

Technical Information

SmartLine Transmitter Head & Vent Configurations



SmartLine dual head pressure products are available with various head configurations and vent/drain configurations. Below is a description of each head, vent and associated configuration to help properly select from the Model Selection Guides Tables Ie and II (found on the next page).

Process Heads

Process heads sometimes referred to as flanges facilitate the customer's process connections. Heads are available in various materials as listed in Table Ia of the SmartLine MSGs. In addition to material selections Honeywell also offers two separate head types selectable from Table Ie:

Head Types:

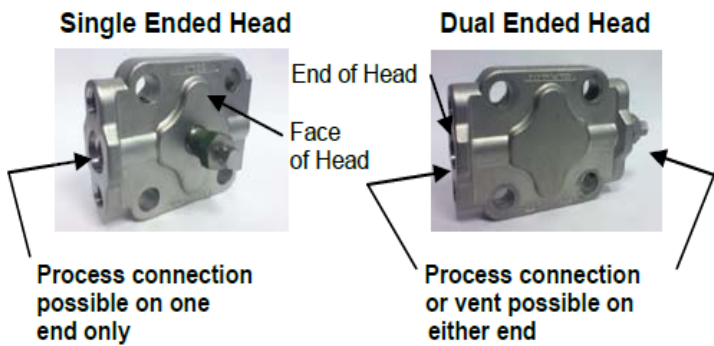


Table Ie Selection 1, 2, 3

Table Ie Selection 4, 5, 6

Head Orientation:

Heads are also available in two separate mounting orientations (horizontal and vertical) as described in Table IIe. Only single ended heads may be mounted vertically or horizontally. Dual ended heads are always supplied horizontally mounted.

Horizontal (Std Mounting)

Vertical (90°/Standard)



Table II selection 1 or 2



Table II selection 3

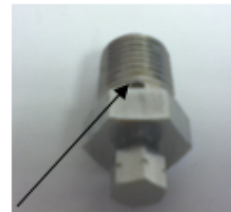
Vent/Drain Selections

SmartLine MSG Table Ie also provides the ability to select the vent/drain types and their mounting locations.

Vent/Drain Types:

Standard vents are most common. Center vents provide the opportunity for customers to direct the vent via customer supplied tubing.

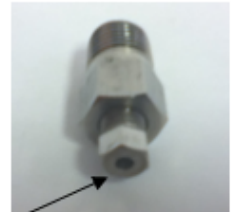
Standard Vent/Drain



Process vents through hole in outer bushing

Table Ie Selections 2,4,6

Center Vent/Drain



Process vents through center of inner bushing

Table Ie Selection 3,5

Vent/Drain Locations:

With dual ended heads, the vent/drains may be located on either the end of the head or the face of the head. Single ended heads may only have vent/drains on the face of the head.

Face Mounted Vent



Table Ie Selection 2

End Mounted Vent

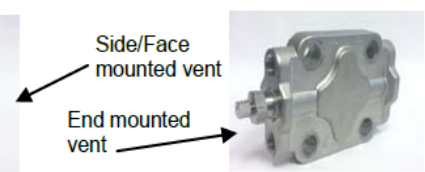


Table Ie Selection 4

Table Ie selection 6 provides a vent on the face of the head and a plug on the end of the head. When Table Ie selection 1 (none) is made, single ended heads with no vent/drain combinations are supplied.

Why Do We Have All These Choices

Here are some examples of when you might choose different configurations:

- **Vertical Mounted Heads** facilitate process self-draining from the heads. This is often useful in cold climates when processes are intermittent and process freezing may occur.
- **Center Vents** permit the attachment of a tube or hose to direct a vented process to a container providing a level of safety for the maintenance engineer.
- **Side/Face Mounted Vents** with end plugs facilitate both the ability to properly drain and vent process and also to provide a flushing port or connection.



Did you get it?

Take a look at the picture here and see if you can make the right Table Ie and Table II selections. Look closely to be sure.

1. Table Ie selection 1, 2, 3, 4, 5, or 6?
2. Table II selection 1, 2, or 3?

See answers below.

TABLE I		METER BODY SELECTIONS							
	Head Type	Vent Type	Location	Vent Material					
e. Vent/Drain Type/Location	Single Ended	None	None	None	1	*	*	*	
	Single Ended	Standard Vent	Side	Matches Head Material ¹	2	*	*	*	
	Single Ended	Center Vent	Side	Stainless Steel Only	3	t	t	t	
	Dual Ended	Standard Vent	End	Matches Head Material ¹	4	*	*	*	
	Dual Ended	Center Vent	End	Stainless Steel Only	5	t	t	t	
	Dual Ended	Std Vent/Plug	Side/End	Matches Head Material ¹	6	*	*	*	
TABLE II		Meter Body & Connection Orientation				▼	▼	▼	
Head/Connect Orientation	Standard	High Side Left, Low Side Right ² / Std Head Orientation			1	*	*	*	
	Reversed	Low Side Left, High Side Right ² / Std Head Orientation			2	*	*	*	
	90/Standard	High Side Left, Low Side Right ² / 90° Head Rotation			3	h	h	h	

Answer:
Table Ie Selection 4
Table II Selection 1 or 2

For More Information

Learn more about how Honeywell's SmartLine Pressure Transmitters deliver value across the entire plant lifecycle, visit our website www.honeywellprocess.com/smartline or contact your Honeywell distributor or account manager.

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SO-13-57-ENG
August 2013
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