

## eDART Dual External Dart Valve

The external dual eDART valve is optimised for fine control of slurry flow specifically designed with the flotation market in mind. There are a number of body and flange orientations offered as standard but any customisation may be designed.

### **Material of Construction**

- Plug and seat – polyurethane or other appropriate wear resistant material (e.g. UHMWPE).
- Patented bellows seal. – non-sliding sealing arrangement
- Body – rubber lined mild steel
- eDART actuators

### **Standard Sizes**

- 100mm to 1000mm

### **Options**

- eDART dual valve controller
- eDART Thief sampler
- Flushing valves
- Full bore or reduced plug and seat
- Custom designs available if standard designs don't suit application.
- Smart (HART, Profibus), Electro-Pneumatic (4-20mA), Pneumatic (20-100kPa) Positioner
- Bias Spring Fail Closed, Fail Fixed or Double Acting Actuator Options

### **Features**

- Body fully customised to Plant Layout
- front left/right; side or vertical outlet
- Cage guided plugs
- Inspection/thief sampler port
- Valve can be fully serviced in situ
- Simple maintenance: All internal wearing parts can be inspected and/or replaced without removing the valve body from the process line
- Anti Rotation Device
- Stroke Indication

### **Applications**

- Flotation machine level control
- Distribution box level control





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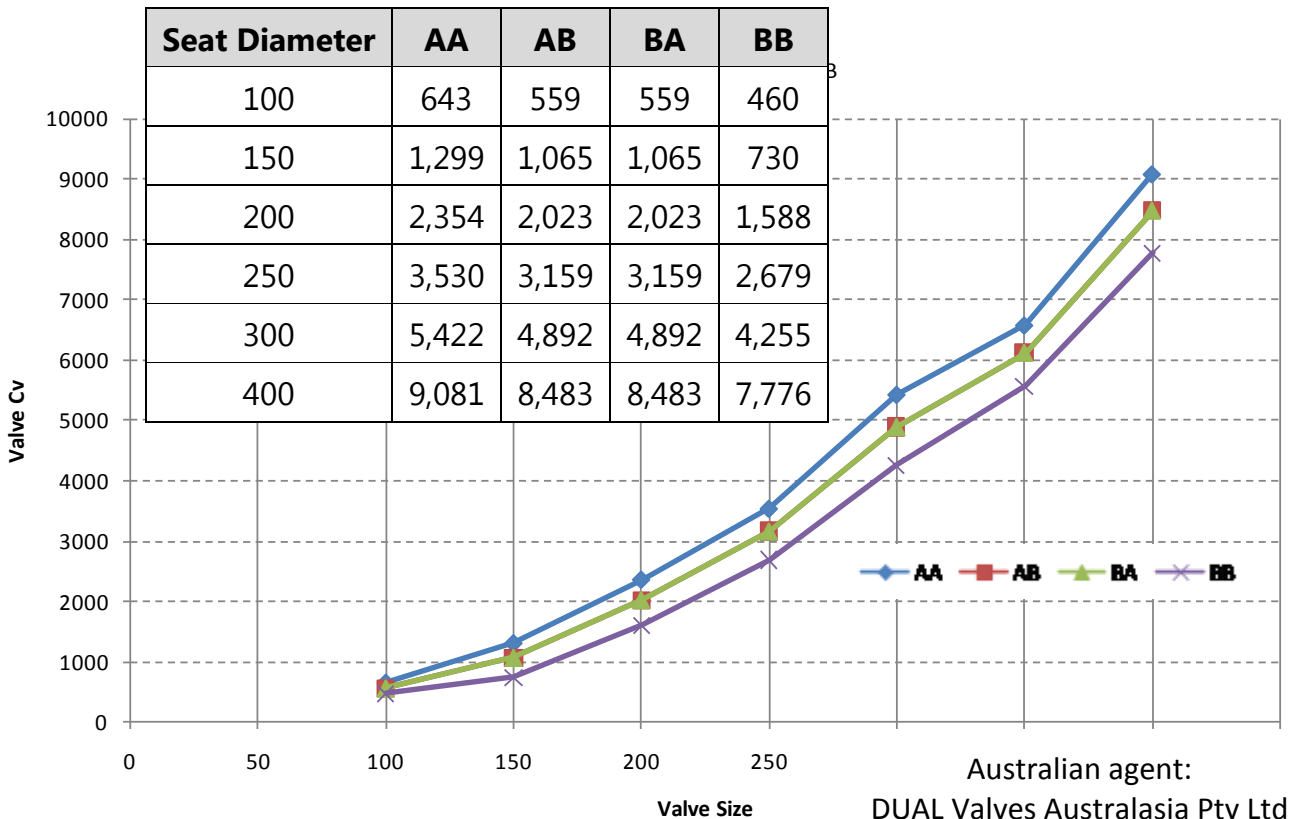
## Outlet Pipe diameter for the dual edart

The following table gives the final flow diameter for the dual edart valve (units in mm):

Seat Diameter	Outlet Diameter	Pipe (6mm thickness)		Rubber Lining	
		OD	ID	Thickness	ID
80	150	165.2	153.2	4	145.2
100	200	219.1	207.1	4	199.1
150	250	273	261	4	253
200	350	355.6	343.6	6	331.6
250	400	406.4	394.4	6	382.4
300	500	508	496	6	484
400	600	609.6	597.6	6	585.6

## Valve Coefficient (Cv) for the dual edart

The valves are named with an XY designation where X refers to the primary and Y to the secondary seat. A means that the seat is full size and B means there is a size reduction. This means that a 200AB valve has a primary seat of 200mm and secondary seat of 150mm. The calculated Cv is shown in the table below:



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