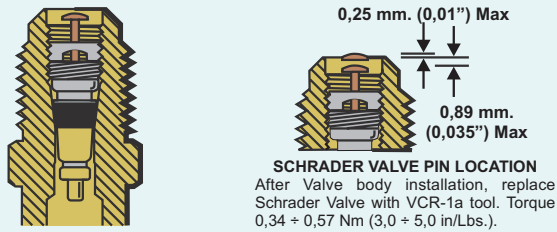


### SCHRADER VALVE - SPECIFICATIONS



- Temperature Range : **-40° C ÷ 105° C.** (-40°F ÷ 220°F);
- Pressure : **55 Bar** (800 Psig);
- Valve body : **Brass**;
- Valve Core : **Stainless Steel / Brass** for use with all Refrigerants CFC, HCFC, HFC, HFO such as R32, R134a, R404a, R407f, **R410a**, R507, R-1234ze(E)... Resistant to Alkalies, dilute Mineral Acids, MO Mineral Oil, AB AlkylBenzene, POE PolyOilEster, PAG PolyAlkylene Glycol Oil...;
- Recommended Torque : **0,34 ± 0,57 Nm.** (3,0 ± 5,0 in/Lbs).

### FEATURES

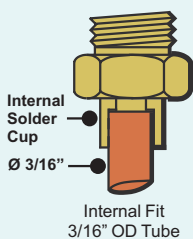
- Valves are machined according with Specification ARI American Rating Institute Standard;
- Large counterbore permits removal of Schrader Valve if flare becomes damaged;
- All Access Valves are equipped with Standard Brass Seal Cap NFT5-4 or NFT5-5 (optional Hex Seal Cap with Long Tan Copper Gasket N5-4 or N5-5 for R32 and R410a);
- All TEE are flared to receive an Schrader Valve in all 1/4" (7/16" 20UNF) and 5/16" (1/2" 20UNF) Male SAE Flare ends.

### ODS and ODF FIT DESCRIPTIONS

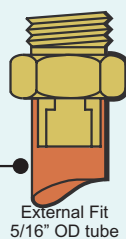
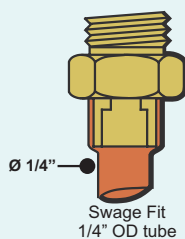
Descriptions for Solder/Braze Access Valves specify the connecting tube OD Outside Diameter size and type of fit.

Model	Description
AV4-4 6	1/4" (6,35 mm.) ODS x 3/8" (9,52 mm.) ODF

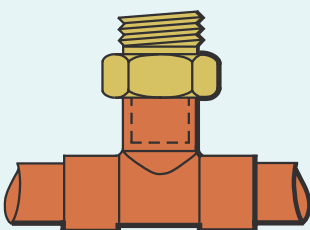
#### 3/16" ODS FIT



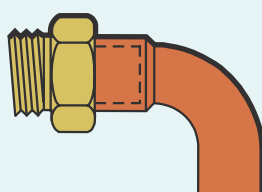
#### 1/4" ODF FIT



#### 1/4" ODF FIT



Wrot Copper Fitting - TEE  
Ø 1/4" ODS x 1/4" ODS x 1/4" ODS



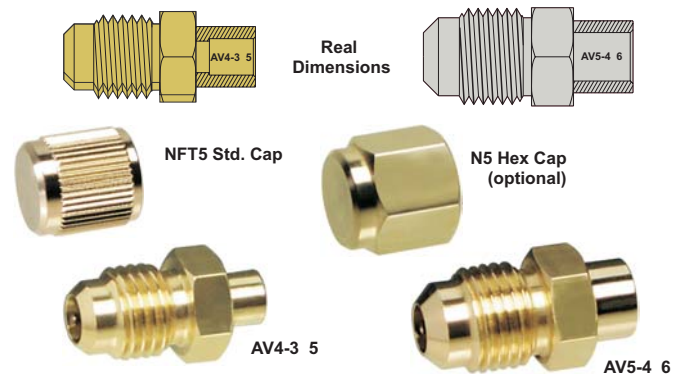
Wrot Copper Fitting - 90° Elbow  
Ø 1/4" ODS x 1/4" ODF

### NOTE

OD = Outside Diameter  
ODS = Outside Diameter Solder  
ODF = Outside Diameter Female

### STRAIGHT ACCESS VALVES - 1/4" / 5/16" Male SAE with Valve Core and Standard Cap x ODS / ODF Solder

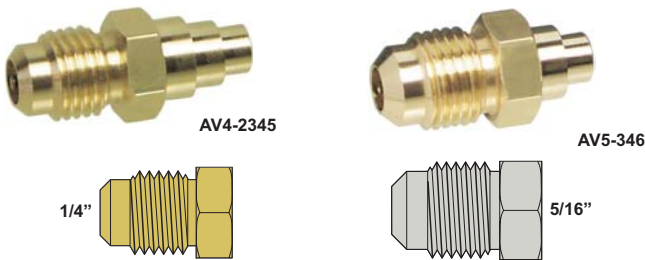
**NOTE :** Available with Hex Cap with Long Tan Copper Gasket. Add suffix H to Model Number (Example AV4H-4 6).



Model	Description
AV4-2 4	Access Valve 1/4" (7/16" 20UNF) <b>Male SAE</b> with Valve Core and Standard Cap x Ø 1/8" ODS - 1/4" ODF.
AV4-3 5	1/4" (7/16" 20UNF) <b>M. SAE</b> x Ø 3/16" ODS - 5/16" ODF
AV4-4 6	1/4" (7/16" 20UNF) <b>M. SAE</b> x Ø 1/4" ODS - 3/8" ODF
AV4-5 8	1/4" (7/16" 20UNF) <b>M. SAE</b> x Ø 5/16" ODS - 1/2" ODF
AV4-6 8	1/4" (7/16" 20UNF) <b>M. SAE</b> x Ø 3/8" ODS - 1/2" ODF
AV4-810	1/4" (7/16" 20UNF) <b>M. SAE</b> x Ø 1/2" ODS - 5/8" ODF
AV4- 610MM	Access Valve 1/4" (7/16" 20UNF) <b>Male SAE</b> w/Valve Core & Standard Cap x Ø 6 mm. ODS - 10 mm. ODF
AV4- 812MM	1/4" <b>M. SAE</b> x Ø 8 mm. ODS - Ø 12 mm. ODF.
AV4-1014MM	1/4" <b>M. SAE</b> x Ø 10 mm. ODS - Ø 14 mm. ODF.
AV4-1216MM	1/4" <b>M. SAE</b> x Ø 12 mm. ODS - Ø 16 mm. ODF.
AV5-2 4	R410a 5/16" (1/2" 20UNF) <b>Male SAE</b> w/Valve Core & Standard Cap x Ø 1/8" ODS - 1/4" ODF. <b>R-410a R-32</b>
AV5-3 5	5/16" <b>M. SAE</b> x 3/16" ODS - 5/16" ODF. <b>R410a, R32.</b>
AV5-4 6	5/16" <b>M. SAE</b> x 1/4" ODS - 3/8" ODF. <b>R410a, R32.</b>
AV5-5 8	5/16" <b>M. SAE</b> x 5/16" ODS - 1/2" ODF. <b>R410a, R32.</b>
AV5-6 8	5/16" <b>M. SAE</b> x 3/8" ODS - 1/2" ODF. <b>R410a, R32.</b>
AV5-810	5/16" <b>M. SAE</b> x 1/2" ODS - 5/8" ODF. <b>R410a, R32.</b>

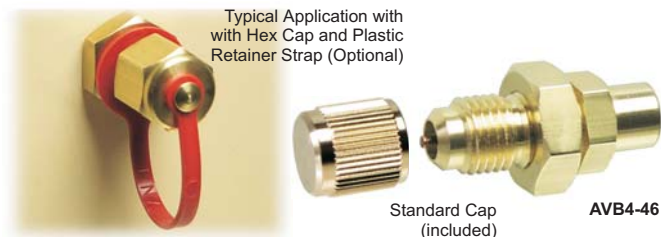
### MULTI-STEP ACCESS VALVES - 1/4" / 5/16" Male SAE with Valve Core and Standard Cap x ODS / ODF Solder

**NOTE:** Available with Hex Cap with Long Tan Copper Gasket. Add suffix H to Model Number (Exemple AV5H-346).



Model	Description
AV4-346	Multi-Step Access Valve 1/4" (7/16" 20UNF) Male SAE with Valve Core and Standard Cap x Ø 3/16" ODS x 1/4" - 3/8" ODF.
AV4-34568	1/4" M. SAE x 3/16" - 1/4" - 5/16" - 3/8" - 1/2" ODF.
AV4-2345	1/4" M. SAE x 1/8" ODS. x 3/16" - 1/4" - 5/16" ODF.
AV4-6810MM	1/4" (7/16" UNF) Male SAE with Valve Core & Std Cap x Ø 6, 8 and 10 mm. ODF.
AV5-346	5/16" (1/2" 20UNF) Male SAE w/Valve Core & Std Cap x 3/16" ODS x 1/4" - 3/8" ODF. R-410a, R32.
AV5-34568	5/16" (1/2" 20UNF) M. SAE w/Valve Core & Std Cap x 3/16", 1/4", 5/16" 3/8", 1/2" ODF R410a, R32.
AV5-2345	5/16" (1/2" 20UNF) M. SAE w/Valve Core & Std Cap x 1/8" ODS x 3/16", 1/4", 5/16" ODF R410a, R32.

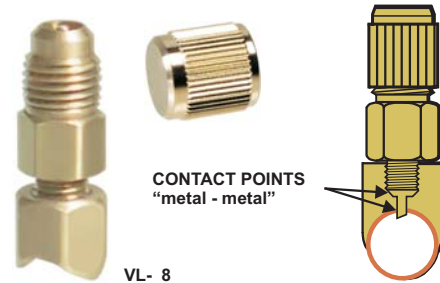
### ACCESS VALVE PANEL MOUNTING - Male SAE with Valve Core, Hex Lock Nut & Standard Cap x ODS / ODF Solder



Model	Description
AVB4-46	Panel Mounting Access Valve 1/4" (7/16" 20UNF) Male SAE with Valve Core, Standard Cap & Hex Lock Nut x 1/4" ODS - 3/8" ODF solder.
<b>NEW</b> AVB4-58	1/4" (7/16" 20UNF) M. SAE w/Valve Core, Std Cap & Hex Lock Nut x Ø 5/16" ODS - Ø 1/2" ODF.
<b>NEW</b> AVB4-68	1/4" (7/16" 20UNF) M. SAE w/Valve Core, Std Cap & Hex Lock Nut x Ø 3/8" ODS - Ø 1/2" ODF.
AVB5-46	5/16" (1/2" 20UNF) Male SAE w/Valve Core, Std Cap & Hex Lock Nut x 1/4" ODS - 3/8" ODF. R410a, R32.
<b>NEW</b> AVB5-58	5/16" (1/2" 20UNF) Male SAE w/Valve Core, Std Cap & Hex Lock Nut x 5/16" ODS - 1/2" ODF. R-410a, R-32.
<b>NEW</b> AVB5-68	5/16" (1/2" 20UNF) Male SAE w/Valve Core, Std Cap & Hex Lock Nut x 3/8" ODS - 1/2" ODF. R-410a, R-32.
<b>NEW</b> AVB5LH-46	5/16" (1/2" 20UNF) Male SAE LH w/Valve Core, Std Cap & Hex Lock Nut x 1/4" Ods - 3/8" ODF, R32.
<b>NEW</b> AVB5LH-58	5/16" (1/2" 20UNF) Male SAE LH w/Valve Core, Std Cap & Hex Lock Nut x 5/16" Ods - 1/2" ODF, R32.
<b>NEW</b> AVB5LH-68	5/16" (1/2" 20UNF) Male SAE LH w/Valve Core, Std Cap & Hex Lock Nut x 3/8" Ods - 1/2" ODF, R32.

### BRASS SOLDER TYPE PIERCING - 1/4" Male SAE with Valve Core and Cap

- Easy to install, for permanent access fitting to a system;
- "U" brass to copper brazing. To use with Silver brazing alloy rod Model SBAF-30 or SBAF-40;
- Brass Cap included;



Model	Description
VL- 4	Brass Solder Piercing Valve 1/4" Male SAE Flare with Valve Core and Cap for Ø 1/4" O.D. tubing.
VL- 5	Ø 5/16" O.D. tubing.
VL- 6	Ø 3/8" O.D. tubing.
VL- 8	Ø 1/2" O.D. tubing.
VL-10	Ø 5/8" O.D. tubing.
VL-12	Ø 3/4" O.D. tubing.
VL-14	Ø 7/8" O.D. tubing.
VL-18	Ø 1-1/8" O.D. tubing.

### COPPER SOLDER TYPE PIERCING VALVES - 1/4" Male SAE with Valve Core and Hex Cap

- Easy to install, for permanent access fitting to a system;
- Steel Piercing needle with Teflon Ring and Valve Core penetrates line in one operation;
- "U" copper to copper brazing. To use with Phosphorus brazing alloy Model CPA- 5;



Model	Description
VLC- 4	Copper Solder Piercing Valve 1/4" Male SAE Flare with valve core and Hex cap for 1/4" O.D. tubing.
VLC- 5	Ø 5/16" O.D. tubing.
VLC- 6	Ø 3/8" O.D. tubing.
VLC- 8	Ø 1/2" O.D. tubing.
VLC-10	Ø 5/8" O.D. tubing.
VLC-12	Ø 3/4" O.D. tubing.
VLC-14	Ø 7/8" O.D. tubing.
VLC-18	Ø 1-1/8" O.D. tubing.
<b>Spare Parts</b>	
VLC-25	Teflon Ring

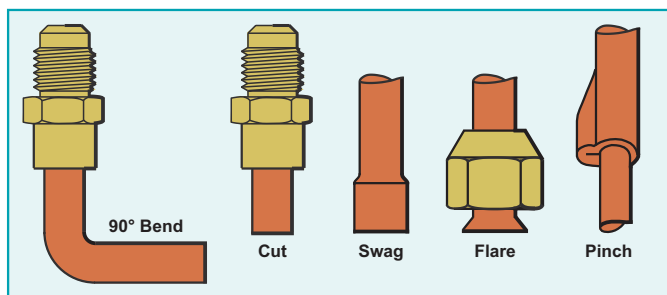
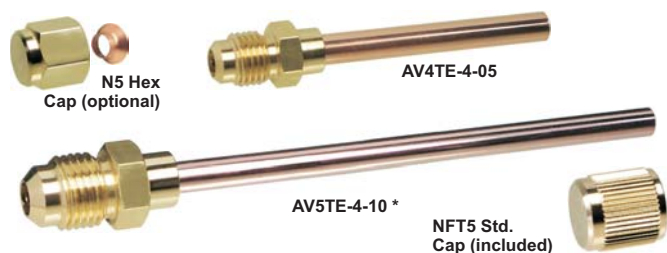
### ACCESS VALVE with COPPER TUBE EXTENSION

- Use CPA- 6 Copper Phosphorus flux free alloy - Ag. 6% Silver - Cu 88% - P 6% (copper to copper);
- Use with Copper Fitting;
- Install through the side of larger line;
- With Standard Cap and Schrader Valve Core (loosely assembled). Optional Hex Cap w/long tan copper gasket
- Custom lengths are available.

\* Copper tube hard with higher wall thickness (0,032" - 0.81mm) used also for high side A/C systems with R410a.

**ATTENTION :** Heating the tube until anneal (soften) before 90° Bending, Swaging, Flaring and Pinching tube ends.

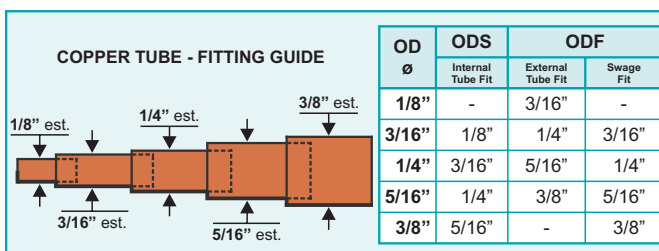
**NOTE :** Available with Hex Cap with Long Tan Copper Gasket. Add suffix H to Model Number (Example AV5TEH-4-10).



Model	Description
AV4TE-2	Access Valve with Copper Tube Extension 1/4" (7/16" 20UNF) Male SAE with Valve Core and Standard Cap x 1/8" ODS - 5 cm. (2").
AV4TE-3	1/4" M. SAE x 3/16" ODS - 5 cm. (2").
AV4TE-4-05	1/4" M. SAE x 1/4" ODS - 5 cm. (2")*.
AV4TE-4-10	1/4" M. SAE x 1/4" ODS - 10 cm. (4")*.
AV4TE-4-15	1/4" M. SAE x 1/4" ODS - 15 cm. (6")*.
AV4TE-5-05	1/4" M. SAE x 5/16" ODS - 5 cm. (2")*.
AV4TE-5-10	1/4" M. SAE x 5/16" ODS - 10 cm. (4")*.
AV4TE-5-15	1/4" M. SAE x 5/16" ODS - 15 cm. (6")*.
AV4TE-6-05	1/4" M. SAE x 3/8" ODS - 5 cm. (2")*.
AV4TE-6-10	1/4" M. SAE x 3/8" ODS - 10 cm. (4")*.
AV4TE-6-15	1/4" M. SAE x 3/8" ODS - 15 cm. (6")*.
AV4TE-6MM-05	Access Valve with Copper Tube Extension - 1/4" (7/16" 20UNF) Male SAE with Valve Core & Seal Cap x Ø 6 mm. ODS - 5 cm. (2").
AV4TE-6MM-10	1/4" M. SAE x 6 mm. ODS - 10 cm. (4").
AV4TE-6MM-15	1/4" M. SAE x 6 mm. ODS - 15 cm. (6").
AV5TE-2	Access Valve with Copper Tube Extension - 5/16" (1/2" 20UNF) Male SAE with Valve Core & Standard Cap x 1/8" ODS - 5 cm. (2"). R-410a, R-32.
AV5TE-3	5/16" M. SAE x 3/16" ODS - 5 cm. (2") R410a, R32
AV5TE-4-05	5/16" M. SAE x 1/4" ODS - 5 cm. (2")* R410a, R32
AV5TE-4-10	5/16" M. SAE x 1/4" ODS - 10 cm. (4")* R410a, R32
AV5TE-4-15	5/16" M. SAE x 1/4" ODS - 15 cm. (6")* R410a, R32

AV5TE-5-05	5/16" M. SAE x 5/16" ODS - 5 cm. (2")* R410a, R32
AV5TE-5-10	5/16" M. SAE x 5/16" ODS - 10 cm. (4")* R410a, R32
AV5TE-5-15	5/16" M. SAE x 5/16" ODS - 15 cm. (6")* R410a, R32
AV5TE-6-05	5/16" M. SAE x 3/8" ODS - 5 cm. (2")* R410a, R32
AV5TE-6-10	5/16" M. SAE x 3/8" ODS - 10 cm. (4")* R410a, R32
AV5TE-6-15	5/16" M. SAE x 3/8" ODS - 15 cm. (6")* R410a, R32

Longer lengths available. Please specify.

COPPER TUBE - FITTING GUIDE	OD Ø	ODS		ODF	
		Internal Tube Fit	External Tube Fit	Swage Fit	
	1/8"	-	3/16"	-	-
	3/16"	1/8"	1/4"	3/16"	-
	1/4"	3/16"	5/16"	1/4"	-
	5/16"	1/4"	3/8"	5/16"	-
	3/8"	5/16"	-	3/8"	-

### MULTI-STEP ACCESS VALVES with TUBE EXTENSION 1/4" & 5/16" Male SAE with Valve Core and Std Cap

- Use CPA- 6 Copper Phosphorus flux free alloy - Ag. 6% Silver - Cu 88% - P 6% (copper to copper);
- Use with Copper Fitting;
- With Standard Cap and Schrader Valve Core (loosely assembled). Optional Hex Cap with Long Tan Copper Gasket.



Model	Description
AV4MSTE-2	Multi-Step Access Valve w/Copper Tube Extension 1/4" (7/16" 20UNF) M. SAE w/Valve Core & Cap x 1/8" OD / 3/16" ID / 1/4" ODF / 5/16" ODF - 5 cm. (2").
AV4MSTE-3	1/4" M. SAE x 3/16" OD / 1/8" ID / 1/4" ODF / 3/8" ODF - 5 cm. (2").
AV5MSTE-2	5/16" (1/2" 20UNF) Male SAE with Valve Core and Standard Cap x 1/8" OD / 3/16" ID / 1/4" ODF / 5/16" ODF - 5 cm. (2"). R-410a, R-32.
AV5MSTE-3	5/16" M. SAE x 3/16" OD / 1/8" ID / 1/4" ODF / 3/8" ODF - 5 cm. (2"). R410a, R32.

Longer lengths available. Please specify.

### ACCESS VALVE 90° ELBOW - Male SAE x ODS / ODF Solder



Model	Description
<b>NEW</b> AV4ES2-4 6	Access Valve 90° Elbow 1/4" (7/16" 20UNF) Male SAE with Valve Core & Standard Cap x Ø 1/4" (6,35 mm.) ODS - Ø 3/8" (9,52 mm.) ODF.
<b>NEW</b> AV4ES2-6 8	90° Elbow 1/4" M. SAE w/Valve Core & Std Cap x Ø 3/8" (9,52 mm.) ODS - Ø 1/2" (12,70 mm.) ODF.

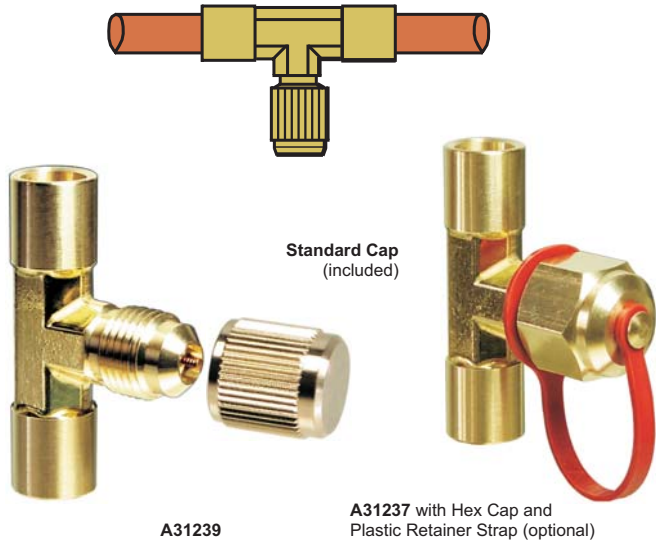
# Components

## SOLDER/BRAZE ODS and ODF - 1/4" and 5/16" SAE ACCESS VALVES



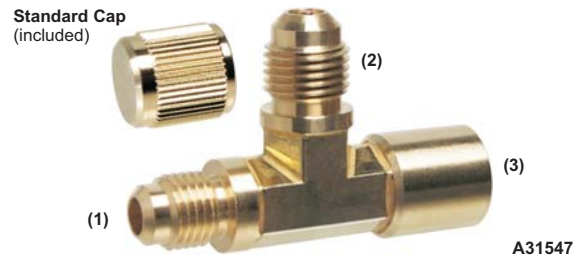
<b>NEW</b> AV5ES2-4 6	5/16" M. SAE (1/2" 20UNF) w/Valve Core & Std Cap x Ø 1/4" (6,35 mm.) ODS. - Ø 3/8" (9,52 mm.) ODF. - R-410a, R-32.
<b>NEW</b> AV5ES2-6 8	5/16" M. SAE w/Valve Core & Std Cap Ø 3/8" (9,52 mm.) ODS. - Ø 1/2" (12,70 mm.) ODF. - R-410a, R-32.

### TEE ACCESS VALVES - ODS/ODF Solder x Male SAE with Valve Core & Standard Cap x ODS/ODF Solder



Model	Description
A31234	Access Valve TEE 1/4" ODS - 3/8" ODF solder x 1/4" (7/16" 20UNF) Male SAE with Valve Core & Standard Cap x 1/4" ODS - 3/8" ODF solder.
A31235	5/16" (8 mm.) ODS - 1/2" ODF solder x 1/4" (7/16" 20UNF) M. SAE with Valve Core & Std Cap x 5/16" (8 mm.) ODS - 1/2" ODF solder.
A31236	3/8" ODS - 1/2" ODF solder x 1/4" (7/16" 20UNF) M. SAE with Valve Core & Std Cap x 3/8" ODS - 1/2" ODF solder.
A31238	1/2" ODS - 5/8" ODF solder x 1/4" (7/16" 20UNF) M. SAE with Valve Core & Std Cap x 1/2" ODS - 5/8" ODF solder.
A31240	6 mm. ODS - 10 mm. ODF solder x 1/4" (7/16" 20UNF) M. SAE with Valve Core & Std Cap x 6 mm. ODS - 10 mm. ODF solder.
A31241	10 mm. ODS - 14 mm. ODF solder x 1/4" (7/16" 20UNF) M. SAE with Valve Core & Std Cap x 10 mm. ODS - 14 mm. ODF solder.
A31247	12 mm. ODS - 16 mm. ODF solder x 1/4" (7/16" 20UNF) M. SAE with Valve Core & Std Cap x 12 mm. ODS - 16 mm. ODF solder.
A31248	14 mm. ODS solder x 1/4" (7/16" 20UNF) M. SAE with Valve Core & Std Cap x 14 mm. ODS solder.
A31239	1/4" ODS - 3/8" ODF solder x 5/16" (1/2" 20UNF) M. SAE with Valve Core & Std Cap x 1/4" ODS - 3/8" ODF solder. R410a, R32.
A31242	5/16" (8 mm.) ODS - 1/2" ODF solder x 5/16" (1/2" 20UNF) M. SAE with Valve Core & Std Cap x 5/16" (8 mm.) ODS - 1/2" ODF solder. R410a, R32.
A31237	3/8" ODS - 1/2" ODF solder x 5/16" (1/2" 20UNF) M. SAE with Valve Core & Std Cap x 3/8" ODS - 1/2" ODF solder. R410a, R32.
A31243	1/2" ODS - 5/8" ODF solder x 5/16" (1/2" 20UNF) M. SAE with Valve Core & Std Cap x 1/2" ODS - 5/8" ODF solder. R410a, R32.

### TEE ACCESS VALVES - (1) Male SAE x (2) Male SAE with Valve Core & Standard Cap x (3) ODS/ODF Solder



Model	Description
A31544	Access Valve TEE (1) 1/4" (7/16" 20UNF) Male SAE flared to receive an Schrader Valve x (2) 1/4" (7/16" 20UNF) Male SAE with Valve Core and Standard Cap x (3) 1/4" ODS - 3/8" ODF solder.
A31545	1/4" (7/16" 20UNF) M. SAE x 1/4" (7/16" 20UNF) M. SAE with Valve Core & Std Cap x 5/16" (8 mm.) ODS - 1/2" ODF solder.
A31546	1/4" (7/16" 20UNF) M. SAE x 1/4" (7/16" 20UNF) M. SAE with Valve Core & Std Cap x 3/8" ODS - 1/2" ODF solder.
A31547	1/4" (7/16" 20UNF) M. SAE x 1/4" (7/16" 20UNF) M. SAE with Valve Core & Std Cap x 1/2" ODS - 5/8" ODF solder.
A31540	1/4" (7/16" 20UNF) M. SAE x 1/4" (7/16" 20UNF) M. SAE with Valve Core & Std Cap x 6 mm. ODS - 10 mm. ODF solder.
A31541	1/4" (7/16" 20UNF) M. SAE x 1/4" (7/16" 20UNF) M. SAE with Valve Core & Std Cap x 10 mm. ODS - 14 mm. ODF solder.
A31542	1/4" (7/16" 20UNF) M. SAE x 1/4" (7/16" 20UNF) M. SAE with Valve Core & Std Cap x 12 mm. ODS - 16 mm. ODF solder.
A31543	1/4" (7/16" 20UNF) M. SAE x 1/4" (7/16" 20UNF) M. SAE with Valve Core & Std Cap x 14 mm. ODS solder.
A31554	5/16" (1/2" 20UNF) M. SAE x 5/16" (1/2" 20UNF) M. SAE with Valve Core & Std Cap x 1/4" ODS - 3/8" ODF solder. R410a, R32.
A31555	5/16" (1/2" 20UNF) M. SAE x 5/16" (1/2" 20UNF) M. SAE with Valve Core & Std Cap x 5/16" ODS - 1/2" ODF solder. R410a, R32.
A31556	5/16" (1/2" 20UNF) M. SAE x 5/16" (1/2" 20UNF) M. SAE with Valve Core & Std Cap x 3/8" ODS - 1/2" ODF solder. R410a, R32.
A31557	5/16" (1/2" 20UNF) M. SAE x 5/16" (1/2" 20UNF) M. SAE with Valve Core & Std Cap x 1/2" ODS - 1/2" ODF solder. R410a, R32.

AC&R Service Ports Air Conditioning, Refrigeration, Refrigerant Recovery, R-134a, R-410a, R-407c, R-404a, R-404a, (Male 1/2" 20UNF thread for gas on Access Valves and Charging) and for access Control Valve