

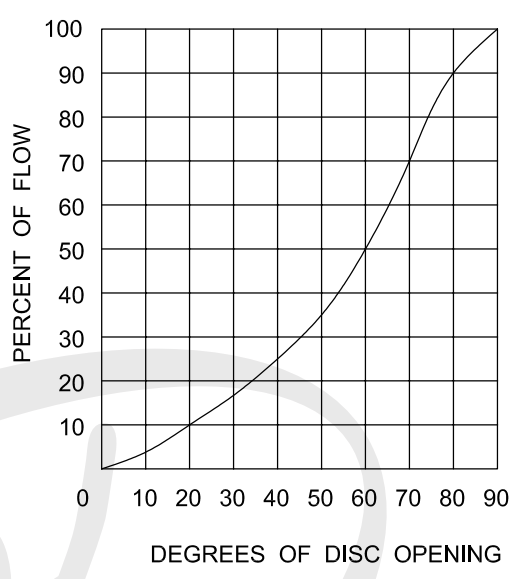
**BUTTERFLY VALVE  
MODEL - 91 & 91L  
Cv VALUES**

|         |             |    |               |
|---------|-------------|----|---------------|
| REF.NO. | BFTS0055    |    | 02<br>REV.NO. |
| DATE    | 02 AUG 2005 |    |               |
| SHEET   | 01          | OF | 01            |



| VALVE SIZE |       | Cv VALUES |           |
|------------|-------|-----------|-----------|
| MM         | INCH  | CLASS 150 | CLASS 300 |
| 50         | 2     | 100       | 100       |
| 65         | 2 1/2 | 150       | 150       |
| 80         | 3     | 242       | 242       |
| 100        | 4     | 488       | 488       |
| 125        | 5     | 740       | 740       |
| 150        | 6     | 1260      | 1260      |
| 200        | 8     | 2200      | 2200      |
| 250        | 10    | 3420      | 3200      |
| 300        | 12    | 5100      | 4500      |
| 350        | 14    | 6300      | 5800      |
| 400        | 16    | 8200      | 7200      |
| 450        | 18    | 10500     | 9500      |
| 500        | 20    | 14000     | 12700     |
| 600        | 24    | 21600     | 19500     |
| 750        | 30    | 28480     | 27080     |

TYPICAL FLOW CHARACTERISTICS - % Cv



Cv IS A BASIC INDUSTRY WIDE STANDARD FOR DETERMINING VALVE CAPACITY AND IS DEFINED AS "THE FLOW OF COLD WATER IN GALLON'S PER MINUTE WHICH WILL PRODUCE A PRESSURE LOSS OF ONE POUND PER SQUARE INCH ACROSS A VALVE"

$$Cv = \frac{Q\sqrt{G}}{\sqrt{\Delta P}}$$

WHERE,

- Q = FLOW RATE IN GPM
- G = SPECIFIC GRAVITY OF LIQUID ( WATER = 1)
- P = PRESSURE DROP ACROSS THE VALVE IN psi

$Kv = Cv/1.17$

PREPARED BY :

APPROVED BY :