

General information:

ALCO ASD hermetic suction line filter drier and ASF as hermetic suction line filter are for new installations and integration into systems after compressor burnout, retrofit and maintenance.

Warning: Do not use ASD/ASF on liquid line applications.



Safety instructions:

- Read installation instruction thoroughly. Failure to comply can result in device failure, system damage or personal injury.
- It is intended for use by persons having the appropriate knowledge and skill. Before attempting to install the shell make sure pressure in system is brought to and remains at atmospheric pressure.
- Do not release any refrigerant into atmosphere.
- Do not use any other fluid media without prior approval of Alco Controls. Use of fluid not listed could result in:
 - Change of hazard category of product and consequently change of conformity assessment requirement for product in accordance with European pressure equipment directive 97/23/EC
 - Chemical deterioration of desiccants of core in the shell
- In a severely contaminated system, avoid breathing acid vapours and avoid contact with skin from contaminated refrigerant / lubricants. Failure to do so could result in skin injury.
- ASD/ASF must be used only for the purpose it is designed for.

Mounting location:

- ASD/ASF must be as close as possible to the compressor in suction line but upstream of any vibration adsorber that might be presented.
- Remark: Protect the shell against sunrays and vibration.
- For detailed clean-up procedure and recommendation, consult the system / compressor manufacturers or contact Alco controls application engineering department.
- Do not use ASD in systems having severe vibrations prior to tests in a pilot unit.

Installation:

- Do not remove seal caps until ready for installation in order to minimise entering of moisture and dirt into shell.
- Caution: Avoid damaging the connections.
- The arrow on the label must be point in the direction of refrigerant flow. Reverse flow reduces the filtering ability, increases the pressure drop through the filter drier shell and may cause internal screen damage.
- Use proper temperature for brazing of copper to copper as the fittings are solid copper.
- When brazing, direct flame away from filter-drier to avoid possible internal damage. Use wet rags or other suitable heat protection on filter-drier (see Fig. 1).
- If the ASD/ASF weight results in excessive stress to the piping joints, the shell must be supported by suitable mounting bracket(s).
- It is recommend to insulate the entire shell in order to reduce heat gain of suction gas.

Leakage test:

- After completion of installation, a test pressure must be carried out as follows:
 - According to EN378 for systems which must comply with European pressure equipment directive 97/23/EC
 - To maximum working pressure of system for other applications

Warning:

- 1) Failure to do so could result in loss of refrigerant and person injury.
- 2) The pressure test must be conducted by skilled persons with due respect regarding the danger related to pressure.

Operation:

- Start the compressor and put the system in operation. Record the pressure drop on the a label and attach to the side of shell.

Service hints

- Always install a new filter-drier when existing ones become saturated with moisture and foreign materials.

Caution: Used filterdrier must be properly disposed. Do not attempt to dry out a used filter-drier.

Type	ASD/ASF- 28...	ASD/ASF- 35...	ASD/ASF- 45...	ASD/ASF- 50...	ASD/ASF- 75...
Maximum working pressure PS	27.5 bar				
Temperature range TS	-45 ... +50°C				
Volume (liter)	<0.7	<0.8	<1	<1.1	<1.4
Fluid group	II				
Refrigerant:	CFC, HCFC, HFC				
Connection, DN	3/8" 1/2"	5/8" 16 mm	3/4" 7/8" 22 mm	1-1/8"	1-3/8" 35 mm 1-5/8"
Date code (Made in Mexico)	Mxxxx				
Hazard category: PED 97/23/EC	-				
CE Marking	Not applicable				
Other marking	HP, UL, 				

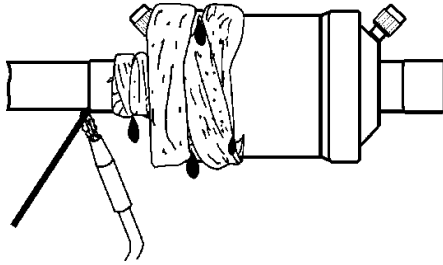


Fig. 1

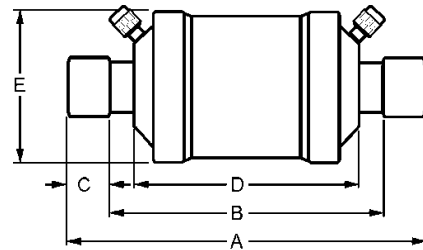


Fig. 2

	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
ASD/ASF-28 S3	142	120	11	105	94
ASD/ASF-28 S4	144	119	13	105	94
ASD/ASF-35 F5	192	-	-	121	94
ASD/ASF-35 S5	166	134	16	121	94
ASD/ASF-45 S6	197	165	16	141	94
ASD/ASF-45 S7	202	164	19	141	94
ASD/ASF-50 S9	225	179	23	156	94
ASD/ASF-75 S11	308	262	25	210	94
ASD/ASF-75 S13	309	252	29	210	94