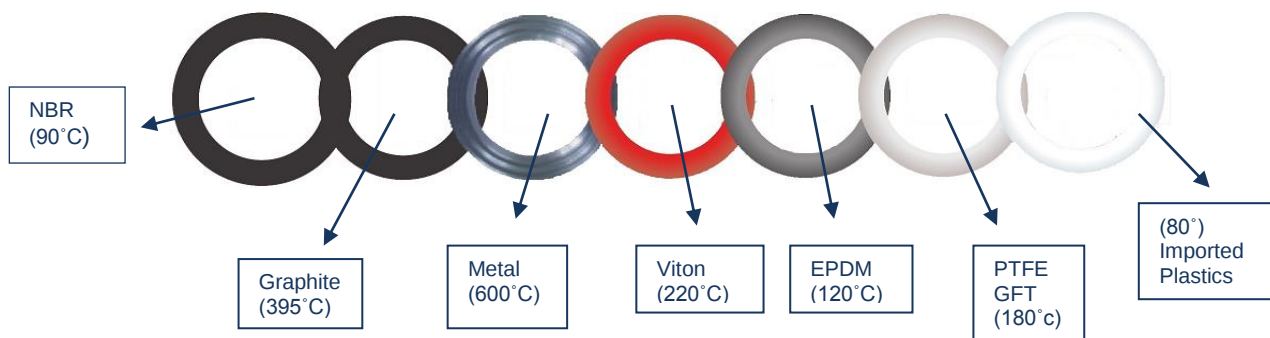
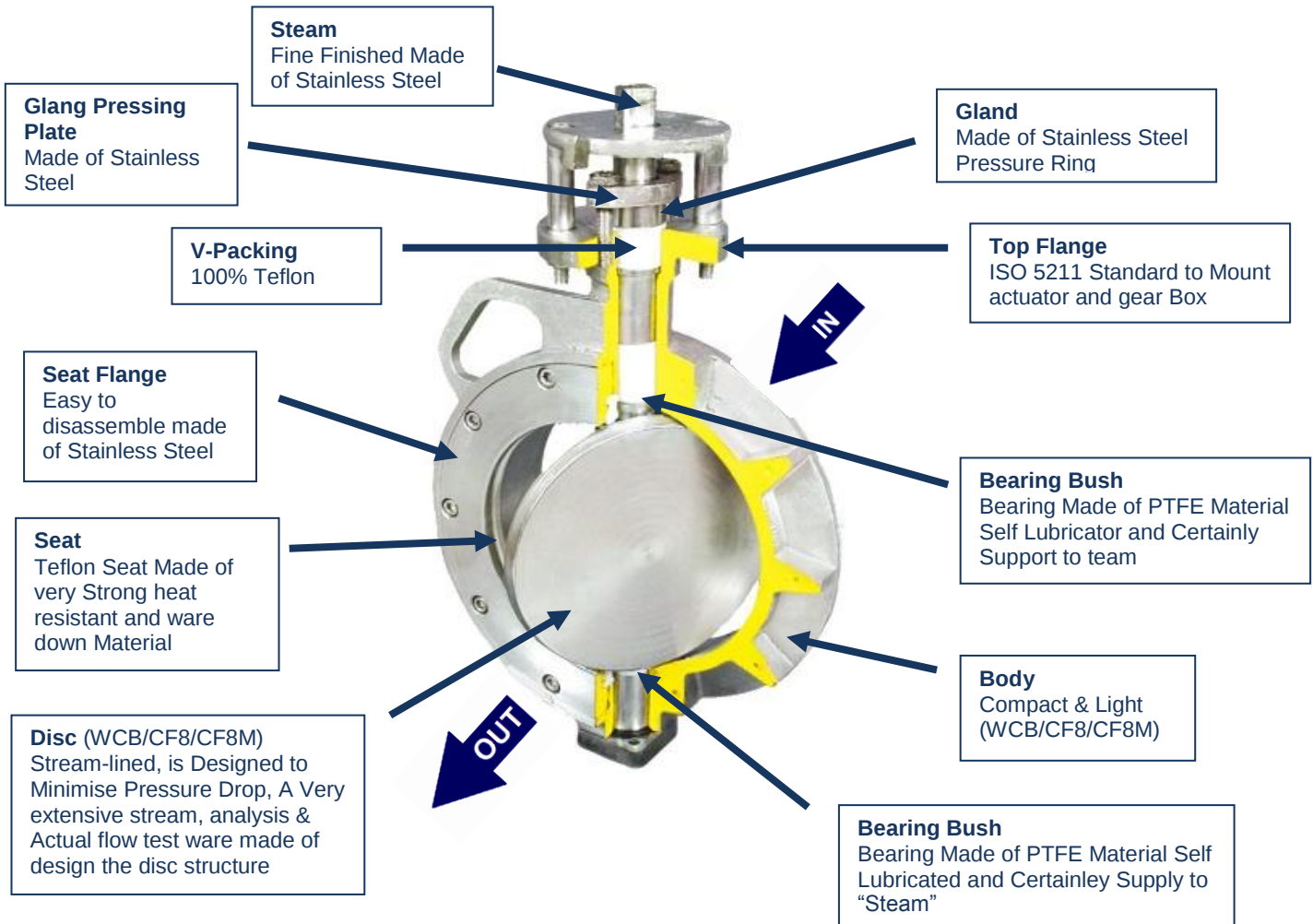


## ***SPHERICAL DISC VALVE HIGH PERFORMANCE BUTTERFLY VALVE***

**Precised & Strong Durable to 240°C/600°C Temperature And 10Kg/Cm<sup>2</sup>/20Kg/Cm<sup>2</sup> Pressure**



### **5 Special Effects**

- 1) Compact Design – Full Port- Offers Mass Flow
- 2) Simple Structure, Light & Smooth – Takes Very Short Time For Opening & Closing With Very Low Torque.
- 3) Easy Maintenance – Replaceable Seals Design

- 4) Self Sealing – Self Cleaning The Under Cut Disc Segment And Seal Tends to Wipe Away The Material From The Sealing Area,
- 5) Gland pressing plate – Ensures Complete Utilization of Gland Seates

## Application

- ❖ Hygienic Powder & Slurries, especially in Pharmaceutical Industries.
- ❖ Chemical and Dyeing Fluids in Textile Processing
- ❖ Brine Waters & Oils. Steam Lines, Air / Gas Lines / Vacuum.

Spherical Disc Valve has been Proved as Superior to Other Valves in Many Aspects, Particularly in

- ❖ Weight • Space • Pressure Range
- ❖ Multiple Operations • Maintenance Ease
- ❖ Torque & Economy

## Material of Construction

|                       |                                                                    |
|-----------------------|--------------------------------------------------------------------|
| Size Range            | 1.1/2" to 48"                                                      |
| Construction Type     | Double Eccentric Disc Design                                       |
| Body                  | WCB / CF8 / CF8M / CAST IRON                                       |
| Disc                  | WCB / CF8 / CF8M                                                   |
| Seat                  | PTFE (available EPDM / Metal to Metal)                             |
| Shaft                 | AISI 410 / 304 / 316                                               |
| Plate Mounting        | NAMUR Standard                                                     |
| Pressure Rating       | ANSI 150 Class                                                     |
|                       | ANSI 300 Class (On Request)                                        |
| End Connection        | Wafer / Sandwiched                                                 |
|                       | Lug type (On Request)                                              |
| Operating Temp. Range | -25°C to 180 °C (Soft Seating)                                     |
|                       | -25 °C to 600 °C (Metal to Metal Seating)                          |
| Operating             | Hand Lever, Worm Gera Box, Pneumatic Actuated, Electrical Actuated |

## CV Valve in GPM

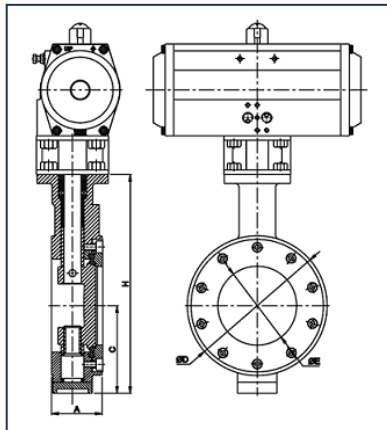
| Valve Size |        | CV Full Open 90°<br>(GPM) Class 150 |
|------------|--------|-------------------------------------|
| Inch       | MM     |                                     |
| 1.1/2"     | (40)   | 70                                  |
| 2"         | (50)   | 92                                  |
| 2.1/2"     | (65)   | 150                                 |
| 3"         | (80)   | 260                                 |
| 4"         | (100)  | 460                                 |
| 5"         | (125)  | 760                                 |
| 6"         | (150)  | 1350                                |
| 8"         | (200)  | 2200                                |
| 10"        | (250)  | 3200                                |
| 12"        | (300)  | 4700                                |
| 14"        | (350)  | 5800                                |
| 16"        | (400)  | 8000                                |
| 18"        | (450)  | 10500                               |
| 20"        | (500)  | 14000                               |
| 24"        | (600)  | 21000                               |
| 26"        | (650)  | 23400                               |
| 28"        | (700)  | 27000                               |
| 30"        | (750)  | 33300                               |
| 32"        | (800)  | 40200                               |
| 36"        | (900)  | 56500                               |
| 40"        | (1000) | 70000                               |
| 48"        | (1200) | 90000                               |

## Torque Valves in Kgf.m

| Valve Size |        | Differential Pressure (AP) |                       |                       |                       |
|------------|--------|----------------------------|-----------------------|-----------------------|-----------------------|
| inch       | MM     | 5 Kg/Cm <sup>2</sup>       | 10 Kg/Cm <sup>2</sup> | 15 Kg/Cm <sup>2</sup> | 20 Kg/Cm <sup>2</sup> |
| 1.1/2"     | (40)   | 0.8                        | 1                     | 1.2                   | 1.5                   |
| 2"         | (50)   | 0.9                        | 1.2                   | 1.5                   | 1.7                   |
| 2.1/2"     | (65)   | 1.6                        | 2.2                   | 2.4                   | 3                     |
| 3"         | (80)   | 3                          | 3.4                   | 4.2                   | 5                     |
| 4"         | (100)  | 4                          | 4.6                   | 5.4                   | 6.4                   |
| 5"         | (125)  | 5.8                        | 8                     | 9.5                   | 11.5                  |
| 6"         | (150)  | 9                          | 11.5                  | 12.5                  | 14.5                  |
| 8"         | (200)  | 14                         | 17.5                  | 24                    | 28                    |
| 10"        | (250)  | 23.5                       | 26.5                  | 28                    | 30                    |
| 12"        | (300)  | 32                         | 36                    | 40                    | 50                    |
| 14"        | (350)  | 50                         | 65                    | 83.5                  | 108.5                 |
| 16"        | (400)  | 69.4                       | 94.5                  | 120                   | 160                   |
| 18"        | (450)  | 95.5                       | 128                   | 157.2                 | 205                   |
| 20"        | (500)  | 122.5                      | 193.3                 | 210                   | 293.4                 |
| 24"        | (600)  | 213.3                      | 293.4                 | 366.7                 | 440.1                 |
| 26"        | (650)  | 265                        | 350                   | 400                   | 510                   |
| 28"        | (700)  | 300                        | 395                   | 480                   | 595                   |
| 30"        | (750)  | 321                        | 420                   | 519                   | 617                   |
| 32"        | (800)  | 481                        | 630                   | 780                   | 920                   |
| 36"        | (900)  | 518                        | 663                   | 850                   | 992                   |
| 40"        | (1000) | 641                        | 850                   | 1060                  | 1300                  |
| 48"        | (1200) | 850                        | 1166                  | 1485                  | 1632                  |

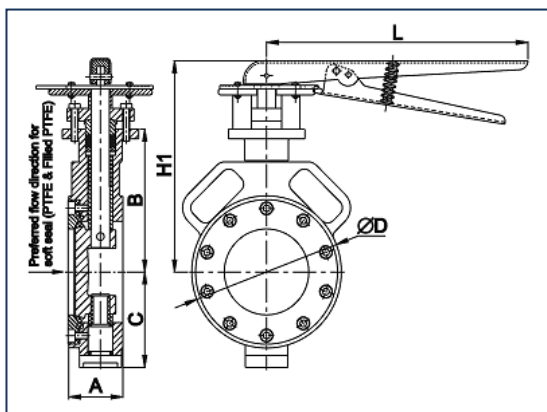
|                               |                                  |                                 |
|-------------------------------|----------------------------------|---------------------------------|
| Standards :                   | Series 5150 (40 NB TO 600 NB)    | Series 6150 (650 NB TO 1200 NB) |
| Design and manufacturing      | API 609 CATEGORY B.              | MSS SP - 68                     |
| Valve face to face dimensions | API 609 CATEGORY B /ANSI B 16.10 | ISO 5752 SERIES 20, MSS SP - 68 |
| Flange standard conformity    | ANSI B 16.5 CLASS 150            | ASME /ANSI B 16.47 SERIES 'A'   |
| Inspection & testing Standard | API 598 /ANSI FCI 70 - 2         | API 598/ BS 6755                |
| Fire safe testing             | API 607                          | API 607                         |
| Pressure temperature rating   | ASME /ANSI B 16.34               | ASME /ANSI B 16.34              |

## Pneumatic Actuator Operated Spherical Disc Valve



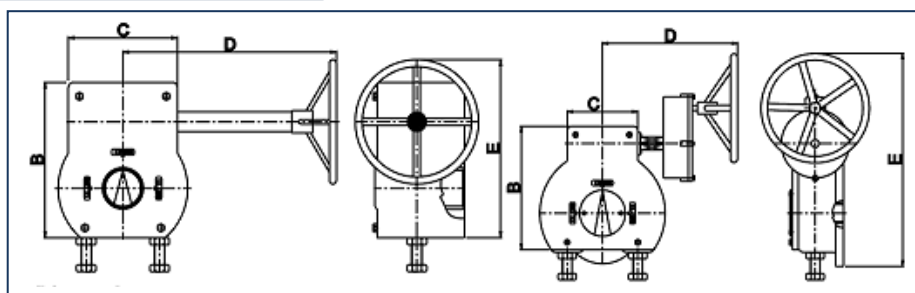
| Valve Size |      | L   | C     | ØE    | ØD   | Weight  |
|------------|------|-----|-------|-------|------|---------|
| MM         | Inch |     |       |       |      |         |
| 40         | 1½"  | 42  | 57    | 38    | 82   | 1.600   |
| 50         | 2"   | 45  | 68.5  | 50.8  | 95   | 2.200   |
| 65         | 2½"  | 48  | 74.5  | 60.6  | 108  | 3.000   |
| 80         | 3"   | 48  | 80    | 72    | 127  | 3.800   |
| 100        | 4"   | 54  | 96    | 100   | 159  | 5.600   |
| 125        | 5"   | 57  | 117   | 123   | 186  | 7.700   |
| 150        | 6"   | 57  | 132   | 143   | 217  | 10.400  |
| 200        | 8"   | 64  | 157   | 192   | 270  | 15.000  |
| 250        | 10"  | 71  | 187   | 239   | 322  | 25.750  |
| 300        | 12"  | 81  | 218   | 290   | 382  | 36.000  |
| 350        | 14"  | 92  | 242   | 335   | 436  | 46.900  |
| 400        | 16"  | 102 | 270.5 | 387.5 | 495  | 66.850  |
| 450        | 18"  | 114 | 362   | 425   | 540  | 117.000 |
| 500        | 20"  | 127 | 400   | 475   | 595  | 146.500 |
| 600        | 24"  | 154 | 454   | 560   | 705  | 290.000 |
| 650        | 26"  | 165 | 478   | 608   | 755  | 360.000 |
| 700        | 28"  | 165 | 505   | 661.5 | 810  | 390.000 |
| 750        | 30"  | 190 | 542   | 696   | 855  | 475.000 |
| 800        | 32"  | 190 | 580   | 755   | 913  | 524.000 |
| 900        | 36"  | 203 | 640   | 864   | 1032 | 675.000 |

## Handle Operated Spherical Disc Valve



| Valve Size |        | L  | C     | ØD  | H1  | L1  | Weight |
|------------|--------|----|-------|-----|-----|-----|--------|
| MM         | Inch   |    |       |     |     |     |        |
| 40         | 1.1/2" | 42 | 57.00 | 82  | 146 | 265 | 2.25   |
| 50         | 2"     | 45 | 68.50 | 95  | 150 | 265 | 2.60   |
| 65         | 2.1/2" | 48 | 74.50 | 108 | 172 | 265 | 3.55   |
| 80         | 3"     | 48 | 80    | 127 | 181 | 265 | 4.30   |
| 100        | 4"     | 54 | 96    | 159 | 197 | 265 | 6.10   |
| 125        | 5"     | 57 | 117   | 186 | 231 | 265 | 8.60   |
| 150        | 6"     | 57 | 132   | 217 | 245 | 265 | 11.05  |

## Worm Gear Operated Spherical Disc Valve



### Salient Features

- ❖ High Torque Capacities
- ❖ Adjustable Travel Stops
- ❖ Metallic Compact housing
- ❖ Minimum Friction

| Model No. | Torque   | Ratio  | Valve Size   | B   | C   | D   | E   | Wheel Dia | Weight  |
|-----------|----------|--------|--------------|-----|-----|-----|-----|-----------|---------|
| NGB-20    | 250 Nm   | 33: 1  | 1.1/2" To 6" | 110 | 78  | 180 | 181 | 200       | 4.000   |
| NGB-25    | 500 Nm   | 40: 1  | 8" To 12"    | 136 | 98  | 240 | 233 | 250       | 5.000   |
| NGB-30    | 700 Nm   | 40: 1  | 14" To 16"   | 180 | 119 | 285 | 318 | 350       | 7.000   |
| NGB-50    | 1500 Nm  | 48: 1  | 18"          | 202 | 140 | 305 | 409 | 500       | 11.000  |
| NGB-60    | 2200 Nm  | 60: 1  | 20"          | 214 | 180 | 320 | 425 | 500       | 14.000  |
| NGB-70    | 3500 Nm  | 73: 1  | 24" & 26"    | 294 | 240 | 370 | 478 | 600       | 23.000  |
| NGB-80    | 5000 Nm  | 264: 1 | 28" & 30"    | 294 | 240 | 395 | 568 | 500       | 30.000  |
| NGB-90    | 7000 Nm  | 292: 1 | 32" & 36"    | 331 | 208 | 381 | 647 | 600       | 48.000  |
| NGB-100   | 10000 Nm | 300: 1 | 40"          | 413 | 266 | 410 | 716 | 600       | 68.000  |
| NGB-250   | 22500 Nm | 456: 1 | 48"          | 498 | 337 | 479 | 847 | 600       | 110.000 |

## Lehry Instrumentation & Valves Pvt. Ltd.,

"Lehry Chambers" #78 (Old No: 51) Sembudoss Street,  
P.B No.1506, Parrys, Chennai - 600 001.

Phone : 044 25226995/25225185/25226187/42163823/  
42625620/42625621. Fax : 044 25231715

Email : info@lehry.com / Website : www.lehryvalves.com

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