.407 Manifold set W/80mm Gauge
- ■ **CH-Q36G**  
R134 Manifold set, 3x36" Hose W/QC-LM, QC-HM
- ■ **CH-Q60G**  
R134 Manifold set, 3x60" Hose W/QC-LM, QC-HM
- ■ **CH-Q72G**  
R134 Manifold set, 3x72" Hose W/QC-LM, QC-HM

Manifold set:

- \* 1/4" SAE W/QC-12 or Hose with shut-off ball Valve is optional.
- \* 5/16" SAE. Hose with or without shout-off ball Valve
- \* 1/2" ACME W/QC-L & QC-H
- \* Gauge type is optional

- ■ **CH-79583**  
Hose seal gasket, 3pcs gaskets and 1pc thread brass depressor.
- ■ **CH-79586**  
Hose seal gasket, 6pcs gaskets and 1pc thread brass depressor.





■ ■ **CH-467BV-250**  
Ball valve type W/Low pressure gauge.



■ ■ **CH-468BV-250**  
Ball valve type W/CH-800-04PT sight glass & low pressure gauge.



■ ■ **CH-469-250**  
Piston type W/Low pressure gauge.

Above all Single Manifold without rubber protective boot. But you can choose to attach rubber protective boot, as sample picture.



■ ■ **SINGLE MANIFOLD ASSEMBLED**

Manifold Body made of aluminum, blue or black color can be chosen.



■ ■ **CH-467BV-500**  
Ball valve type W/High pressure gauge.



■ ■ **CH-468BV-500**  
Ball valve type W/CH-800-04PT sight glass & High pressure gauge.



■ ■ **CH-469-500**  
Piston type W/High pressure gauge.



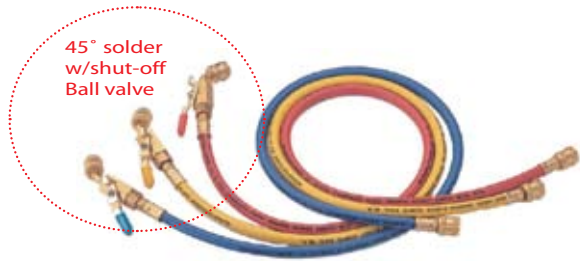
■ ■ **CH-470-250**  
Piston type W/CH-800-04PT sight glass & low pressure gauge.



■ ■ **CH-470-500**  
Piston type W/CH-800-04PT sight glass & High pressure gauge.



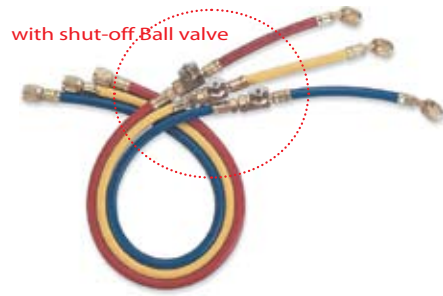
■ ■ **CH-466**  
Single manifold without gauge.  
■ ■ **CH-466G**  
Single manifold with RG-250 or RG-500 gauge.



45° solder w/shut-off Ball valve

1/4" SAE for R-134A

- ■ **CH-336RYB-SH**  
3pcs 36" hoses set. with shut-off ball valve.
- ■ **CH-360RYB-SH**  
3pcs 60" hoses set. with shut-off ball valve.
- ■ **CH-372RYB-SH**  
3pcs 72" hoses set. with shut-off ball valve.
- ■ **CH-396RYB-SH**  
3pcs 96" hoses set. with shut-off ball valve.



with shut-off Ball valve

1/4" SAE for R-134A.

- ■ **CH-336RYB-L**  
3pcs 36" hose set. with CH-15R/Y/B
- ■ **CH-360RYB-L**  
3pcs 60" hose set. with CH-15R/Y/B
- ■ **CH-372RYB-L**  
3pcs 72" hose set. with CH-15R/Y/B
- ■ **CH-396RYB-L**  
3pcs 96" hose set. with CH-15R/Y/B

## ■ ■ HOSE & SHUT-OFF BALL FOR R12/134/410

- connection thread can be 1/4" SAE, 5/16" SAE or 1/2" ACME.
- Special length or individual charging hose is available.



### ■ ■ CH-N408

Auto Air Conditioning Adapter for Audi,  
1/2 ACME. F. X 1/4 SAE. M.  
W/9520C valve core



### HOSE W/SHOT-OFF BALL VALVE

- ■ **CH-15R/Y/B-SH**  
1/4" male X 1/4" female
- ■ **CH-15R/Y/B-IT**  
5/16" male X 5/16" female



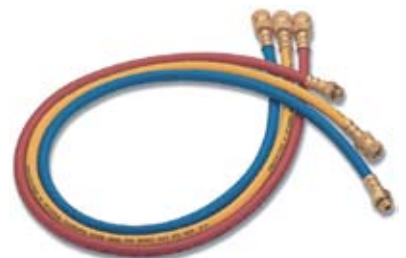
### ■ ■ CH-15R/Y/B HOSE W/SHUT-OFF BALL VALVE

Auto Conditioning hose with 3 different colors.  
For red, yellow or blue hose . Total length 15cm  
1/4" SAE M. X 1/4" SAE 45° for 5/16" SAE M.X.F.



1/4" SAE for R-12

- ■ **CT-336RYB** 3pcs 36" hose set.
- ■ **CT-360RYB** 3pcs 60" hose set.
- ■ **CT-372RYB** 3pcs 72" hose set.
- ■ **CT-396RYB** 3pcs 96" hose set.



1/2" ACME connection for R134A.

- ■ **CH-336RYB-M** 3pcs 36" hose set.
- ■ **CH-360RYB-M** 3pcs 60" hose set.
- ■ **CH-372RYB-M** 3pcs 72" hose set.
- ■ **CH-396RYB-M** 3pcs 96" hose set.

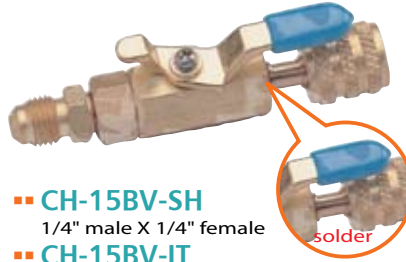


1/4" SAE for R-134A

- ■ **CH-336RYB-S** 3pcs 36" hose set.
- ■ **CH-360RYB-S** 3pcs 60" hose set.
- ■ **CH-372RYB-S** 3pcs 72" hose set.
- ■ **CH-396RYB-S** 3pcs 96" hose set.



## ■ SHUT-OFF VALVE FOR ANY TYPE OF FREON



■ CH-343-05 5/16"

■ CH-343-04 1/4"

■ CH-15BV-SH

1/4" male X 1/4" female

■ CH-15BV-IT

5/16" male X 5/16" female

\*CH-15BV-SH & CH-15BV-IT has red/yellow/blue rubber cap.\*

■ CH-15BV-SHA

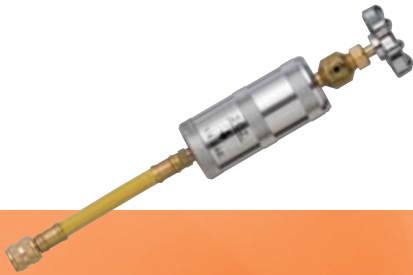
1/4" male X 1/4" male

■ CH-15BV-ITA

5/16" male X 5/16" male

\*CH-15BV-SHA & CH-15BV-ITA has red/ yellow/ blue rubber cap.\*

## ■ OIL/UV LEAK DETECTION INJECTOR

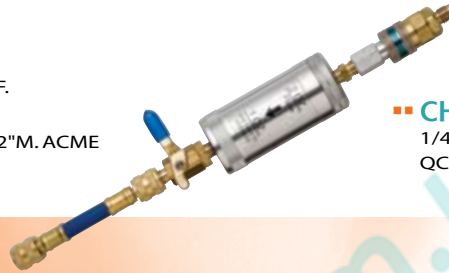


■ CH-345

1/4" F.F. x 1/4" M.F.

■ CH-346

1/2" F. ACME x 1/2" M. ACME



■ CH-347

1/4" M.F.W/SHUT-OFF BALL VALVE  
QC-12L Quick connect style

## ■ UV INSPECTION LAMP KIT



**NEW**

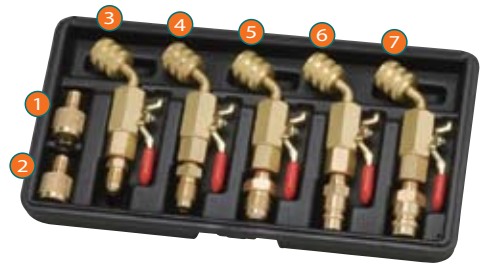
■ CH-035

- \*\*Waterproof
- \*\*Super bright 5UV-LEDs
- \*\*Auto Locked ON/OFF
- \*\*Safety Goggle Included
- \*\*Operated with 3xAAA battery
- \*\*Complete kit in a blow case

## ■ SHUT - OFF BALL VALVE FITTINGS / ADAPTERS

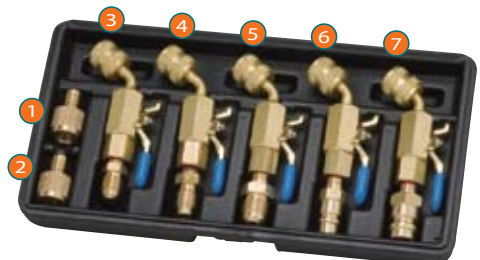
### ■ CH-16BV-SET

| Item No.             | Description                                     |
|----------------------|---|
| 1. CA-05 x 04 CV     | 5/16"F.SAE x 1/4"M.SAE W/Valve Core             |
| 2. CA-04 x 05 CV     | 1/4"F.SAE x 5/16"M.SAE W/Valve Core             |
| 3. CH-16BV - 04 x 05 | 1/4"M.SAE x 5/16" SAE 45° solder                |
| 4. CH-16BV - 08 x 05 | 1/2"M.ACME x 5/16" SAE 45° solder               |
| 5. CH-16BV - 06 x 05 | 3/8"M.SAE x 5/16" SAE 45° solder                |
| 6. CH-16BV - L x 05  | Quick Coupler Low side x 5/16" SAE. 45° solder  |
| 7. CH-16BV - H x 05  | Quick Coupler High side x 5/16" SAE. 45° solder |



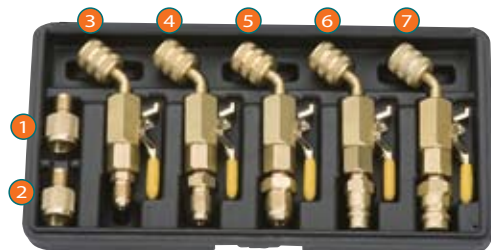
### ■ CH-17BV-SET

| Item No.             | Description                                    |
|----------------------|--|
| 1. CA-05 x 04 CV     | 5/16"F.SAE x 1/4"M.SAE W/Valve Core            |
| 2. CA-04 x 05 CV     | 1/4"F.SAE x 5/16"M.SAE W/Valve Core            |
| 3. CH-17BV - 05 x 04 | 5/16"M.SAE x 1/4" SAE 45° solder               |
| 4. CH-17BV - 08 x 04 | 1/2"M.ACME x 1/4" SAE 45° solder               |
| 5. CH-17BV - 06 x 04 | 3/8"M.SAE x 1/4" SAE 45° solder                |
| 6. CH-17BV - L x 04  | Quick Coupler Low side x 1/4" SAE. 45° solder  |
| 7. CH-17BV - H x 04  | Quick Coupler High side x 1/4" SAE. 45° solder |



### ■ CH-18BV-SET

| Item No.             | Description                                     |
|----------------------|---|
| 1. CA-05 x 04 CV     | 5/16"F.SAE x 1/4"M.SAE W/Valve Core             |
| 2. CA-04 x 05 CV     | 1/4"F.SAE x 5/16"M.SAE W/Valve Core             |
| 3. CH-18BV - 04 x 08 | 1/4"M.SAE x 1/2".F.ACME 45° solder              |
| 4. CH-18BV - 05 x 08 | 5/16"M.SAE x 1/2".F.ACME 45° solder             |
| 5. CH-18BV - 06 x 08 | 3/8"M.SAE x 1/2".F.ACME 45° solder              |
| 6. CH-18BV - L x 08  | Quick Coupler Low side x 1/2" ACME. 45° solder  |
| 7. CH-18BV - H x 08  | Quick Coupler High side x 1/2" ACME. 45° solder |



# HOSE-SEAL, GASDET&CORE KIT

## CH-236



## CH-237



## CH-238



| NO. | Item     | Q'TY | Description         |
|-----|----------|------|---------------------|
| 1   | CH-9520C | 10   | Valve Cores         |
| 2   | CH-9800  | 10   | R134 Valve Cores    |
| 3   | CH-L08   | 5    | 8mm Low Side        |
| 4   | CH-V066  | 5    | For Peugeot / Volvo |
| 5   | CH-H10   | 5    | 10mm High Side      |
| 6   | CH-GMH   | 5    | For GM High         |
|     | CH-1213P | 1    | Valve Core remover  |

| NO. | Item      | Q'TY | Description                |
|-----|-----------|------|----------------------------|
| 1   | CH-1213AL | 1    | Valve Core remover         |
| 2   | CH-9520C  | 10   | Valve Core                 |
| 3   | CH-9800   | 10   | R134 Valve Core            |
| 4   | OR9134-4  | 10   | R410 5/16" SAE HOSE GASKET |
| 5   | OR501-3   | 30   | R12 1/4" SAE HOSE GASKET   |
| 6   | OGB79583  | 10   | 1/4" SAE DEPRESSOR         |

| NO. | Item     | Q'TY | Description                        |
|-----|----------|------|------------------------------------|
| 1   | ORQCL-3  | 10   | for QC-L                           |
| 2   | ORQCH-3  | 10   | for QC-H                           |
| 3   | ORQC-3   | 10   | for QC-12L                         |
| 4   | ORQC-4   | 10   | for QC-12H                         |
| 5   | OR340-2  | 10   | for CH-340                         |
| 6   | OR146    | 10   | for CH-146<br>CA-04x06<br>CA-04x08 |
| 7   | ORVCR    | 10   | for VCR-04                         |
| 8   | OR501-3  | 15   | for R12 1/4" SEA HOSE GASKET       |
| 9   | OR9134-4 | 10   | for R410 5/16" SEA HOSE GASKET     |
| 10  | OR501-3H | 15   | for R134 1/4" SEA HOSE GASKET      |

# QUICK COUPLER FOR R12 & R134A & R410



**QC-12**  
High pressure & low pressure quick couplers fitted with 1/4" male flare hose thread.



**QC-13**  
High pressure & low pressure quick couplers fitted with 10mm x1.5/12mm x1.75



**QC-LM**  
Low pressure quick coupler fitted with 1/4" SAE connection

**QC-HM**  
High pressure quick coupler fitted with 1/4" SAE connection



**QC-L**  
Low pressure quick coupler fitted with 14mm female thread.



**QC-H**  
High pressure quick coupler fitted with 14mm female thread.



**QC-15**  
High pressure & low pressure quick couplers 90° fitted with 1/4" male thread. Specially suitable for small charging space or any angle charging.



**QC-16**  
High pressure & low pressure quick couplers 90° fitted with 14mm female thread. Specially suitable for small charging space or any angle charging.



**CH-146**  
Changeable adapter  
Switch to R134a  
Hose Thread

1pcs 10mm X 1.5 X 14mm X 1.5  
1pcs 12mm X 1.75 X 14mm X 1.5  
Switch to R12  
Hose Thread  
2pcs 1/4M.F X 14mm X 1.5



**CH-135**  
Auto charging adapters & hoses kit complete kit blister packing on a card.  
1/4" Mx1/4"F, 1/4" Mx3/16"F  
1/4" Mx1/8"F Adapter.  
Hose/B: 1/4"M x3/16"F  
Hose/R: 1/4"M x1/8"F

## CORE TOOL



**CH-1213**  
Steel material body



**CH-1213AL**  
Aluminum material body  
Steel material tube



**CH-1213P**  
Plastic Handle seat materia tube.  
Blister Packed for green\*1 & red\*1

## ■ PROTECTIVE GAUGE BOOTS



- **NO.ORGB-S**  
Blue protective gauge boot for 2-3/4" gauge dia.
- **NO.ORGR-S**  
Red protective gauge boot for 2-3/4" gauge dia.



- **NO.ORGB-L**  
Blue protective gauge boot for 80mm gauge
- **NO.ORGR-L**  
Red protective gauge boot for 80mm gauge

## ■ VACUUM METER GAUGE

**NEW**

- **RG-80VP**  
Vacuum pump 1000~0  
MBAR PA=X100



## ■ REFRIGERANT GAUGE



- **RG-250B**  
Pc cover low side 30 vacuum to 250 connection 2-3/4" dia, blue color. Scale for R12,R22, R134A, °C PSI, BAR



- **RG-250A**  
CLEAR PC CASE Pc cover clear Pc case low side,30 vacuum to 250Psi 1/8" NPT connection 2-3/4" dia, blue color. Scale for R12,R22, R134A,°C PSI,BAR.



- **RG-410-500**  
Pc cover low side 30 vacuum to 500 Psi, 2-3/4" dia. 1/8" NPT connection blue color. Scale for R410A°C 500 PSI & 35kg.



- **RG-500B**  
Pc cover high side to 500 psi 1/8" NPT connection 2-3/4" dia, blue color. Scale for R12,R22, R134A,°CPSI, BAR



- **RG-500A**  
CLEAR PC CASE Pc cover clear Pc case high side 500 psi, 1/8"NPT connection 2-3/4" dia, red color. scale for R122,R22 R134A,°C PSI, BAR.



- **RG-410-800**  
Pc cover high side to 800 psi 2-3/4" dia, 1/8" NPT connection, red color. Scale for R410A°C &°F 800 PSI & 55kg.



■ ■ **RG-250N**

Pc cover low side 30 vacuum to 250 psi 1/8" NPT connection 2-3/4" dia, blue color. Scale for R12,R22, R134A, °C PSI, Kg.or R12.22.134.404°C. BAR. KG/CM<sup>2</sup>



■ ■ **RG-500N**

Pc cover high side 0 to 500 psi 1/8" NPT connection 2-3/4" dia, red color. Scale for R12,R22, R134A, °C PSI, Kg. or R12.22.134.404 °C . B A R . KG/CM<sup>2</sup>

■ ■ **REFRIGERANT GAUGE**



■ ■ **RG-250GL**

Low side 30 vacuum to 250 psi 1/8" NPT connection 2-1/2" dia, with glycerine Filled Scale for R12.R22.134a or R12. R22.R502 Psi bar °C.



■ ■ **FRG-250**

Low side 30 vacuum to 250 psi 1/4" SAE connection, 2-3/4" dia °C



■ ■ **CH-134GL-250**

Low side 30 vacuum to 140 psi, 1/4" SAE connection, 2-3/4" dia with steel frame and glycerine filled scale for R12, 22, 502 or R12, 22,134a°C psi, bar.



■ ■ **RG-500GL**

High side 0 to 500 psi, 1/8" NPT connection, 2-1/2" dia, with glycerine Filled Scale for R12.R22.134a or R12.R22.R502 Psi bar °C



■ ■ **FRG-500**

High side 0 vacuum to 500 psi, 1/4" SAE connection, 2-3/4" dia °C



■ ■ **CH-134GL-500**

High side 30 vacuum to 430 psi, 1/4" SAE connection, 2-3/4" dia with steel frame and glycerine filled scale for R12. R22. R502 or R12. 22. 134a°C Psi, bar.



■ ■ CH-134L-80MM

Pc cover low side 80mm dia. 1/8" NPT.  
 °C PSI. BAR.KPAX100  
 R22,404,407,134A or  
 R22,134,410A,Psi,bar °c or  
 R410A °C, °F, Psi, bar, KPAX100



■ ■ CH-134H-80MM

Pc cover high side 80mm dia. 1/8" NPT.  
 °C PSI. BAR.KPAX100  
 R22,404,407,134A or  
 R22,134,410A,Psi,bar °c or  
 R410A °C, °F, Psi, bar, KPAX100

■ ■ REFRIGERANT GAUGE



■ ■ CH-134H

Pc cover high side  
 0 to 500 psi 1/8"  
 NPT connection  
 2-3/4" dia.  
 Scale for R134A,  
 404A, or R12, R22,  
 R502. °C or °F



■ ■ R-134G-500

Glass cover high  
 side 0 to 500 psi 1/8"  
 NPT connection  
 2-1/2" dia.  
 Scale for R12, R134A, °C



■ ■ RG-500

Pc cover high side  
 0 to 500 psi 1/8"  
 NPT connection  
 2-3/4" dia, red color.  
 Scale for R12, R22,  
 R134A, °C or °F,  
 PSI, KPA.



■ ■ CH-134L

Pc cover low side  
 30 vacuum to 250  
 psi 1/8" NPT  
 connection 2-3/4" dia.  
 Scale for R134A, 404A or  
 R12, R22, R502, °C or °F



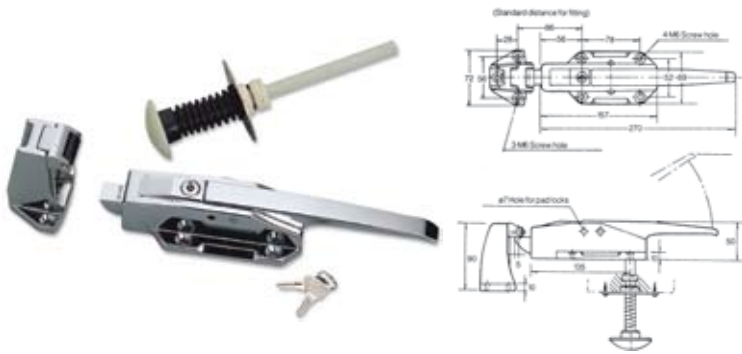
■ ■ R-134G-250

Glass cover low  
 side 30 vacuum to  
 250 psi 1/8" NPT  
 connection, 2-1/2" dia.  
 Scale for R12, R134A °C



■ ■ RG-250

Pc cover low side  
 30 vacuum to 250  
 psi 1/8" NPT  
 connection 2-3/4"  
 dia, blue color.  
 Scale for R12, R22, R134A,  
 °C or °F, PSI, KPA.



■ CH-1178

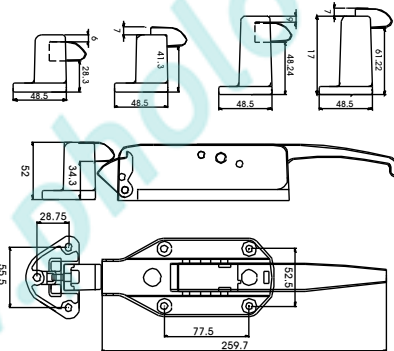
Material : High pressure die-cast zinc.  
 Finish : Highly polished chrome plated.  
 Packing : 1 body and strike per box. then 12 boxes per carton.  
 Offset : Adjustable height from 45.0mm to 70.0mm.  
 Action : Door of big or medium refrigerator.  
 Set include CT-1100 inside release handle.

**NEW** ■ CH-1178N  
 SAFTY HANDLE



■ LATCH HIGH QUALITY GALVANIZED LRON MATERIAL

■ CH-1179A ■ CH-1179B

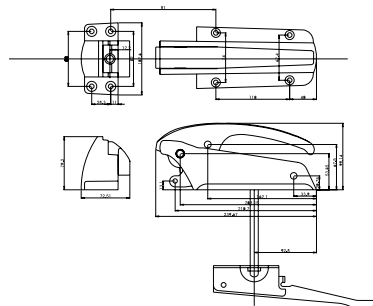


■ CH-1179

Material : High pressure die-cast zinc.  
 Finish : Highly polished chrome plated.  
 Packing : 1 body and strike per box. then 12 boxes per carton.  
 Offset : Adjustable height  
 A from 28mm to 41mm.  
 B from 48mm to 61mm.  
 Action : Door of big or medium refrigerator.  
 Set include CT-1100 inside release handle.

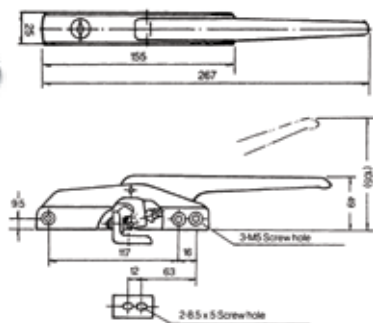
■ CH-5612

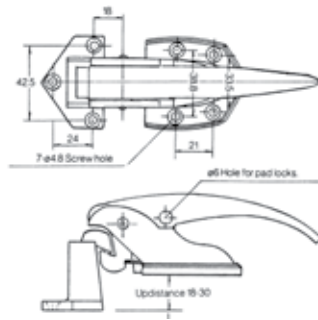
Complete with internal release handle  
 High pressure die-cast zinc  
 Chrome plated finish  
 Adjustable offset 16-32mm Suitable for large coolroom doors.



■ CH-1200B

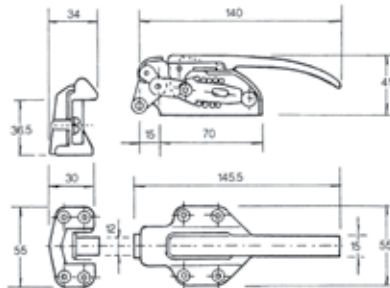
Material : High pressure die-cast zinc.  
 Finish : Highly polished chrome plated.  
 Packing : 1 body and strike per box. then 30 boxes per carton.  
 Offset : standard strike adjustable from 18. 0mm to 22.0mm.  
 Action : Door of big or medium refrigerator.





■ CH-1300

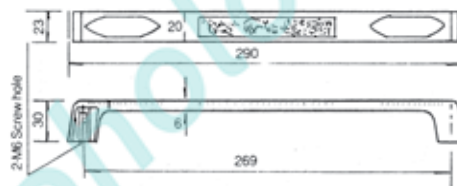
Material : High pressure die-cast zinc.  
 Finish : Highly polished chrome plated.  
 Packing : 50 pcs per carton.  
 Offset : Adjustable height  
 from 18.0mm to 32.0mm.  
 Action : Door of small refrigerator.



■ CH-1400B

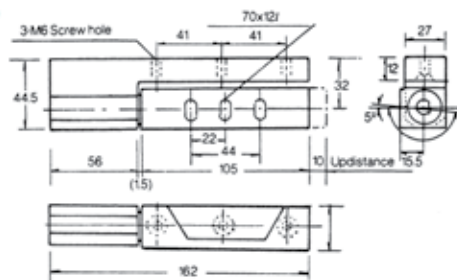
Material : High pressure die-cast zinc.  
 Finish : Highly polished chrome plated.  
 Packing : 50 pcs per carton.  
 Offset : Adjustable height  
 from 18.0mm to 32.0mm.  
 Action : Door of small refrigerator.

■ HING & LATCH HIGH QUALITY GALVANIZED IRON MATERIAL



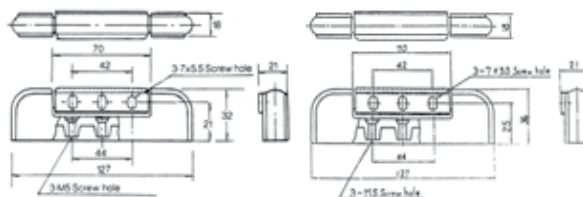
■ CH-1500

Material : High pressure die-cast zinc.  
 Finish : Highly polished chrome plated.  
 Packing : 50 pcs carton.  
 Speciality: Tapped for 6.0mm screw.  
 Action : Home or commercial  
 refrigerator handle.



■ CH-1132

Material : High pressure die-cast zinc.  
 Finish : Highly polished chrome plated.  
 Packing : 50 pcs (25 pairs) per carton.  
 Speciality: Self-closing, cam-lift hing  
 of left or right doors,  
 automatic close within  
 95° angle or stay open  
 beyond 120° angle.  
 Action : Light door of big or  
 medium refrigerator.

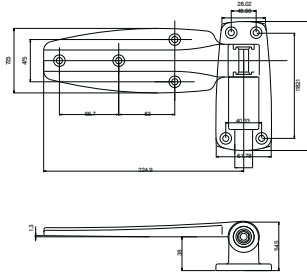


■1332

■1336

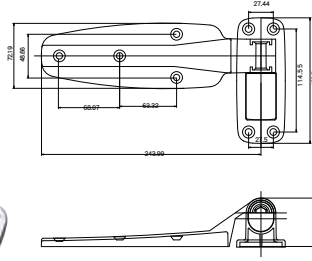
■ CH-1332 / CH-1336

Material : High pressure die-cast zinc.  
 Finish : Highly polished chrome plated.  
 Packing : 100 pcs (50 pairs) per carton.  
 Speciality: Install for left or right door.  
 Action : Various doors



#### ■ CH-1238S

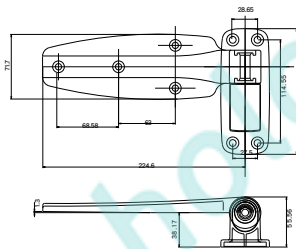
Material : High pressure die-cast zinc.  
 Finish : Highly polished chrome plated.  
 Packing : 20pcs (10 pairs) per carton.  
 Offset : Spring-assisted, self-closing high,  
 can be used for left or right handle door.  
 Automatic close within  
 120° angle or stay open beyond  
 120° angle 38mm height.  
 Action : Door of medium or small refrigerator.



#### ■ CH-1230N

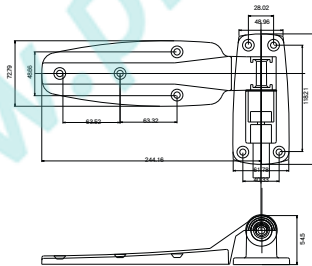
Material : High pressure die-cast zinc.  
 Finish : Highly polished chrome plated.  
 Packing : 20pcs (10 pairs) per carton.  
 Offset : Nylon-assisted,  
 Others are same as CH-1230S.  
 Action : Door of medium or small refrigerator.

### ■ HING HIGH QUALITY GALVANIZED IRON MATERIAL



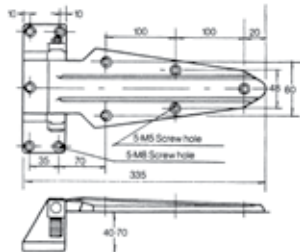
#### ■ CH-1238N

Material : High pressure die-cast zinc.  
 Finish : Highly polished chrome plated.  
 Packing : 20pcs (10 pairs) per carton.  
 Offset : Nylon-assisted,  
 Others are same as CH-1238S.  
 Action : Door of medium or small refrigerator.



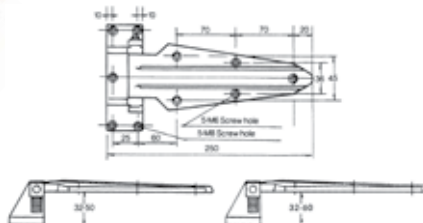
#### ■ CH-1230S

Material : High pressure die-cast zinc.  
 Finish : Highly polished chrome plated.  
 Packing : 20pcs (10 pairs) per carton.  
 Offset : Spring-assisted, used for door is  
 parallel with frame self-closing  
 high can be used for left or right  
 handle door automatic close within 120°  
 angle or stay open beyond 120°  
 Action : Door of medium or small refrigerator.



#### ■ CH-1470

Material : High pressure die-cast zinc.  
 Finish : Highly polished chrome plated.  
 Packing : 10 pairs per carton.  
 Action : Door of big refrigerator.  
 Offset : Adjustable height from 40mm  
 to 70mm.  
 Speciality: Same as CT-1450.



#### ■ CH-1450 / CH-1460

Material : High pressure die-cast zinc.  
 Finish : Highly polished chrome plated.  
 Packing : 15 pairs per carton.  
 Action : Door of medium refrigerator.  
 Offset : Adjustable height  
 CH-1450 from 32mm to 50mm  
 CH-1460 from 32mm to 60mm  
 Speciality: Can be used for left or right door.

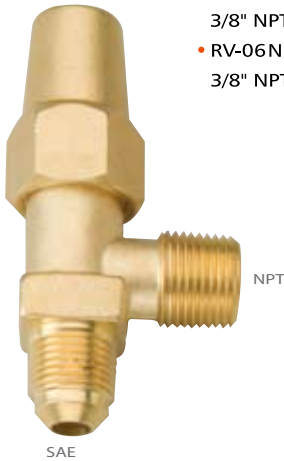
■ CH-1450

■ CH-1460



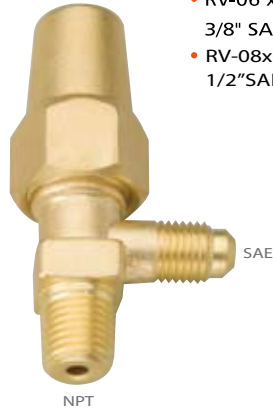
### RECEIVER VALVE

- RV-04NPT x 04M  
1/4" NPT x 1/4" SAE
- RV-06NPT x 04M  
3/8" NPT x 1/4" SAE
- RV-06NPT x 06M  
3/8" NPT x 3/8" SAE



### RECEIVER VALVE

- RV-04 x 04  
1/4" SAE x 1/4" NPT
- RV-04 x 06  
1/4" SAE x 3/8" NPT
- RV-06 x 06  
3/8" SAE x 3/8" NPT
- RV-08x08  
1/2" SAE x 1/2" NPT



### GAUGE VALVE

- GVS-04X02  
1/4 M x 1/8F. NPT



## SIGHT GLASS / SOLDER UNION / CAP TUBE WITH NUTS / ADAPTER



### SIGHT GLASS FLARE TYPE

- CT-800-04-1/4"
- CT-800-06-3/8"
- CT-800-08-1/2"
- CT-800-10-5/8"
- CT-800-12-3/4"



### SOLDER TYPE

- CT-801-04S-1/4"
- CT-801-06S-3/8"
- CT-801-08S-1/2"
- CT-801-10S-5/8"
- CT-801-12S-3/4"
- CT-801-14S-7/8"



### SOLDER W/EXT. TUBE

- CT-802-04-1/4"
- CT-802-06-3/8"
- CT-802-08-1/2"
- CT-802-10-5/8"
- CT-802-12-3/4"
- CT-802-14-7/8"



### MALE x FEMALE TYPE

- CT-803-04-1/4"
- CT-803-06-3/8"
- CT-803-08-1/2"
- CT-803-10-5/8"
- CT-803-12-3/4"



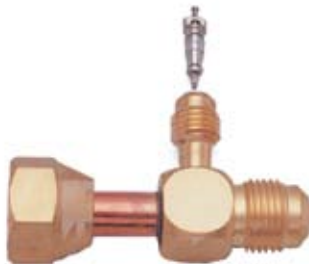
### SIGHT GLASS

- CT-800-04 x 02NPT  
1/4" SAE x 1/8" NPT
- CT-800-05X02NPT  
5/16" SAE x 1/8" NPT



### SOLDER UNION

- With 6cm or 10cm Extension copper tube, CH9520C valve core and VCR-04 or CT-640-04
- SU-02 1/8" O.D.
- SU-03 3/16" O.D.
- SU-04S 1/4" O.D. (Solder Union 6cm)
- SU-04L 1/4" O.D. (Solder Union 10cm)
- SU-05 5/16" O.D.
- SU-06 3/8" O.D.



### 3 WAY ADAPTER

- CH-689-04 x 06 1/4" M. x (3/8" M. x 3/8" F.) SAE
- CH-689-04 x 08 1/4" M. x (1/2" M. x 1/2" F.) SAE
- CH-689-04 x 10 1/4" M. x (5/8" M. x 5/8" F.) SAE



### CT-900M CAP TUBE WITH NUTS

The product is designed specially pressure indicating instruments for refrigeration industry. This capillary tube is 1/8" and two flared tube are 1/4" with two 1/4" copper nuts length is 90cm total.

\*\*\*Special length are also available.\*\*\*



### COMPRESSOR VALVE

Solder-type-forged brass body, the maximum working pressure is 500PSI, Tube Size: 3/4", 7/8", 1-1/8", the parts include one asbestos pad, two bolts. Distance of hole center: 44mm

### CH-307-3/4

match CH-307-1-1/8" for 7.5HP

### CH-307-7/8

match CH-307-1-1/8" for 3 or 5 or 7.5HP

### CH-307-1-1/8

match CH-413 for 10 or 15 or 20HP  
CH-415 for 30 or 40HP



### COMPRESSOR VALVE

Solder type forged brass body. Working pressure over 500psi.

### CH-413

1-3/8" O.D. Distance of hole center: 63mm

### CH-415

1-5/8" O.D.

## VALVE

### CHECK VALVE



#### FLARE TYPE

- CH - 6004 1/4" x 1/4"
- CH - 6005 5/16" x 5/16"
- CH - 6006 3/8" x 3/8"
- CH - 6008 1/2" x 1/2"
- CH - 6010 5/8" x 5/8"

#### SOLDER TYPE

- CH - 6004S 1/4" x 1/4"
- CH - 6005S 5/16" x 5/16"
- CH - 6006S 3/8" x 3/8"
- CH - 6008S 1/2" x 1/2"
- CH - 6010S 5/8" x 5/8"



### CAPPED VALVE FLARE

- CT-H-06-3/8"
- CT-H-08-1/2"
- CT-H-10-5/8"



### CAPPED VALVE SOLDER

- CT-HS-06-3/8"
- CT-HS-08-1/2"
- CT-HS-10-5/8"



### GLOBE VALVE

- CH-5007 7/8" O.D.
- CH-5011 1-1/8" O.D.
- CH-5013 1-3/8" O.D.
- CH-5015 1-5/8" O.D.



### HAND VALVE FLARE

- CT-D-04-1/4"
- CT-D-06-3/8"
- CT-D-08-1/2"
- CT-D-10-5/8"
- CT-D-12-3/4"



### HAND VALVE SOLDER

- CT-S-04-1/4"
- CT-S-06-3/8"
- CT-S-08-1/2"
- CT-S-10-5/8"
- CT-S-12-3/4"
- CT-S-14-7/8"

## ■ ■ SPLIT AIR-CONDITIONER VALVE



■ ■ CH-602-04 1/4"  
2way valve 1/4" inlet  
1/4" flare outlet



■ ■ CH-602-04S 1/4"  
■ ■ CH-603-06 3/8"  
■ ■ CH-604-08 1/2"  
■ ■ CH-605-10 5/8"

3way valve  
3/8" or 1/2" or 5/8" inlet  
3/8" or 1/2" or 5/8" flare  
outlet 1/4" charging inlet  
with valve core



■ ■ CH-606-12 3/4"  
■ ■ CH-607-14 7/8"  
3way valve 3/4" or 7/8" inlet  
3/4" or 7/8" flare outlet  
1/4" charging inlet with valve core

## ■ ■ CAN TAP VALVE / EXPAND VALVE



■ ■ CH-340  
Can Tap Valve Steel body, zinc handle, clamp type fits for flat and every kind connection thread refrigerant can.



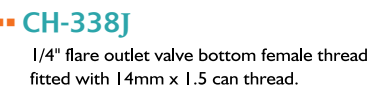
■ ■ CH-341  
Line Piercing Valve Fits 3/16" thru 3/8" O.D. and has 1/4" flare connection for charging hose.



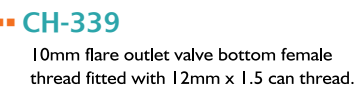
■ ■ CH-342  
Can Tap Valve Forged brass body, strong and no leaking. Specially for R134A can 1/2" ACME female X 1/2" ACME male.



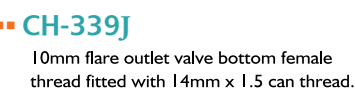
■ ■ CH-338  
1/4" flare outlet valve bottom female thread fitted with 12mm x 1.5 can thread.



■ ■ CH-338J  
1/4" flare outlet valve bottom female thread fitted with 14mm x 1.5 can thread.



■ ■ CH-339  
10mm flare outlet valve bottom female thread fitted with 12mm x 1.5 can thread.



■ ■ CH-339J  
10mm flare outlet valve bottom female thread fitted with 14mm x 1.5 can thread.



| TYPE  | Capacities (U.S. ton) | Connections (Inlet x Outlet) | Equalizer terminal | Heat Resistance              | Working Proof                             | Pressure Proof         | Superheat | Weight |
|-------|-----------------------|------------------------------|--------------------|------------------------------|---|------------------------|-----------|--------|
| 10002 | 1.5 TON               | Flare 3/8" x 1/2"            | internal           | G-charge 120°C 250°F         | high pressure side 30kg/cm <sup>2</sup> G | 40kg/cm <sup>2</sup> G | 0.5~7deg  | 140gr  |
| 10012 | 1.5 TON               | O-RING 5/16" x 1/2"          |                    | A-charge L-charge 80°C 175°F | low pressure side 17kg/cm <sup>2</sup> G  |                        |           |        |
| 10022 | 1.5 TON               | O-RING 3/8" x 1/2"           |                    |                              |   |                        |           |        |

## REFRIGERATION FLARED TUBE FITTINGS



### with valve core

- CT-627-04 x 02  
1/4" x 1/8" NPT
- CT-627-04 x 04  
1/4" x 1/4" NPT
- CT-629-05 x 02  
5/16" x 1/8" NPT



- MULTI SIZE SOLDER UNION
- CT-7000  
for 1/8", 3/16", 1/4", 5/16", 3/8", 1/2" O.D.  
tubing with valve core.



- CHARGING FITTING
- CT-628-04  
1/4" x 1/4" flare with valve core



- CT-682-04 x 02  
1/4" x 1/4" x 1/8" F. NPS
- CT-682-04 x 04  
1/4" x 1/4" x 1/4" F. SAE



- UT-04 -1/4"
- UT-06 -3/8"
- UT-08 -1/2"
- UT-10 -5/8"
- UT-12 -3/4"



- CT-672-04 x 02  
1/4" x 1/4" x 1/8" NPT
- CT-672-04 x 04  
1/4" x 1/4" x 1/4" NPT

## COPPER SEAL CAP



•• CS-14 -7/8"



•• CS-12 -3/4"



•• CS-10 -5/8"



•• CS-08 -1/2"



•• CS-06 -3/8"



•• CS-04 -1/4"

## CYLINDER ADAPTER



- CA-04 x 08  
1/4" M.F.(7/16-20 UNF)  
x M14 x 1.5 with o-ring

- CA-06 x 08  
3/8" M.F.(5/8-18 UNF)  
x M14 x 1.5 with o-ring



- CA-08 x 12  
1/2" flare x 3/4" PS.  
thread R12 use.

- CA-05 x 12  
1/2" ACME x 3/4" PS.  
thread R134A use.

- CA-04 x 12  
1/4" flare x 3/4" PS.  
thread R12 use.

- CA-03 x 12  
10mm x 3/4" PS.  
thread R134A use.



- CA-04 x 05  
1/4" flare male x 1/2"  
ACME female



- CA-05 x 04  
1/2" ACME male x 1/4"  
flare female



### SAFETY PLUG

The filled tin alloy will be fusible when system temperature is higher than 76°C/168°F or 100°C/212°F. Recommend for safety factor.

- CH-02 1/8" NPT
- CH-04 1/4" NPT
- CH-06 3/8" NPT

## FEMALE SWIVEL ELBOW



- CT-679-06 x 06  
3/8" x 3/8"
- CT-679-08 x 08  
1/2" x 1/2"
- CT-679-10 x 10  
5/8" x 5/8"



### 90° ELBOW

- ME-04 x 02  
1/4" flare x 1/8" NPT
- ME-06 x 06  
3/8" flare x 3/8" NPT
- ME-04 x 04  
1/4" flare x 1/4" NPT
- ME-08 x 08  
1/2" flare x 1/2" NPT



### ADAPTER 90° SWIVEL

- CT-10 1/4" male x 1/4" female
- CT-11 1/4" male x 3/16" female
- CT-12 1/4" male x 1/8" female
- CT-13 5/16" male x 5/16" female



### UNION ELBOW

- | Item No. | Tube O.D.IN |
|----------|-------------|
| •• UE-04 | 1/4" x 1/4" |
| •• UE-06 | 3/8" x 3/8" |
| •• UE-08 | 1/2" x 1/2" |
| •• UE-10 | 5/8" x 5/8" |
| •• UE-12 | 3/4" x 3/4" |



### PLUG

| Item NO. | Tube O.D.IN |
|----------|-------------|
| P-04     | 1/4         |
| P-05     | 5/16        |
| P-06     | 3/8         |
| P-08     | 1/2         |
| P-10     | 5/8         |
| P-12     | 3/4         |

### UNION

| Item NO. | Tube O.D.IN |
|----------|-------------|
| U-04     | 1/4         |
| U-05     | 5/16        |
| U-06     | 3/8         |
| U-08     | 1/2         |
| U-10     | 5/8         |
| U-12     | 3/4         |

### REDUCING UNION

| Item NO.   | Tube O.D.IN |
|------------|-------------|
| RU-04 X 10 | 1/4 X 5/8   |
| RU-05 X 04 | 5/16 X 1/4  |
| RU-06 X 04 | 3/8 X 1/4   |
| RU-08 X 04 | 1/2 X 1/4   |
| RU-08 X 06 | 1/2 X 3/8   |
| RU-10 X 06 | 5/8 X 3/8   |
| RU-10 X 08 | 5/8 X 1/2   |
| RU-12 X 08 | 3/4 X 1/2   |
| RU-12 X 10 | 3/4 X 5/8   |

### MALE CONNECTOR

| Item No.   | Tube O.D.IN NPT |
|------------|-----------------|
| MC-04 x 02 | 1/4 x 1/8       |
| MC-04 x 04 | 1/4 x 1/4       |
| MC-04 x 06 | 1/4 x 3/8       |
| MC-04 x 08 | 1/4 x 1/2       |
| MC-05 x 04 | 5/16 x 1/4      |
| MC-06 x 04 | 3/8 x 1/4       |
| MC-06 x 06 | 3/8 x 3/8       |
| MC-06 x 08 | 3/8 x 1/2       |
| MC-08 x 06 | 1/2 x 3/8       |
| MC-08 x 08 | 1/2 x 1/2       |
| MC-08 x 12 | 1/2 x 3/4       |
| MC-10 x 12 | 5/8 x 3/4       |
| MC-10 x 08 | 5/8 x 1/2       |
| MC-12 x 12 | 3/4 x 3/4       |

### REDUCER

| Item NO.  | Tube OD IN |
|-----------|------------|
| R-04 X 05 | 1/4 x 5/16 |
| R-04 X 06 | 1/4 X 3/8  |
| R-04 X 08 | 1/4 X 1/2  |
| R-05 X 04 | 5/16 X 1/4 |
| R-06 X 04 | 3/8 X 1/4  |
| R-06 X 05 | 3/8 x 5/16 |
| R-06 X 08 | 3/8 X 1/2  |
| R-06 X 10 | 3/8 X 5/8  |
| R-08 X 04 | 1/2 X 1/4  |
| R-08 X 06 | 1/2 X 3/8  |
| R-08 X 10 | 1/2 X 5/8  |
| R-10 X 06 | 5/8 X 3/8  |
| R-10 X 08 | 5/8 X 1/2  |
| R-10 X 12 | 5/8 X 3/4  |
| R-12 X 08 | 3/4 X 1/2  |
| R-12 X 10 | 3/4 X 5/8  |

## BRASS NUT



### LONG NUT

| Item NO. | Tube O.D.IN |
|----------|-------------|
| SNI-04   | 1/4         |
| SNI-05   | 5/16        |
| SNI-06   | 3/8         |
| SNI-08   | 1/2         |
| SNI-10   | 5/8         |
| SNI-12   | 3/4         |

### SHORT NUT

| Item NO. | Tube O.D.IN |
|----------|-------------|
| SN2-04   | 1/4         |
| SN2-05   | 5/16        |
| SN2-06   | 3/8         |
| SN2-08   | 1/2         |
| SN2-10   | 5/8         |

### SWIVEL NUT

| Item NO.   | Outlet O.D.IN | Tube O.D.IN |
|------------|---------------|-------------|
| RN-03 X 04 | 3/16 X        | 1/4         |
| RN-04 X 06 | 1/4 X         | 3/8         |
| RN-06 X 08 | 3/8 X         | 1/2         |
| RN-08 X 10 | 1/2 X         | 5/8         |
| RN-10 X 12 | 5/8 X         | 3/4         |

### STRONG SHORT NUT

| Item NO. | Tube O.D.IN |
|----------|-------------|
| N-04     | 1/4         |
| N-06     | 3/8         |
| N-08     | 1/2         |
| N-10     | 5/8         |

### FORGED NUT

| Item NO. | Tube O.D.IN |
|----------|-------------|
| N-10     | 5/8         |
| N-12     | 3/4         |
| N-14     | 7/8         |



### CAP NUT

| Item NO. | Tube O.D.IN |
|----------|-------------|
| CN-04    | 1/4         |
| CN-05    | 5/16        |
| CN-06    | 3/8         |
| CN-08    | 1/2         |
| CN-10    | 5/8         |
| CN-12    | 3/4         |

### VALVE CORE

|        |        |
|--------|--------|
| VCR-04 | -1/4"  |
| VCR-05 | -5/16" |

### FLARE CAP

|           |        |
|-----------|--------|
| CT-640-04 | -1/4"  |
| CT-640-05 | -5/16" |

### FEMALE CONNECTOR

| Item No.   | Tube O.D.IN NPS |
|------------|-----------------|
| FC-04 x 02 | 1/4 x 1/8       |
| FC-04 x 04 | 1/4 x 1/4       |
| FC-04 x 06 | 1/4 x 3/8       |

### FLARE TO SOLDER UNION

| Item NO.    | Tube O.D.IN | Item NO.    | Tube O.D.IN |
|-------------|-------------|-------------|-------------|
| FSU-04 X 04 | 1/4 X 1/4   | FSU-08 X 10 | 1/2 X 5/8   |
| FSU-04 X 06 | 1/4 X 3/8   | FSU-10 X 06 | 5/8 X 3/8   |
| FSU-06 X 04 | 3/8 X 1/4   | FSU-10 X 08 | 5/8 X 1/2   |
| FSU-06 X 06 | 3/8 X 3/8   | FSU-10 X 10 | 5/8 X 5/8   |
| FSU-06 X 08 | 3/8 X 1/2   | FSU-12 X 08 | 3/4 X 1/2   |
| FSU-08 X 06 | 1/2 X 3/8   | FSU-12 X 10 | 3/4 X 5/8   |
| FSU-08 X 08 | 1/2 X 1/2   | FSU-12 X 12 | 3/4 X 3/4   |



## REFRIGERANT ACCUMULATOR & DOUBLE TUBE CONDENSER

### INSTALLATION INSTRUCTIONS

- Vertically mounted only.
- Install as close to the compressor as possible.
- Suction line from evaporator into inlet connection installed to suction line of compressor.
- Reverse cycle systems required. Accumulator to be installed between the compressor and the reversing valve.
- Keep direct flame away from fusible relief device while soldering connections.
- Safe working pressure-450 PSIG.

Maximum recommended actual tons based on pressure drop through accumulator equivalent to 1/2" F  
Minimum recommended actual tons based on minimum flow through accumulator necessary to insure positive oil return.  
All data is based on actual tons and bears no relationship to horsepower.  
Minimum evaporator temperature-40°F.  
Minimum suction gas temperature through accumulator +10°F.



| Item NO. | Size Conv. ODE | B Length Inches | A Dia. Inches |
|----------|----------------|-----------------|---------------|
| RA-204   | 1/2            | 8               | 4             |
| RA-205   | 5/8            | 10-5/8          | 4             |
| RA-206   | 3/4            | 9               | 5-1/2         |
| RA-207   | 7/8            | 12              | 5-1/2         |
| RA-208   | 1-1/8          | 15              | 6-1/2         |
| RA-209   | 1-3/8          | 20              | 6-1/2         |
| RA-210   | 1-5/8          | 22              | 6-1/2         |
| RA-221   | 2-1/8          | 29              | 8-5/8         |

DOUBLE TUBE CONDENSER  
R-12, R-22, R-502 Safe working pressure-500 PSIG.



| Item NO. | Flow capacity tons | Cooper tubing connection |               |                  |               | Overall dimensions (inches) |            |           |                           |
|----------|--------------------|--------------------------|---------------|------------------|---------------|-----------------------------|------------|-----------|---------------------------|
|          |                    | Refrigerant              |               | Water            |               | Body Length (L)             | Height (D) | Width (W) | Approx. water tube length |
|          |                    | Tube size in/out         | Wall (inches) | Tube size in/out | Wall (inches) |                             |            |           |                           |
| DT-5201  | 1                  | 3/8" OD                  | 0.28          | 1/2" OD          | 0.28          | 9-3/4"                      | 6"         | 8-1/4"    | 3/4" OD x 132"            |
| DT-5202  | 2                  | 3/8" OD                  | 0.28          | 1/2" OD          | 0.28          | 11-1/2"                     | 9"         | 8-1/4"    | 3/4" OD x 138"            |
| DT-5203  | 3                  | 1/2" OD                  | 0.28          | 3/4" OD          | 0.28          | 12-3/4"                     | 11-1/2"    | 9-2/4"    | 7/8" OD x 175"            |
| DT-5205  | 5                  | 5/8" OD                  | 0.35          | 1" OD            | 0.45          | 17-3/4"                     | 14-1/2"    | 14-1/2"   | 7/8" OD x 348"            |

## OIL SEPARATOR & REPLACEABLE CORE TYPE DRIER

### CD-1101



These devices offer the flexibility of using either replaceable filter cores as protection against solid. Contaminants, or replaceable filter-drier blocks for protection against acid, moisture, and solids. They provide high liquid line flow capacities for larger air-conditioning and refrigeration jobs. Some key features of the demountable series:

- \* Simplified internal hardware for easy installation.
- \* Full flow fittings for low pressure drop.
- \* Corrosion-resistant epoxy paint finish.
- \* Sturdy steel shells for long life durability.
- \* Safe working pressure-500 PSIG.
- \* Burst pressure-2500 PSIG.

### S-5200



Separator's function is to help refrigeration and air conditioning systems operate more efficiently and save energy. In any refrigeration system, refrigerant and oil are always present. Certain amounts of oil will always leave the compressor crank-case with refrigerant gas. The oil separator separates the oil from the refrigerant and returns it to the compressor crank-case before it can enter other components of the system. The less oil in circulation in a refrigeration system, the more refrigerant available for cooling, this increases the efficiency of a system by reducing running time and lowering operating cost. Safe working pressure-450PSIG.

| Item NO. | Conn-ection Type | Dimen A  | Dimen B  |
|----------|------------------|----------|----------|
| CD-1101  | 3/4ODF           | 8-3/4    | 5-1/2    |
| CD-1102  | 7/8ODF           | 8-7/8    | 5-5/8    |
| CD-1103  | 1-1/8ODF         | 9-3/16   | 5-15/16  |
| CD-1104  | 1-3/8ODF         | 9-5/16   | 6        |
| CD-1105  | 1-5/8ODF         | 9-9/16   | 6-1/4    |
| CD-1106  | 2-1/8ODF         | 9-9/16   | 6-1/4    |
| CD-2202  | 7/8ODF           | 14-1/2   | 11-1/4   |
| CD-2203  | 1-1/8ODF         | 14-13/16 | 11-9/16  |
| CD-2204  | 1-3/8ODF         | 14-13/16 | 11-9/16  |
| CD-2205  | 1-5/8ODF         | 14-5/16  | 11-11/16 |
| CD-2206  | 2-1/8ODF         | 15-7/6   | 12-3/6   |
| CD-3303  | 1-1/8ODF         | 20-3/8   | 17-1/8   |
| CD-3304  | 1-3/8ODF         | 20-3/8   | 17-1/8   |
| CD-3305  | 1-5/8ODF         | 20-1/2   | 17-1/4   |
| CD-3306  | 2-1/8ODF         | 21       | 17-3/4   |
| CD-4404  | 1-3/8ODF         | 25-13/16 | 22-9/16  |
| CD-4405  | 1-5/8ODF         | 26-13/16 | 22-11/16 |
| CD-4406  | 2-1/8ODF         | 26-7/19  | 23-3/6   |

### Dimensions-Inches

| Item NO. | DCI NO. | Size Conn. | Length. | DIA. Inches |
|----------|---------|------------|---------|-------------|
| S-5200   | 5201S   | 1/2ODS     | 7-1/2   | 4           |
|          | 5201    | 1/2ODS     | 10-1/4  |             |
|          | 5202    | 5/8ODS     | 14-1/4  |             |
|          | 5203    | 7/8ODS     | 16-3/4  |             |
|          | 5204    | 1-1/8ODS   | 18      |             |
| S-5300   | 5205    | 1-3/8ODS   | 19      | 4           |
|          | 5302    | 1/2ODS     | 10-1/4  |             |
|          | 5303    | 5/8ODS     | 14-1/4  |             |
|          | 5304    | 7/8ODS     | 16-3/4  |             |
|          | 5305    | 1-1/8ODS   | 18      |             |
| S-6200   | 5306    | 1/3/8ODS   | 19      | 6           |
|          | 5307    | 1-5/8ODS   | 19      |             |
|          | 6202    | 1-1/8ODS   | 14-1/2  |             |
|          | 6203    | 1-3/8ODS   | 16      |             |
| S-6300   | 6204    | 1-5/8ODS   | 17-1/4  | 6           |
|          | 6205    | 2-1/8ODS   | 19      |             |
|          | 6302    | 1-1/8ODS   | 14-1/2  |             |
|          | 6303    | 1-3/8ODS   | 16      |             |
|          | 6304    | 1-5/8ODS   | 17-1/4  | 6           |
|          | 6305    | 2-1/8ODS   | 19      |             |

## REFRIGERATION RECEIVER & HEAT-EXCHANGER



Vertical receivers supply you with best choice for your refrigeration system which the receivers needed vertical mount. They offer 500 p.s.i.g. safe working pressure. Refer to the specification while ordering. Each size has up outlet and down outlet. General use is up outlet model.

| Item NO. | Dimension (inches) |        | Connection size |      |
|----------|--------------------|--------|-----------------|------|
|          | DIA.               | H.     | IN.             | OUT. |
| CR-101   | 3-3/8              | 8-3/4  | 3/8             | 1/4  |
| CR-102   | 5                  | 9-5/8  | 3/8             | 3/8  |
| CR-103   | 5                  | 11-1/2 | 3/8             | 3/8  |
| CR-104   | 6                  | 13-3/4 | 1/2             | 1/2  |
| CR-105   | 7                  | 17     | 5/8             | 5/8  |
| CR-106   | 6-1/2              | 20-7/8 | 3/4             | 3/4  |
| CR-107   | 6-1/2              | 28-3/4 | 7/8             | 7/8  |



Offers the complete line of strong construction of suction accumulators which provide you with the largest capacity of protection against rust. All heat exchanger-Suction accumulators are complete with RR362 fusible plug installed. Please refer to the specifications listed below while ordering.

| Item NO. | DIA inch | Length inches. | Suction Line I.D. | Liquid Line I.D. |
|----------|----------|----------------|-------------------|------------------|
| SAV-2404 | 4        | 7              | 1/2               | 3/8              |
| SAV-2405 | 4        | 10-5/8         | 5/8               | 3/8              |
| SAV-2406 | 5-1/2    | 10             | 3/4               | 3/8              |
| SAV-2407 | 5-1/2    | 13             | 7/8               | 1/2              |
| SAV-2411 | 6-1/2    | 14             | 1-1/8             | 5/8              |
| SAV-2413 | 6-3/4    | 20             | 1-3/8             | 5/8              |
| SAV-2415 | 6-3/4    | 24             | 1-5/8             | 3/4              |
| SAV-2417 | 8-5/8    | 25             | 2-1/8             | 7/8              |

## OVEN THERMOMETER



OT221  
50~300°C



OT221-N  
10~260°C  
50~500°F

## REFRIGERATOR / FREEZER THERMOMETER



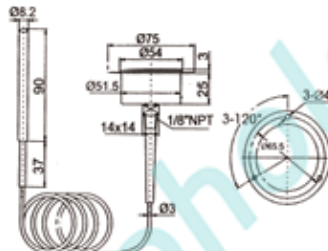
**NEW**

RT-221  
2-1/2" stainless steel case.  
Temperature Range: -30/30°C & -20/80°F

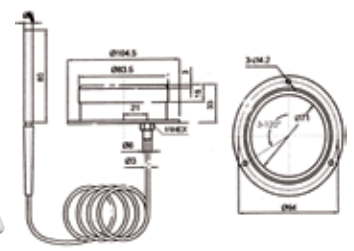
## PRESSURE THERMOMETER



200RF21011  
2" THERMOMETER WITH INTERGRATED SPRING CLIPS+ADAPTER HOUSING FOR 3 POSSIBILITIES TO MOUNT  $\phi$ 60mm  
CASE : ABS WHITE, BACK ADJUSTMENT  
RANGE : -40~-40°C , -40~100°F



300RF22011  
3" THERMOMETER WITH INTERGRATED SPRING CLIPS+ADAPTER HOUSING FOR 3 POSSIBILITIES TO MOUNT  $\phi$ 80mm  
CASE : ABS WHITE, BACK ADJUSTMENT  
RANGE : -40~-40°C , -40~100°C



## POCKET & DIGITAL THERMOMETER



CH-1005C  
1" dial, 5" S.S.  
Stem with pocket clip case.  
Temperature Range:  
-40/70°C , -10/100°C,  
0/250°C , -40/100°F,  
0/220°F



CH-1415  
-58/302°F, -50/150°C Switchable  
1-1/4" Dia, 5" S.S. Stem  
With Pocket Clip Case.  
2 Push Button (ON/OFF)  
Battery Power Capacity Display  
Normal Mode is 10 Seconds per Display  
1 Second Update when Hold  
Button of "ON"

CH-1415P  
-50~-150°C  
-58~-302°F



CH-143  
1-3/4" DIAL, 5" S.S.  
stem with pocket clip case.  
Temperature Range:  
Dual seale:  
-40/70°C & -40/160°F or  
-10/110°C & 0/220°F



CH-1001C  
-40°C~70°C  
48" Wire sensor  
Thermometer Works by Solar Power and With a Easy Replace Battery to Provide Power Once Light Level Decreased.

## ■ FILTER DRIER

Charged with XH9 molecular sieve strongly moisture absorb and can be for R12,22,502 and R134A



| PART NO. | Fittings   | Diameter(mm) | Length(mm) |
|----------|------------|--------------|------------|
| CH-032   | 1/4"Flare  | 42           | 112        |
| CH-052   | 1/4"Flare  | 58           | 119        |
| CH-083   | 3/8"Flare  | 58           | 156        |
| CH-084   | 1/2"Flare  | 58           | 169        |
| CH-163   | 3/8"Flare  | 58           | 176        |
| CH-164   | 1/2"Flare  | 58           | 184        |
| CH-165   | 5/8"Flare  | 58           | 195        |
| CH-089   | 3/8"MF     | 89           | 253        |
| CH-052S  | 1/4"solder | 58           | 104        |
| CH-083S  | 3/8"solder | 58           | 123        |
| CH-164S  | 1/2"solder | 58           | 155        |
| CH-165S  | 5/8"solder | 58           | 155        |

| PART NO. | Fittings   | Diameter(mm) | Length(mm) |
|----------|------------|--------------|------------|
| FD-052   | 1/4"Flare  | 63           | 123        |
| FD-053   | 3/8"Flare  | 63           | 135        |
| FD-083   | 3/8"Flare  | 63           | 155        |
| FD-164   | 1/2"Flare  | 63           | 200        |
| FD-165   | 5/8"Flare  | 63           | 211        |
| FD-052S  | 1/4"solder | 63           | 119        |
| FD-083S  | 3/8"solder | 63           | 145        |
| FD-164S  | 1/2"solder | 63           | 193        |
| FD-165S  | 5/8"solder | 63           | 194        |

## ■ PRESSURE SWITCH



| PART NO. | TYPE               | PRESSURE RANGE kg/cm <sup>2</sup> |         |                  | HEAT RESISTANCE | WORKING PRESSURE     | PRESSURE SUREPORT    | VOLTAGE INDUCTIVE LOAD | PRERIGERANT |
|----------|--------------------|-----------------------------------|---------|------------------|-----------------|----------------------|----------------------|------------------------|-------------|
|          |                    | LOW=02                            | MID±0.5 | HGH±2            |                 |                      |                      |                        |             |
| 20100    | LOW MALE SWITCH    | 2.1                               | . .     | . .              | 100°C           | 30Kg/cm <sup>2</sup> | 45Kg/cm <sup>2</sup> | DC12V3.5A              | R12         |
| 20200    | BINARY MALE SWITCH | 2.1                               | . .     | 26.5             | 100°C           | 30Kg/cm <sup>2</sup> | 45Kg/cm <sup>2</sup> | DC12V3.5A              | R12         |
| 20210    | BINARY MALE SWITCH | 2.1                               | . .     | 24               | 100°C           | 30Kg/cm <sup>2</sup> | 45Kg/cm <sup>2</sup> | DC12V3.5A              | R12         |
| 23202    | BINARY MALE SWITCH | 2.1                               | . .     | 32               | 100°C           | 30Kg/cm <sup>2</sup> | 45Kg/cm <sup>2</sup> | DC12V3.5A              | R134A       |
| 23203    | BINARY MALE SWITCH | 2.1                               | . .     | 28               | 100°C           | 30Kg/cm <sup>2</sup> | 45Kg/cm <sup>2</sup> | DC12V3.5A              | R134A       |
| 23204    | BINARY MALE SWITCH | 2.1                               | . .     | 27               | 100°C           | 30Kg/cm <sup>2</sup> | 45Kg/cm <sup>2</sup> | DC12V3.5A              | R134A       |
| 23205    | BINARY MALE SWITCH | 2.1                               | . .     | 32               | 100°C           | 30Kg/cm <sup>2</sup> | 45Kg/cm <sup>2</sup> | DC12V3.5A              | R134A       |
| 23206    | BINARY MALE SWITCH | 2.1                               | . .     | 26.5             | 100°C           | 30Kg/cm <sup>2</sup> | 45Kg/cm <sup>2</sup> | DC12V3.5A              | R12         |
| 23207    | BINARY MALE SWITCH | 2.1                               | . .     | 24               | 100°C           | 30Kg/cm <sup>2</sup> | 45Kg/cm <sup>2</sup> | DC12V3.5A              | R12         |
| 23208    | BINARY MALE SWITCH | 2.1                               | . .     | 28               | 100°C           | 30Kg/cm <sup>2</sup> | 45Kg/cm <sup>2</sup> | DC12V3.5A              | R134A       |
| 23209    | BINARY MALE SWITCH | 2.1                               | . .     | 32               | 100°C           | 30Kg/cm <sup>2</sup> | 45Kg/cm <sup>2</sup> | DC12V3.5A              | R134A       |
| 30020    | RELAY              | 12V                               | 20A     | 200A MAX CURRENT |                 | 500V UP INSULATING   |                      |                        |             |
| 30021    | RELAY              | 12V                               | 20A     | 200A MAX CURRENT |                 | 500V UP PROPERTY     |                      |                        |             |



■ YL-5041  
Fan Switch



■ YL-4301  
Solenoid Valve



■ YL-6602  
NOMINAL VOLTAGE:DC 12V  
LOAD: 1A  
CUURRENT: 0.2V  
A/TYPE: DC 12V  
B/TYPE: DC 24V

\*\*\*Special length are also available.\*\*\*