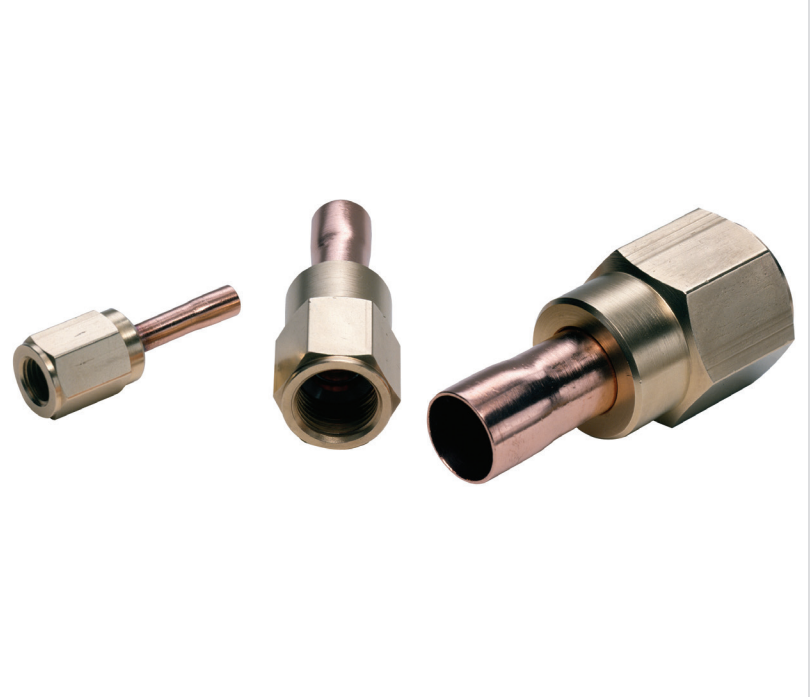
Data Sheet

Flare / solder adaptor (accessories) Type FSA



With the flare / solder adaptor, type FSA, flare connections can be easily and reliably changed to solder connections.
The adaptor provides a method of joining that preserves the advantages of flare connections, i.e. easy and fast component replacement. At the same time, the flare / solder adaptor also provides the advantage of soldered joints, i.e. a high degree of tightness that prevents leakage.
The adaptor contains no soft gaskets or O-rings which age and loose their sealing properties.
Instead, it contains a copper seal which protects the flare collar against wear and fatigue. This copper seal ensures a thightness similar to that of soldered joints.
The copper seal must be changed each time the adaptor is dismantled for servicing flare components.
Frost grooves in the nut mean that the adaptors are suitable for wet environment, where the temperature is below the water freezing point.
The nut cannot be loosened by encapsulated ice formation.

Application

- The flare / solder adaptor, type FSA, is for use where servicing or some other factor makes a "genuine" solder connection impractical.
- The adaptor can be used with advantage for components with flare connections on:
  - pressure controls
  - filter driers
  - sight glasses, etc.

Standards

DIN 8964, which stipulates a maximum leak rate for refrigeration plant of < 6.4 × 10^{-6} mbar l/s at a differential pressure of 10 bar He.

The Dutch refrigeration standard (9.12.94/IBP 07d 94007, part 2.2.8.2.):
In variation to regulation 2.2.8.1 flanged joints, compression joints, quick-couplings, flat or conical packing or trapped O-rings will be permitted, but only if the packing or O-ring provide the seal and are replaced if the joint is disconnected and then remade.

Technical data

Refrigerants
HCFC / non-flammable HFC
Max. working pressure
PS/MWP = 46 bar
Leak rate
Max. 1 g / year

Max. tightening torque

1/4 in. / 6 mm:	20 Nm
3/8 in. / 10 mm:	30 Nm
1/2 in. / 12 mm:	60 Nm
5/8 in. / 16 mm:	100 Nm
3/4 in. / 18 mm:	200 Nm

Type designation

Example
FSA 36m

FSA | 3 | 6 m

Flare/ solder adapter

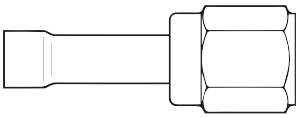
Flare nut in eighth of an inch

2 = 1/4 in. or 6 mm, 3 = 3/8 in. or 10 mm, 4 = 1/2 in. or 12 mm,
5 = 5/8 in. or 16 mm, 6 = 3/4 in.

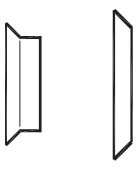
Solder connection

2 = 1/4 in., 3 = 3/8 in., 4 = 1/2 in., 6 = 3/4 in.
6m = 6 mm, 10m = 10 mm, 12m = 12 mm, 16m = 16 mm or 5/8 in., 18m = 18 mm

Ordering



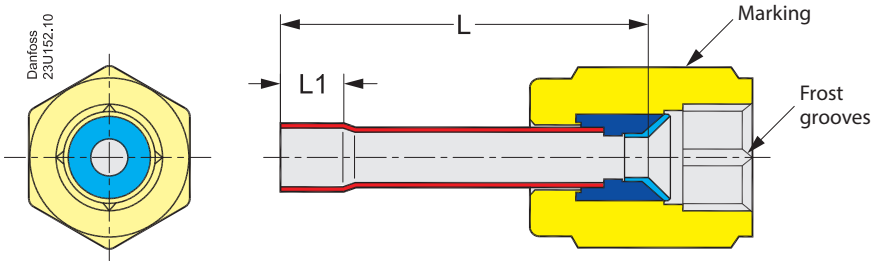
Type	Connections			Code no.
	Flare	Solder		
	in.	in.	mm	
Flare / solder adapter set, 2 pcs.				
FSA 22	1/4	1/4	-	**023U800266**
FSA 33	3/8	3/8	-	**023U800466**
FSA 44	1/2	1/2	-	**023U800666**
FSA 516m	5/8	5/8	-	**023U800766**
FSA 66	3/4	3/4	-	**023U801066**
FSA 26m	1/4	-	6	**023U800166**
FSA 310m	3/8	-	10	**023U800366**
FSA 412m	1/2	-	12	**023U800566**
FSA 516m	5/8	-	16	**023U800766**
FSA 618m	3/4	-	18	**023U800966**
Flare / solder adapter set, 1 pcs.				
FSA 22	1/4	1/4	-	**023U801266**
FSA 32	3/8	1/4	-	**023U802266**
FSA 33	3/8	3/8	-	**023U801466**
FSA 44	1/2	1/2	-	**023U801666**
FSA 516m	5/8	5/8	-	**023U801766**
FSA 66	3/4	3/4	-	**023U802066**
FSA 26m	1/4	-	6	**023U801166**
FSA 36m	3/8	-	6	**023U802166**
FSA 310m	3/8	-	10	**023U801366**
FSA 412m	1/2	-	12	**023U801566**
FSA 516m	5/8	-	16	**023U801766**
FSA 618m	3/4	-	18	**023U801966**



Accessories

Copper seal	Size	Qty.	**Code no.**
B2 - 4 spec.	1/4 in. / 6 mm	300	**011L4025**
B2 - 6	3/8 in. / 10 mm	300	**011L4017**
B2 - 8	1/2 in. / 12 mm	200	**011L4018**
B2 -10	5/8 in. / 16 mm	100	**011L4019**
B2 -12	3/4 in. / 18 mm	50	**011L4020**

Dimensions and weight



Type	Connection		L	L_1	Stamping	Weight
	Flare [in.]	Solder [ODF]	(mm)	[mm]		[kg]
FSA 22	1/4	1/4 in.	39	7	IN	0.05
FSA 26m	1/4	6 mm	39	7	MM	0.05
FSA 32	3/8	1/4 in.	50	7	IN	0.09
FSA 36m	3/8	6 mm	50	7	MM	0.09
FSA 33	3/8	3/8 in.	50	8	IM	0.09
FSA 310m	3/8	10 mm	50	9	MM	0.09
FSA 44	1/2	1/2 in.	57	10	IN	0.11
FSA 412m	1/2	12 mm	57	10	MM	0.11
FSA 516m	5/8	5/8 in. or 16 mm	57	12	MM	0.14
FSA 66 FSA 618m	3/4 3/4	3/4 in. 18 mm	68 68	14 14	IN MM	0.28 0.28