

RESERVOIR PRESSURE VALVES

The function of a Reservoir Pressure Valve is to control pressure in an oil reservoir.

Applications

A reservoir pressure valve is used to vent pressure in the oil reservoir while still maintaining a positive pressure differential between the reservoir and the compressor crankcase. This positive pressure ensures an adequate oil supply to the oil level regulators. The reservoir pressure valve is piped to suction pressure.

These valves are suitable for use with HCFC, HFC, HFO and CO₂ refrigerants, along with their associated oils.

Main Features

- Proven design
- Five pressure settings
- Premium quality Neoprene or PTFE seal

Technical Specification

Allowable operating pressure = 0 to 130 barg

Allowable operating temperature = -10°C to +150°C

Materials of Construction

The valve body components are made from brass, the spring from stainless steel and the seal from Neoprene or PTFE (STH-9104-2.4 upwards).



Part No	Drawing reference	Pressure Setting (barg)	Conn Size (inch)		Weight (kg)	CE Cat
			Inlet	Outlet		
STH-9104-0.35 BAR	Fig.1	0.35 fixed	3/8" SAE Flare Female	3/8" SAE Flare Male	0.11	SEP
STH-9104-1.4 BAR		1.4 fixed				
STH-9104-2.4 BAR		2.4 fixed				
STH-9104-4.5 BAR		4.5 fixed				
STH-9104-25 BAR		25 fixed				

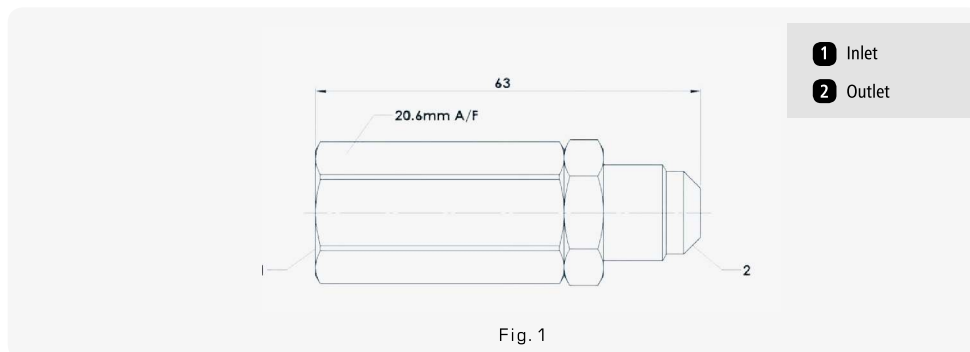


Fig. 1

RESERVOIR PRESSURE VALVE

Selection guidelines

The models provide 0.35, 1.4 and 2.4, 4.5 and 25 bar pressure differentials as required. A higher pressure differential will increase the oil flow rate from the oil reservoir back to the compressors.

The user should select a model taking into account individual compressor crankcase pressures along with the differential pressure

range of the oil regulators. If foaming is a concern use a low differential pressure setting.