

SB-XXX

Branch Selector Box Connection Kit

These kits provide the necessary couplings, reducers, and/or caps to connect VRF Branch Selector Boxes to outdoor unit piping and indoor unit piping. Each kit is custom built to match the project system selection lay-out as provided by the customer. The couplings, reducers, flare tube kits, or closed pipe caps are shipped loose for field installation on to the selector box.

Specialty tube support adaptor inserts may be supplied with the kit for proper fit onto certain selector box connecting pipe. Contact RCS customer service team for more details on tube inserts for your selected equipment.

Refer to RCS installation instructions for details prior to installing these fittings.

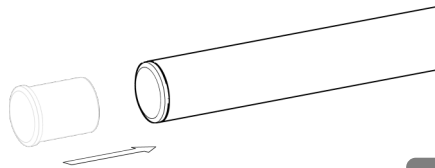
- Application** High Pressure HVAC/R
- Max Rated Pressure** 1167 psi (80 bar)
- Compatible Tubing** Seamless Copper Tubing, Drawn H58, Light Drawn H55, or Annealed O60 made to ASTM B280 and ASTM B75 Standard.
- Agency Approval** ETL Listed 5011885. Conforms to UL 207 STD. Certified to CSA STD C22.2#140.3
- Refrigerants** All CFC, HCFC, HFC, HFO, and class A2L refrigerants and refrigeration oils.
 The product is suitable for use with R744 (CO₂) when used within the design pressure rating.
 The product is not suitable for use with ammonia, methyl chloride, hazardous or flammable refrigerants from Group 2 or 3 per ASHRAE 15.
- Installation** The fittings must be installed per RCS installation instructions by skilled installers, trained specifically in the application and installation of RCS fittings.
 Contact RCS, Inc. for alternative tube support inserts when installing fittings on annealed copper coils or pre-insulated line sets with tube wall thicknesses less than specified by ASTM B280. Do not use on annealed copper sizes larger than 5/8" O.D.
- Warning** All equipment manufacturers' installation restrictions must be strictly followed. The use of RCS flame-free mechanically attached fittings does not relieve the installer from following the equipment manufacturers installation requirements.
 Except for factory male flare ends, all factory swaged-ends must be cut off the Selector Box to provide for actual line size in order to install RCS flame-free mechanically attached fittings.
 A minimum of 3 1/8 inches of straight tube clearance from the selector box bulkhead and 1 5/8 inch clearance between adjacent tubes are required to engage the press tool.

SINGLE PORT	MULTI-PORT	
SBXXX01P36	SBXXX02P	SBXXX08P
SBXXX01P48	SBXXX03P	SBXXX10P
SBXXX01P60	SBXXX04P	SBXXX12P
SBXXX01P96	SBXXX06P	

In a continuing effort to offer the best product possible, we reserve the right to change, without notice, specifications, and/or materials. Technical specification sheets appearing on refcouplingsys.com are the most recent data available.

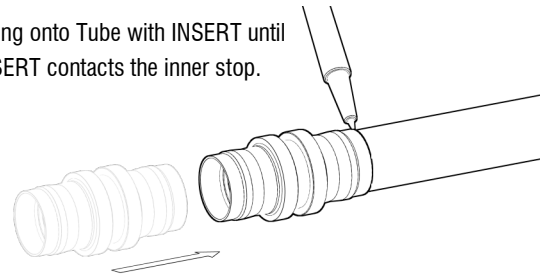
Assembly Guide

Tube surface must be clean, free from scratches or any surface imperfections, and de-burred inside and out.
Place tube support INSERT in to clean and de-burred tube.



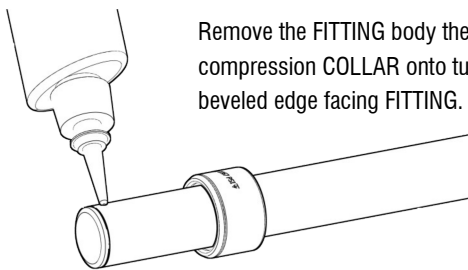
1

Place Fitting onto Tube with INSERT until TUBE/INSERT contacts the inner stop.



Mark Tube at end of FITTING with permanent felt tip marker.

2

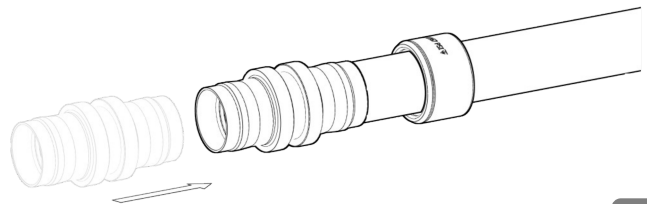


Remove the FITTING body then slide the compression COLLAR onto tube with the beveled edge facing FITTING.

Apply LocTite® to full circumference of tube end.
Keep LocTite® 1/8" from end of TUBE and INSERT.

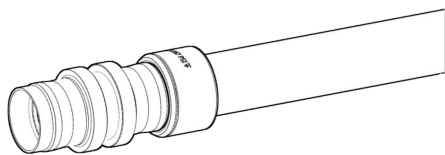
3

Slide the FITTING body back onto the TUBE with INSERT in place until TUBE/INSERT contacts the fitting inner stop.



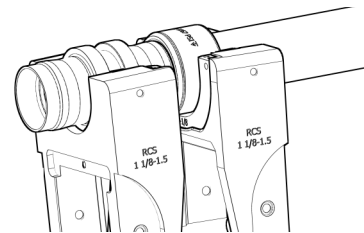
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Keeping the TUBE/INSERT against the FITTING inner stop, slide the COLLAR against the FITTING. Collar should overlap the FITTING body.



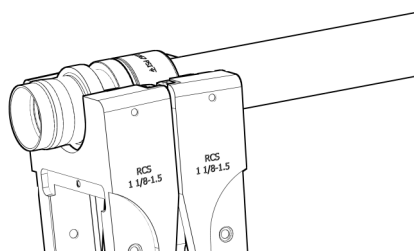
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Place the FITTING and COLLAR into correct size press clamps. The assembly MUST be fully seated on the lower circumference of the clamps. Do not change the insertion depth of the TUBE/INSERT and the connecting joint.



6

Using the press tool, press the COLLAR onto the FITTING body until it is fully seated against FITTING stop. TUBE/INSERT must be maintained against the FITTING inner stop during the pressing operation.



7



That the tube insert depth reference mark is visible and closely aligned with the end of the FITTING body.



That the COLLAR is in the correct orientation, fully seated, and is flush against the shoulder of the FITTING body.



That any gap between the COLLAR and the FITTING shoulders are less than 1mm.

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