



Cert. No. LRQ 0963008

ISO 9001

## 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.

<b>Company name</b>	
<b>Address</b>	
<b>Contact</b>	
<b>Project reference</b>	
<b>Notes</b>	

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

### Section A: Working fluid details

<b>Type of fluid</b> (e.g., steam, air, water etc)	
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	Min. value	Normal value	Max. value	Units
<b>Operating pressure</b>				
<b>Operating temperature</b>				
<b>Estimated rate of flow</b>				

**Notes:** The pressure drop at specified maximum rate of flow will be 24.9 kPa (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. (BS 1042 / ISO 5167)

### Section B: Pipeline details

	Value	Units
<b>Nominal line size</b>		
<b>Line inside diameter</b>		
<b>Line schedule (if known)</b>		N/A
<b>Flange specification</b>		N/A
<b>Number of straight pipe diameters available upstream</b>		N/A
<b>Number of straight pipe diameters available downstream</b>		N/A
<b>Pipe material</b>		N/A

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 in line with the parameters laid down in BS 1042 / ISO 5167.

### Section C: Options available

The Spirax Sarco orifice plate flowmetering system is available in a number of options, at least one of which will suit the needs of a customer. Options 1 to 4 are for simple systems where automatic density compensation is **not** required. These are shown at the top of the next column...simply tick the option that meets your needs.

**Options for use with flowcomputers that DO NOT include density compensation:**

Option	List of equipment in each package option
1	M410 orifice plate and gaskets
2	M410 orifice plate and gaskets, M610 DP transmitter
3	M410 orifice plate and gaskets with carrier ring, F50C isolation valves
4	M410 orifice plate and gaskets with carrier ring, F50C isolation valves, M610 DP transmitter assembly
<b>Option product code</b>	

Options 5 to 10 include equipment that allows automatic density compensation for maximum accuracy. These are shown below...simply tick the option that meets your needs.

**Options for use with flowcomputers that DO include density compensation:**

Option	List of equipment in each package option
5	M410 orifice plate and gaskets, M610 DP transmitter assembly, EL2600 pressure transmitter
6	M410 orifice plate and gaskets, M610 DP transmitter assembly, EL2271 temperature transmitter
7	M410 orifice plate and gaskets, M610 DP transmitter assembly, EL2600 pressure transmitter, EL2271 temperature transmitter
8	M410 orifice plate and gaskets with carrier ring, F50C isolation valves, M610 DP transmitter assembly, EL2600 pressure transmitter
9	M410 orifice plate and gaskets with carrier ring, F50C isolation valves, M610 DP transmitter assembly, EL2271 temperature transmitter
10	M410 orifice plate and gaskets with carrier ring, F50C isolation valves, M610 DP transmitter assembly, EL2600 pressure transmitter, EL2271 temperature transmitter
<b>Option product code</b>	

**Note:** For all options, please state if a vent or drain hole is required in the M410 orifice plate.

### Section D: Associated equipment required

The M800 steam flow computer will provide automatic density compensation for all steam flowmetering applications over the range 100°C @ 0 bar g to 500°C @ 42 bar g.

	99/264 Vac	Wall mount	Panel mount
<b>M800 steam flow computer</b>			
<b>M750 display unit</b>		N/A	

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**Sketch showing details of installation:**