

OIL STRAINERS

The function of an oil strainer is to remove system debris from the refrigerant oil. Their purpose is to protect compressors and oil level regulators from damage.

Applications

The Henry Technologies S-91 and SH-91 series oil strainers can be used in both Low and High Pressure Oil Management Systems. The S-91 series is suitable for HCFC and HFC refrigerants along with their associated oils and the SH-91 series is suitable for HCFC, HFC and CO₂ refrigerants and their associated oils.

Although the strainer is compatible with HFC/POE refrigerant/oil combinations, Henry Technologies recommends the use of an oil filter or oil filter drier. This is due to the scavenging nature of POE oil.

Greater system protection will be achieved using a filter or filter drier element than with a mesh strainer.

Typically, a strainer is fitted immediately upstream of a mechanical oil level regulator in order to protect the float needle valve from debris. This in turn protects the compressor from damage.

Main features

- Large screen area ensuring maximum capacity and long service
- Low pressure drop
- Stainless steel screen
- SAE or ODS connections available

Technical Specification

S-91 Series

Allowable operating temperature = -10°C to +120°C

Allowable operating pressure = 0 to 34.5 barg

Screen = 100 mesh, 71cm² filter area.

SH-91 Series

Allowable operating temperature = 0°C to +100°C

Allowable operating pressure = 0 to 45 barg

Screen = 200 mesh, 91cm² filter area.



Materials of Construction

The main body and connections are made from carbon steel. The mesh screen is made from stainless steel.

Main features

1. The oil strainer must be installed in accordance with the flow direction arrow.
2. It is recommended to install valves on either side of the unit to ease replacement, in the event that the mesh screen becomes blocked.

Part No	Conn Size (inch)		Dimensions (mm)		Screen Data		Weight (kg)	CE Cat
	Inlet	Outlet	A	Ø B	Area (mm ²)	Mesh		
S-9105	3/8 SAE Flare	3/8 SAE Flare	129	51	7095	100	0.37	SEP
S-9105X	3/8 ODS	3/8 ODS	103	51	7095	100	0.33	SEP
SH-9105	3/8 SAE Flare	3/8 SAE Flare	153	66	9100	200	0.37	SEP
SH-9105X	3/8 ODS	3/8 ODS	146	66	9100	200	0.32	SEP

