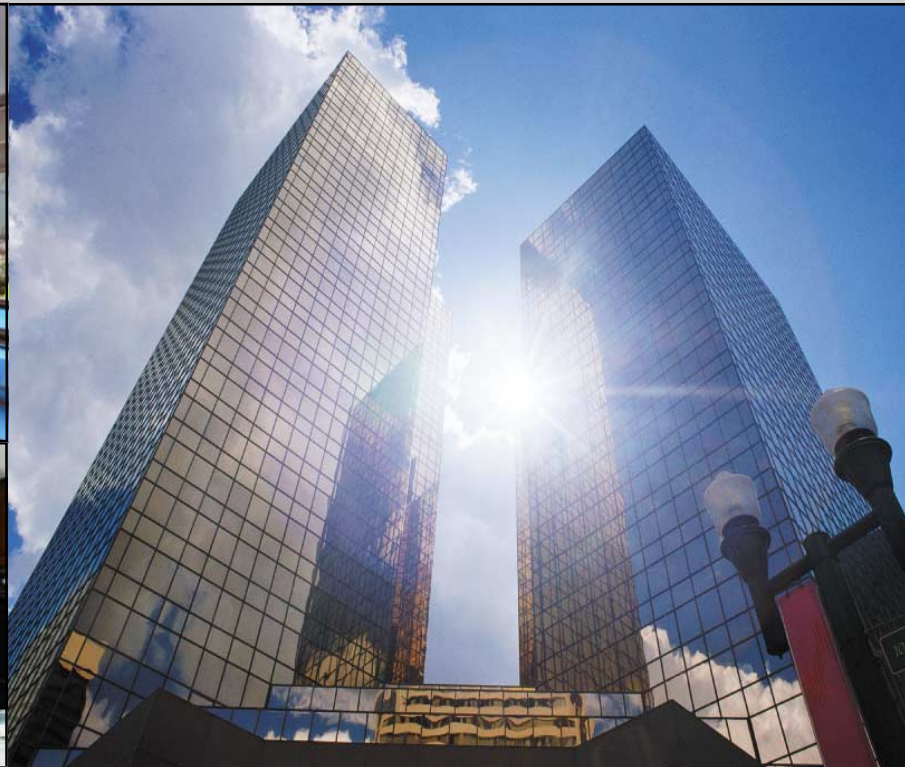


anything  Possible.™

# Air Conditioning & Refrigeration

Master Catalog

Catalog CIC-2003-1/USA  
April 2003



## Couplings Table of Contents

Introduction to Parker Couplings ..... page 77

### System Couplings

5400 Series Self-Sealing Steel Couplings ..... page 78

5500 Series Self-Sealing Brass Couplings ..... page 84

5700 Series One-Shot™ Brass Couplings ..... page 93

RC04 Series Dual-Line ConnectAire™ Couplings ..... page 100

### Process Couplings

RC01C Series Automotive (R134a) Couplings ..... page 103

RC05 Multi-Purpose Process Couplings ..... page 105

FD57 Series Stub Kit Couplings ..... page 106



## Introduction to Parker Couplings

Parker Hannifin has the broadest Coupling Product offering in the market. Whether it's Quick Connect, Self-Sealing upon disconnection, Brass or Steel Material, Parker has what you need. With applications ranging from room air-conditioners to cryogenic pumps, Parker has the product you are looking for.

This complete line approach allows Parker to develop Value-Added Assemblies that will reduce SKUs and decrease overall tack time. Combine this with the outstanding services Parker offers and anything is possible.

### The Parker Advantage

- Broadest product line
- Technology leader
- Value-Added Assembly
- E-Commerce
- Supply chain management



**5500 Series  
Self-Sealing  
Brass Couplings**



**RC05 Series Multi-Purpose  
Process Couplings**

**5700 Series One-Shot™  
Brass Coupling**



**Female Coupling Half**

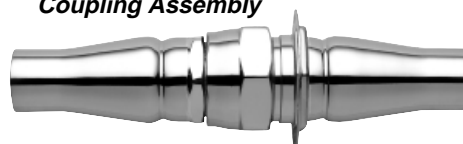


**Male Coupling Half**



**RC01C Series Automotive  
R134A Process Couplings**

**Coupling Assembly**



Couplings

## 5400 Series Self-Sealing Steel Couplings

Parker's 5400 Self-Sealing Steel Couplings are used in fluid-transfer applications for easy maintenance on refrigeration and air conditioning systems. Applications can also include marine refrigeration and air conditioning systems, along with cryogenic units.

### Applications

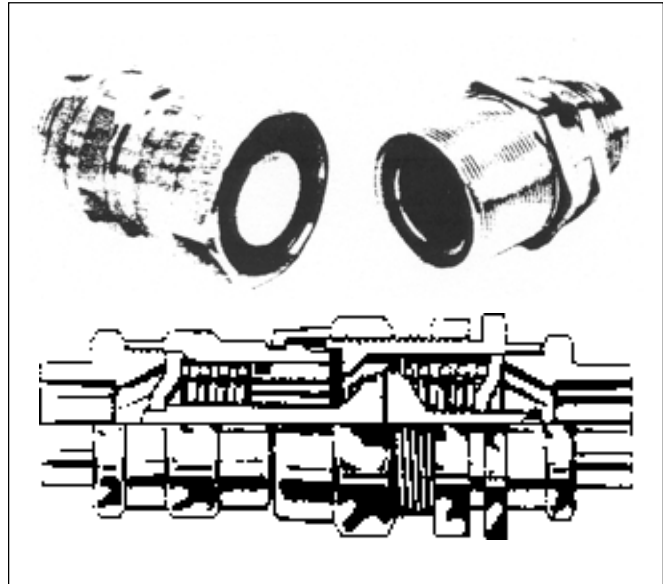
- General fluid-transfer applications
- Marine refrigerant and air conditioning systems
- Cryogenic systems

### Base Product Part Number

- 5400-S2 Male coupling half
- 5400-S5 Female coupling half

### Features and Benefits

- Self-sealing upon disconnection maintains minimum inclusion of air and loss of fluid.
- Field repairable allowing an internal valve to be replaced, if needed.
- Steel coupling provides durability.
- A variety of mechanical end connections available, along with sweat connections, to provide options for installation.
- Multiple sizes available, along with bulkhead mounting options, to match a coupling to a unique application.



### Agency Approvals

U.L. listed; File No: SA2709

### Specifications

See Chart below.

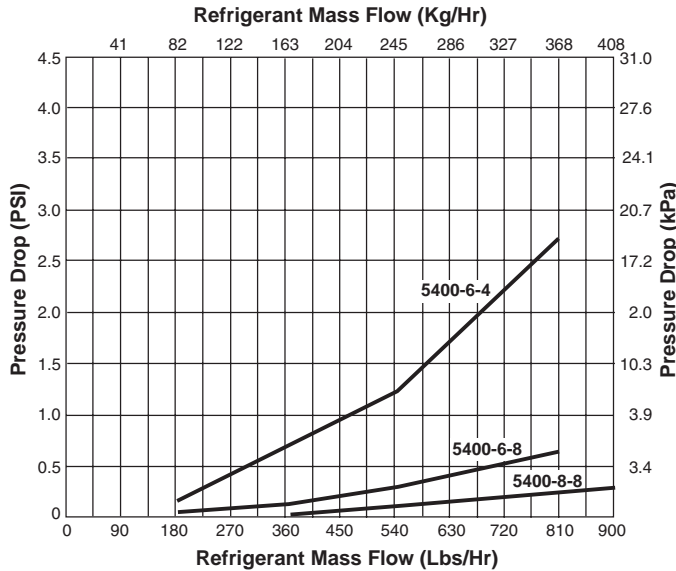
All sizes are field repairable.

Standard Material: Final seal – Neoprene™  
 Seal – Neoprene™  
 Body – Zinc-plated steel  
 Adapter – Steel or Brass

### Specifications

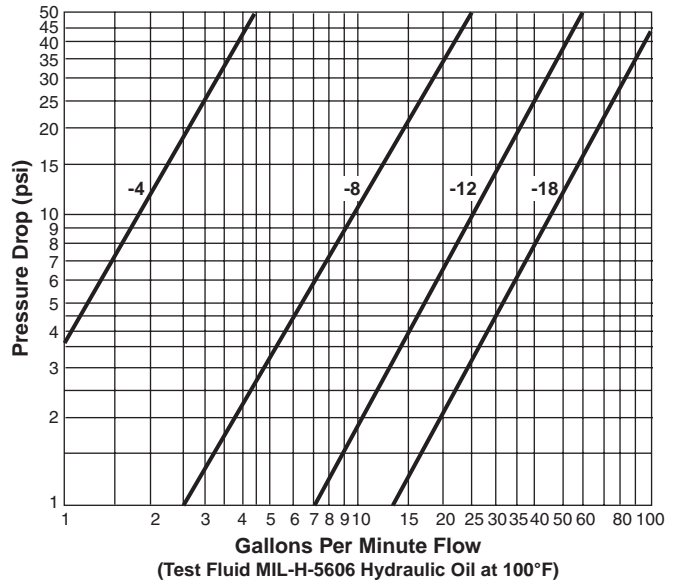
Dash Size	Part Description	Operating Pressure (psi)	Minimum Burst Pressure (psi)	Air Inclusion CC/Connect	Maximum Fluid Loss CC/Disconnect	Static Connect (psig)	Coupled (oz./yr)	Uncoupled Without Cap/Plug (oz./yr)	Uncoupled With Cap/Plug (oz./yr)	Vacuum (in. Hg.)	Rated Flow (gpm)
-4	Male half	2500	7500	0.1	0.05	150	< 0.25	< 0.5	< 0.25	-	-
-4	Female half	500	1500	0.1	0.05	150	< 0.25	< 0.5	< 0.25	-	-
-4	Whole coupling	3000	9000	0.1	0.05	150	< 0.25	< 0.5	< 0.25	28	14
-8	Male half	1750	5200	0.1	0.1	150	< 0.25	< 0.5	< 0.25	-	-
-8	Female half	400	1200	0.1	0.1	150	< 0.25	< 0.5	< 0.25	-	-
-8	Whole coupling	1750	5200	0.1	0.1	150	< 0.25	< 0.5	< 0.25	28	14
-12	Male half	800	2100	0.3	0.1	150	< 0.25	< 0.5	< 0.25	-	-
-12	Female half	400	1200	0.3	0.1	150	< 0.25	< 0.5	< 0.25	-	-
-12	Whole coupling	700	2100	0.3	0.1	150	< 0.25	< 0.5	< 0.25	28	35
-16	Male half	700	2100	0.05	0.2	150	< 0.25	< 0.5	< 0.25	-	-
-16	Female half	300	900	0.05	0.2	150	< 0.25	< 0.5	< 0.25	-	-
-16	Whole coupling	700	2100	0.05	0.2	150	< 0.25	< 0.5	< 0.25	28	75

**Liquid Line  
Pressure Drop vs. Mass Flow  
Refrigerant R22**



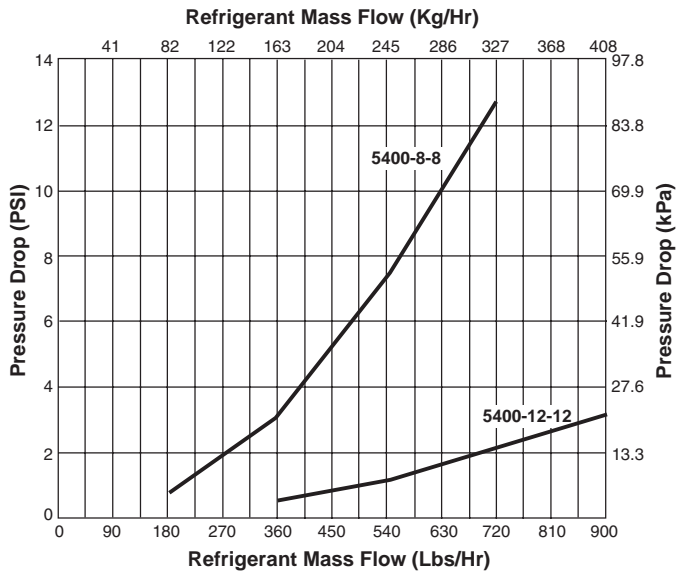
5400-6-4 — 3/8" Coupling Body (-06) with 1/4" (-04) Copper Connection, R22  
 5400-6-8 — 3/8" Coupling Body (-06) with 1/2" (-08) Copper Connection, R22  
 5400-8-8 — 1/2" Coupling Body (-08) with 1/2" (-08) Copper Connection, R22

**Press Drop Versus Flow**



(Test Fluid MIL-H-5606 Hydraulic Oil at 100°F)

**Suction Line  
Pressure Drop vs. Mass Flow  
Refrigerant R22**



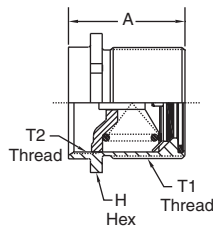
5400-8-8 — 1/2" Coupling Body (-08) with 1/2" (-08) Copper Connection, R22  
 5400-12-12 — 3/4" Coupling Body (-12) with 3/4" (-12) Copper Connection, R22

Couplings

Dimension Data

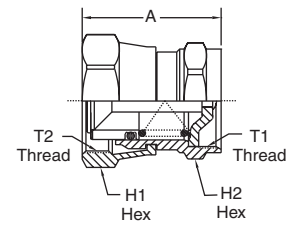
5400 Series Self-Sealing Steel Couplings

**5400-S2**  
Male Half  
No Adapter



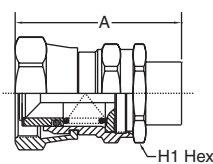
Part Number Neoprene	Coupling Size	T1 Thread	A	H1 Hex	T2 Thread
5400-S2-4	-4	5/8 - 18UNF	1.08	0.75	1/2 - 20
5400-S2-8	-8	1 - 20UNEF	1.37	1.13	7/8 - 20
5400-S2-12	-12	1-7/16 - 16UN	1.74	1.63	1-1/4 - 18
5400-S2-16	-16	1-3/4 - 16UN	1.83	1.88	1-19/32 - 20NS

**5400-S5**  
Female Half  
No Adapter



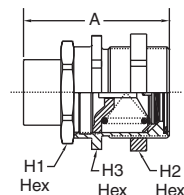
Coupling Size	T1 Thread	A	H1 Hex	H2 Hex	T2 Thread
-4	1/2 - 20	1.13	0.75	0.63	5/8 - 18
-8	7/8 - 20	1.63	1.19	1.00	1 - 20
-12	1-1/4 - 18	2.15	1.63	1.38	1-7/8 - 16
-16	1-19/32 - 20NS	2.37	2.00	1.75	1-3/4 - 16UN

**5401-S14**  
Female Half  
Braze Tubing Adapter



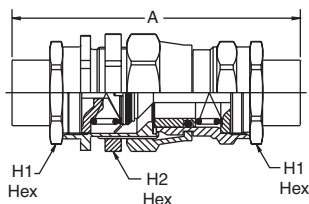
Part Number Neoprene	Coupling Size	Copper Size	A	H1 Hex
5401-S14-4-4	-4-4	1/4	1.57	0.63
5401-S14-6-4	-6-4	3/8	1.57	0.63
5401-S14-6-8	-6-8	3/8	2.00	1.00
5401-S14-8-8	-8-8	1/2	2.00	1.00
5401-S14-10-8	-10-8	5/8	2.00	1.00
5401-S14-10-12	-10-12	5/8	2.88	1.38
5401-S14-12-12	12-12	3/4	2.88	1.38
5401-S14-14-12	14-12	7/8	2.88	1.38
5401-S14-14-16	14-16	7/8	3.34	1.75
5401-S14-16-16	16-16	1	3.34	1.75
5401-S14-18-16	18-16	1-1/8	3.34	1.75

**5401-S17**  
Male Half  
Braze Tubing Adapter



Part Number Neoprene	Coupling Size	Copper Size	A	H1 Hex	H2 Hex	H3 Hex
5401-S17-4-4	-4-4	1/4	1.52	0.63	0.75	0.75
5401-S17-6-4	-6-4	3/8	1.52	0.63	0.75	0.75
5401-S17-6-8	-6-8	3/8	1.75	1.00	1.19	1.19
5401-S17-8-8	-8-8	1/2	1.75	1.00	1.19	1.19
5401-S17-10-8	-10-8	5/8	1.75	1.00	1.19	1.12
5401-S17-10-12	-10-12	5/8	2.47	1.38	1.56	1.62
5401-S17-12-12	12-12	3/4	2.47	1.38	1.56	1.62
5401-S17-14-12	14-12	7/8	2.47	1.38	1.56	1.62
5401-S17-14-16	14-16	7/8	2.80	1.75	2.00	1.88
5401-S17-16-16	16-16	1	2.80	1.75	2.00	1.88
5401-S17-18-16	18-16	1-1/8	2.80	1.75	2.00	1.88

**5401**  
Complete Coupling  
Braze Tubing Adapter



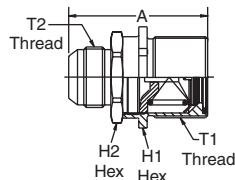
Part Number Neoprene	Coupling Size	Copper Size	A	H1 Hex	H2 Hex
5401-4-4	4-4	1/4	2.82	0.63	0.75
5401-6-4	6-4	3/8	2.82	0.63	0.75
5401-6-8	6-8	3/8	3.37	1.00	1.19
5401-8-8	8-8	1/2	3.37	1.00	1.19
5401-10-8	10-8	5/8	3.37	1.00	1.19
5401-10-12	10-12	5/8	4.76	1.38	1.62
5401-12-12	12-12	3/4	4.76	1.38	1.62
5401-14-12	14-12	7/8	4.76	1.38	1.62
5401-14-16	14-16	7/8	5.52	1.75	1.88
5401-16-16	16-16	1	5.52	1.75	1.88
5401-18-16	18-16	1-1/8	5.52	1.75	1.88
5401-22-16	22-16	1-3/8	5.52	1.75	1.88

Dimension Data

5400 Series Self-Sealing Steel Couplings

5410-S17-No-No

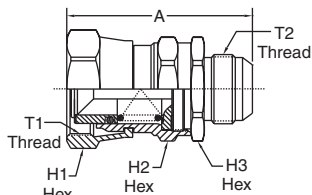
Male Half  
SAE 37° (JIC)



Part Number Neoprene	Coupling Size	T1 Thread	A	H1 Hex	H2 Hex	T2 Thread
5410-S17-4-4	4-4	5/8 - 18UNF	1.88	0.75	0.63	7/16 - 20UNF
5410-S17-6-4	6-4	5/8 - 18UNF	1.89	0.75	0.63	9/16 - 18UNF
5410-S17-6-8	6-8	1 - 20UNEF	2.18	1.13	1.00	9/16 - 18UNF
5410-S17-8-8	8-8	1 - 20UNEF	2.28	1.13	1.00	3/4 - 16UNF
5410-S17-10-12	10-12	1-7/16 - 16UN	2.75	1.63	1.38	7/8 - 14UNF
5410-S17-12-12	12-12	1-7/16 - 16UN	2.86	1.63	1.38	1-1/16 - 12UN
5410-S17-16-16	16-16	1-3/4 - 16UN	2.99	1.88	1.75	1-5/16 - 12UN

5410-S14-No-No

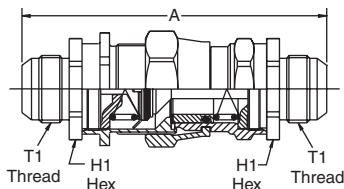
Female Half  
SAE 37° (JIC)



Part Number Neoprene	Coupling Size	T1 Thread	A	H1 Hex	H2 Hex	H3 Hex	T2 Thread
5410-S14-4-4	4-4	5/8 - 18UNF	1.13	0.75	0.63	0.63	7/16 - 20UNF
5410-S14-6-4	6-4	5/8 - 18UNF	1.13	0.75	0.63	0.63	9/16 - 18UNF
5410-S14-6-8	6-8	1 - 20UNEF	1.63	1.19	1.00	1.00	9/16 - 18UNF
5410-S14-8-8	8-8	1 - 20UNEF	1.63	1.19	1.00	1.00	3/4 - 16UNF
5410-S14-10-12	10-12	1-7/16 - 16UN	2.15	1.63	1.38	1.38	7/8 - 14UNF
5410-S14-12-12	12-12	1-7/16 - 16UN	2.15	1.63	1.38	1.38	1-1/16 - 12UN
5410-S14-16-16	16-16	1-3/4 - 16UN	2.37	2.00	1.75	1.75	1-5/16 - 12UN

5410-No-No (No "S")

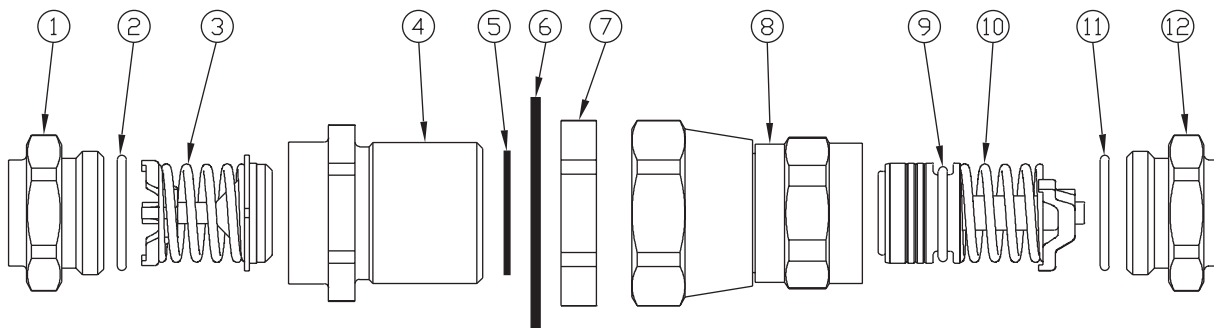
Complete Coupling  
SAE 37° (JIC)



Part Number Neoprene	Coupling Size	T1 Thread	A	H1 Hex
5410-4-4	4-4	7/16 - 20UNF	3.54	0.63
5410-6-4	6-4	9/16 - 18UNF	3.56	0.63
5410-6-8	6-8	9/16 - 18UNF	4.23	1.00
5410-8-8	8-8	3/4 - 16UNF	4.44	1.00
5410-10-12	10-12	7/8 - 14UNF	5.33	1.38
5410-12-12	12-12	1-1/16 - 12UN	5.54	1.38
5410-16-16	16-16	1-5/16 - 12UN	5.89	1.75

Couplings





Typical Male Coupling Half (S2)

Typical Female Coupling Half (S5)

Item No.	Dash Size > Tube O.D. Size>	-4	-8	-12	-16
		1/4" - 3/8"	1/4" - 5/8"	5/8" - 7/8"	7/8" - 1-3/8"
<b>Typical Male Half</b>					
1	Tubing Adapter	202208-*-4	202208-*-8	202208-*-12	202208-*-16
2	O-Ring	22546-12	22546-17	22546-23	22546-28
3	Assembly	5400-S20-4	5400-S20-8	5400-S20-12	5400-S20-16
4	Body	5400-17-4	5400-17-8	5400-17-12	5400-17-16
5	Gasket Seal	22008-4	22008-8	22008-12	22008-16
6	Lock Washer	5400-54-4	5400-54-8	5400-54-12	5400-54-16
7	Jam Nut	5400-53-4	5400-53-8	5400-53-12	5400-53-16
<b>Typical Female Half</b>					
8	Union Nut and Body Assembly	5400-S16-4	5400-S16-8	5400-S16-12	5400-S16-16
9	O-Ring	22546-10	22546-112	22546-116	22546-214
10	Valve and Sleeve Assembly	5400-S19-4	5400-S19-8	5400-S19-12	5400-S19-16
11	O-Ring	22546-12	22546-17	22546-23	22546-28
12	Tubing Adapter	202208-*-4	202208-*-8	202208-*-12	202208-*-16
13	Dust cap (S2 half)	5400-32-4	5400-32-8	5400-32-12	5400-32-16
14	Dust cap (S5 half)	5400-41-4	5400-41-8	5400-41-12	5400-41-16

\* Specify O.D. Tubing size of adapter required in 16th of an inch.  
 Example: -4 coupling with 3/8" O.D. tubing = 6/16 or -6.  
 Part number is then 202208-6-4.



**Maximum Bulkhead Thickness**

Coupling Size	Lock Washer Installed	Lock Washer Not Used
-4	0.21	0.26
-8	0.14	0.20
-12	0.23	0.29
-16	0.10	0.16

**Recommended Torque Values**

Recommended torque values in ft. lbs., are listed below.

Dash Size	Adapter to Body		S2 Half to S5 Half
	Braze Type or Aluminum	Non-Braze Type Steel or Brass	
-4	5400-S6-8	5400-S12-15	10-12
-8	5400-S15-20	5400-S35-45	35-37
-12	5400-S35-40	5400-S45-55	45-47
-16	5400-S50-60	5400-S55-65	65-67

**Assembly Instructions**

**Step 1** After tubing or hose has been connected to adapters (1) and (12), install adapter O-rings (2) and (11)\* on adapters. Be sure O-rings are not twisted.

**Step 2** Generously lubricate adapter O-rings (2) and (11) with the system lubricant to prevent them from scuffing and tearing when coupling body is threaded on adapter.

**Step 3** Adapter to S2 male coupling half connection.

- A. Lubricate poppet face with system lubricant. Insert poppet valve assembly (3) into body (4). Tighten body (4) on adapter (1).
- B. After body and adapter make metal-to-metal contact, tighten by rotating body (4) 1/8" with respect to adapter (1) or torque to the value shown in the "Torque Values" table.

**Step 4** Adapter to S5 female coupling half connection.

- A. Lubricate O-ring (9) liberally with system lubricant. Insert valve and sleeve assembly (10) into body (8). Tighten body (8) on adapter (12).
- B. After body and adapter make metal-to-metal contact, tighten by rotating body (8) 1/8" with respect to adapter (12) or torque to the value shown in the "Torque Values" table.

**Step 5** Coupling connection.

- A. Generously lubricate the gasket seal (5) on the 5400-S2 male coupling half with the system lubricant.
- B. Thread the union nut (8) onto the S2 male coupling half. Tighten union nut to torque values shown in the "Torque Values" table.

**IMPORTANT - DO NOT** rotate the S5 female coupling half body during connection.

- C. After the coupling halves are seated, keep the bodies of the S2 male coupling half (4) and that of the S5 female coupling half (8) from rotating and tighten the union nut to the torque values shown in the "Torque Values" table.

**IMPORTANT - DO NOT** rotate the S2 or S5 coupling half body during connection.

**Bulkhead Mounting — S2 Half**

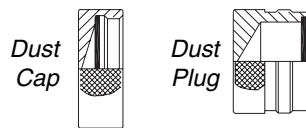
**Step 1** Install lock washer (6) on S2 half, insert S2 male coupling half through bulkhead, and tighten jam-nut (7) so that lock-washer teeth are fully compressed.

**Note:** Lock washer (6) must be between hex of S2 male half and bulkhead.

**\*IMPORTANT:** Generous lubrication is required for all gaskets and O-rings. Lubrication should match system oil and be compatible with refrigerant system

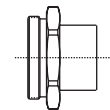
**Accessories**

**Dust Cap and Dust Plug**



Coupling Size	Part Numbers	
	Dust Cap with Gasket	Dust Plug with Gasket
-4	5400-S6-4	5400-S8-4
-8	5400-S6-8	5400-S8-8
-12	5400-S6-12	5400-S8-12
-16	5400-S6-16	5400-S8-16

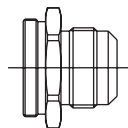
**Adapter — Braze**



O-Ring Required

Coupling Size	Part Numbers		Thread Size P	Tube O.D. Size
	O-Ring	Brass		
-4	22546-12	202208-4-4B	1/2-20	1/4
-8	22546-17	202208-8-8B	7/8-20	1/8
-12	22546-23	202208-10-12B	1-1/4 - 18	5/8
-16	22546-28	202208-14-16B	1-9/32 - 20	5/8

**Adapter SAE 37° (JIC)**



O-Ring Required

Coupling Size	Part Numbers			Thread Size P	Tube O.D. Size
	O-Ring	Brass	Steel		
-4	22546-12	202220-4-4B	202220-4-4S	7/16 - 20	1/4
-4	22546-12	202220-6-4B	202220-6-4S	9/16 - 18	3/8
-8	22546-17	202220-6-8B	202220-6-8S	9/16 - 18	3/8
-8	22546-17	202220-8-8B	202220-8-8S	3/4 - 16	1/2
-12	22546-23	202220-10-12B	202220-10-12S	7/8 - 14	5/8
-12	22546-23	202220-10-12B	202220-10-12S	1-1/16 - 12	3/4
-16	22546-28	202220-16-16B	202220-16-16S	1-3/16 - 12	1

## 5500 Series Self-Sealing Brass Coupling

Parker's 5500 Self-Sealing Brass Couplings are used in fluid-transfer applications for easy maintenance on refrigeration and air conditioning systems. Applications can also include marine refrigeration and air conditioning systems, along with split refrigeration and split beverage systems.

### Application

- Portable split-system air conditioners
- Split refrigeration systems
- Marine refrigeration systems
- Refrigerated dry cleaning systems
- Beverage systems

### Base Product Part Number

5502	Male coupling half
5505	Female coupling half

### Features and Benefits

- Self-sealing upon disconnection maintains minimum inclusion of air and loss of fluid.
- Brass coupling provides corrosion resistance.
- Final metal-to-metal seal provides low leakage.



- Copper-sweat connections provide basic ends for brazing and eliminate the need for flux, simplifying the installation process.
- Panel mounting options are available for the unique needs of a unit.

### Agency Approvals

UL listed; File No: SA2709

**Efficient**  
Full flow/low pressure drop design helps improve equipment efficiencies.

**Corrosion Resistant**  
Brass body and copper connections make corrosion-related problems almost non-existent.

**Easy to Connect/Disconnect**  
Thread-together design allows easy connection and disconnection while under system pressure.

**Simplified Installation**  
Copper sweat connections simplify the factory installation process (eliminating the need for flux and flux residue clean up), saving you time and money.

**Low Air Inclusion and Refrigerant Loss**  
Valving is designed for low air inclusion and minimal refrigerant loss during connection and disconnection.

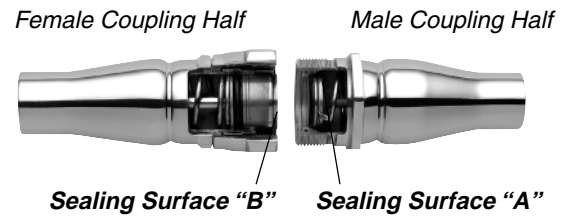
**Superior Sealing**  
Unique self-sealing valving prevents refrigerant loss when disconnected. Metal-to-metal final seal virtually eliminates refrigerant loss when connected.

**Reliable**  
Stringent design standards, backed by years of experience, a wide range of existing coupling applications, and extensive testing under extreme operating conditions, provide you with the assurance that the product will perform as specified.

## How it Operates

### Disconnected

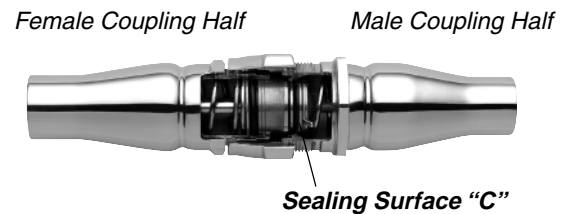
When disconnected, spring-loaded valve assemblies in the male and female coupling halves are sealed to prevent refrigerant loss and the inclusion of air or foreign materials. A spring in the male coupling half presses the bonded poppet against sealing surface “A” of the coupling body. Likewise, a spring in the female coupling half presses the sleeve against sealing surface “B” of the stem valve head. An O-ring on the female sleeve prevents leakage between the sleeve and coupling body.



### Partially Connected

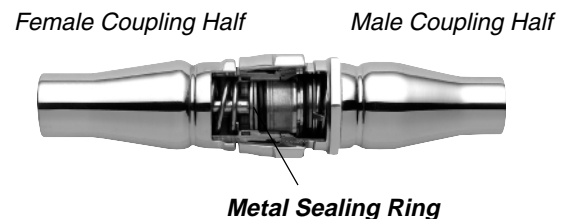
As the two coupling halves are threaded together, sealing surface “C” of the male coupling body contacts the bonded seal of the female coupling’s sleeve assembly.

At the same time, the stem valve head in the female coupling assembly contacts the male coupling’s bonded poppet, forcing air out of the coupling. During this stage, both coupling halves are sealed, preventing leakage of refrigerant.



### Fully Connected

Continued tightening of the union nut (female coupling) draws the couplings together, and opens the fluid passage by forcing the male coupling’s poppet assembly and the female coupling’s sleeve assembly open. When fully coupled a metal ring located in the front of the male coupling, forms a leak-tight seal between the two coupling halves.



**Specifications**

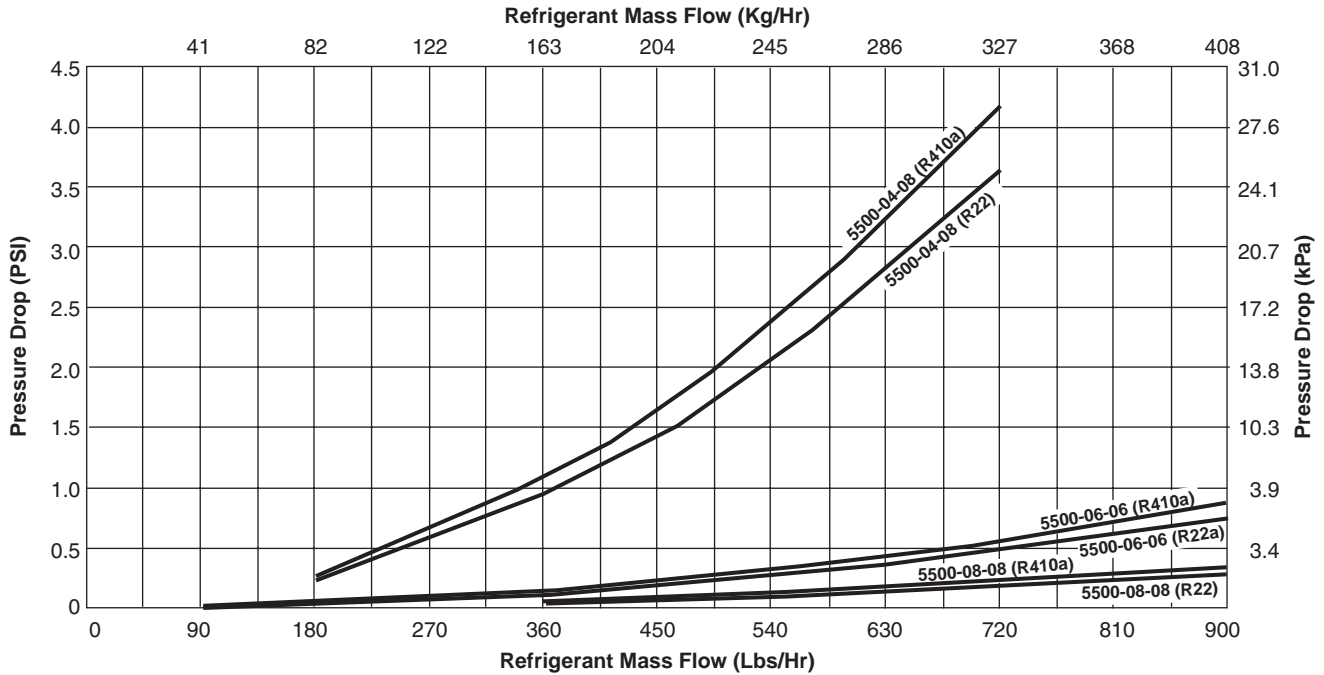
<b>PRODUCT</b>	<b>5500 Series Self-Sealing Brass Couplings</b>
Operating Temperature Range	-40°F to 250°F (-40°C to +121°C)
Operating Pressure Range, Connected Male & Female Coupling -06, -08, -12 & -16 Body Sizes	Vacuum to 750 psi (52 bar)
Operating Pressure Range, Disconnected Male Coupling Half -06, -08, -12 & -16 Body Sizes Female Coupling Half -06 & -08 Body Sizes -12 Body Size -16 Body Size	Vacuum to 750 psi (52 bar)  Vacuum to 600 psi (41 bar) Vacuum to 550 psi (40 bar) Vacuum to 333 psi (23 bar)
Minimum Burst Pressure, Connected Male & Female Coupling -06, -08, -12 & -16 Body Sizes	2,700 psi (186 bar)
Minimum Burst Pressure, Disconnected Male Coupling Half -06, -08, -12 & -16 Body Sizes Female Coupling Half -06 & -08 Body Size -12 Body Size -16 Body Size	2,700 psi (186 bar)  1,800 psi (124 bar) 1,650 psi (114 bar) 1,000 psi (70 bar)
Maximum Air Inclusion (During Connection) Male & Female Coupling Halves -06 Body Size -08 Body Size -12 Body Size -16 Body Size	0.15 cc per connection 0.10 cc per connection 0.20 cc per connection 0.40 cc per connection
Maximum Fluid Loss (During Disconnection) Male & Female Coupling Halves -06 & -08 Body Sizes -12 Body Size -16 Body Size	0.10 cc per disconnection 0.30 cc per disconnection 0.20 cc per disconnection
<b>MATERIALS</b>	
Coupling Body	Brass Bar per ASTM-B16, Alloy C3600
Connections	Refrigeration Grade Copper, per ASTM-B75, Alloy C12200
Valve Stem Assembly (Female Coupling)	Chromate Plated Steel
Bonded Poppet (Male Coupling)	Neoprene™
Bonded Sleeve (Female Coupling)	Neoprene™
<b>MATERIAL COMPATIBILITY*</b>	
All components, bonded poppet and sleeve, and valve stem O-Ring seal are compatible with these refrigerants and refrigerant oils: R22 & mineral oil, alkylbenzene oil, or polyolester oil R134a, R404a, R407c, R410a, or R507 & polyolester oil	
Vibration Resistance	Complies with UL 109
External Leak Rate, Connected -06, -08, -12 & -16 Body Sizes	< 0.1 ounce (2.96 ml) of R22 refrigerant per year at Operating Pressure Range
External Leak Rate, Disconnected -06, -08, -12 & -16 Body Sizes Without Protective Metal Cap or Plug Installed -08, -12 & -16 Body Sizes With Protective Metal Cap or Plug Installed*	< 0.50 ounce (14.79 ml) of R22 refrigerant per year  < 0.25 ounce (7.39 ml) of R22 refrigerant per year

\* Protective metal cap/plug not available for -06 Coupling Body Size

+ Due to the numerous manufacturers of refrigerant oils and continuous changes of additives, compatibility cannot be guaranteed. Contact Parker for compatibility of refrigerant oils not listed.

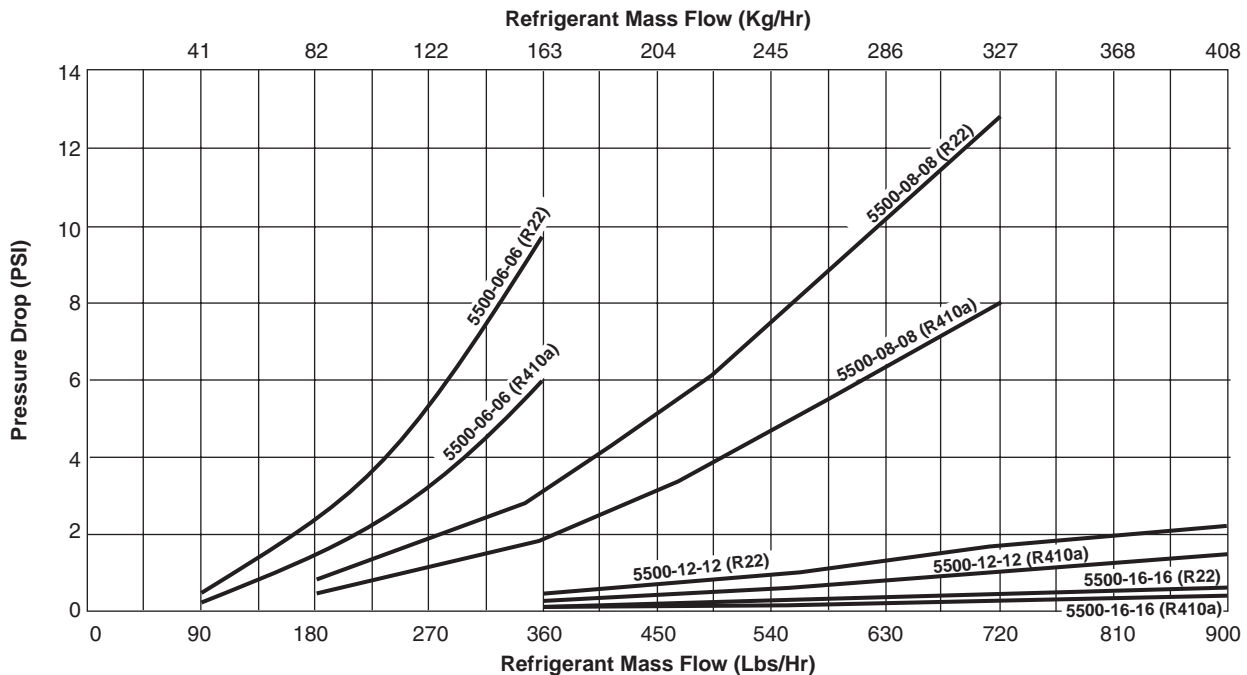
**Flow Data**

**Liquid Line Pressure Drop vs. Mass Flow  
 Refrigerant R22 and R410a**



5500-04-08 — 1/2" Coupling Body (-08) with 1/4" (-04) Copper Connection, R22	5500-04-08 — 1/2" Coupling Body (-08) with 1/4" (-04) Copper Connection, R410a
5500-06-06 — 3/8" Coupling Body (-06) with 3/8" (-06) Copper Connection, R22	5500-06-06 — 3/8" Coupling Body (-06) with 3/8" (-06) Copper Connection, R410a
5500-08-08 — 1/2" Coupling Body (-08) with 1/2" (-08) Copper Connection, R22	5500-08-08 — 1/2" Coupling Body (-08) with 1/2" (-08) Copper Connection, R410a

**Suction Line Pressure Drop vs. Mass Flow  
 Refrigerant R22 and R410a**



5500-06-06 — 3/8" Coupling Body (-06) with 3/8" (-06) Copper Connection, R22	5500-06-06 — 3/8" Coupling Body (-06) with 3/8" (-06) Copper Connection, R410a
5500-08-08 — 1/2" Coupling Body (-08) with 1/2" (-08) Copper Connection, R22	5500-08-08 — 1/2" Coupling Body (-08) with 1/2" (-08) Copper Connection, R410a
5500-12-12 — 3/4" Coupling Body (-12) with 3/4" (-12) Copper Connection, R22	5500-12-12 — 3/4" Coupling Body (-12) with 3/4" (-12) Copper Connection, R410a
5500-16-16 — 1" Coupling Body (-16) with 1" (16) Copper Connection, R22	5500-16-16 — 1" Coupling Body (-16) with 1" (16) Copper Connection, R410a

Couplings

**Dimensions**

**5500 Series Self-Sealing Brass Coupling**

**Coupling Assembly**



Copper Connection		Coupling Body		Dimensions								Weight	
Inch (Dash Size*)	mm	Inch (Dash Size*)	mm	Overall Disconnected Length A	Overall Connected Length B	Flange to Tube End C	Connection Depth D	Connection I.D. E	Connection O.D. F	Coupling Body O.D. G	Mounting Flange (Width) H	With Mounting Flange Ounces (Grams)	Without Mounting Flange Ounces (Grams)
1/4 ODS (-04)	6.4 ODS	3/8 (-06)	9.5	5.06 (128.5)	4.77 (121.2)	N/A	0.32 (8.1)	0.25 (6.4)	0.34 (8.6)	0.71 (18.0)	0.23 (5.8)	N/A	4.18 (118.45)
3/8 ODS (-06)	9.5 ODS	3/8 (-06)	9.5	5.06 (128.5)	4.77 (121.2)	N/A	0.32 (8.1)	0.38 (9.7)	0.46 (11.7)	0.71 (18.0)	0.23 (5.8)	N/A	4.18 (118.45)
1/4 ODS (-04)	6.4 ODS	1/2 (-08)	12.7	6.95 (176.5)	6.56 (166.6)	2.64 (67.1)	0.31 (7.9)	0.25 (6.4)	0.38 (9.7)	0.92 (23.4)	0.23 (5.8)	8.44 (239.27)	7.96 (225.54)
3/8 ODS (-06)	9.5 ODS	1/2 (-08)	12.7	6.90 (174.2)	6.51 (165.4)	2.62 (66.5)	0.31 (7.9)	0.38 (9.7)	0.47 (12.0)	0.92 (23.4)	0.23 (5.8)	8.44 (239.27)	7.96 (225.54)
1/2 ODS (-08)	12.7 ODS	1/2 (-08)	12.7	6.86 (172.2)	6.47 (164.3)	2.58 (65.5)	0.38 (9.7)	0.50 (12.7)	0.59 (14.9)	0.92 (23.4)	0.23 (5.8)	8.44 (239.27)	7.96 (225.54)
5/8 ODS (-10)	15.9 ODS	1/2 (-08)	12.7	6.78 (172.2)	6.39 (162.3)	2.56 (65.0)	0.38 (9.7)	0.63 (16.0)	0.71 (17.9)	0.92 (23.4)	0.23 (5.8)	8.44 (239.27)	7.96 (225.54)
5/8 ODS (-10)	15.9 ODS	3/4 (-12)	19.1	7.79 (197.9)	7.24 (183.9)	2.71 (68.8)	0.50 (12.7)	0.63 (16.0)	0.75 (19.1)	1.32 (33.5)	0.23 (5.8)	18.60 (527.50)	17.90 (507.34)
3/4 ODS (-12)	19.1 ODS	3/4 (-12)	19.1	7.85 (199.4)	7.30 (185.4)	2.67 (67.8)	0.62 (15.7)	0.75 (19.1)	0.86 (21.7)	1.32 (33.5)	0.23 (5.8)	18.60 (527.50)	17.90 (507.34)
7/8 ODS (-14)	22.2 ODS	3/4 (-12)	19.1	7.85 (199.4)	7.30 (185.4)	2.67 (67.8)	0.75 (19.1)	0.88 (22.4)	0.97 (24.6)	1.32 (33.5)	0.23 (5.8)	18.60 (527.50)	17.90 (507.34)
7/8 ODS (-14)	22.2 ODS	1 (-16)	25.4	9.33 (237.0)	8.73 (221.7)	3.34 (84.8)	0.75 (19.1)	0.88 (22.4)	1.02 (25.8)	1.68 (42.7)	0.23 (5.8)	29.87 (846.72)	29.15 (826.35)
1 ODS (-16)	25.4 ODS	1 (-16)	25.4	9.46 (240.3)	8.86 (225.0)	3.42 (86.9)	0.88 (22.4)	1.00 (25.4)	1.12 (28.4)	1.68 (42.7)	0.23 (5.8)	29.87 (846.72)	29.15 (826.35)
1-1/8 ODS (-18)	28.6 ODS	1 (-16)	25.4	9.45 (240.0)	8.85 (224.8)	3.42 (86.9)	0.88 (22.4)	1.13 (28.7)	1.24 (31.4)	1.68 (42.7)	0.23 (5.8)	29.87 (846.72)	29.15 (826.35)

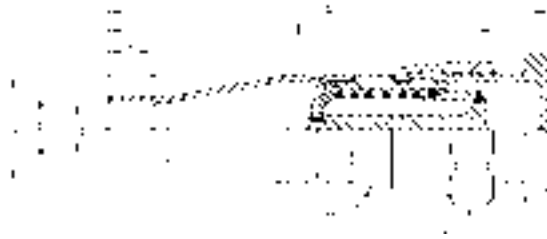
All dimensions in inches (mm)

\* Dash size = copper connection size x 16

Dimensions

5500 Series Self-Sealing Brass Coupling

Female Coupling Half



Copper Connection		Coupling Body		Part Number		Dimensions								Retaining Nut Hex + J	Weight Ounces (grams)
Inch (Dash Size*)	mm	Inch (Dash Size*)	mm	Less Plug	With Plug**	Coupling Length		Connection			Coupling Body				
						With Plug A	B	Depth D	I.D. E	O.D. F	O.D. G	Hex + H			
1/4 ODS (-04)	6.4 ODS	3/8 (-06)	9.5	N/A	5505-04B-06	3.14 (79.8)	2.72 (69.1)	0.32 (8.1)	0.25 (6.4)	0.34 (8.6)	0.71 (18.0)	0.75 (19.1)	0.94 (23.9)	2.53 (71.73)	
3/8 ODS (-06)	9.5 ODS	3/8 (-06)	9.5	N/A	5505-06B-06	3.14 (79.8)	2.72 (69.1)	0.32 (8.1)	0.38 (9.7)	0.46 (11.7)	0.71 (18.0)	0.75 (19.1)	0.94 (23.9)	2.53 (71.73)	
1/4 ODS (-04)	6.4 ODS	1/2 (-08)	12.7	5505-04-08	5505-04B-08	3.88 (98.6)	3.69 (93.7)	0.31 (7.9)	0.25 (6.4)	0.38 (9.7)	0.92 (23.4)	1.00 (25.4)	1.19 (30.2)	4.85 (137.46)	
1/4 ODS (-04)	6.4 ODS	1/2 (-08)	12.7	5505-04-08	5505-04S-08	4.04 (102.86)	3.69 (93.7)	0.31 (7.9)	0.25 (6.4)	0.38 (9.7)	0.92 (23.4)	1.00 (25.4)	1.19 (30.2)	4.85 (137.46)	
3/8 ODS (-06)	9.5 ODS	1/2 (-08)	12.7	5505-06-08	5505-06B-08	3.85 (97.8)	3.66 (93.0)	0.31 (7.9)	0.38 (9.7)	0.47 (12.0)	0.92 (23.4)	1.00 (25.4)	1.19 (30.2)	4.85 (137.46)	
3/8 ODS (-06)	9.5 ODS	1/2 (-08)	12.7	5505-06-08	5505-06S-08	4.01 (101.9)	3.66 (93.0)	0.31 (7.9)	0.38 (9.7)	0.47 (12.0)	0.92 (23.4)	1.00 (25.4)	1.19 (30.2)	4.85 (137.46)	
12 ODS (-08)	12.7 ODS	1/2 (-08)	12.7	5505-08-08	5505-08B-08	3.85 (97.8)	3.66 (93.0)	0.38 (9.7)	0.50 (12.7)	0.59 (14.9)	0.92 (23.4)	1.00 (25.4)	1.19 (30.2)	4.85 (137.46)	
12 ODS (-08)	12.7 ODS	1/2 (-08)	12.7	5505-08-08	5505-08S-08	4.01 (101.9)	3.66 (93.0)	0.38 (9.7)	0.50 (12.7)	0.59 (14.9)	0.92 (23.4)	1.00 (25.4)	1.19 (30.2)	4.85 (137.46)	
5/8 ODS (-10)	15.9 ODS	1/2 (-08)	12.7	5505-10-08	5505-10B-08	3.79 (96.3)	3.60 (91.4)	0.50 (12.7)	0.63 (16.0)	0.71 (17.9)	0.92 (23.4)	1.00 (25.4)	1.19 (30.2)	4.85 (137.46)	
5/8 ODS (-10)	15.9 ODS	1/2 (-08)	12.7	5505-10-08	5505-10S-08	3.95 (100.3)	3.60 (91.4)	0.50 (12.7)	0.63 (16.0)	0.71 (17.9)	0.92 (23.4)	1.00 (25.4)	1.19 (30.2)	4.85 (137.46)	
5/8 ODS (-10)	15.9 ODS	3/4 (-12)	19.1	5505-10-12	5505-10S-12	4.64 (117.9)	4.09 (103.9)	0.50 (12.7)	0.63 (16.0)	0.75 (19.1)	1.32 (33.5)	1.38 (35.1)	1.62 (30.2)	10.58 (299.98)	
3/4 ODS (-12)	19.1 ODS	3/4 (-12)	19.1	5505-12-12	5505-12S-12	4.77 (121.2)	4.19 (106.4)	0.62 (15.7)	0.75 (19.1)	0.86 (21.7)	1.32 (33.5)	1.38 (35.1)	1.62 (41.4)	10.58 (299.98)	
7/8 ODS (-14)	22.2 ODS	3/4 (-12)	19.1	5505-14-12	5505-14S-12	4.77 (121.2)	4.19 (106.4)	0.75 (19.1)	0.88 (22.4)	0.97 (24.6)	1.32 (33.5)	1.38 (35.1)	1.62 (41.4)	10.58 (299.98)	
7/8 ODS (-14)	22.2 ODS	1 (-16)	25.4	5505-14-16	5505-14S-16	5.48 (139.2)	4.96 (126.0)	0.75 (19.1)	0.88 (22.4)	1.02 (25.8)	1.68 (42.7)	1.69 (42.9)	2.00 (50.8)	18.34 (519.91)	
1 ODS (-16)	25.4 ODS	1 (-16)	25.4	5505-16-16	5505-16S-16	5.62 (142.7)	5.01 (127.3)	0.88 (22.4)	1.00 (25.4)	1.12 (28.4)	1.68 (42.7)	1.69 (42.9)	2.00 (50.8)	18.34 (519.91)	
1-1/8 ODS (-18)	28.6 ODS	1 (-16)	25.4	5505-18-16	5505-18S-16	5.52 (140.2)	5.00 (127.0)	0.88 (22.4)	1.13 (28.7)	1.24 (31.4)	1.68 (42.7)	1.69 (42.9)	2.00 (50.8)	18.34 (519.91)	

All dimensions in inches (mm)

\* Dash size = copper connection size x 16

\*\* "B" in the part number denotes a plastic plug. "S" in the part number denotes a steel plug.

+ Dimension is across hex flats.

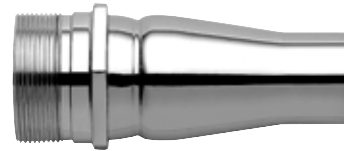
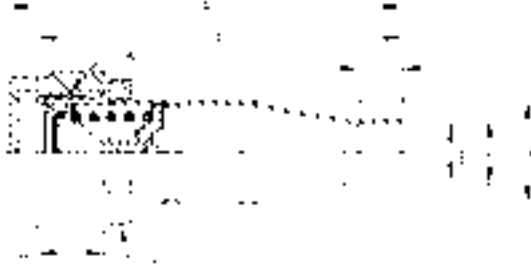
Couplings



Dimensions

5500 Series Self-Sealing Brass Coupling

Male Coupling Half



Copper Connection		Coupling Body		Part Number**		Dimensions										Weight Ounces (Grams)
Inch (Dash Size*)	mm	Inch (Dash Size*)	mm	Less Cap	With Cap**	Coupling Length		Depth			Coupling Body				Thread Size K	
						(with cap) A	B	Depth D	I.D. E	O.D. F	O.D. G	Thread Length H	Hex Diameter + J			
1/4 ODS (-04)	6.4 ODS	3/8 (-06)	9.5	N/A	5502-04B-06	2.58 (65.5)	2.40 (61.0)	0.32 (8.1)	0.25 (6.4)	0.34 (8.6)	0.71 (18.0)	0.49 (12.4)	0.83 (21.1)	M20-1.5	1.65 (6.72)	
3/8 ODS (-06)	9.5 ODS	3/8 (-06)	9.5	N/A	5502-06B-06	2.58 (65.5)	2.40 (61.0)	0.32 (8.1)	0.38 (9.7)	0.46 (11.7)	0.71 (18.0)	0.49 (12.4)	0.83 (21.1)	M20-1.5	1.65 (6.72)	
1/4 ODS (-04)	6.4 ODS	1/2 (-08)	12.7	5502-04-08	5502-04B-08	3.31 (84.1)	3.26 (82.8)	0.31 (7.9)	0.25 (6.4)	0.38 (9.7)	0.92 (23.4)	0.62 (15.7)	1.13 (28.7)	1-20	3.11 (88.08)	
1/4 ODS (-04)	6.4 ODS	1/2 (-08)	12.7	5502-04-08	5502-04S-08	3.47 (88.1)	3.26 (82.8)	0.31 (7.9)	0.25 (6.4)	0.38 (9.7)	0.92 (23.4)	0.62 (15.7)	1.13 (28.7)	1-20	3.11 (88.08)	
3/8 ODS (-06)	9.5 ODS	1/2 (-08)	12.7	5502-06-08	5502-06B-08	3.29 (83.6)	3.24 (82.3)	0.31 (7.9)	0.38 (9.7)	0.47 (12.0)	0.92 (23.4)	0.62 (15.7)	1.13 (28.7)	1-20	3.11 (88.08)	
3/8 ODS (-06)	9.5 ODS	1/2 (-08)	12.7	5502-06-08	5502-06S-08	3.45 (87.6)	3.24 (82.3)	0.31 (7.9)	0.38 (9.7)	0.47 (12.0)	0.92 (23.4)	0.62 (15.7)	1.13 (28.7)	1-20	3.11 (88.08)	
1/2 ODS (-08)	12.7 ODS	1/2 (-08)	12.7	5502-08-08	5502-08B-08	3.25 (82.6)	3.20 (81.3)	0.38 (9.7)	0.50 (12.7)	0.59 (14.9)	0.92 (23.4)	0.62 (15.7)	1.13 (28.7)	1-20	3.11 (88.08)	
1/2 ODS (-08)	12.7 ODS	1/2 (-08)	12.7	5502-08-08	5502-08S-08	3.41 (86.6)	3.20 (81.3)	0.38 (9.7)	0.50 (12.7)	0.59 (14.9)	0.92 (23.4)	0.62 (15.7)	1.13 (28.7)	1-20	3.11 (88.08)	
5/8 ODS (-10)	15.9 ODS	1/2 (-08)	12.7	5502-10-08	5502-10B-08	3.23 (82.0)	3.18 (80.8)	0.50 (12.7)	0.63 (16.0)	0.71 (17.9)	0.92 (23.4)	0.62 (15.7)	1.13 (28.7)	1-20	3.11 (88.08)	
5/8 ODS (-10)	15.9 ODS	1/2 (-08)	12.7	5502-10-08	5502-10S-08	3.91 (99.3)	3.18 (80.8)	0.50 (12.7)	0.63 (16.0)	0.71 (17.9)	0.92 (23.4)	0.62 (15.7)	1.13 (28.7)	1-20	3.11 (88.08)	
5/8 ODS (-10)	15.9 ODS	3/4 (-12)	19.1	5502-10-12	5502-10S-12	3.91 (117.9)	3.70 (103.9)	0.50 (12.7)	0.63 (16.0)	0.75 (19.1)	1.32 (33.5)	0.99 (25.1)	1.63 (41.4)	1-7/16-16	7.31 (207.36)	
3/4 ODS (-12)	19.1 ODS	3/4 (-12)	19.1	5502-12-12	5502-12S-12	3.96 (100.6)	3.75 (95.3)	0.62 (15.7)	0.75 (19.1)	0.86 (21.7)	1.32 (33.5)	0.99 (25.1)	1.63 (41.4)	1-7/16-16	7.31 (207.36)	
7/8 ODS (-14)	22.2 ODS	3/4 (-12)	19.1	5502-14-12	5502-14S-12	3.96 (100.6)	3.75 (95.3)	0.75 (19.1)	0.88 (22.4)	0.97 (24.6)	1.32 (33.5)	0.99 (25.1)	1.63 (41.4)	1-7/16-16	7.31 (207.36)	
7/8 ODS (-14)	22.2 ODS	1 (-16)	25.4	5502-14-16	5502-14S-16	4.68 (118.9)	4.37 (111.0)	0.75 (19.1)	0.88 (22.4)	1.02 (25.8)	1.68 (42.7)	1.03 (26.2)	1.88 (47.8)	1-3/4-16	10.81 (306.44)	
1 ODS (-16)	25.4 ODS	1 (-16)	25.4	5502-16-16	5502-16S-16	4.76 (120.9)	4.45 (113.0)	0.88 (22.4)	1.00 (25.4)	1.12 (28.4)	1.68 (42.7)	1.03 (26.2)	1.88 (47.8)	1-3/4-16	10.81 (306.44)	
1-1/8 ODS (-18)	28.6 ODS	1 (-16)	25.4	5502-18-16	5502-18S-16	4.76 (120.9)	4.45 (113.0)	0.88 (22.4)	1.13 (28.7)	1.24 (31.4)	1.68 (42.7)	1.03 (26.2)	1.88 (47.8)	1-3/4-16	10.81 (306.44)	

All dimensions in inches (mm)

\* Dash size = copper connection size x 16

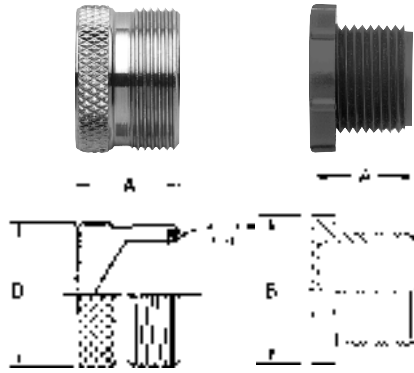
\*\* "B" in the part number denotes a plastic plug. "S" in the part number denotes a steel plug.

+ Dimension is across hex flats.

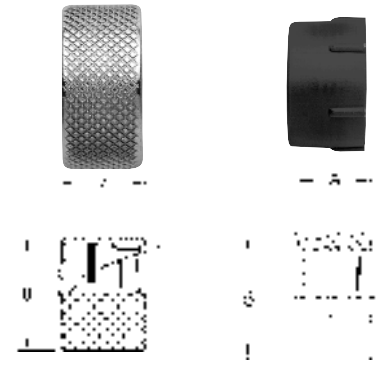
Accessories

5500 Series Self-Sealing Brass Coupling

**Protective Plugs**  
(Bulk package, 25/package)



**Protective Caps**  
(Bulk package, 25/package)



Coupling Body Size		Part Number	Dimensions		Weight
(Dash Size*)	mm		Length A	Diameter B	Ounces (Grams)
<b>Plastic</b>					
3/8 (-06)	9.5	5410-06-BULK	0.72 (18.3)	1.04 (26.4)	0.09 (2.68)
1/2 (-08)	12.7	5410-08-BULK	0.04 (9.9)	1.20 (30.5)	0.07 (1.90)
<b>Steel</b>					
1/2 (-08)	12.7	5400-S8-08-BULK	0.72 (18.3)	1.00 (25.4)	1.48 (41.92)
3/4 (-12)	19.1	5400-S8-12-BULK	1.13 (28.7)	1.44 (36.6)	4.84 (137.34)
1 (-16)	25.4	5400-S8-16-BULK	1.25 (31.8)	1.75 (44.5)	7.93 (224.76)

Coupling Body Size		Part Number	Dimensions		Weight
(Dash Size*)	mm		Length A	Diameter B	Ounces (Grams)
<b>Plastic</b>					
3/8 (-06)	9.5	5409-06-BULK	0.55 (14.0)	0.93 (23.6)	0.04 (1.12)
1/2 (-08)	12.7	5409-08-BULK	0.50 (12.7)	1.01 (25.7)	0.06 (1.70)
<b>Steel</b>					
1/2 (-08)	12.7	5400-S6-08-BULK	0.56 (14.2)	1.13 (28.7)	1.08 (30.58)
3/4 (-12)	19.1	5400-S6-12-BULK	0.56 (14.2)	1.63 (41.4)	2.38 (67.48)
1 (-16)	25.4	5400-S6-16-BULK	0.75 (19.1)	2.00 (50.8)	4.98 (141.20)

All dimensions in inches (mm)

\* Dash size = copper connection size x 16

All dimensions in inches (mm)

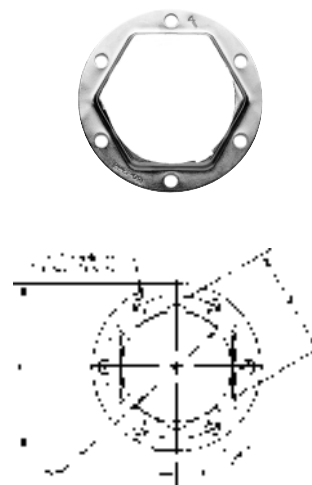
\* Dash size = copper connection size x 16

**Mounting Flange (Steel)**

Coupling Body Size		Part Number	Dimensions			Weight
(Dash Size*)	mm		Diameter A	Circle Diameter	Diameter C	Ounces (Grams)
3/8 (-06)	9.5	N/A	N/A	N/A	N/A	
1/2 (-08)	12.7	150-22-08	1.13 (28.7)	1.69 (42.9)	2.00 (50.8)	0.48 (13.73)
3/4 (-12)	19.1	150-22-12	1.63 (41.4)	2.12 (53.9)	2.50 (63.5)	0.71 (20.16)
1 (-16)	25.4	150-22-16	1.88 (47.8)	2.38 (60.5)	2.75 (69.9)	0.72 (20.37)

All dimensions in inches (mm)

\* Dash size = copper connection size x 16



Couplings

How to Order

**5502**

Coupling  
Type

Product Type
5502 = Male Coupling Half
5505 = Female Coupling Half

**04**

Copper  
Connection Size

Copper Connection (Denoted xx/16)
-04 = 1/4" (6.4 mm)
-06 = 3/8" (9.5 mm)
-08 = 1/2" (12.7 mm)
-10 = 5/8" (15.9 mm)
-12 = 3/4" (19.1 mm)
-14 = 7/8" (22.2 mm)
-16 = 1" (25.4 mm)
-18 = 1-1/8" (28.6 mm)

**B**

Cap  
Requirements

Cap
0 = No Cap
B = Includes Plastic Protective Cap or Plug
S = Includes Steel Protective Cap or Plug

**06**

Coupling  
Body Size

Coupling Body Size (Denoted xx/16)
-06 = 3/8" (9.5 mm)
-08 = 1/2" (12.7 mm)
-12 = 3/4" (19.1 mm)
-16 = 1" (25.4 mm)

## 5700 Series One-Shot™ Brass Couplings

Parker's 5700 One-Shot Brass Couplings are used in fluid-transfer applications for easy installation on refrigeration and air conditioning systems. Applications typically include split air conditioning systems, split heat pumps, and manufactured homes.

### Specifications

<b>PRODUCT: 5700 Series One Shot™ Brass Coupling</b>	
Operating Temperature Range	-40°F to 250°F (-40°C to +121°C)
Operating Pressure Range, Connected Male & Female Coupling -06, -08, -12 & -16 Body Sizes	Vacuum to 750 psi (52 bar)
Operating Pressure Range, Disconnected Male Coupling Half -06, -08, -12 & -16 Body Sizes Female Coupling Half -06 & -08 Body Sizes -12 Body Size -16 Body Size	Vacuum to 750 psi (52 bar) Vacuum to 600 psi (41 bar) Vacuum to 550 psi (40 bar) Vacuum to 333 psi (23 bar)
Minimum Burst Pressure, Connected Male & Female Coupling -06, -08, -12 & -16 Body Sizes	2,700 psi (186 bar)
Minimum Burst Pressure, Disconnected Male Coupling Half -06, -08, -12 & -16 Body Sizes Female Coupling Half -06 & -08 Body Size -12 Body Size -16 Body Size	2,700 psi (186 bar) 1,800 psi (124 bar) 1,650 psi (114 bar) 1,000 psi (70 bar)
Maximum Air Inclusion (During Connection) Male & Female Coupling Halves -06 Body Size -08 Body Size -12 Body Size -16 Body Size	0.15 cc per connection 0.10 cc per connection 0.20 cc per connection 0.40 cc per connection
Maximum Fluid Loss (During Disconnection) Male & Female Coupling Halves -06 & -08 Body Sizes -12 Body Size -16 Body Size	0.10 cc per disconnection 0.30 cc per disconnection 0.20 cc per disconnection
<b>MATERIALS</b>	
Coupling Body	Brass Bar per ASTM-B16, Alloy C3600
Connections	Refrigeration Grade Copper, per ASTM-B75, Alloy C12200
Valve Stem Assembly (Female Coupling)	Chromate Plated Steel
Bonded Poppet (Male Coupling)	Neoprene™
Bonded Sleeve (Female Coupling)	Neoprene™
<b>MATERIAL COMPATIBILITY *</b>	
All components, bonded poppet and sleeve, and valve stem O-Ring seal are compatible with these refrigerants and refrigerant oils: R22 & mineral oil, alkylbenzene oil, or polyolester oil R134a, R404a, R407c, R410a, or R507 & polyolester oil	
Vibration Resistance	Complies with UL 109
External Leak Rate, Connected -06, -08, -12 & -16 Body Sizes	< 0.1 ounce (2.96 ml) of R22 refrigerant per year at Operating Pressure Range
External Leak Rate, Disconnected -06, -08, -12 & -16 Body Sizes Without Protective Metal Cap or Plug Installed -08, -12 & -16 Body Sizes With Protective Metal Cap or Plug Installed*	< 0.50 ounce (14.79 ml) of R22 refrigerant per year < 0.25 ounce (7.39 ml) of R22 refrigerant per year



### Application

- Split air conditioning systems
- Split heat pumps
- Manufactured homes

### Base Product Part Number

- 5780 Female coupling half without charge port
- 5781 Female coupling half with charge port
- 5782 Male coupling half without charge port
- 5783 Male coupling half with charge port

### Features and Benefits

- Single-use coupling contains a diaphragm that is pierced upon connection and folded back into the coupling to provide a high flow path and low pressure drop.
- Final metal-to-metal seal keeps air inclusion to a minimum.
- Brass coupling provides corrosion resistance.
- Copper-sweat connections provide basic ends for brazing and eliminate the need for flux, simplifying the installation process.
- Brass sweat connections and panel-mounting options are available for the unique needs of a unit.
- Male/female charge ports can be included for easy system diagnostics.
- Stub kits (FD57) are also available with copper connections.

### Agency Approvals

UL listed; File No: SA2709

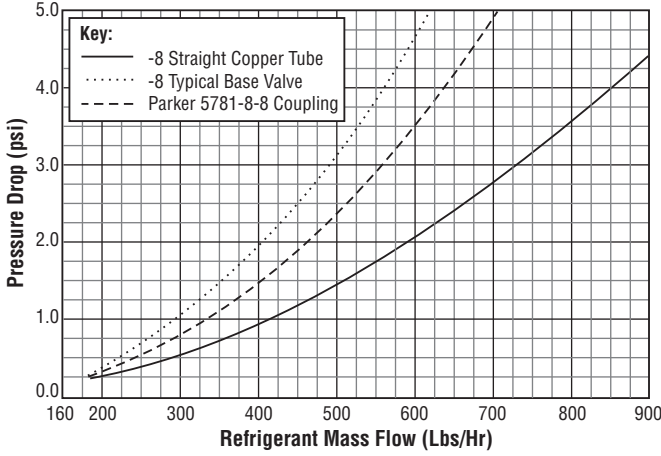
### Specifications Notes:

- \* Protective metal cap/plug not available for -06 Coupling Body Size
- + Due to the numerous manufacturers of refrigerant oils and continuous changes of additives, compatibility cannot be guaranteed. Contact Parker for compatibility of refrigerant oils not listed.

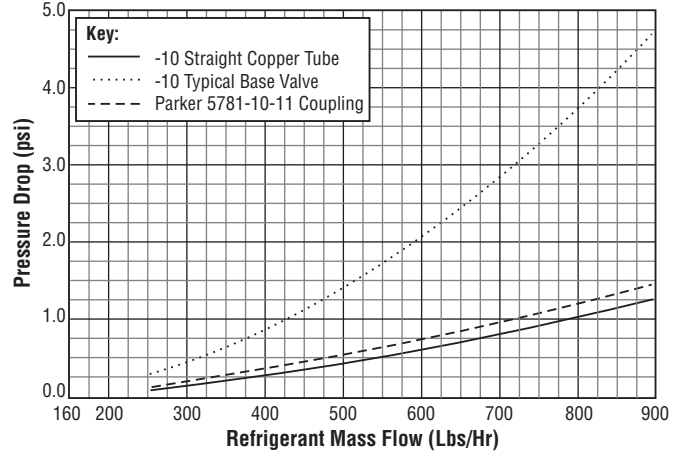
**Pressure Drop Comparison**

The graphs below show significant reduction in pressure drop and associated efficiency gains utilizing Parker 5700 Series Couplings vs. standard base valves.

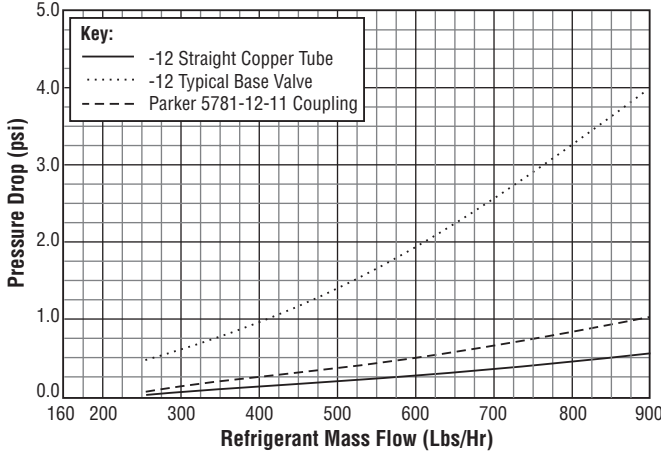
**Pressure Drop vs. Mass Flow**  
 -8 Suction Line, Refrigerant -22



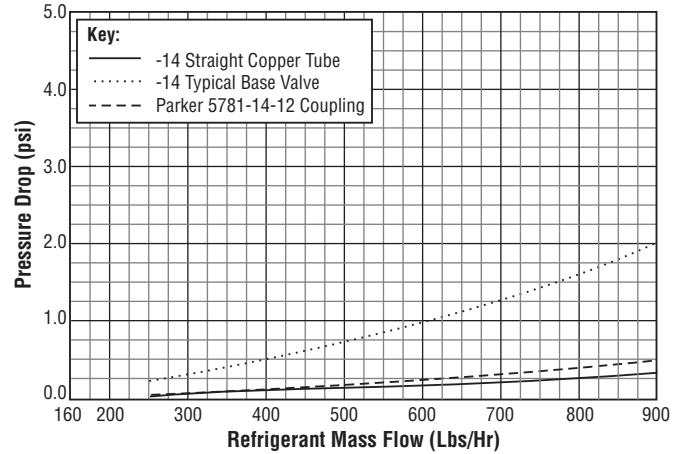
**Pressure Drop vs. Mass Flow**  
 -10 Suction Line, Refrigerant -22



**Pressure Drop vs. Mass Flow**  
 -12 Suction Line, Refrigerant -22



**Pressure Drop vs. Mass Flow**  
 -14 Suction Line, Refrigerant -22

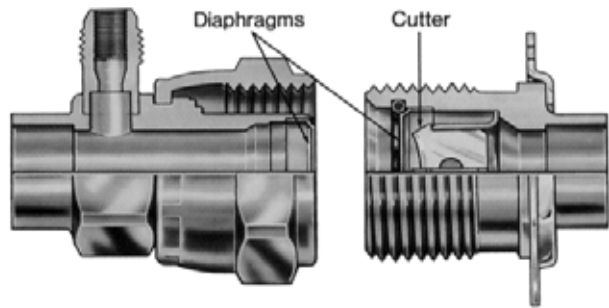


**Design and Operation**

A complete 5780 Series Coupling consists of the combination of male and female coupling halves. Either coupling half is available with or without a charging port, depending on the particular application.

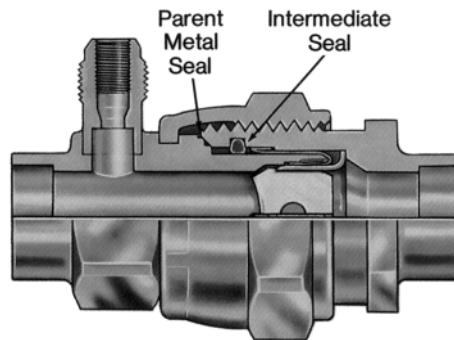
**Coupling Halves Before Connection**

Diaphragms in the coupling halves provide a seal that prevents refrigerant loss before connection. The male half (right unit) contains a cutter blade, the metal refrigerant sealing diaphragm and intermediate synthetic rubber seal which prevent loss of refrigerant while the coupling is being connected. The female half (left unit) contains a metal diaphragm which is a leak-proof metal closure.

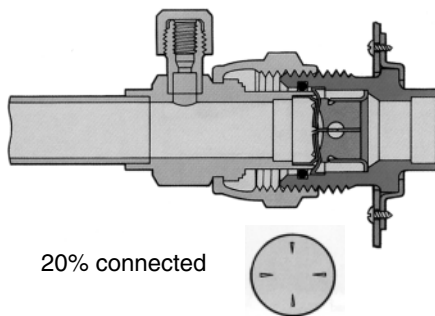


**Coupling Halves Connected**

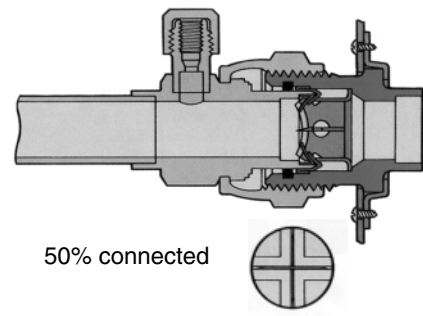
Tightening the union nut draws the coupling halves together, piercing and folding both metal diaphragms back and opening the fluid passage, thereby providing minimal restriction to flow. When fully coupled, a parent metal seal forms a permanent leakproof joint between the two coupling halves preventing the loss of refrigerant to the atmosphere.



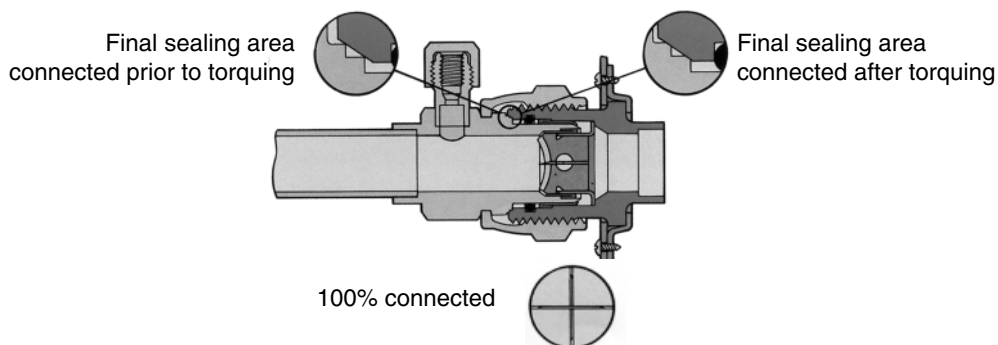
The cutaway views below show male and female coupling halves joined at 20%, 50%, and 100% connection. Note the way the cutter blades pierce the diaphragms and fold them back out of the flow path. Also note the difference in the final sealing area before and after torquing.



20% connected



50% connected



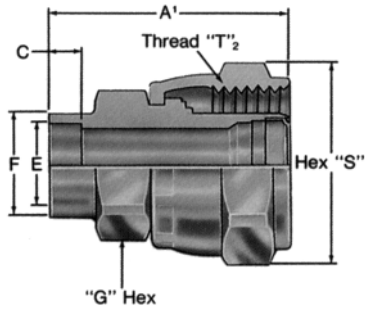
100% connected

Couplings

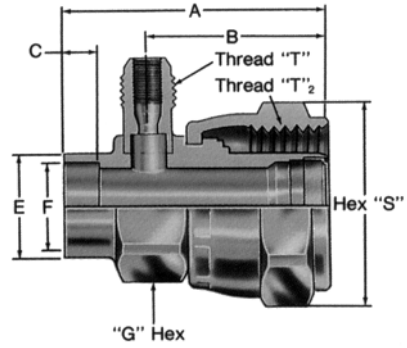
**Dimensions**

**5700 Series One-Shot™ Brass Couplings**

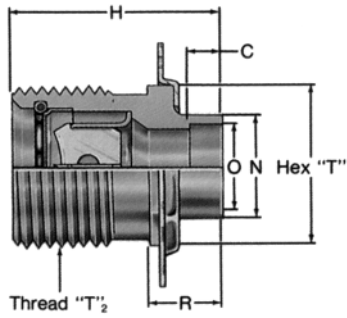
**5780-Size Female Half without Charge Port**



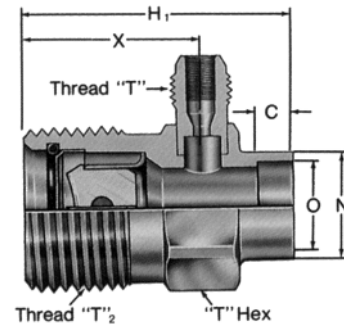
**5781-Size Female Half with Charge Port**



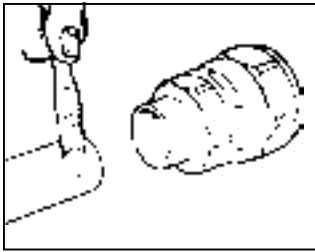
**5782-Size Male Half without Charge Port**



**5783-Size Male Half with Charge Port**

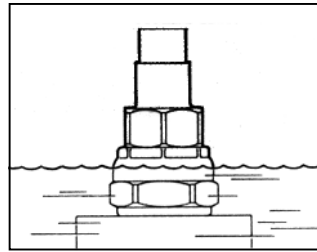


**Factory Brazing Instructions**



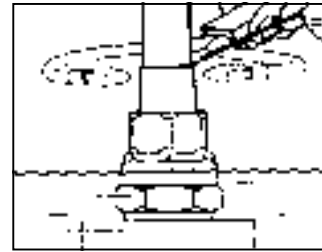
**Step 1** Sparingly apply paste flux to the copper tube.

**Note:** Liquid flux or excessive flux can run inside the coupling and cause corrosion.

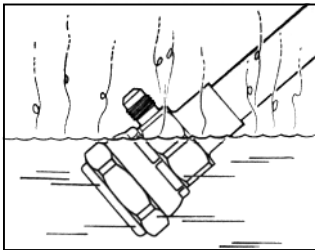


**Step 2** Immerse the coupling (diaphragm end) into a flowing cool water bath.

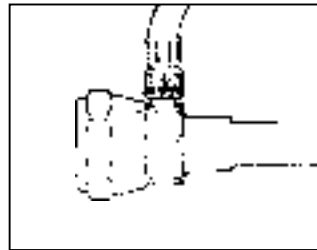
- 5780 and 57781 female halves: Water level should be halfway up the nut and the nut hex fully immersed.
- 5782 and 5783 male halves: Water level should fully cover the threads.



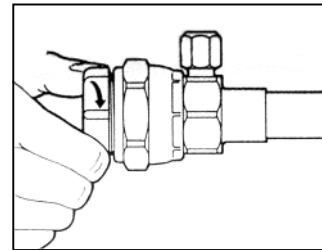
**Step 3** Use a double tip torch to promote even heating and reduce braze time.



**Step 4** After the alloy solidifies, quench the tubing and coupling to reduce the temperature below 400°F. Make sure the water does not enter the open charge port in the 5781 or 5783 half.



**Step 5** The couplings can be subjected to unit test pressures up to 300 psig. If pressures in excess of 300 psig are used, the protector caps and plugs should be installed



**Step 6** Protector caps and plugs should be installed finger tight. Overtightening can damage the diaphragm. The diaphragm and O-ring can be lubricated with refrigerant oil prior to installing the protector caps or plugs as added assurance of proper lubrication when connected at unit installation.

**Male-Half Installation Procedure**

Male half (5782) should be mounted with the hex on the inside of the unit held in place with the appropriate mounting flange. Sheet metal opening, screw hole diameter, and mounting bolt circle dimensions are included in the chart below.

Coupling Part Number	Coupling Hex Size	Recommended Sheet Metal Opening	Flange Part Number	Mounting Bolt Circle	Screw Hole Diameter
5782-Size-6	3/4"	0.656	5700-22-6	1.44	0.201
5782-Size-6	3/4"	0.656	5700-22-6	1.44	0.153
5782-Size-8	15/16"	0.969	FD67-1008-10	1.69	0.153
5782-Size-10	1-1/16"	1.094	FD67-1110-10	1.69	0.201
5782-Size-10	1-1/16"	1.094	FD67-1008-12	1.69	0.153
5782-Size-11	1-1/8"	1.156	150-22-8	1.69	0.201
5782-Size-11	1-1/8"	1.156	5700-22-10	1.69	0.153
5782-Size-12	1-7/16"	1.469	FD57-1110-12	2.12	0.201
5782-Size-12	1-7/16"	1.469	FD57-1111-12	2.12	0.153

All dimensions in inches.



**Installation Instructions**

- Step 1** Braze coupling to clean copper tubing.
- Step 2** Install plastic dust plug.
- Step 3** Apply refrigeration oil to the diaphragm and threads of the couplings on the indoor unit.
- Step 4** Connect the line set couplings finger tight. **Do not use a wrench.** The O-ring will seal.
- Step 5** Repeat steps 3 and 4 on the outdoor unit.

- Step 6** Evacuate and charge the line set per the manufacturer's instructions. Retighten the charge port cap.
- Step 7** Tighten all four coupling connections with a wrench until seated or a definite resistance is felt. Mark a line on the swivel nut and unit. Using the line as a guide, tighten an additional 1/4 turn.
- Step 8** Leak check the braze and coupling joints. Follow the manufacturer's instructions for start up.

**Reconnection Instructions**

**Note:** The O-ring is only an intermediate seal during the initial connection of a precharged unit/line set combination. The O-ring is only used for sealing between the time the diaphragm is pierced and the final metal-to-metal seal is made.

The final leak-proof seal is a metal-to-metal connection made between the male and female coupling bodies.

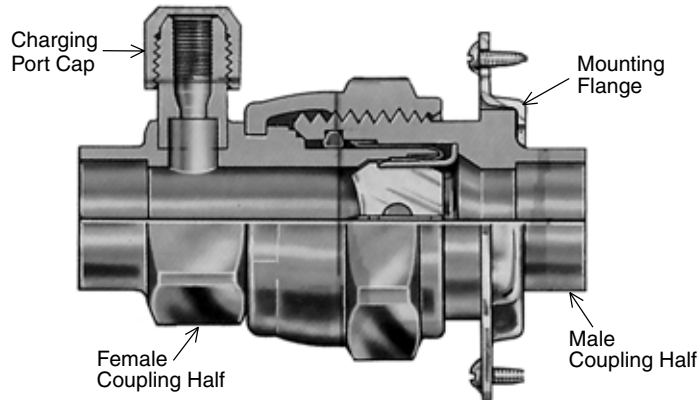
- Step 1** Upon disconnection, remove O-ring.
- Step 2** If O-ring is missing from groove, insure O-ring is not lodged inside coupling halves and reconnect without O-ring.
- Step 3** Route the suction line and liquid line between the indoor and outdoor unit.
- Step 4** Remove protector caps and plugs.
- Step 5** Carefully wipe coupling seats and threaded surfaces with a clean cloth, to prevent the inclusion of dirt or any foreign material in the system.

- Step 6** Lubricate male half diaphragm and synthetic rubber seal with system-compatible refrigerant oil. Thread coupling halves together by hand to insure proper mating of threads. Use proper size wrenches (on coupling body hex and on union nut) and tighten until coupling bodies sea" or a definite resistance is felt.
- Step 7** Using a marker, mark a line lengthwise from the coupling union nut to the bulkhead. Then tighten an additional 1/4 turn; the misalignment of the line will show the amount the coupling has been tightened. This final 1/4 turn is necessary to insure the formation of a leakproof joint.

If a torque wrench is used, the following torque values are recommended:

Coupling Size	Ft/Lbs
-6	10-12
-10	35-45
-11	35-45
-12	55-65

Order Options



Basic Coupling Size	O.D. Tube Size	Female Coupling Half without Charging Port (Includes Plug)	Female Coupling Half with Charging Valve Port less Cap and Core (Includes Plug)	Male Coupling Half with Protector Cap less Mounting Flange	Male Coupling Half with Charging Valve Port less Cap and Core (Includes Plug)	Mounting Flanges for 5782 Couplings Only		Charging Port Cap	Charging Valve Core
						Bolt Hole Dia. 0.15 (#10 Screw)	Bolt Hole Port (#14 Screw)		
-6	1/4	5780-4-6	5781-4-6	5782-4-6	5783-4-6	5706-22-6	5700-22-6	221014-4B	222034-4
-6	5/16	5780-5-6	5781-5-6	5782-5-6	5783-5-6	5706-22-6	5700-22-6	221014-4B	222034-4
-6	3/8	5780-6-6	5781-6-6	5782-6-6	5783-6-6	5706-22-6	5700-22-6	221014-4B	222034-4
-8	3/8	5780-6-8	5781-6-8	5782-6-8	-	FD67-1008-10	-	221014-4B	222034-4
-8	1/2	5780-8-8	5781-8-8	5782-8-8	-	FD67-1008-10	-	221014-4B	222034-4
-8	5/8	5780-10-8	5781-10-8	5782-10-8	-	FD67-1008-10	-	221014-4B	222034-4
-10	1/2	5780-8-10	5781-8-10	5782-8-10	5783-8-10	FD67-1008-12	FD57-1111-10	221014-4B	222034-4
-10	5/8	5780-10-10	5781-10-10	5782-10-10	-	FD67-1008-12	FD57-1111-10	221014-4B	222034-4
-10	3/4	5780-12-10	5781-12-10	5782-12-10	5783-12-10	FD67-1008-12	FD57-1111-10	221014-4B	222034-4
-11	1/2	5780-8-11	5781-8-11	5782-8-11	5783-8-11	5700-22-10	150-22-8	221014-4B	222034-4
-11	5/8	5780-10-11	5781-10-11	5782-10-11	5783-10-11	5700-22-10	150-22-8	221014-4B	222034-4
-11	3/4	5780-12-11	5781-12-11	5782-12-11	5783-12-11	5700-22-10	150-22-8	221014-4B	222034-4
-11	7/8	5780-14-11	5781-14-11	5782-14-11	5783-14-11	5700-22-10	150-22-8	221014-4B	222034-4
-12	3/4	5780-12-12	5781-12-12	5782-12-12	-	FD57-1111-12	FD57-1110-12	221014-4B	222034-4
-12	7/8	5780-14-12	5781-14-12	5782-14-12	-	FD57-1111-12	FD57-1110-12	221014-4B	222034-4
-12	1-1/8	5780-18-12	5781-18-12	5782-18-12	-	FD57-1111-12	FD57-1110-12	221014-4B	222034-4

Couplings

## RC04 Series Dual-Line ConnectAire™ Couplings

Parker's RC04 Dual-Line ConnectAire™ Couplings are used in fluid-transfer applications for easy maintenance on refrigeration and air conditioning systems. Applications can also include portable air conditioners, split refrigeration systems, and mini-split air conditioning & heat pump systems up to 2-tons.

### Application

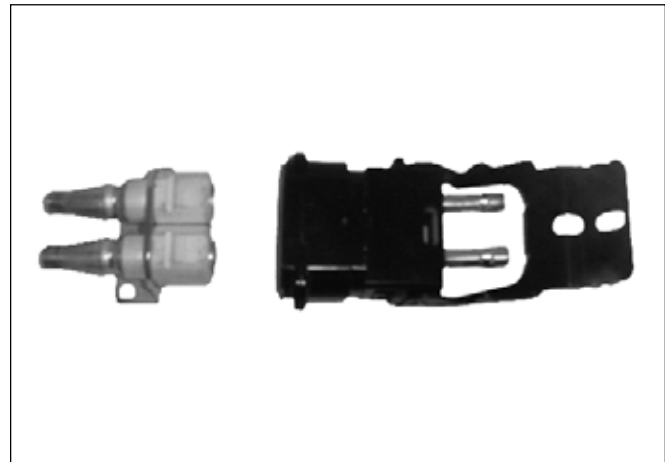
- Split refrigeration systems
- Mini-split air conditioning and heat pump systems up to 2-tons
- Portable air conditioners

### Base Product Part Number

RC04-A01-6666 & A02-6666 Male Coupling  
 RC04-B01-6666, B02-6666,  
 B04-6666 & B06-6565 Female Coupling

### Features and Benefits

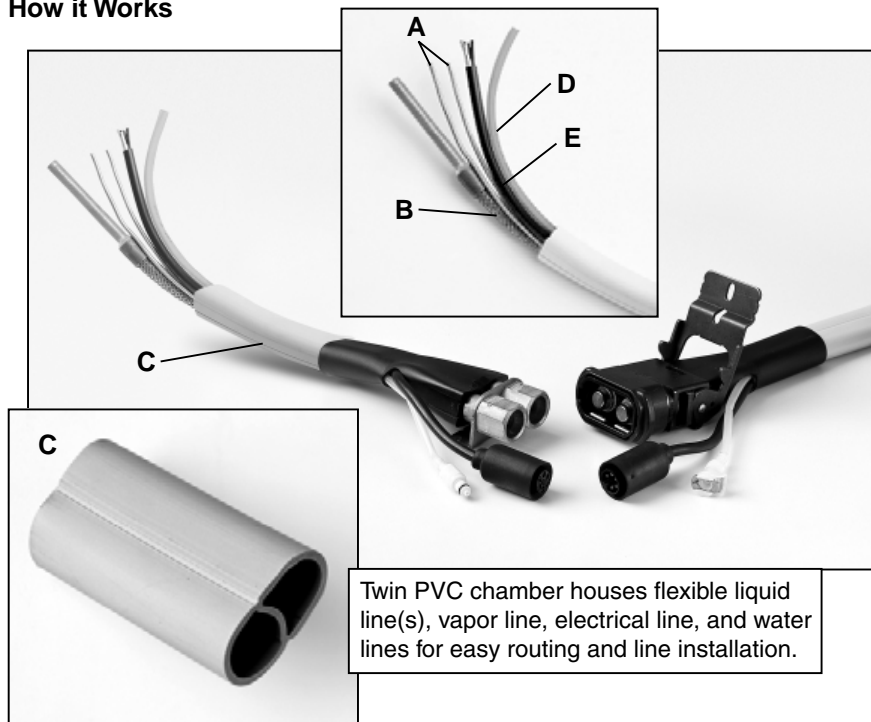
- Simultaneously and quickly connects both liquid and vapor lines without the use of tools.
- Self-sealing upon disconnection maintains minimum inclusion of air and loss of fluid.
- Brass coupling provides corrosion resistance.
- Copper-sweat connections provide basic ends for brazing and eliminate the need for flux, simplifying the installation process.
- Panel mounting options are available for the unique needs of a unit.



### Specifications

Coupling Size	-6
Maximum Operating Pressure bar (psi)	27.6 (400)
Minimum Burst Pressure bar (psi)	137.9 (2000)
Vacuum Microns	50
Air Inclusion Per. Valve (cc. max.)	0.025
Operating Temperature Range °C (°F)	-40C to +121°C (-40°F to +250°F)
R22 Connected Leakage/Effusion Rating	<0.1 oz./yr.
Reusable Connections	>1000

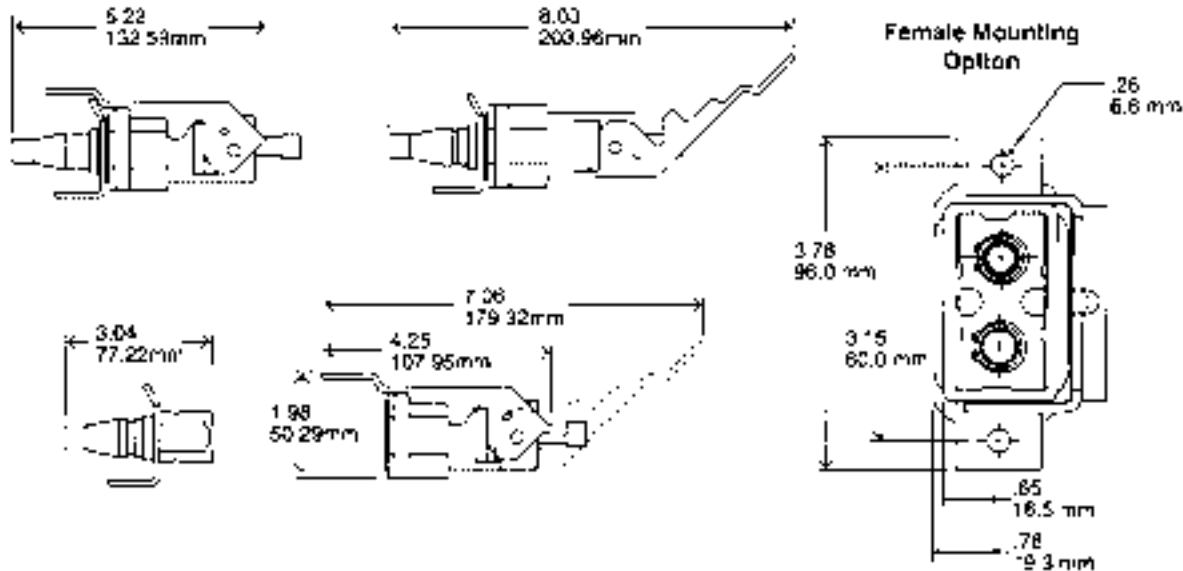
### How it Works



- A – Liquid Line (High Pressure)** — Liquid or capillary lines.
- B – Vapor Line (Low Pressure)** — Flexible, stainless steel line with copper tube end for easy factory installation.
- C – Cover** — Flexible protective sleeve.
- D – Condensate** — Flexible condensate line for water drainage.
- E – Electrical** — Wiring harnesses custom-made to your exact specifications.

Twin PVC chamber houses flexible liquid line(s), vapor line, electrical line, and water lines for easy routing and line installation.

Dimension Data



Installation Instructions

To Connect:

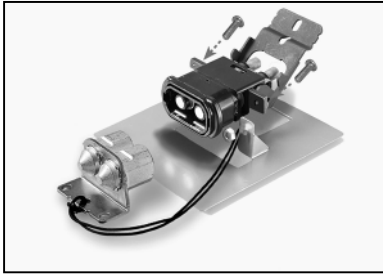
- Step 1** Ensure that the handle on the female coupling is in a reclined position away from the mating male coupling
- Step 2** Retract the “Release Sleeve” on Female Coupling and insert the mating male coupling, located on the outside unit.
- Step 3** Release the “Release Sleeve” to lock the male coupling into place
- Step 4** Fold the female coupling handle towards the male coupling half and push until the handle seals behind the “Release Sleeve” and flat against the entire coupling assembly.
- Step 5** Connect the auxiliary electrical and condenser lines.
- Step 6** Connect the electrical power cord from the A/C unit into the appropriate electrical wall outlet and start the A/C unit.

To Disconnect:

- Step 1** Shut down the A/C unit and unplug the electrical power cord from the wall outlet.
- Step 2** Wait five minutes for the line pressure between the indoor compressor unit and outdoor condensing unit to equalize.
- Step 3** Pull the female coupling handle up and toward the female coupling to the “full back” position.
- Step 4** Retract the “Release Sleeve” on the Female Coupling to release the male coupling half from the female half.
- Step 5** Disconnect the auxiliary electrical and condenser lines.
- Step 6** The indoor compressor unit can now be moved to another location.

Couplings

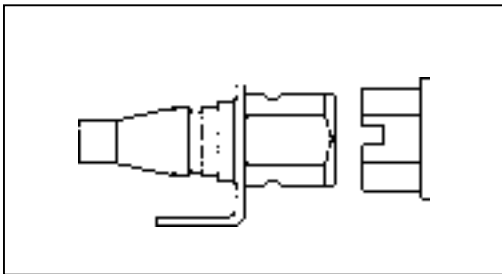
**Female Mounting Option**



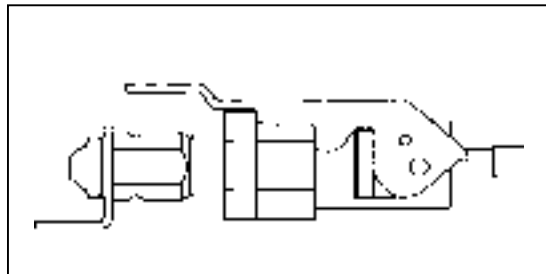
**Protective Transition Boot**



**Male Half — Protective Cap for Male Half**



**Female Half — Protective Plug for Female Half**



## RC01C Series Automotive R134A Process Coupling

Parker's RC01C Automotive Process Coupling provides easy evacuating and charging of HFC-134a mobile air conditioning systems.

### Application

- Evacuating and charging of HFC-134a air conditioning systems

### Base Product Part Number

RC01C-002 Lowside field service coupling

RC01C-003 Highside field service coupling

\*See the following page for brass and plated part numbers and configurations.

### Features and Benefits

- Safety feature prevents coupling from flowing unless connected to service port.
- Brass coupling, with or without plating, provides corrosion resistance.
- Red anodized knob on the high side and blue anodized knob on the low side, along with distinct sizes, assist in preventing cross-contamination between sections of the system.

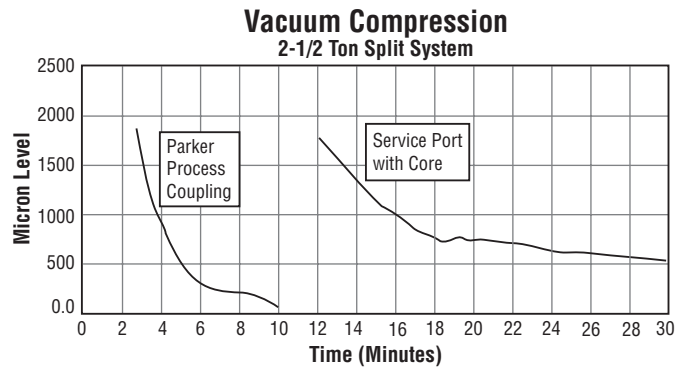
### Agency Approvals

RC01C – UL recognized; File No. SA2709

U.S. Patent No. RE34,781



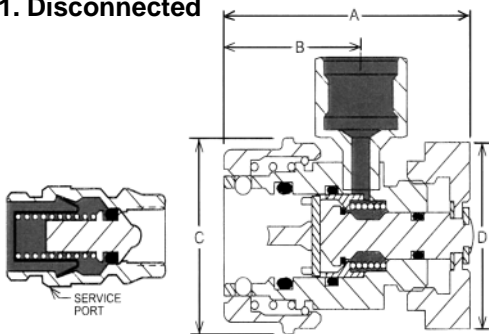
### Vacuum Compression



With flow equal to a 3/8" tube, Parker process couplings evacuate refrigerant in one-sixth of the time of current service ports.

### Connection and Actuation – RC01C002 & RC01C003

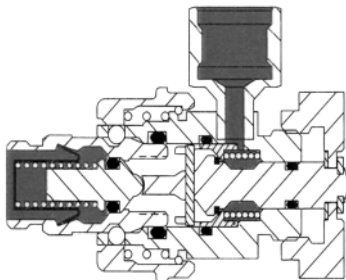
#### 1. Disconnected



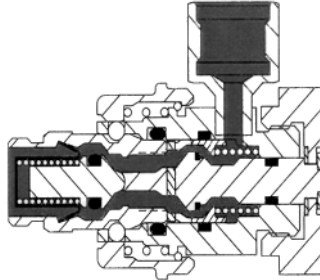
System Side	Part No.	A Ref.	B Ref.	C Ref.	D Ref.
Low Side	RC01C002	1.89	1.08	1.31	1.25
High Side	RC01C003	1.87	1.05	1.31	1.25

= Flow Path

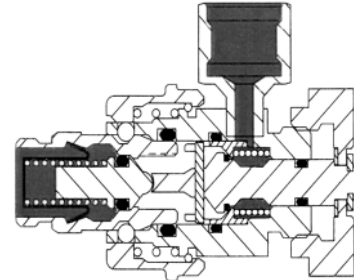
#### 2. Connected



#### 3. Service Port Open



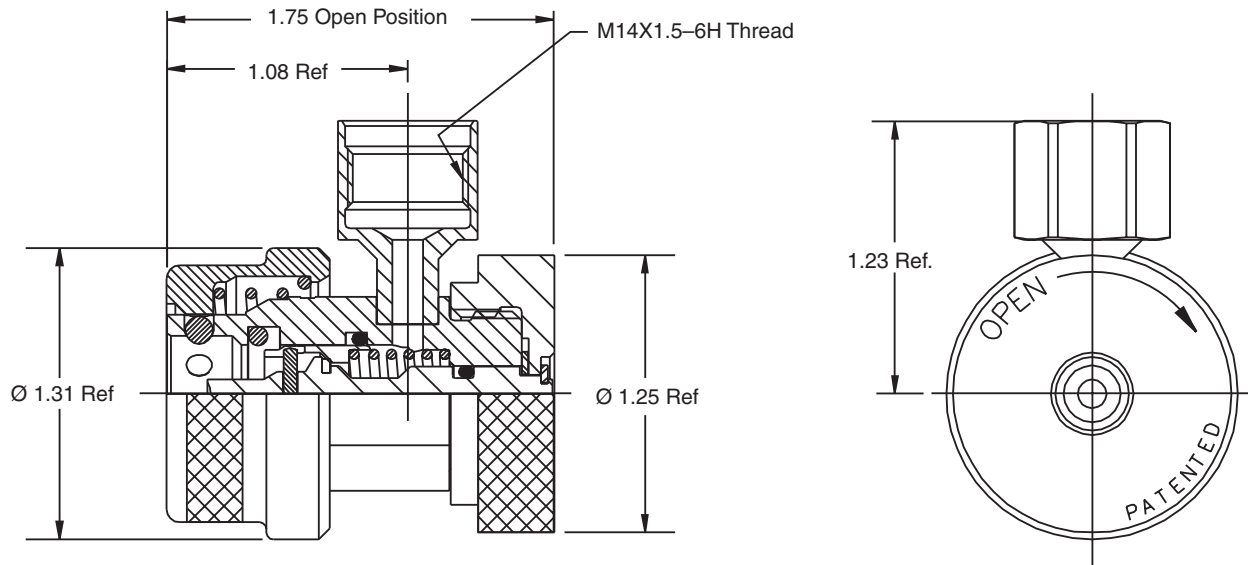
#### 4. Service Port Closed



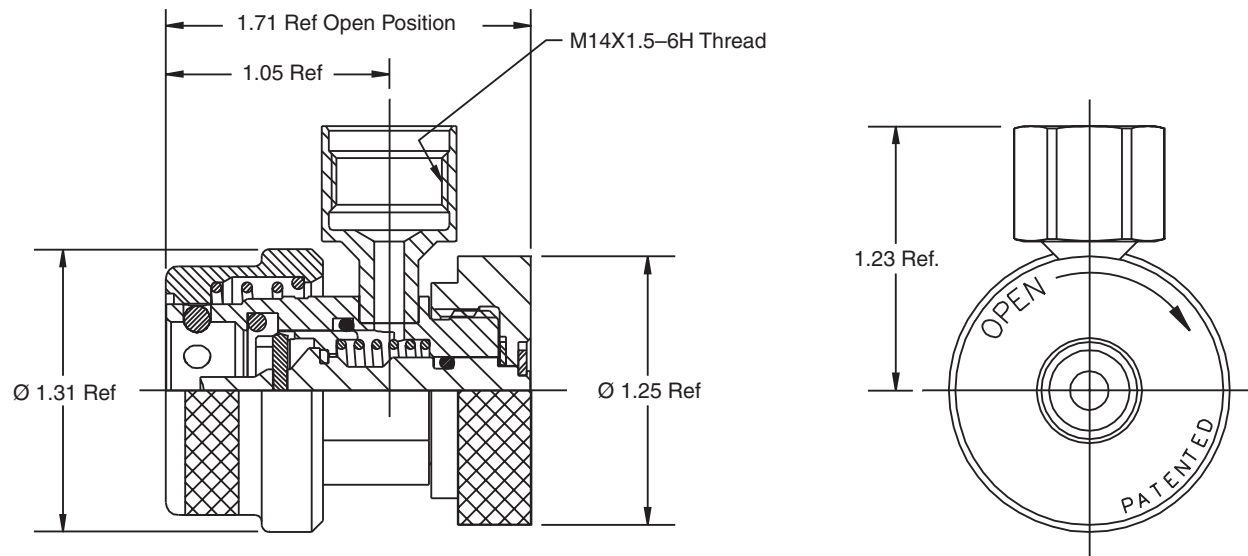
**Dimensions**

**RC01C Series Automotive R134A Process Coupling**

**RC01C-002 Service Coupling Assembly  
Low Side, R134a**



**RC01C-003 Service Coupling Assembly  
High Side, R134a**

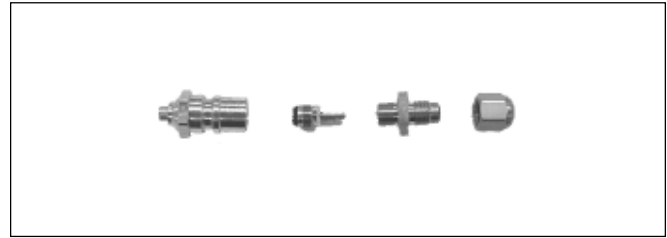


Finish	Side Port	System Side	Part Number
Plated	14 mm Female	Low Side	RC01C-002
Plated	14 mm Female	High Side	RC01C-003
Plated	5/8" - 18 Male	Low Side	RC01C-006
Plated	5/8" - 18 Male	High Side	RC01C-007
Plated	7/16" - 20 Male	Low Side	RC01C-011
Plated	7/16" - 20 Male	High Side	RC01C-012

Finish	Side Port	System Side	Part Number
Brass	14 mm Female	Low Side	RC01C-021
Brass	14 mm Female	High Side	RC01C-022
Brass	7/16" - 20 Male	Low Side	RC01C-023
Brass	7/16" - 20 Male	High Side	RC01C-024

## RC05 Series Multi-Purpose Process Coupling

Parker's RC05 Multi-Purpose Process Coupling provides rapid in-plant processing of air conditioning and heat pump systems. A service adapter also provides evacuation and charging of units in the field.

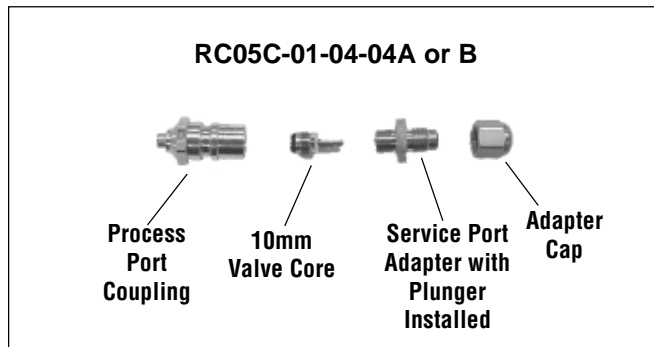
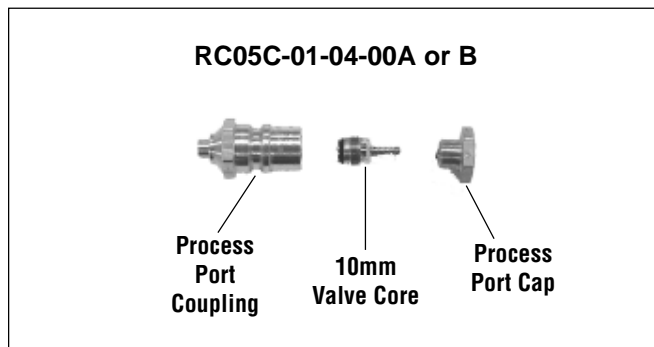


### Application

- Residential split-system air conditioners and heat pumps.
- Packaged air conditioners and heat pumps.
- Ice making systems.

### Base Product Part Number

RC05



### Features and Benefits

- Valve core is installed in the process port coupling to eliminate accidental removal in the field, reducing the potential for injury and refrigerant loss.
- Optional adapter converts process coupling to a standard field service port, eliminating the need for a separate service port and additional braze joints.
- Distinct coupling interfaces, one for R-22 and one for R-410a, prevent cross-contamination of refrigerant.
- Frontloaded valve core allows for easy brazing and high flow.
- Brass coupling provides corrosion resistance.
- Connects to a steel female coupling with a ball latch to provide consistent sealing and easy connection/disconnection force.
- Compact design provides mounting flexibility, along with minimum inclusion of air and loss of fluid.

### Agency Approvals

Patent pending.



## FD57 Series Stub Kit Couplings

### Application

- Factory precharged heat pump and split-type air conditioning systems.

### Base Product Part Number

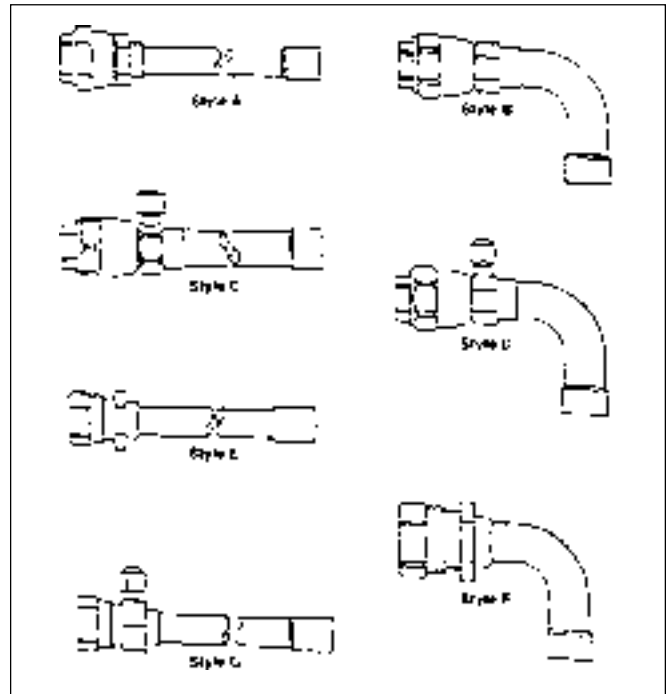
FD57 - XXXX - Copper size - coupling size

### Features and Benefits

- Easy installation of replacement units.
- Direct copper braze capability.

### Agency Approvals

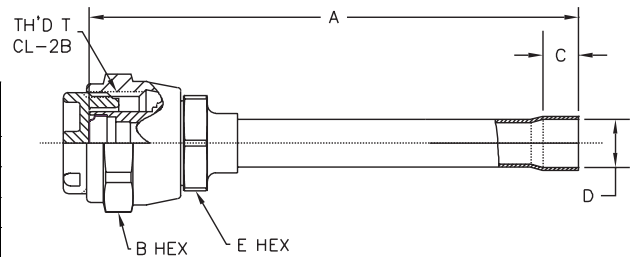
UL Recognized; File No. SDTW 2.SA2709



## FD57-1083

### 5700 Series Coupling to Copper Tube

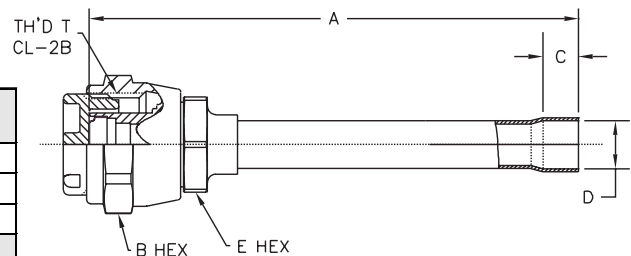
Part Number	Thread T	A Ref.	B Ref.	C Ref.	D Ref.	E Ref.
FD57-1083-05-06	5/8-18	7.17	0.81	0.75	0.32	0.62
FD57-1083-06-06	3/4-18	7.17	0.81	0.75	0.38	0.62
FD57-1083-10-10	1-1/16-12	7.61	1.31	0.75	0.63	1.00
FD57-1083-12-10	1-1/16-12	7.67	1.31	0.75	0.76	1.00
FD57-1083-14-12	1-7/16-16	8.05	1.69	0.75	0.88	1.38
FD57-1083-12-11	1-1/8-12	7.71	1.31	0.75	0.76	1.00



## FD57-1127

### Commercial (Residential) Freon with Copper Tube Stub

Part Number	Thread T	A Ref.	B Ref.	C Ref.	D Ref.	E Ref.
FD57-1127-04-06	5/8-18	4.09	0.81	0.31	0.25	0.62
FD57-1127-05-06	5/8-18	4.09	0.81	0.31	0.31	0.62
FD57-1127-06-06	5/8-18	4.09	0.81	0.31	0.38	0.62
FD57-1127-08-10	1-1/16-12	5.28	1.31	0.38	0.50	1.00
FD57-1127-08-11	1-1/8-12	5.32	1.31	0.38	0.50	1.00
FD57-1127-10-10	1-1/16-12	5.73	1.31	0.50	0.62	1.00
FD57-1127-10-11	1-1/8-12	5.77	1.31	0.50	0.62	1.00
FD57-1127-12-10	1-1/16-12	5.79	1.31	0.62	0.75	1.00
FD57-1127-12-11	1-1/8-12	5.83	1.31	0.62	0.75	1.00
FD57-1127-12-12	1-1/16-12	6.13	1.69	0.62	0.75	1.38



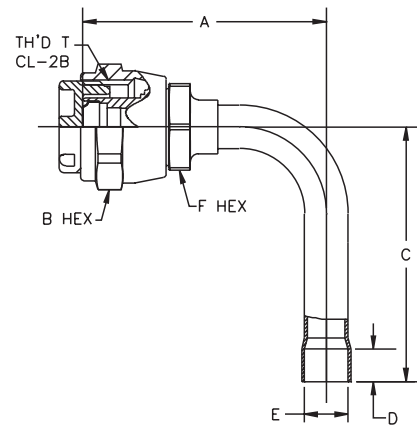
Dimensions

FD57 Series Stub Kit Couplings

**FD57-1128**

**90° Commercial (Residential) Freon with Copper Tube Stub**

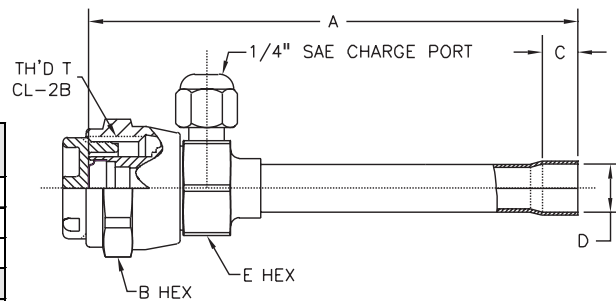
Part Number	Thread T	A Ref.	B Ref.	C Ref.	D Ref.	E Ref.	F Ref.
FD57-1128-04-06	5/8-18	1.92	0.81	2.37	0.31	0.25	0.62
FD57-1128-05-06	5/8-18	2.30	0.81	2.16	0.31	0.31	0.62
FD57-1128-06-06	5/8-18	2.30	0.81	2.16	0.31	0.38	0.62
FD57-1128-08-10	1-1/16-12	2.81	1.31	2.94	0.38	0.50	1.00
FD57-1128-08-11	1-1/8-12	2.85	1.31	2.94	0.38	0.50	1.00
FD57-1128-10-10	1-1/16-12	2.86	1.31	3.34	0.50	0.62	1.00
FD57-1128-10-11	1-1/8-12	2.90	1.31	3.34	0.50	0.62	1.00
FD57-1128-12-10	1-1/16-12	2.92	1.31	3.34	0.62	0.75	1.00
FD57-1128-12-11	1-1/8-12	2.96	1.31	3.34	0.62	0.75	1.00
FD57-1128-12-12	1-1/16-12	3.26	1.69	3.34	0.62	0.75	1.38
FD57-1128-14-11	1-1/8-12	3.56	1.31	2.97	0.75	0.88	1.00
FD57-1128-14-12	1-1/16-12	3.86	1.69	2.97	0.75	0.88	1.38



**FD57-1084**

**5700 Series Coupling Half with Charge Port to Copper Tube**

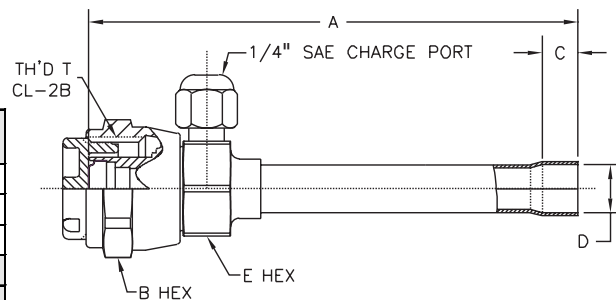
Part Number	Thread T	A Ref.	B Ref.	C Ref.	D Ref.	E Ref.
FD57-1084-05-06	5/8-18	7.42	0.81	0.75	0.312	0.62
FD57-1084-06-06	5/8-18	7.42	0.81	0.75	0.375	0.62
FD57-1084-10-10	1-1/16-12	7.86	1.31	0.75	0.625	1.00
FD57-1084-12-10	1-1/16-12	7.92	1.31	0.75	0.750	1.00
FD57-1084-14-12	1-7/16-16	8.30	1.69	0.75	0.875	1.38
FD57-1084-14-11	1-1/8-12	8.00	1.31	0.75	0.875	1.00
FD57-1084-12-11	1-1/8-12	7.96	1.31	0.75	0.750	1.00
FD57-1084-10-11	1-1/8-12	7.90	1.31	0.75	0.625	1.00



**FD57-1129**

**Commercial (Residential) Freon with Charge Port and Copper Tube Stub**

Part Number	Thread T	A Ref.	B Ref.	C Ref.	D Ref.	E Ref.
FD57-1129-04-06	5/8-18	4.34	0.81	0.31	0.25	0.62
FD57-1129-05-06	5/8-18	4.34	0.81	0.31	0.31	0.62
FD57-1129-06-06	5/8-18	4.34	0.81	0.31	0.38	0.62
FD57-1129-08-10	1-1/16-12	5.53	1.31	0.38	0.50	1.00
FD57-1129-08-11	1-1/8-12	5.57	1.31	0.38	0.50	1.00
FD57-1129-10-10	1-1/16-12	5.98	1.31	0.50	0.62	1.00
FD57-1129-10-11	1-1/8-12	6.02	1.31	0.50	0.62	1.00
FD57-1129-12-10	1-1/16-12	6.04	1.31	0.62	0.75	1.00
FD57-1129-12-11	1-1/8-12	6.08	1.31	0.62	0.75	1.00
FD57-1129-12-12	1-1/16-12	6.38	1.69	0.62	0.75	1.38
FD57-1129-14-11	1-1/8-12	4.03	1.31	0.75	0.88	1.00
FD57-1129-14-12	1-1/16-12	4.03	1.69	0.75	0.88	1.38
FD57-1129-18-11	1-1/8-12	4.03	1.31	0.91	1.12	1.00



Couplings

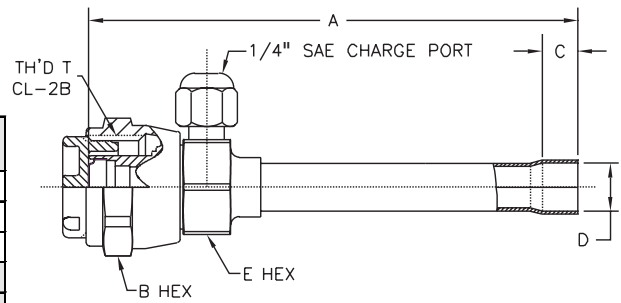
**Dimensions**

**FD57 Series Stub Kit Couplings**

**FD57-1147**

**Commercial (Residential) Freon with Charge Port and Copper Tube Stub**

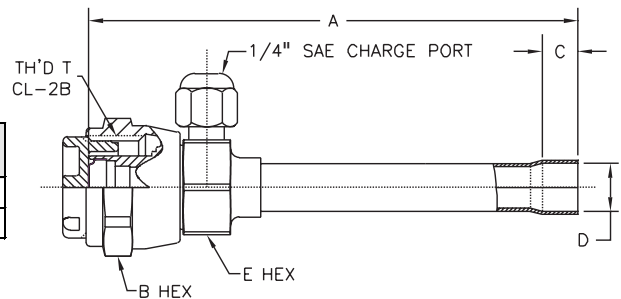
Part Number	Thread T	A Ref.	B Ref.	C Ref.	D Ref.	E Ref.
FD57-1147-06-06	5/8-18	4.34	0.81	0.31	0.38	0.62
FD57-1147-06-11	1-1/8-12	4.50	1.31	0.31	0.38	1.00
FD57-1147-08-10	1-1/16-12	5.53	1.31	0.38	0.50	1.00
FD57-1147-08-12	1-7/16-12	5.89	1.69	0.38	0.50	1.38
FD57-1147-10-12	1-7/16-12	6.31	1.69	0.38	0.62	1.38



**FD57-1157**

**Commercial (Residential) Freon with Charge Port and Copper Tube Stub**

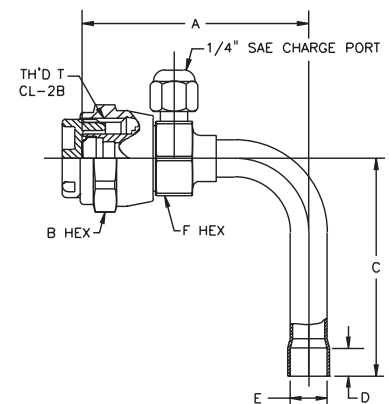
Part Number	Thread T	A Ref.	B Ref.	C Ref.	D Ref.	E Ref.
FD57-1157-05-06	5/8-18	5.55	0.81	0.31	5/16	0.62
FD57-1157-06-06	5/8-18	5.55	0.81	0.31	3/8	0.62



**FD57-1130**

**90° Commercial (Residential) Freon with Charge Port and Copper Tube Stub**

Part Number	Thread T	A Ref.	B Ref.	C Ref.	D Ref.	E Ref.	F Ref.
FD57-1130-04-06	5/8-18	2.18	0.81	2.37	0.31	0.25	0.62
FD57-1130-05-06	5/8-18	2.55	0.81	2.16	0.31	0.31	0.62
FD57-1130-06-06	5/8-18	2.55	0.81	2.16	0.31	0.38	0.62
FD57-1130-08-10	1-1/16-12	3.06	1.31	2.94	0.38	0.50	1.00
FD57-1130-08-11	1-1/8-12	3.10	1.31	2.94	0.38	0.50	1.00
FD57-1130-10-10	1-1/16-12	3.11	1.31	3.34	0.50	0.62	1.00
FD57-1130-10-11	1-1/8-12	3.15	1.31	3.34	0.50	0.62	1.00
FD57-1130-12-10	1-1/16-12	3.17	1.31	3.34	0.62	0.75	1.00
FD57-1130-12-11	1-1/8-12	3.21	1.31	3.34	0.62	0.75	1.00
FD57-1130-12-12	1-1/16-12	3.51	1.69	3.34	0.62	0.75	1.38
FD57-1130-14-11	1-1/8-12	3.81	1.31	2.97	0.75	0.88	1.00
FD57-1130-14-12	1-1/16-12	4.11	1.69	2.97	0.75	0.88	1.38
FD57-1130-18-11	1-1/8-12	3.81	1.31	3.45	0.91	1.12	1.00



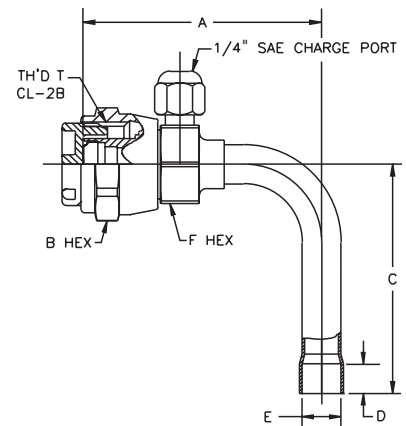
**Dimensions**

**FD57 Series Stub Kit Couplings**

**FD57-1148**

**90° Commercial (Residential) Freon with Charge Port and Copper Tube Stub**

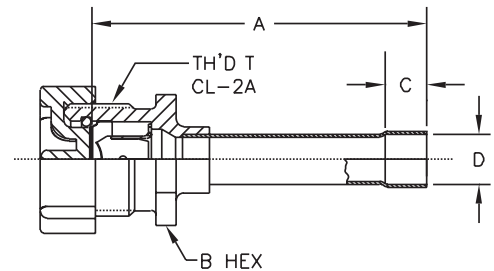
Part Number	Thread T	A Ref.	B Ref.	C Ref.	D Ref.	E Ref.	F Ref.
FD57-1148-06-06	3/4-18	2.55	0.81	2.16	0.31	0.38	0.62
FD57-1148-06-11	1-1/8-12	2.85	1.31	2.06	0.31	0.38	1.00
FD57-1148-08-10	1-1/16-12	3.06	1.31	2.94	0.38	0.50	1.00
FD57-1148-08-12	1-1/16-16	3.64	1.69	2.72	0.38	0.50	1.38
FD57-1148-10-12	1-1/16-16	3.51	1.69	3.32	0.50	0.62	1.38



**FD57-1115**

**5700 Series Coupling Half to Copper Tube**

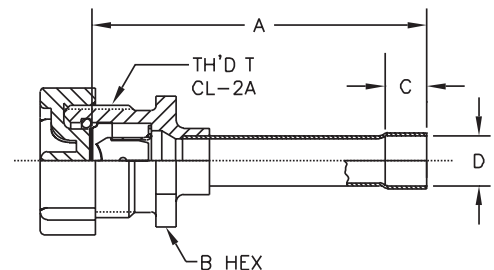
Part Number	Thread T	A Ref.	B Ref.	C Ref.	D Ref.
FD57-1115-05-06	5/8-18	7.08	0.75	0.75	0.312
FD57-1115-06-06	5/8-18	7.08	0.75	0.75	0.375
FD57-1115-10-11	1-1/8-12	7.54	1.12	0.75	0.625
FD57-1115-12-11	1-1/8-12	7.63	1.12	0.75	0.750
FD57-1115-14-11	1-1/8-12	7.63	1.12	0.75	0.875
FD57-1115-14-12	1-1/16-16	7.80	1.44	0.75	0.875
FD57-1115-10-10	1-1/16-12	7.43	1.06	0.75	0.625



**FD57-1131**

**5700 Series Coupling Half with Copper Tube Stub**

Part Number	Thread T	A Ref.	B Ref.	C Ref.	D Ref.
FD57-1131-04-06	5/8-18	4.00	0.75	0.31	0.25
FD57-1131-05-06	5/8-18	4.00	0.75	0.31	0.31
FD57-1131-06-06	5/8-18	4.00	0.75	0.31	0.38
FD57-1131-08-10	1-1/16-12	5.09	1.06	0.38	0.50
FD57-1131-08-11	1-1/8-12	5.20	1.12	0.38	0.50
FD57-1131-10-10	1-1/16-12	5.55	1.06	0.50	0.62
FD57-1131-10-11	1-1/8-12	5.66	1.12	0.50	0.62
FD57-1131-12-10	1-1/16-12	5.64	1.06	0.62	0.75
FD57-1131-12-11	1-1/8-12	5.75	1.12	0.62	0.75
FD57-1131-12-12	1-1/16-12	5.90	1.44	0.62	0.75
FD57-1131-14-11	1-1/8-12	5.72	1.12	0.75	0.88
FD57-1131-14-12	1-1/16-12	5.89	1.44	0.75	0.88



Couplings

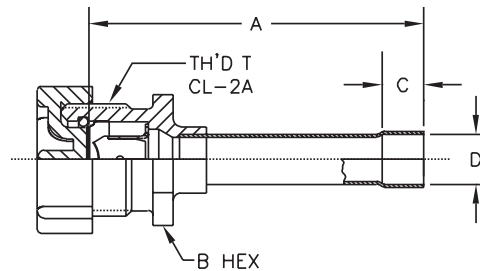
Dimensions

FD57 Series Stub Kit Couplings

**FD57-1146**

**5700 Series Coupling Half with Copper Tube Stub**

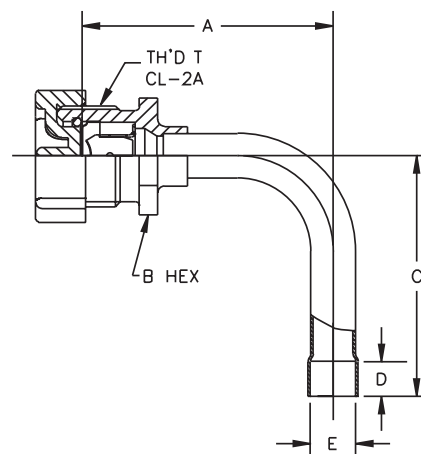
Part Number	Thread T	A Ref.	B Ref.	C Ref.	D Ref.
FD57-1146-06-06	3/4-18	3.14	0.87	0.38	0.75
FD57-1146-06-11	1-1/8-12	3.30	1.30	0.38	1.12
FD57-1146-08-10	1-1/16-12	3.22	1.23	0.50	1.06
FD57-1146-08-12	1-1/16-16	3.53	1.66	0.50	1.44
FD57-1146-10-12	1-1/16-16	3.65	1.66	0.62	1.44



**FD57-1132**

**90° 5700 Series Coupling Half with Copper Tube Stub**

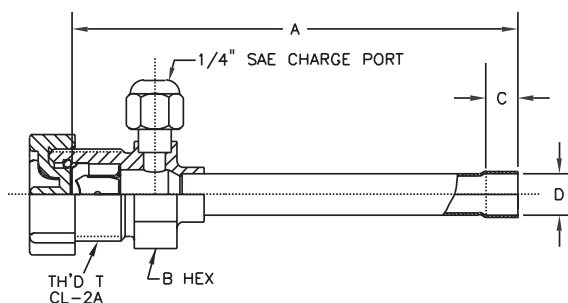
Part Number	Thread T	A Ref.	B Ref.	C Ref.	D Ref.	E Ref.
FD57-1132-04-06	5/8-18	1.84	0.75	2.37	0.31	0.25
FD57-1132-05-06	5/8-18	2.21	0.75	2.16	0.31	0.31
FD57-1132-06-06	5/8-18	2.21	0.75	2.16	0.31	0.38
FD57-1132-08-10	1-1/16-12	2.62	1.06	2.94	0.38	0.50
FD57-1132-08-11	1-1/8-12	2.73	1.12	2.94	0.38	0.50
FD57-1132-10-10	1-1/16-12	2.68	1.06	3.34	0.50	0.62
FD57-1132-10-11	1-1/8-12	2.79	1.12	3.34	0.50	0.62
FD57-1132-12-10	1-1/16-12	2.77	1.06	3.34	0.62	0.75
FD57-1132-12-11	1-1/8-12	2.88	1.12	3.34	0.62	0.75
FD57-1132-12-12	1-1/16-12	3.03	1.44	3.34	0.62	0.75
FD57-1132-14-11	1-1/8-12	3.45	1.12	2.97	0.75	0.88
FD57-1132-14-12	1-1/16-12	3.62	1.44	2.97	0.75	0.88



**FD57-1121**

**5700 Series Coupling Half with Charge Port to Copper Tube**

Part Number	Thread T	A Ref.	B Ref.	C Ref.	D Ref.
FD57-1121-05-06	5/8-18	7.33	0.62	0.75	0.312
FD57-1121-06-06	5/8-18	7.33	0.62	0.75	0.375
FD57-1121-10-11	1-1/8-12	7.84	1.12	0.75	0.625
FD57-1121-12-11	1-1/8-12	7.84	1.12	0.75	0.750
FD57-1121-14-11	1-1/8-12	7.85	1.12	0.75	0.875



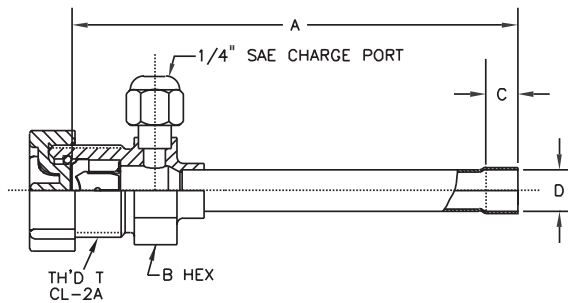
Dimensions

FD57 Series Stub Kit Couplings

**FD57-1133**

**5700 Series Coupling Half with Charge Port and Copper Tube Stub**

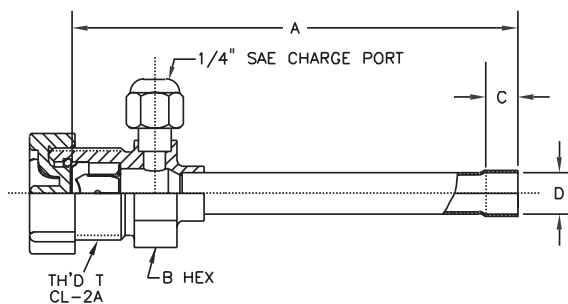
Part Number	Thread T	A Ref.	B Ref.	C Ref.	D Ref.
FD57-1133-05-06	5/8-18	4.25	0.62	0.31	0.31
FD57-1133-06-06	5/8-18	4.25	0.62	0.31	0.38
FD57-1133-10-11	1-1/8-12	5.96	1.12	0.5	0.62
FD57-1133-12-11	1-1/8-12	5.96	1.12	0.62	0.75
FD57-1133-14-11	1-1/8-12	5.94	1.12	0.75	0.88



**FD57-1158**

**5700 Series Coupling Half with Charge Port and Copper Tube Stub**

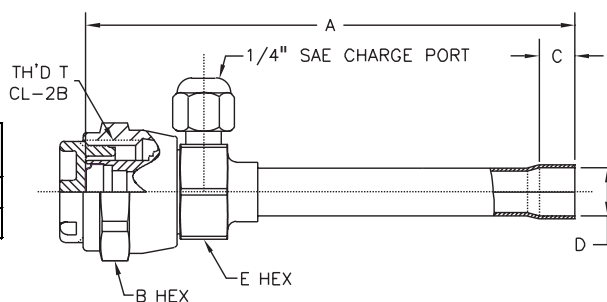
Part Number	Thread T	A Ref.	B Ref.	C Ref.	D Ref.
FD57-1158-05-06	5/8-18	5.46	0.62	0.31	5/16
FD57-1158-06-06	5/8-18	5.46	0.62	0.31	3/8



**FD57-1144**

**Commercial (Residential) Freon with Charge Port and Copper Tube Stub**

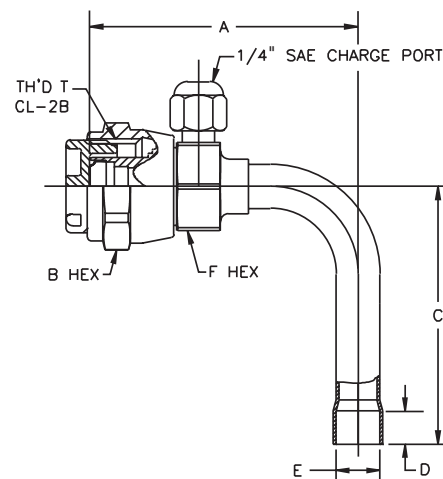
Part Number	Thread T	A Ref.	B Ref.	C Ref.	D Ref.	E Ref.
FD57-1144-05-06	5/8-18	4.34	0.81	0.31	0.31	0.62
FD57-1144-12-11	1-1/8-18	6.08	1.31	0.62	0.75	1.00



**FD57-1145**

**90° Commercial (Residential) Freon with Charge Port and Copper Tube Stub**

Part Number	Thread T	A Ref.	B Ref.	C Ref.	D Ref.	E Ref.	F Ref.
FD57-1145-10-11	1-1/8-12	3.15	1.31	3.34	0.50	0.62	1.00
FD57-1145-12-11	1-1/8-12	4.71	1.31	4.50	0.62	0.75	1.00
FD57-1145-14-11	1-1/8-12	3.81	1.31	2.97	0.75	0.88	1.00
FD57-1145-18-11	1-1/8-12	3.81	1.31	3.45	0.91	1.12	1.00



Couplings

