



Orifice Plate Flowmeters Customer Data Sheet

This Customer Data Sheet is intended to gather together all relevant information necessary to size and specify a Spirax Sarco Orifice Plate Flowmetering System. All equipment will be supplied to the customer based on the information received.

Company Name	
Address	
Contact	
Project reference	
Notes	

Please complete all sections and supply drawings, sketches etc. where appropriate.

SECTION A: WORKING FLUID DETAILS

Name of fluid (e.g. steam, water, air)				
State of fluid (e.g. liquid, vapor, gas)				
	Min value	Normal value	Max value	Units
Flowing Pressure				
Flowing Temperature				
Flowing Density				
Estimated rate of flow				

Notes:

The pressure drop at specified maximum rate of flow will be 100 inches water gauge unless otherwise stated. Below 25% of specified maximum rate of flow, system accuracy cannot be guaranteed due to turndown limitations of orifice plates.

SECTION B: PIPELINE DETAILS

	Value
Nominal pipe size (inches)	
Pipe inside diameter (inches)	
Pipe schedule	
Flange rating (ANSI)	
Number of straight pipe diameters upstream	
Number of straight pipe diameters downstream	
Pipe material	
DP Trapping position*	

*If ordering plate only (no carrier) specify tapping position (corner, flange, D & D/2, or 2.5D & 8D).

Please provide a sketch showing all details of pipework including any valves, bends, fittings etc in the area where the M410 orifice plate is to be fitted. This is important as the performance of all orifice plates can be affected greatly by installation factors. Using the information from sections A and B, Spirax Sarco will size the correct orifice plate.

SECTION C: M410 KIT OPTIONS

The Spirax Sarco Orifice Plate is available in 4 basic kits. To create a complete metering system, additional components should be selected. The composition of the system is dependent on whether or not density compensation is required.

Note: Check all items required.

Option		Check
1	M410 orifice plate and gaskets	
2	M410 orifice plate, gaskets, M610 DP transmitter assembly	
3	M410 orifice plate, gaskets, carrier rings and 2 F50C isolation valves	
4	M410 orifice plate, gaskets, carrier rings, 2 F50C isolation valves and M610 DP transmitter assembly	

SECTION D: ASSOCIATED TRANSMITTERS REQUIRED FOR DENSITY COMPENSATED SYSTEMS

Item	Range length	Insert	Check	See TIS #
EL 2600 pressure transmitter				8.403
EL2270 temperature transmitter				8.402
EL2271 temperature sensor & transmitter				8.402
Temperature Sensor Pocket				8.402
EL2810 temperature transmitter				8.402
M640 steam mass flow transmitter				8.404

SECTION E: ASSOCIATED FLOW COMPUTERS

Item	Version	Supply (volts)	Check	See TIS #
M700 uncompensated panel mtd. display				8.302
M241G steam flow computer, wall mtd. *				8.300
M242G steam flow computer, panel mtd. *				8.300
M251G gas flow computer, wall mtd. *				8.301
M252G gas flow computer, panel mtd. *				8.301

*Provide density compensation