

## LEAK STOP FLARE SEALS

- Engineered 45° SAE flare seals for the HVAC/R market
- Field proven, OEM approved
- Creates confident leak-free flare connections
- Prevents costly refrigerant leaks
- Reduces unwanted call-backs
- Improves the integrity of any flare fitting
- For new or systems already in service
- **Applications: mini-split systems, thermostatic expansion valves (TEVs), refrigeration control valves, filter-driers, high/low pressure controls, pilot lines and more!**

### Description

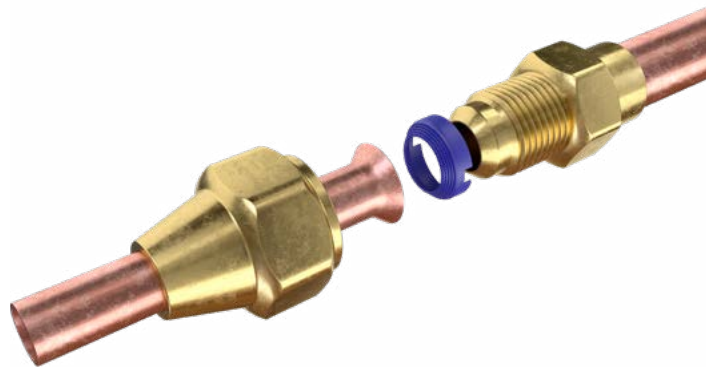
FlareMate seals are specifically developed for 45° SAE flare fittings used in the HVAC/R Industry. FlareMate provides a long term, leak-free connection on new installations or to correct small flare fitting leaks with existing systems in service.

FlareMate uses a special multi-ring design that provides multiple concentric seal points along the length of the flare mating surface. The formed copper seal is coated with a baked on, dry to the touch sealant specifically selected for refrigerants and lubricant duty. The combination of the seal design and its coated sealant layer compensate for scratches in the sealing surface and minor misalignment issues between the male and female flare.

FlareMate is available in common 1/4" thru 3/4" flare sizes and handy packaging options. FlareMate is sold in various billable four pc. mini-split packs, 10 pc. packs and a combo pack for any service truck need.

### Specialty Products

## FlareMate™



### Application

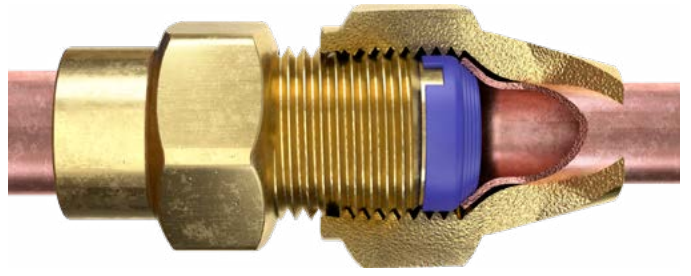
Flare fittings are commonly used in the HVAC/R market for mini-split/VRF systems, refrigeration components, high/low pressure controls, pilot lines, and other applications. Leaks can originate from flare surface imperfections, connector misalignment, thread galling, vibration, pulsation and ongoing large temperature fluctuations. FlareMate seals vastly improve the integrity of any flare assembly and result in a confident, long term leak-free connection.

For use on 45° SAE flare fittings machined from brass, plated steel or perhaps aluminum alloys used in the market. The seal's tabs allow for secure positioning of the FlareMate seal on the male in any orientation during connector assembly.

For use on any flare fitting application in the HVAC/R industry for new or existing systems in service. Compatible with common refrigerants and lubricants. Rated with a -40°F to 300°F temperature range and corresponding refrigerant pressures in today's refrigerant systems.

**FlareMate applications include:**

- Mini-Split/VRF Systems
- Thermostatic Expansion Valves (TEVs)
- Pressure Regulating Valves (PRVs)
- Solenoid Valves
- Filter-Driers
- Oil Filters
- High/Low Pressure Controls
- Pilot Lines
- LP Gas Lines
- Other Applications!



**Mini-Split Pack:**  
(2) liquid line seals and  
(2) suction line seals



**10 pc. Seal Pack**



**40 pc. Combo Pack:**  
Includes (10 ea.) 1/4",  
3/8", 1/2" and 5/8" sizes

## Packaging

Part Number	Product Description
4177-01	FlareMate, Mini-Split Pack - (2) 1/4", (2) 3/8"
4177-02	FlareMate, Mini-Split Pack - (2) 1/4", (2) 1/2"
4177-03	FlareMate, Mini-Split Pack - (2) 1/4", (2) 5/8"
4177-04	FlareMate, Mini-Split Pack - (2) 3/8", (2) 1/2"
4177-05	FlareMate, Mini-Split Pack - (2) 3/8", (2) 5/8"
4177-06	FlareMate, Mini-Split Pack - (2) 3/8", (2) 3/4"
4177-20	FlareMate, 40 pc. Combo Kit - (10 ea.) 1/4" thru 5/8"
4177-30	FlareMate, 10 Pack - 1/4" Seal Kit
4177-31	FlareMate, 10 Pack - 3/8" Seal Kit
4177-32	FlareMate, 10 Pack - 1/2" Seal Kit
4177-33	FlareMate, 10 Pack - 5/8" Seal Kit
4177-34	FlareMate, 10 Pack - 3/4" Seal Kit
4177-40	FlareMate, Wholesaler Starter Kit



4177-01



4177-30



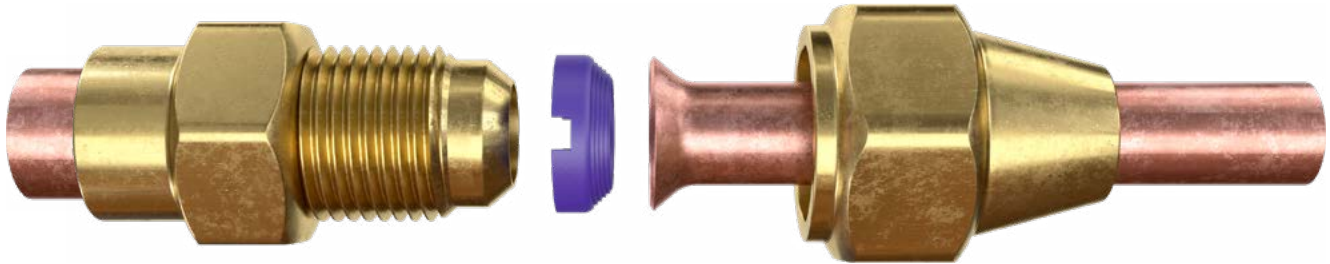
4177-20

### FlareMate Wholesaler Starter Kit (4177-40) Contents:

Description	Nu-Calgon P/N	Qty.
FlareMate, Mini-Split Seal Pack (2) 1/4", (2) 3/8"	4177-01	6
FlareMate, Mini-Split Seal Pack (2) 1/4", (2) 1/2"	4177-02	4
FlareMate, Mini-Split Seal Pack (2) 1/4", (2) 5/8"	4177-03	2
FlareMate, Mini-Split Seal Pack (2) 3/8", (2) 1/2"	4177-04	2
FlareMate, Mini-Split Seal Pack (2) 3/8", (2) 5/8"	4177-05	2
FlareMate, Mini-Split Seal Pack (2) 3/8", (2) 3/4"	4177-06	2
FlareMate, 10 pc. Pack -1/4" Seal Kit	4177-30	3
FlareMate, 10 pc. Pack -3/8" Seal Kit	4177-31	3
FlareMate, 10 pc. Pack -1/2" Seal Kit	4177-32	3
FlareMate, 10 pc. Pack -5/8" Seal Kit	4177-33	2
FlareMate, 10 pc. Pack -3/4" Seal Kit	4177-34	2
FlareMate, 40 pc. Combo Kit - (10 ea. 1/4" thru 5/8)	4177-20	4
		35 total units

## Directions

1. Remove any debris from the male and female flare seal surfaces before assembly.
2. If addressing a leaking flare connection, ensure the flare fitting does not have excessive damage or cracks in the fitting. If so, replace fitting. If not, proceed to step #3.
3. Clip the FlareMate seal evenly on to the male flare fitting.
4. Tighten to the recommended torque value provided by the OEM or the guidelines below. DO NOT overtighten the flare fitting.



RECOMMENDED TORQUE SETTINGS	
1/4" Flare Fittings	13-17 ft.-lbs.
3/8" Flare Fittings	24-31 ft.-lbs.
1/2" Flare Fittings	36-45 ft.-lbs.
5/8" Flare Fittings	45-60 ft.-lbs.
3/4" Flare Fittings	66-88 ft.-lbs.