



CTS Velocity Balancing Valve

The CTS stainless 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 balancing valve for heating & cooling water control applications. Designed & manufactured by CTS, the stainless steel Velocity Balancing Valve provides accurate flow measuring, pre-setting & isolation in one complete unit.

- ▶ **Butterfly valve memory stop notch plate:**
 - Accurate setting scale with memory stop
 - Stainless steel construction
 - Compact design
- ▶ **Floating flange connection with EPDM insulator:**
 - Ease of installation – flexible pipe work alignment
 - Insulation can be easily applied to pipe body
- ▶ **Stainless 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



Butterfly valve stop notch plate



Synthetic polymer Venturi insert

CTS Velocity Balancing Valve 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 (larger sizes upon request)
Flow Range	1.80 thru 100 l/s
Flow Accuracy	+/- 2.5%

Flow Rate Recommendation Guide:

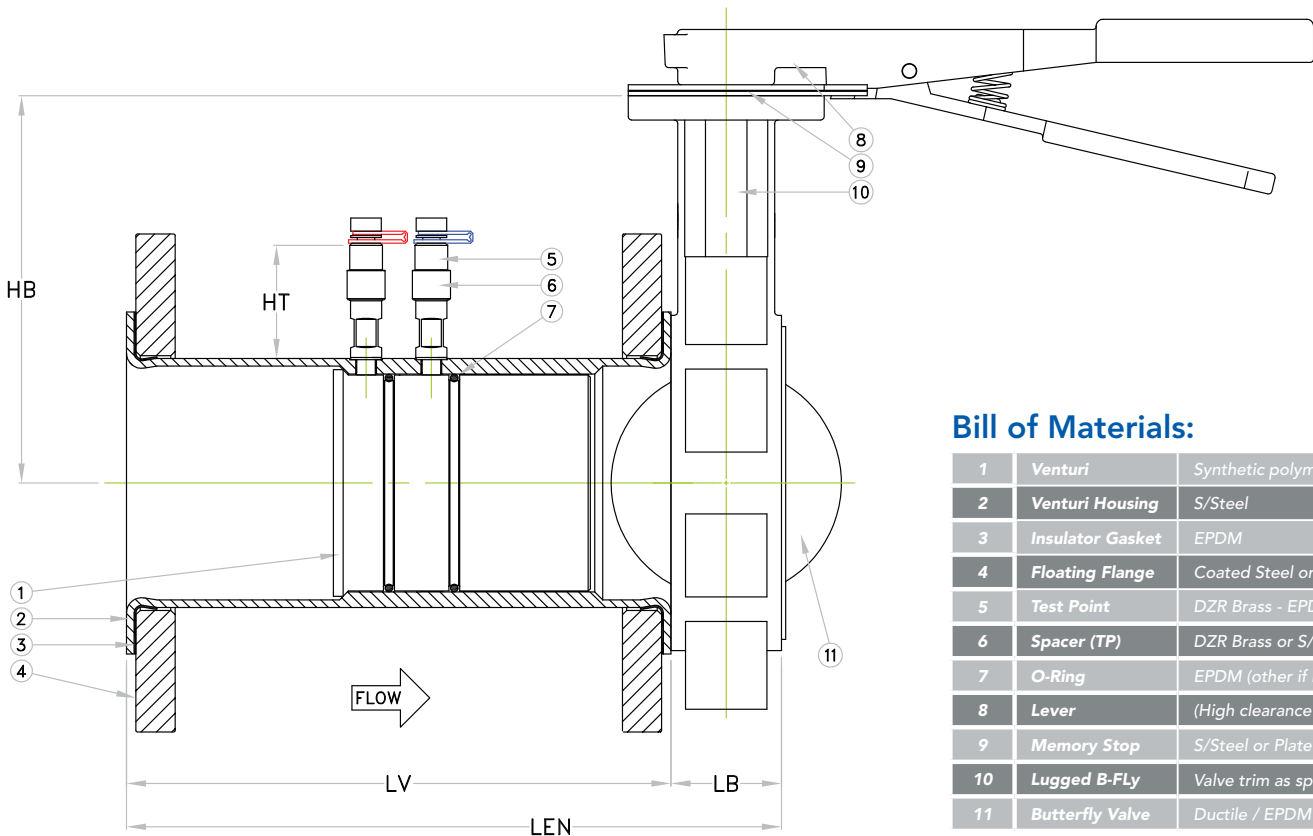
Size (mm)	Flow Rate (l/s)		Kvs Signal Across Test Points (m³/h)
	Minimum	Maximum	
65	1.80	7.0	78.2
80	3.50	15.0	169
100	6.20	26.0	360
125	9.00	40.0	502
150	16.8	57.0	1010
200	28.0	100	1910

*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
LB	46	46	52	56	56	60	68	78
LEN	221	246	302	331	356	410	468	528
HT	52*	52*	52*	52*	52*	52*	52*	52*
HB	152	159	178	190	203	241	273	311

*Longer Test Point extensions available if required.



Bill of Materials:

1	Venturi	Synthetic polymer
2	Venturi Housing	S/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)
8	Lever	(High clearance available)
9	Memory Stop	S/Steel or Plated Steel
10	Lugged B-Fly	Valve trim as specified
11	Butterfly Valve	Ductile / EPDM