



# SHREYANS IMPORTS AND EXPORTS

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## VALVE FLOW DATA

### PRESSURE -LOSS

#### Valve -- Fluid pressure loss calculation formula

$$\Delta P = S \left( \frac{Q}{C_v} \right)^2$$

#### Remark:

- $\Delta P$  = Reduce the pressure through the valve (PSI)
- S = Specific Gravity of liquid
- Q = Liquid flow (gal/min)
- $C_v$  = Valve flow coefficient

### $C_v$ Value (Pure water, 60°F)

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"
Check Valve	3.64	6.65	11.1	20	28	48	70	150	320	500	800	1400		
Ball Valve	5.84	13.9	27	44	64	100	180	280	520					
Butterfly Valve					80	145	195	300	600	980	1500	3100	5000	7000

### Caution

This list of  $C_v$  Value is only calculated value ,also approximate value ,and not applicable for the calculation of important flow and pressure loss.  
When the opening position of valves is less than 45 degree , it is not recommended to use ball valve to restrict flow.