



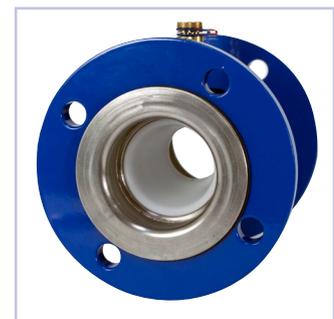
CTS Venturi Flow Meter

The CTS Velocity Balancing Valve provides accurate flow measurement and shut-off for heating and cooling hydronic systems.



The CTS Velocity Balancing Valve is a flanged variable orifice flow meter for heating & cooling water control applications. Designed & manufactured by CTS, the steel Velocity Balancing Valve provides accurate flow measuring in one complete unit.

- ▶ **Floating flange connection with EPDM insulator:**
 - Ease of installation – flexible pipe work alignment
 - Insulation can be easily applied to pipe body
- ▶ **Steel one piece housing with integral sampling points:**
 - No welds or joins
 - Corrosion resistant
 - Light weight
- ▶ **Synthetic polymer Venturi insert:**
 - High degree of measurement accuracy (+/- 2.5%)
 - Serviceable on site
- ▶ **Multiple flange standards available**
 - Sizes from 65mm - 200mm available
 - AS Table E, DIN 16, ANSI 150





CTS Venturi Flow Meter Specification Data

Technical Details:

Maximum Pressure	16 Bar / 232PSI (pressure rating as per flange)
Maximum Temperature	-20°C to 95°C / -4°F to 203°F
End Connections	AS Table E, DIN 16, ANSI 150
Size Range	65mm - 200mm
Flow Range	1.80 thru 100 l/s
Flow Accuracy	+/- 2.5%

Flow Rate Recommendation Guide:

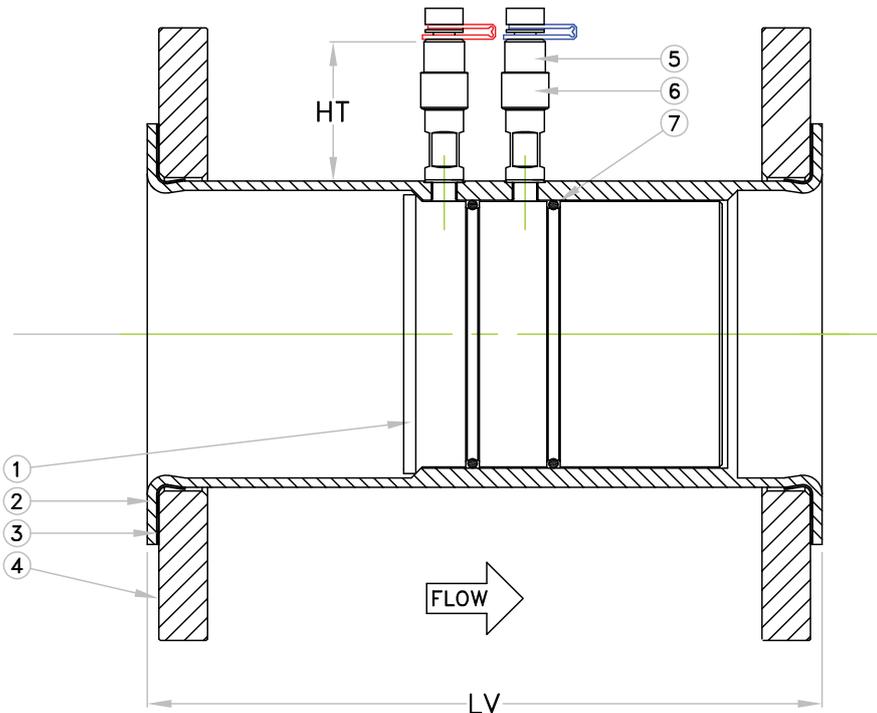
Size (mm)	Flow Rate (l/s)		Kvs Signal Across Test Points (m³/h)
	Minimum	Maximum	
65	1.80	7.0	78.2
80	3.50	15.0	169
100	6.20	26.0	360
125	9.00	40.0	502
150	16.8	57.0	1010
200	28.0	100	1910

*Flow chart available upon request.

Dimensions - Millimetres:

Size	65	80	100	125	150	200	250	300
LV	175	200	250	275	300	350	400	450
HT	52*	52*	52*	52*	52*	52*	52*	52*

*Longer Test Point extensions available if required.



Bill of Materials:

1	Venturi	Synthetic polymer
2	Venturi Housing	Steel
3	Insulator Gasket	EPDM
4	Floating Flange	Coated Steel or S/Steel
5	Test Point	DZR Brass - EPDM
6	Spacer (TP)	DZR Brass or S/Steel
7	O-Ring	EPDM (other if required)