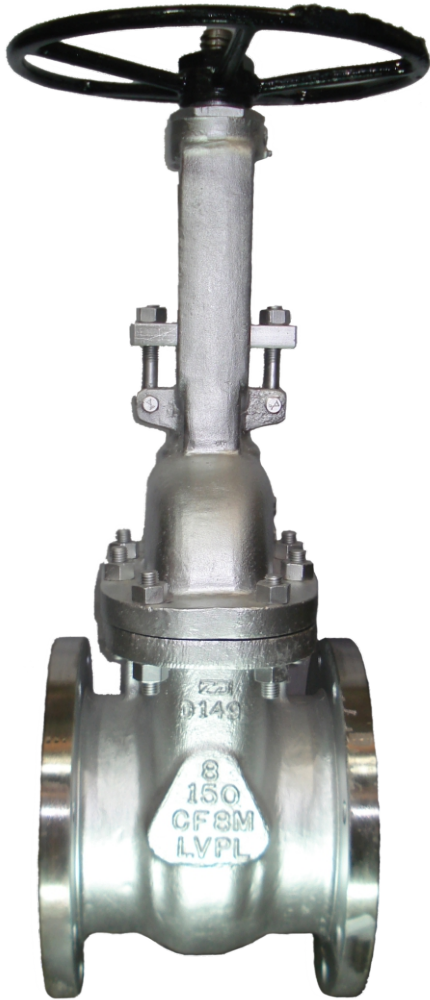


ESTD. 1965

# LIBERTY<sup>®</sup> VALVES



IBR  
CERTIFIED

FIRE SAFE  
APPROVED

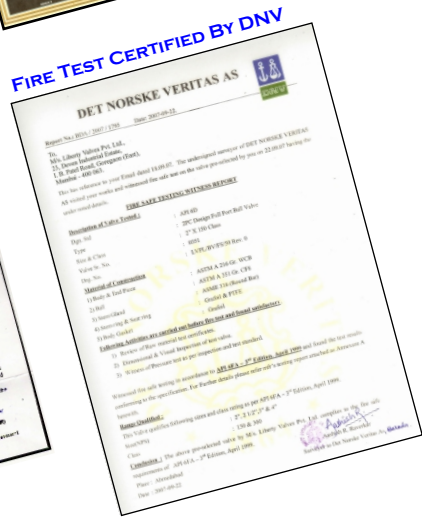


Regd. Office & Works : 15 & 16, Jinaam Industrial Estate, Near Dhumal Nagar, Waliv Road,  
Vasai (East), Dist. Thane - 401 208, INDIA. **Tel.:** +91-250-6453322 (8 Lines)  
**E-mail:** sales@libertyvalves.com | **Website:** www.libertyvalves.com

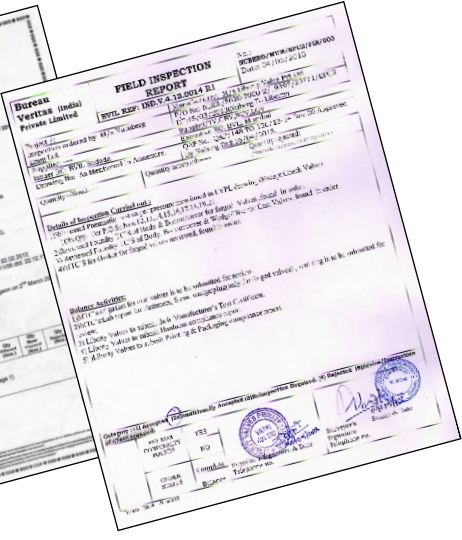
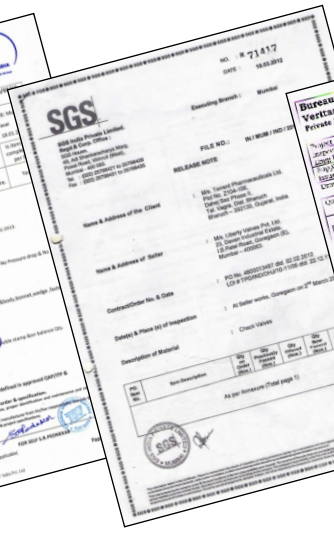
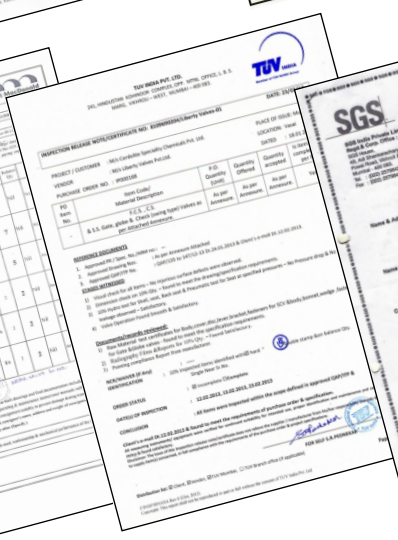
**LIBERTY VALVES PVT. LTD.** Set up in 1965, is one of the leading manufacturers of all types of Industrial Valves like, Ball Valves, Gate Valves, Globe Valves, Check Valves, Butterfly Valves, Piston Valves, Needle Valves, Plug Valves, Strainers, Etc. under the Brand Name **LIBERTY®** & **LVPL**. Liberty has been serving the Oil Industries, Petroleum Industries, Pharmaceuticals, Chemicals & Fertilizer Industries with **Size range from 6mm to 1200mm** and **Pressure Rating upto 2500#** to Indian & International Market.

**LIBERTY VALVES** Quality Management system has been certified to ISO 9001-2008 Liberty Ball Valves are Fire Safe certified by M/s. **DET NORSKE VERITAS** as per **API 6FA** Standards. We recognizes the importance of valve quality for safety and protection of personnel health & property. It is our quality commitment to focus our resources to provide our customers with first class products at a competitive price, designed, manufactured, inspected & tested in accordance with our customers specifications and complying with all International Standards.

CERTIFICATES



| Sl. No. | Item | Remarks | Disposition |
|---------|------|---------|-------------|
| 1       | ...  | ...     | ...         |
| 2       | ...  | ...     | ...         |
| 3       | ...  | ...     | ...         |
| 4       | ...  | ...     | ...         |
| 5       | ...  | ...     | ...         |
| 6       | ...  | ...     | ...         |
| 7       | ...  | ...     | ...         |
| 8       | ...  | ...     | ...         |
| 9       | ...  | ...     | ...         |
| 10      | ...  | ...     | ...         |



# ENGINEERING DATA

## HYDROSTATIC TEST PRESSURE (API 598/BS 6755 PART-1)

| HYDROSTATIC PRESSURE Kg/cm <sup>2</sup> (Psig) |            |            |            |                  |
|--|------------|------------|------------|------------------|
| ASME CLASS                                     | BODY       | BACK SEAT* | SEAT       | AIR TEST (SEAT)* |
| 150  | 32 (455)   | 22 (315)   | 22 (315)   | 7 (100)          |
| 300  | 79 (1125)  | 57 (815)   | 57 (815)   | 7 (100)          |
| 600  | 156 (2225) | 115 (1630) | 115 (1630) | 7 (100)          |
| 800  | 208 (3000) | 141 (2000) | 141 (2000) | 7 (100)          |
| 900  | 236 (3350) | 172 (2445) | 172 (2445) | 7 (100)          |
| 1500   | 392 (5575) | 287 (4080) | 287 (4080) | 7 (100)          |
| 2500   | 652 (9275) | 477 (6790) | 477 (6790) | 7 (100)          |

\* FOR CHECK VALVE BACK SEAT & AIR TEST IS NOT APPLICABLE

### TRIM MATERIAL :-

| TRIM NO. | STEM                  | SEAT     | WEDGE / DISC |
|----------|-----------------------|----------|--------------|
| 1        | 13% Cr                | 13% Cr   | 13% Cr       |
| 8        | 13% Cr                | STELLITE | 13% Cr       |
| 5        | 13% Cr                | STELLITE | STELLITE     |
| 2        | SS304                 | SS304    | SS304        |
| -        | SS304                 | STELLITE | SS304        |
| 15       | SS304                 | STELLITE | STELLITE     |
| 10       | SS316                 | SS316    | SS316        |
| 12       | SS316                 | STELLITE | SS316        |
| 16       | SS316                 | STELLITE | STELLITE     |
| 9        | NI-Cu ALLOY (MONEL)   | MONEL    | MONEL        |
| 13       | ASTM B 473 (ALLOY-20) | ALLOY-20 | ALLOY-20     |
| 20       | BRONZE                | BRONZE   | BRONZE       |

### BODY MATERIAL :-

| MATERIAL        | CLASSIFICATION STEEL                      | ASTM REF.      | RECOMMENDED TEMPERATURE LIMITS |              | APPLICATION  |
|-----------------|---|----------------|--------------------------------|--------------|--|
|                 |   |                | °C                             | °F           |  |
| WCB / A105      | Carbon                                    | A 216 Gr. WCB  | -25 TO 425                     | -20 TO 800   | Steam, Water Oil, Oil Vapour, Gas & General Services |
| LCB / LF2       | Carbon                                    | A 352 Gr. LCB  | -46 TO 350                     | -50 TO 650   | Low Temperature                                      |
| LCC             | Carbon                                    | A 352 Gr. LCC  | -46 TO 350                     | -50 TO 650   | Low Temperature                                      |
| WC6 / F11       | Chromium Moly 1.25% Cr, 0.5% Mo           | A 217 Gr. WC6  | -29 TO 590                     | -20 TO 1100  | Steam, Water Oil, Oil Vapour, Gas & General Services |
| WC9 / F22       | Chromium Moly 2.25% Cr, 1% Mo             | A 217 Gr. WC9  | -29 TO 590                     | -20 TO 1100  | Steam, Water Oil, Oil Vapour, Gas & General Services |
| C5              | Chromium Moly 5% Cr, 0.5% Mo              | A 217 Gr. C5   | -29 TO 650                     | -20 TO 1200  | Corrosive / Errosive Oil Refinery Services           |
| CF8M / SS316    | Stainless 18% Cr, 9% Ni, 2% Mo            | A 351 Gr. CF8M | -196 TO 815                    | -320 TO 1500 | High & Low Temperature Corrosive Resistance          |
| CF8 / SS304     | Stainless 18% Cr, 8% Ni                   | A 351 Gr. CF8  | -196 TO 815                    | -320 TO 1500 | High & Low Temperature Corrosive Resistance          |
| CF3M / SS316L   | Low Carbon Stainless 18% Cr, 9% Ni, 2% Mo | A 351 Gr. CF3M | -196 TO 815                    | -320 TO 1500 | Cryogenic Service is also available on Request       |
| CF3 / SS304L    | Low Carbon Stainless 18% Cr, 8% Ni        | A 351 Gr. CF3  | -196 TO 815                    | -320 TO 1500 | Cryogenic Service is also available on Request       |
| CN7M / ALLOY 20 | Stainless 19% Cr, 29% Ni                  | A 351 Gr. CN7M | -196 TO 425                    | -320 TO 800  | Corrosive Resistance                                 |

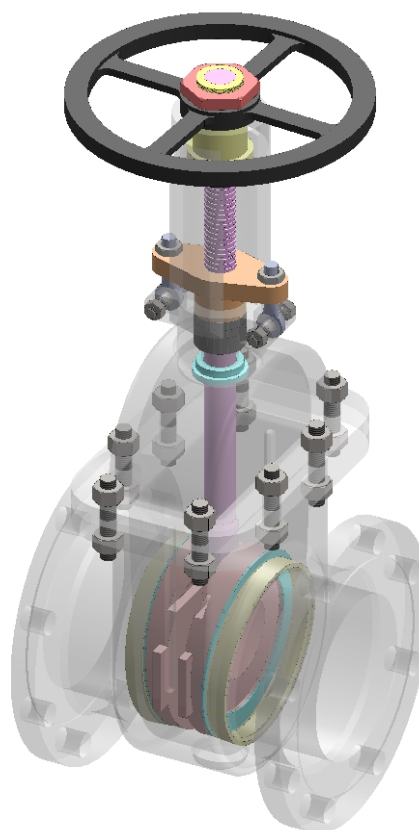
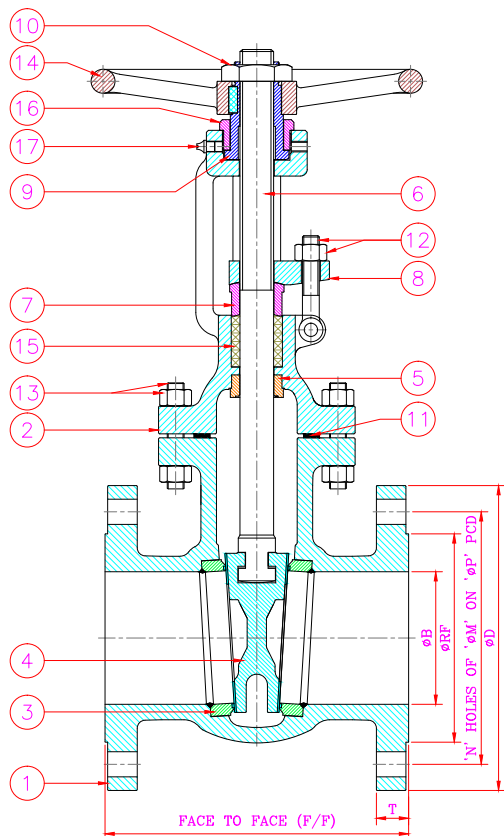
### STANDARDS :-

| VALVE TYPE                 | DESIGN STANDARD                    |                               | COMPLIANCE                  | STANDARD  |
|----------------------------|------------------------------------|-------------------------------|-----------------------------|---|
|                            | SMALL BORE (1/2" - 1.1/2")         | LARGE BORE (2" - 24")         |                             |   |
| BALL VALVE                 | BS 5351 / BS EN ISO 17292 / API 6D |                               | PRESSURE TEMPERATURE RATING | ASME B 16.34  |
| GATE VALVE                 | API 602 / ISO 15761                | API 600 / BS 1414 (ABOVE 24") | FACE TO FACE                | ASME B 16.10  |
| GLOBE VALVE                | BS 5352 / ISO 15761                | BS 1873                       | FLANGED END                 | ASME B 16.5 / BS-10 (TAB-D / TAB-E / TAB-F) / DIN (ND-10 / ND-16) |
| (LIFT / SWING) CHECK VALVE | ISO 15761 (LIFT TYPE)              | BS 1868 (LIFT / SWING)        | SOCKET END                  | ASME B 16.11  |
| WAFFER CHECK VALVE         | API 6D                             |                               | SCREWED END                 | ASME B 1.20.1   |
| NON SLAM CHECK VALVE       | DIN EN 558-2                       |                               | BUTT WELD END               | ASME B 16.25  |
| BUTTERFLY VALVE            | API 609 CAT-A (CENTER DISC)        |                               | NACE                        | NACE MR 01 75   |
| BUTTERFLY VALVE            | API 609 CAT-B (OFFSET DISC)        |                               | INSPECTION & TESTING        | API 598 / API 600 / BS 12266 PT-1 / BS 6755 PT-1 / API 609        |
| PLUG VALVE                 | API 599 / API 6D                   |                               | FIRE SAFE                   | API 6FA   |

IMPORTANT DATA



# GATE VALVE



## MATERIAL SPECIFICATION :-

| SR. NO. | PART NAME                        | MATERIAL   | QTY.    |
|---------|----------------------------------|--|---------|
| 1       | BODY                             | WCB / LCB / WC6 / WC9/ C5 / C12 / CF8 / CF8M / CF3 / CF3M / CN7M             | 1 NO.   |
| 2       | BONNET                           | WCB / LCB / WC6 / WC9/ C5 / C12 / CF8 / CF8M / CF3 / CF3M / CN7M             | 1 NO.   |
| 3       | SEAT RING (INTEGRAL / RENEWABLE) | WCB / CF8 / CF8M / CF3 / CF3M / CN7M / INCONEL (13%Cr FACING OR HF)          | 2 NO.   |
| 4       | WEDGE (SOLID / FLEXIBLE)         | WCB / CF8 / CF8M / CF3 / CF3M / CN7M / INCONEL (13%Cr FACING OR HF)          | 1 NO.   |
| 5       | BACKSEAT                         | AISI 410 / AISI 304 / AISI 304L / AISI 316 / AISI 316L / ALLOY-20 / INCONEL  | 1 NO.   |
| 6       | STEM                             | AISI 410 / AISI 304 / AISI 304L / AISI 316 / AISI 316L / ALLOY-20 / INCONEL  | 1 NO.   |
| 7       | GLAND BUSH                       | AISI 410 / AISI 304 / AISI 304L / AISI 316 / AISI 316L                       | 1 NO.   |
| 8       | GLAND FLANGE                     | CARBON STEEL / AISI 304 / AISI 304L / AISI 316 / AISI 316L                   | 1 NO.   |
| 9       | YOKE SLEEVE                      | AISI 4140  | 1 NO.   |
| 10      | HANDWHEEL NUT                    | CARBON STEEL / STAINLESS STEEL   | 1 NO.   |
| 11      | GASKET                           | SS304L / SS316L SPIRAL WOUND WITH GRAPHITE FILLER                            | 1 NO.   |
| 12      | EYE-BOLT & NUT                   | CARBON STEEL / STAINLESS STEEL   | 2 NO.   |
| 13      | STUD & NUT                       | A 193 GR. B7 / A 193 GR. B8/B16 / A 320 GR. L7 / A194 GR. 8/4 / A 194 GR. 2H | AS REQ. |
| 14      | HAND WHEEL                       | S.G. IRON / M.I. / FAB. STEEL.   | 1 NO.   |
| 15      | GLAND PACKING                    | GRAPHOIL   | AS REQ. |
| 16      | YOKE BUSH                        | AISI 410 / AISI 304 / AISI 304L / AISI 316 / AISI 316L                       | 1 NO.   |
| 17      | GREASE NIPPLE                    | CADIUM PLATED  | 1 NO.   |

## DIMENSIONS :-

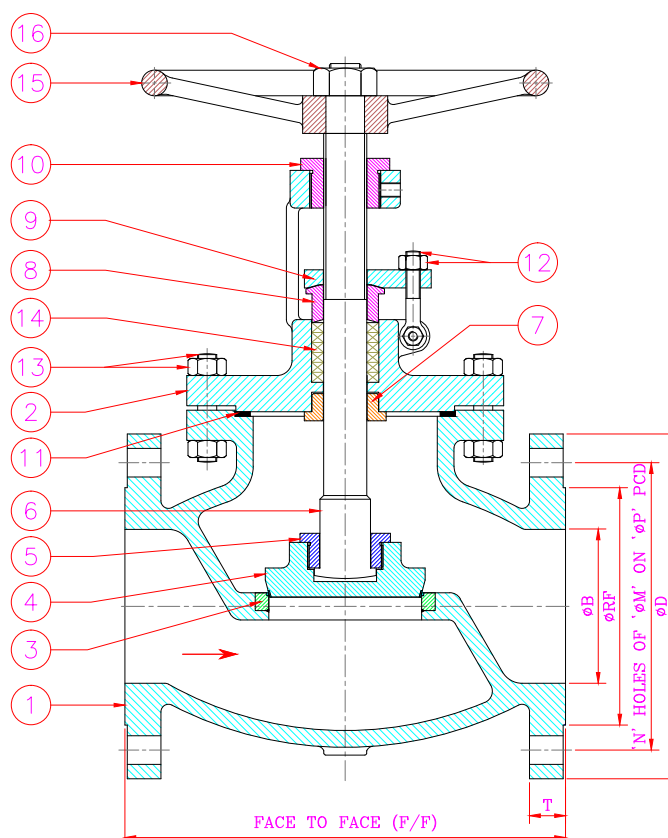
ALL THE DIMENSIONS ARE IN MM. UNLESS OTHERWISE STATED.

| VALVE SIZE |        | F/F (ASME B16.10) |      | ASME B 16.5 |     | FLANGE AS PER ASME B 16.5, CLASS 150# |      |       |      |    | FLANGE AS PER ASME B 16.5, CLASS 300# |      |       |      |    |
|------------|--------|-------------------|------|-------------|-----|---------------------------------------|------|-------|------|----|---------------------------------------|------|-------|------|----|
| NB         | INCH   | 150#              | 300# | ØB          | ØRF | ØD                                    | T    | ØP    | ØM   | N  | ØD                                    | T    | ØP    | ØM   | N  |
| 40         | 1.1/2" | 165               | 190  | 38          | 73  | 127.0                                 | 14.2 | 98.4  | 16.0 | 4  | 155.6                                 | 20.6 | 114.3 | 22.3 | 4  |
| 50         | 2"     | 178               | 216  | 50          | 92  | 152.4                                 | 15.8 | 120.7 | 19.0 | 4  | 165.1                                 | 22.3 | 127.0 | 19.1 | 8  |
| 65         | 2.1/2" | 191               | 241  | 65          | 105 | 177.8                                 | 17.4 | 139.7 | 19.0 | 4  | 190.5                                 | 25.4 | 149.2 | 22.3 | 8  |
| 80         | 3"     | 203               | 283  | 75          | 127 | 190.5                                 | 19.0 | 152.4 | 19.0 | 4  | 209.5                                 | 28.5 | 168.1 | 22.3 | 8  |
| 100        | 4"     | 229               | 305  | 100         | 157 | 228.6                                 | 23.8 | 190.5 | 19.0 | 8  | 254.0                                 | 31.8 | 200.1 | 22.3 | 8  |
| 125        | 5"     | 254               | 381  | 125         | 186 | 254.0                                 | 23.8 | 215.9 | 22.3 | 8  | 279.4                                 | 35.0 | 234.9 | 22.3 | 8  |
| 150        | 6"     | 267               | 403  | 150         | 216 | 279.4                                 | 25.4 | 241.3 | 22.3 | 8  | 317.5                                 | 36.5 | 269.7 | 22.3 | 12 |
| 200        | 8"     | 292               | 419  | 200         | 270 | 342.9                                 | 28.5 | 298.5 | 22.3 | 8  | 381.0                                 | 41.1 | 330.2 | 25.4 | 12 |
| 250        | 10"    | 330               | 457  | 250         | 324 | 406.4                                 | 30.2 | 362.0 | 25.4 | 12 | 444.5                                 | 47.7 | 387.3 | 28.5 | 16 |
| 300        | 12"    | 356               | 502  | 300         | 381 | 482.6                                 | 31.8 | 431.8 | 25.4 | 12 | 520.7                                 | 50.8 | 450.8 | 31.8 | 16 |
| 350        | 14"    | 381               | 762  | 350         | 413 | 533.4                                 | 35.1 | 476.2 | 28.4 | 12 | 584.2                                 | 54.0 | 514.3 | 31.8 | 20 |
| 400        | 16"    | 406               | 838  | 400         | 470 | 596.9                                 | 36.5 | 539.7 | 28.4 | 16 | 647.7                                 | 57.2 | 571.5 | 34.9 | 20 |
| 450        | 18"    | 432               | 914  | 450         | 533 | 635.0                                 | 39.6 | 577.8 | 31.7 | 16 | 711.0                                 | 60.3 | 628.6 | 34.9 | 24 |
| 500        | 20"    | 457               | 991  | 500         | 584 | 699.0                                 | 42.9 | 635.0 | 31.7 | 20 | 745.0                                 | 63.5 | 685.8 | 34.9 | 24 |
| 600        | 24"    | 508               | 1143 | 600         | 692 | 813.0                                 | 47.7 | 749.3 | 35.0 | 20 | 914.0                                 | 69.8 | 812.8 | 41.3 | 24 |

### NOTE:-

1. RAISED FACE HEIGHT IS 2mm
2. WE ALSO OFFER RTJ, BUTT WELD END, ETC & 600#, 1500# & 2500# ON REQUEST

# GLOBE VALVE



## MATERIAL SPECIFICATION :-

| SR. NO. | PART NAME                        | MATERIAL   | QTY.    |
|---------|----------------------------------|--|---------|
| 1       | BODY                             | WCB / LCB / WC6 / WC9 / C5 / C12 / CF8 / CF8M / CF3 / CF3M / CN7M            | 1 NO.   |
| 2       | BONNET                           | WCB / LCB / WC6 / WC9 / C5 / C12 / CF8 / CF8M / CF3 / CF3M / CN7M            | 1 NO.   |
| 3       | SEAT RING (INTEGRAL / RENEWABLE) | WCB / CF8 / CF8M / CF3 / CF3M / CN7M / INCONEL (13%Cr FACING OR HF)          | 1 NO.   |
| 4       | DISC                             | WCB / CF8 / CF8M / CF3 / CF3M / CN7M / INCONEL (13%Cr FACING OR HF)          | 1 NO.   |
| 5       | DISC NUT                         | AISI 410 / AISI 304 / AISI 304L / AISI 316 / AISI 316L / ALLOY-20 / INCONEL  | 1 NO.   |
| 6       | STEM                             | AISI 410 / AISI 304 / AISI 304L / AISI 316 / AISI 316L / ALLOY-20 / INCONEL  | 1 NO.   |
| 7       | BACK SEAT                        | AISI 410 / AISI 304 / AISI 304L / AISI 316 / AISI 316L / ALLOY-20 / INCONEL  | 1 NO.   |
| 8       | GLAND BUSH                       | AISI 410 / AISI 304 / AISI 304L / AISI 316 / AISI 316L                       | 1 NO.   |
| 9       | GLAND FLANGE                     | CARBON STEEL / AISI 304 / AISI 304L / AISI 316 / AISI 316L                   | 1 NO.   |
| 10      | YOKE NUT                         | AISI 4140  | 1 NO.   |
| 11      | GASKET                           | SS304L / SS316L SPIRAL WOUND WITH GRAPHITE FILLER                            | 1 NO.   |
| 12      | EYE-BOLT & NUT                   | CARBON STEEL / STAINLESS STEEL   | 2 NO.   |
| 13      | STUD & NUT                       | A 193 GR. B7 / A 193 GR. B8/B16 / A 320 GR. L7 / A194 GR. 8/4 / A 194 GR. 2H | AS REQ. |
| 14      | GLAND PACKING                    | GRAPHOIL   | AS REQ. |
| 15      | HANDWHEEL                        | S.G. IRON / M.I. / FAB. STEEL.   | 1 NO.   |
| 16      | HANDWHEEL NUT                    | CARBON STEEL / STAINLESS STEEL   | 1 NO.   |

## DIMENSIONS :-

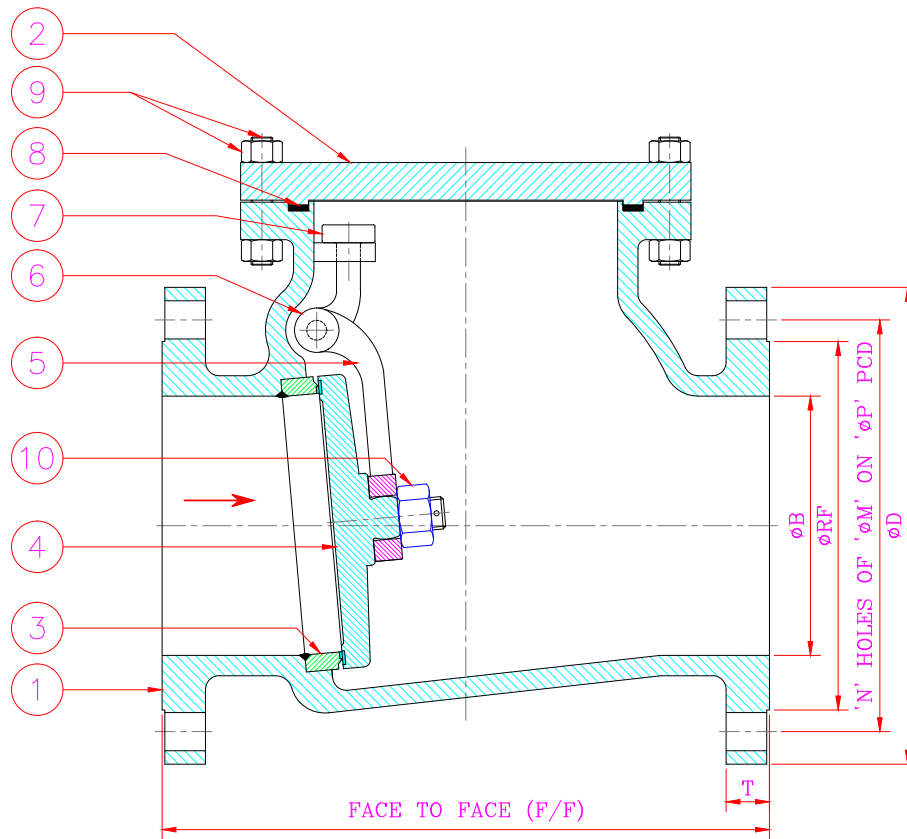
ALL THE DIMENSIONS ARE IN MM. UNLESS OTHERWISE STATED.

| VALVE SIZE |        | F/F (ASME B16.10) |      | ASME B 16.5 |     | FLANGE AS PER ASME B 16.5, CLASS 150# |      |       |      |    | FLANGE AS PER ASME B 16.5, CLASS 300# |      |       |      |    |
|------------|--------|-------------------|------|-------------|-----|---------------------------------------|------|-------|------|----|---------------------------------------|------|-------|------|----|
| NB         | INCH   | 150#              | 300# | øB          | øRF | øD                                    | T    | øP    | øM   | N  | øD                                    | T    | øP    | øM   | N  |
| 25         | 1"     | 127               | 203  | 25          | 51  | 108                                   | 11.6 | 79.4  | 16.0 | 4  | 123.8                                 | 17.4 | 88.9  | 19.1 | 4  |
| 40         | 1.1/2" | 165               | 229  | 38          | 73  | 127.0                                 | 14.2 | 98.4  | 16.0 | 4  | 155.6                                 | 20.6 | 114.3 | 22.3 | 4  |
| 50         | 2"     | 203               | 267  | 50          | 92  | 152.4                                 | 15.8 | 120.7 | 19.0 | 4  | 165.1                                 | 22.3 | 127.0 | 19.1 | 8  |
| 65         | 2.1/2" | 216               | 292  | 65          | 105 | 177.8                                 | 17.4 | 139.7 | 19.0 | 4  | 190.5                                 | 25.4 | 149.2 | 22.3 | 8  |
| 80         | 3"     | 241               | 318  | 75          | 127 | 190.5                                 | 19.0 | 152.4 | 19.0 | 4  | 209.5                                 | 28.5 | 168.1 | 22.3 | 8  |
| 100        | 4"     | 292               | 356  | 100         | 157 | 228.6                                 | 23.8 | 190.5 | 19.0 | 8  | 254.0                                 | 31.8 | 200.1 | 22.3 | 8  |
| 125        | 5"     | 356               | 400  | 125         | 186 | 254.0                                 | 23.8 | 215.9 | 22.3 | 8  | 279.4                                 | 35.0 | 234.9 | 22.3 | 8  |
| 150        | 6"     | 406               | 445  | 150         | 216 | 279.4                                 | 25.4 | 241.3 | 22.3 | 8  | 317.5                                 | 36.5 | 269.7 | 22.3 | 12 |
| 200        | 8"     | 495               | 559  | 200         | 270 | 342.9                                 | 28.5 | 298.5 | 22.3 | 8  | 381.0                                 | 41.1 | 330.2 | 25.4 | 12 |
| 250        | 10"    | 622               | 622  | 250         | 324 | 406.4                                 | 30.2 | 362.0 | 25.4 | 12 | 444.5                                 | 47.7 | 387.3 | 28.5 | 16 |
| 300        | 12"    | 699               | 711  | 300         | 381 | 482.6                                 | 31.8 | 431.8 | 25.4 | 12 | 520.7                                 | 50.8 | 450.8 | 31.8 | 16 |
| 350        | 14"    | 787               | 839  | 350         | 413 | 533.4                                 | 35.1 | 476.2 | 28.4 | 12 | 584.2                                 | 54.0 | 514.3 | 31.8 | 20 |
| 400        | 16"    | 914               | 864  | 400         | 470 | 596.9                                 | 36.5 | 539.7 | 28.4 | 16 | 647.7                                 | 57.2 | 571.5 | 34.9 | 20 |
| 450        | 18"    | 978               | 978  | 450         | 533 | 635.0                                 | 39.6 | 577.8 | 31.7 | 16 | 711.0                                 | 60.3 | 628.6 | 34.9 | 24 |
| 500        | 20"    | 978               | 1016 | 500         | 584 | 699.0                                 | 42.9 | 635.0 | 31.7 | 20 | 745.0                                 | 63.5 | 685.8 | 34.9 | 24 |
| 600        | 24"    | 1295              | 1346 | 600         | 692 | 813.0                                 | 47.7 | 749.3 | 35.0 | 20 | 914.0                                 | 69.8 | 812.8 | 41.3 | 24 |

### NOTE:-

1. RAISED FACE HEIGHT IS 2mm
2. WE ALSO OFFER RTJ, BUTT WELD END, ETC & 600#, 1500# & 2500# ON REQUEST

# CHECK VALVE



## MATERIAL SPECIFICATION :-

| SR. NO. | PART NAME                        | MATERIAL   | QTY.    |
|---------|----------------------------------|--|---------|
| 1       | BODY                             | WCB / LCB / WC6 / WC9/ C5 / C12 / CF8 / CF8M / CF3 / CF3M / CN7M             | 1 NO.   |
| 2       | COVER                            | WCB / LCB / WC6 / WC9/ C5 / C12 / CF8 / CF8M / CF3 / CF3M / CN7M             | 1 NO.   |
| 3       | SEAT RING (INTEGRAL / RENEWABLE) | WCB / CF8 / CF8M / CF3 / CF3M / CN7M / INCONEL (13%Cr FACING OR HF)          | 2 NO.   |
| 4       | DISC                             | WCB / CF8 / CF8M / CF3 / CF3M / CN7M / INCONEL (13%Cr FACING OR HF)          | 1 NO.   |
| 5       | HINGE                            | AISI 410 / AISI 304 / AISI 304L / AISI 316 / AISI 316L / ALLOY-20 / INCONEL  | 1 NO.   |
| 6       | HINGE PIN                        | AISI 410 / AISI 304 / AISI 304L / AISI 316 / AISI 316L / ALLOY-20 / INCONEL  | 1 NO.   |
| 7       | BRACKET                          | AISI 410 / AISI 304 / AISI 304L / AISI 316 / AISI 316L / ALLOY-20 / INCONEL  | 1 NO.   |
| 8       | GASKET                           | SS304L / SS316L SPIRAL WOUND WITH GRAPHITE FILLER                            | 1 NO.   |
| 9       | STUD & NUT                       | A 193 GR. B7 / A 193 GR. B8/B16 / A 320 GR. L7 / A194 GR. 8/4 / A 194 GR. 2H | AS REQ. |
| 10      | DISC NUT                         | AISI 410 / AISI 304 / AISI 304L / AISI 316 / AISI 316L / ALLOY-20 / INCONEL  | 1 NO.   |

## DIMENSIONS :-

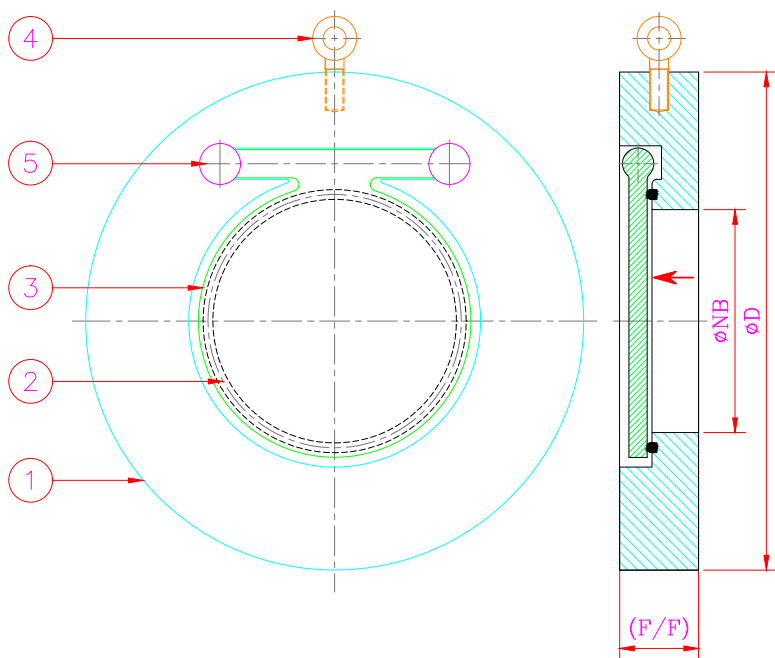
ALL THE DIMENSIONS ARE IN MM. UNLESS OTHERWISE STATED.

| VALVE SIZE |        | F/F (ASME B16.10) |      | ASME B 16.5 |     | FLANGE AS PER ASME B 16.5, CLASS 150# |      |       |      | FLANGE AS PER ASME B 16.5, CLASS 300# |       |      |       |      |    |
|------------|--------|-------------------|------|-------------|-----|---------------------------------------|------|-------|------|---------------------------------------|-------|------|-------|------|----|
| NB         | INCH   | 150#              | 300# | ØB          | ØRF | ØD                                    | T    | ØP    | ØM   | N                                     | ØD    | T    | ØP    | ØM   | N  |
| 40         | 1.1/2" | 165               | 241  | 38          | 73  | 127.0                                 | 14.2 | 98.4  | 16.0 | 4                                     | 155.6 | 20.6 | 114.3 | 22.3 | 4  |
| 50         | 2"     | 203               | 267  | 50          | 92  | 152.4                                 | 15.8 | 120.7 | 19.0 | 4                                     | 165.1 | 22.3 | 127.0 | 19.1 | 8  |
| 65         | 2.1/2" | 216               | 292  | 65          | 105 | 177.8                                 | 17.4 | 139.7 | 19.0 | 4                                     | 190.5 | 25.4 | 149.2 | 22.3 | 8  |
| 80         | 3"     | 241               | 318  | 75          | 127 | 190.5                                 | 19.0 | 152.4 | 19.0 | 4                                     | 209.5 | 28.5 | 168.1 | 22.3 | 8  |
| 100        | 4"     | 292               | 356  | 100         | 157 | 228.6                                 | 23.8 | 190.5 | 19.0 | 8                                     | 254.0 | 31.8 | 200.1 | 22.3 | 8  |
| 125        | 5"     | 330               | 400  | 125         | 186 | 254.0                                 | 23.8 | 215.9 | 22.3 | 8                                     | 279.4 | 35.0 | 234.9 | 22.3 | 8  |
| 150        | 6"     | 356               | 445  | 150         | 216 | 279.4                                 | 25.4 | 241.3 | 22.3 | 8                                     | 317.5 | 36.5 | 269.7 | 22.3 | 12 |
| 200        | 8"     | 495               | 533  | 200         | 270 | 342.9                                 | 28.5 | 298.5 | 22.3 | 8                                     | 381.0 | 41.1 | 330.2 | 25.4 | 12 |
| 250        | 10"    | 622               | 622  | 250         | 324 | 406.4                                 | 30.2 | 362.0 | 25.4 | 12                                    | 444.5 | 47.7 | 387.3 | 28.5 | 16 |
| 300        | 12"    | 699               | 711  | 300         | 381 | 482.6                                 | 31.8 | 431.8 | 25.4 | 12                                    | 520.7 | 50.8 | 450.8 | 31.8 | 16 |
| 350        | 14"    | 787               | 838  | 350         | 413 | 533.4                                 | 35.1 | 476.2 | 28.4 | 12                                    | 584.2 | 54.0 | 514.3 | 31.8 | 20 |
| 400        | 16"    | 864               | 864  | 400         | 470 | 596.9                                 | 36.5 | 539.7 | 28.4 | 16                                    | 647.7 | 57.2 | 571.5 | 34.9 | 20 |
| 450        | 18"    | 978               | 978  | 450         | 533 | 635.0                                 | 39.6 | 577.8 | 31.7 | 16                                    | 711.0 | 60.3 | 628.6 | 34.9 | 24 |
| 500        | 20"    | 978               | 1016 | 500         | 584 | 699.0                                 | 42.9 | 635.0 | 31.7 | 20                                    | 745.0 | 63.5 | 685.8 | 34.9 | 24 |
| 600        | 24"    | 1295              | 1346 | 600         | 692 | 813.0                                 | 47.7 | 749.3 | 35.0 | 20                                    | 914.0 | 69.8 | 812.8 | 41.3 | 24 |

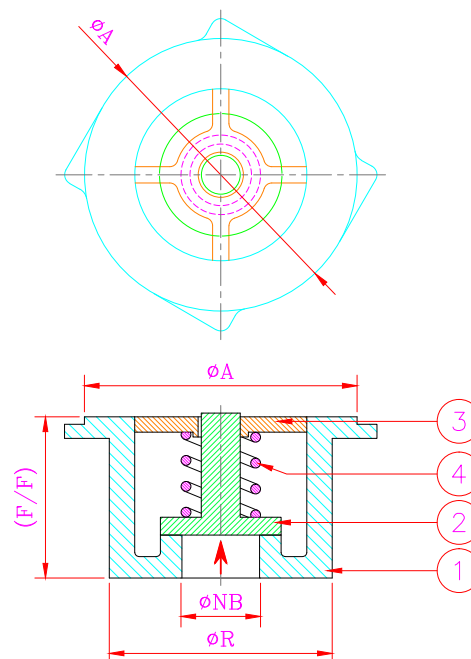
### NOTE:-

1. RAISED FACE HEIGHT IS 2mm
2. WE ALSO OFFER RTJ, BUTT WELD END, ETC & 600#, 1500# & 2500# ON REQUEST

# WAFER CHECK VALVE



**SWING TYPE WAFER CHECK**



**NON SLAM WAFER CHECK**

## MATERIAL SPECIFICATION (SWING TYPE) :-

| SR. NO. | PART NAME    | MATERIAL   | QTY.  |
|---------|--------------|--|-------|
| 1       | BODY         | WCB / SG IRON / LCB / WC6 / WC9/ C5 / C12 / CF8 / CF8M / CF3 / CF3M / CN7M | 1 NO. |
| 2       | DISC         | WCB / SG IRON / LCB / WC6 / WC9/ C5 / C12 / CF8 / CF8M / CF3 / CF3M / CN7M | 1 NO. |
| 3       | SEAT RING    | PTFE / VITON / EPDM / NITRILE / METAL SEATED                               | 1 NO. |
| 4       | LIFTING BOLT | CARBON STEEL / STAINLESS STEEL   | 1 NO. |
| 5       | BUTTON       | AISI 304 / AISI 304L / AISI 316 / AISI 316L / ALLOY-20                     | 2 NO. |

## MATERIAL SPECIFICATION (NON SLAM TYPE) :-

| SR. NO. | PART NAME   | MATERIAL                       | QTY.  |
|---------|-------------|--------------------------------|-------|
| 1       | BODY        | CF8 / CF8M / CF3 / CF3M / CN7M | 1 NO. |
| 2       | DISC        | CF8 / CF8M / CF3 / CF3M / CN7M | 1 NO. |
| 3       | STAR (YOKE) | CF8 / CF8M / CF3 / CF3M / CN7M | 1 NO. |
| 4       | SPRING      | AISI 316 / AISI 316L           | 1 NO. |

## DIMENSIONS :-

| VALVE SIZE |        | SWING TYPE   |          |          |       |           |           |          |
|------------|--------|--------------|----------|----------|-------|-----------|-----------|----------|
| NB         | INCH   | ASME B 16.10 | $\phi B$ | $\phi D$ |       |           |           |          |
|            |        | F/F          |          | PN 10    | PN 16 | BS-10 T/D | BS-10 T/E | ASA 150# |
| 40         | 1.1/2" | 19.0         | 22       | 93       | 93    | 86        | 86        | 86       |
| 50         | 2"     | 19.0         | 30       | 108      | 108   | 97        | 97        | 104      |
| 65         | 2.1/2" | 19.0         | 40       | 128      | 128   | 110       | 110       | 123      |
| 80         | 3"     | 19.0         | 52       | 143      | 143   | 129       | 129       | 136      |
| 100        | 4"     | 19.0         | 71       | 163      | 163   | 161       | 161       | 174      |
| 125        | 5"     | 19.0         | 93       | 193      | 193   | 193       | 193       | 196      |
| 150        | 6"     | 19.0         | 114      | 219      | 219   | 218       | 215       | 221      |
| 200        | 8"     | 28.5         | 157      | 274      | 274   | 274       | 272       | 278      |
| 250        | 10"    | 28.5         | 195      | 329      | 329   | 335       | 335       | 339      |
| 300        | 12"    | 38.0         | 230      | 379      | 385   | 385       | 383       | 409      |
| 350        | 14"    | 44.5         | 270      | 438      | 444   | 446       | 446       | 449      |
| 400        | 16"    | 51.0         | 310      | 489      | 496   | 496       | 496       | 512      |
| 450        | 18"    | 60.5         | 360      | 538      | 555   | 559       | 559       | 545      |
| 500        | 20"    | 63.5         | 406      | 593      | 616   | 616       | 616       | 602      |
| 600        | 24"    | 70.0         | 490      | 695      | 733   | 727       | 727       | 714      |

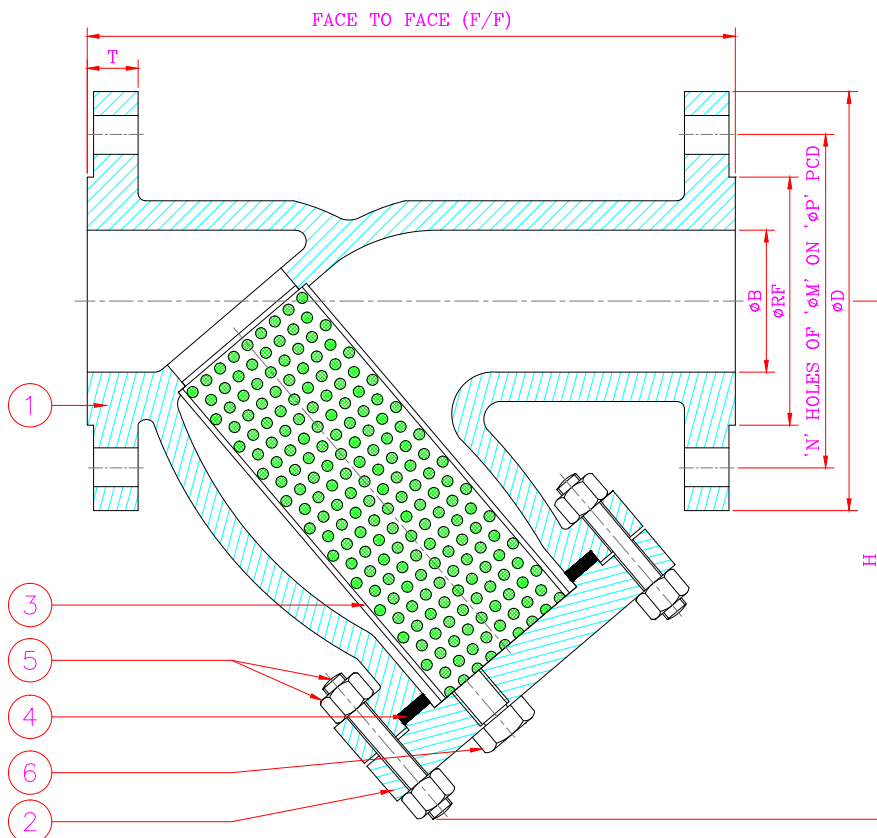
ALL THE DIMENSIONS ARE IN MM. UNLESS OTHERWISE STATED.

| VALVE SIZE |        | NON SLAM      |           |          |          |
|------------|--------|---------------|-----------|----------|----------|
| NB         | INCH   | PN 25 / PN 40 |           |          |          |
|            |        | F/F           | $\phi NB$ | $\phi R$ | $\phi A$ |
| 15         | 1/2"   | 17.0          | 15        | 36.0     | 42.0     |
| 20         | 3/4"   | 20.0          | 19        | 45.0     | 52.0     |
| 25         | 1"     | 23.0          | 25        | 55.0     | 63.0     |
| 40         | 1.1/2" | 32.0          | 40        | 77.0     | 85.0     |
| 50         | 2"     | 40.0          | 50        | 92.0     | 95.0     |
| 65         | 2.1/2" | 46.0          | 65        | 105.0    | 115.0    |
| 80         | 3"     | 50.0          | 80        | 126.0    | 133.0    |
| 100        | 4"     | 60.0          | 100       | 154.0    | 154.0    |
| 125        | 5"     | 85.0          | 125       | 186.0    | 186.0    |
| 150        | 6"     | 105.0         | 150       | 216.0    | 222.0    |
| 200        | 8"     | 140.0         | 200       | 270.0    | 275.0    |

NOTE:- METAL TO METAL SEATED WITH ZERO LEAKAGE

CHECK VALVE

# STRAINER (Y-TYPE)



## MATERIAL SPECIFICATION :-

| SR. NO. | PART NAME  | MATERIAL   | QTY.    |
|---------|------------|--|---------|
| 1       | BODY       | WCB / LCB / WC6 / WC9/ C5 / C12 / CF8 / CF8M / CF3 / CF3M                    | 1 NO.   |
| 2       | COVER      | WCB / LCB / WC6 / WC9/ C5 / C12 / CF8 / CF8M / CF3 / CF3M                    | 1 NO.   |
| 3       | SCREEN     | SS304 / SS304L / SS316 /SS316L (40 MESH / 60 MESH / 80 MESH / 100 MESH)      | 1 NO.   |
| 4       | GASKET     | PTFE / SPIRAL WOUND + GRAPHITE FILLER (SS304 / SS304L / SS316 / SS316L)      | 1 NO.   |
| 5       | STUD / NUT | A 193 GR. B7 / A 193 GR. B8/B16 / A 320 GR. L7 / A194 GR. 8/4 / A 194 GR. 2H | AS REQ. |
| 6       | DRAIN PLUG | CARBON STEEL / STAINLESS STEEL   | 1 NO.   |

## DIMENSIONS :-

ALL THE DIMENSIONS ARE IN MM. UNLESS OTHERWISE STATED.

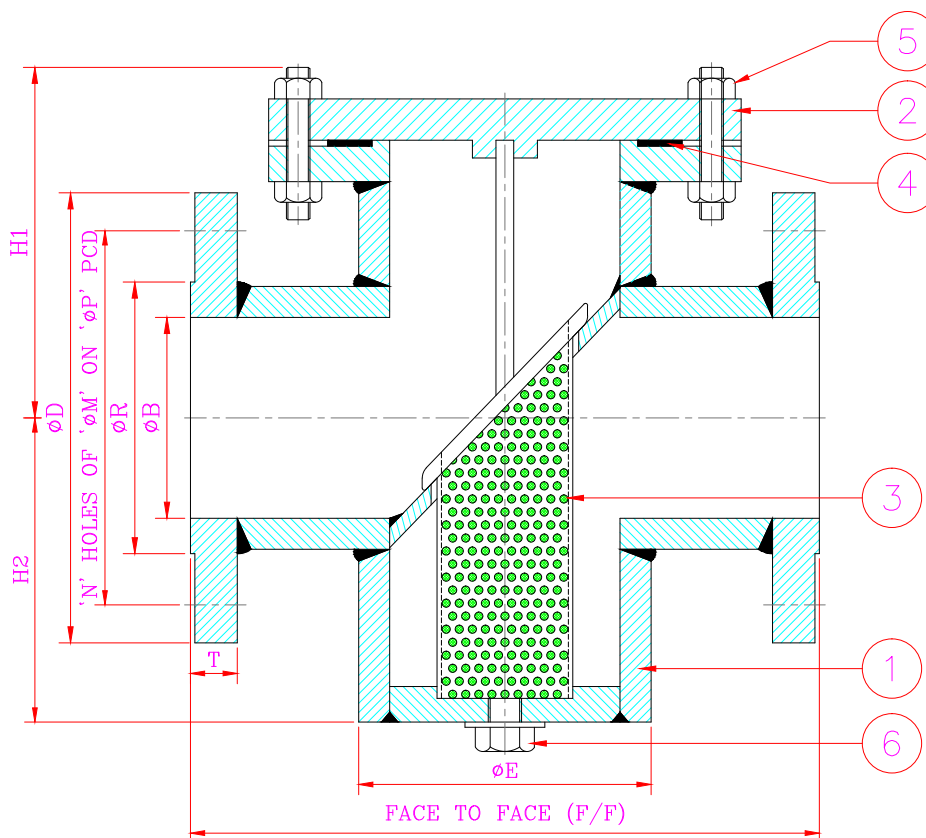
| VALVE SIZE |        | MANUF. STD. | FLANGE AS PER ASME B 16.5, CLASS 150# |     |       |      |       |      |    | (HEIGHT) |
|------------|--------|-------------|---------------------------------------|-----|-------|------|-------|------|----|----------|
| NB         | INCH   | F/F         | ØB                                    | ØRF | ØD    | T    | ØP    | ØM   | N  | H        |
| 25         | 1"     | 160         | 25                                    | 51  | 108.0 | 11.2 | 79.4  | 16.0 | 4  | -        |
| 40         | 1.1/2" | 200         | 38                                    | 73  | 127.0 | 14.2 | 98.4  | 16.0 | 4  | -        |
| 50         | 2"     | 203         | 50                                    | 92  | 152.4 | 15.8 | 120.7 | 19.0 | 4  | -        |
| 65         | 2.1/2" | 216         | 65                                    | 105 | 177.8 | 17.4 | 139.7 | 19.0 | 4  | -        |
| 80         | 3"     | 241         | 75                                    | 127 | 190.5 | 19.0 | 152.4 | 19.0 | 4  | -        |
| 100        | 4"     | 292         | 100                                   | 157 | 228.6 | 23.8 | 190.5 | 19.0 | 8  | -        |
| 150        | 6"     | 406         | 150                                   | 216 | 279.4 | 25.4 | 241.3 | 22.3 | 8  | -        |
| 200        | 8"     | 495         | 200                                   | 270 | 342.9 | 28.5 | 298.5 | 22.3 | 8  | -        |
| 250        | 10"    | 622         | 250                                   | 324 | 406.4 | 30.2 | 362.0 | 25.4 | 12 | -        |
| 300        | 12"    | 699         | 300                                   | 381 | 482.6 | 31.8 | 431.8 | 25.4 | 12 | -        |
| 350        | 14"    | 787         | 350                                   | 413 | 533.4 | 35.1 | 476.2 | 28.4 | 12 | -        |
| 400        | 16"    | 914         | 400                                   | 470 | 596.9 | 36.5 | 539.7 | 28.4 | 16 | -        |

### NOTE:-

1. RAISED FACE HEIGHT IS 2mm
2. WE ALSO OFFER RTJ, BUTT WELD END, ETC & 300#, 600#, 1500# & 2500# ON REQUEST



# STRAINER (BASKET TYPE)



## MATERIAL SPECIFICATION :-

| SR. NO. | PART NAME  | MATERIAL   | QTY.    |
|---------|------------|--|---------|
| 1       | BODY       | WCB / LCB / WC6 / WC9/ C5 / C12 / CF8 / CF8M / CF3 / CF3M                    | 1 NO.   |
| 2       | COVER      | WCB / LCB / WC6 / WC9/ C5 / C12 / CF8 / CF8M / CF3 / CF3M                    | 1 NO.   |
| 3       | SCREEN     | SS304 / SS304L / SS316 / SS316L (40 MESH / 60 MESH / 80 MESH / 100 MESH)     | 1 NO.   |
| 4       | GASKET     | PTFE / SPIRAL WOUND + GRAPHITE FILLER (SS304 / SS304L / SS316 / SS316L)      | 1 NO.   |
| 5       | STUD / NUT | A 193 GR. B7 / A 193 GR. B8/B16 / A 320 GR. L7 / A194 GR. 8/4 / A 194 GR. 2H | AS REQ. |
| 6       | DRAIN PLUG | CARBON STEEL / STAINLESS STEEL   | 1 NO.   |

## DIMENSIONS :-

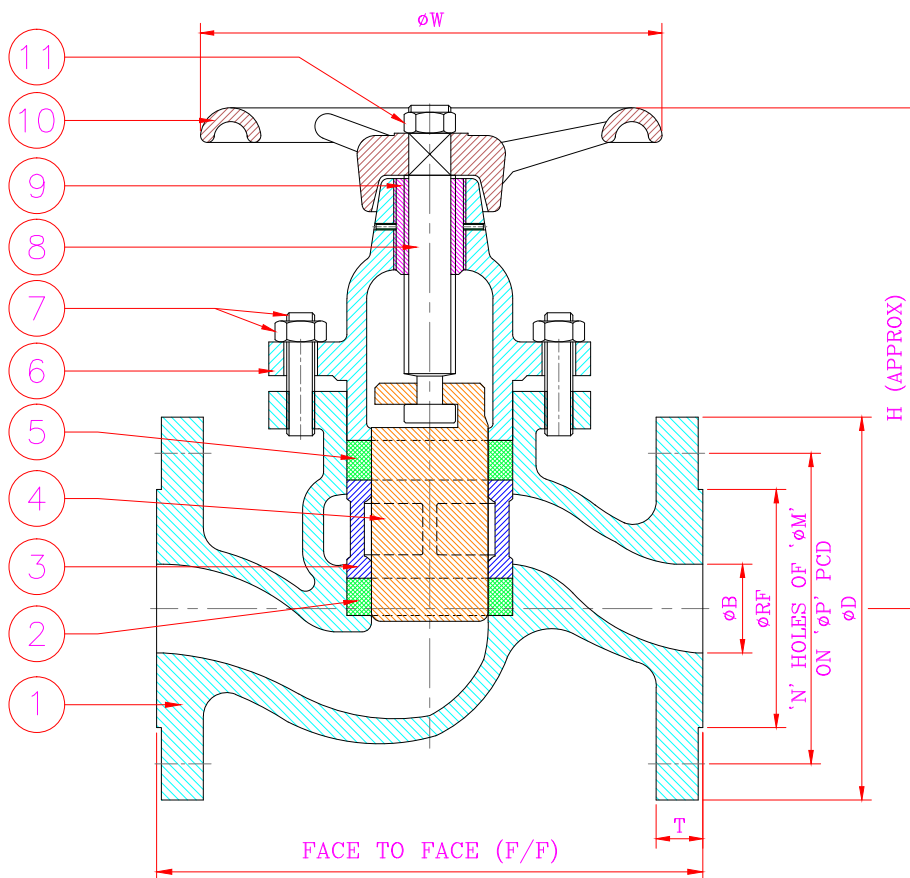
ALL THE DIMENSIONS ARE IN MM. UNLESS OTHERWISE STATED.

| VALVE SIZE |      | MANUF. STD. | FLANGE AS PER ASME B 16.5, CLASS 150# |     |       |      |       |      |    | (HEIGHT) |     |
|------------|------|-------------|---------------------------------------|-----|-------|------|-------|------|----|----------|-----|
| NB         | INCH |             | F/F                                   | ØB  | ØRF   | ØD   | T     | ØP   | ØM | N        | H1  |
| 50         | 2"   | 203         | 50                                    | 92  | 152.4 | 15.8 | 120.7 | 19.0 | 4  | 108      | 103 |
| 80         | 3"   | 241         | 75                                    | 127 | 190.5 | 19.0 | 152.4 | 19.0 | 4  | 133      | 150 |
| 100        | 4"   | 292         | 100                                   | 157 | 228.6 | 23.8 | 190.5 | 19.0 | 8  | 163      | 181 |
| 150        | 6"   | 356         | 150                                   | 216 | 279.4 | 25.4 | 241.3 | 22.3 | 8  | 190      | 259 |
| 200        | 8"   | 441         | 200                                   | 270 | 342.9 | 28.5 | 298.5 | 22.3 | 8  | 285      | 338 |
| 250        | 10"  | 503         | 250                                   | 324 | 406.4 | 30.2 | 362.0 | 25.4 | 12 | 323      | 416 |
| 300        | 12"  | 598         | 300                                   | 381 | 482.6 | 31.8 | 431.8 | 25.4 | 12 | 371      | 494 |
| 350        | 14"  | 667         | 350                                   | 413 | 533.4 | 35.1 | 476.2 | 28.4 | 12 | 408      | 572 |
| 400        | 16"  | 730         | 400                                   | 470 | 596.9 | 36.5 | 539.7 | 28.4 | 16 | 448      | 650 |
| 450        | 18"  | 850         | 450                                   | 533 | 635.0 | 39.6 | 577.8 | 31.7 | 16 | 478      | 728 |
| 500        | 20"  | 868         | 500                                   | 584 | 699.0 | 42.9 | 635.0 | 31.7 | 20 | 522      | 806 |
| 600        | 24"  | 893         | 600                                   | 692 | 813.0 | 47.7 | 749.3 | 35.0 | 20 | 599      | 963 |

### NOTE:-

1. RAISED FACE HEIGHT IS 2mm
2. WE ALSO OFFER RTJ, BUTT WELD END, ETC & 300#, 600#, 1500# & 2500# ON REQUEST

# PISTON VALVE



## MATERIAL SPECIFICATION :-

| SR. NO. | PART NAME     | MATERIAL   | QTY.    |
|---------|---------------|--|---------|
| 1       | BODY          | WCB / LCB / WC6 / WC9/ C5 / C12 / CF8 / CF8M / CF3 / CF3M / CN7M             | 1 NO.   |
| 2       | LOWER RING    | EQUIVALENT KFK   | 1 NO.   |
| 3       | SUPPORT RING  | WCB / LCB / WC6 / WC9/ C5 / C12 / CF8 / CF8M / CF3 / CF3M / CN7M             | 1 NO.   |
| 4       | PISTON        | AISI 410 / AISI 304 / AISI 304L / AISI 316 / AISI 316L / ALLOY-20 / INCONEL  | 1 NO.   |
| 5       | UPPER RING    | EQUIVALENT KOR-P   | 1 NO.   |
| 6       | BONNET        | WCB / LCB / WC6 / WC9/ C5 / C12 / CF8 / CF8M / CF3 / CF3M / CN7M             | 1 NO.   |
| 7       | STUD / NUT    | A 193 GR. B7 / A 193 GR. B8/B16 / A 320 GR. L7 / A194 GR. 8/4 / A 194 GR. 2H | AS REQ. |
| 8       | SPINDLE       | AISI 410 / AISI 304 / AISI 304L / AISI 316 / AISI 316L / ALLOY-20 / INCONEL  | 1 NO.   |
| 9       | YOKE BUSH     | GUN METAL / BRONZE   | 1 NO.   |
| 10      | HANDWHEEL     | S.G. IRON / M.I. / FAB. STEEL.   | 1 NO.   |
| 11      | HANDWHEEL NUT | CARBON STEEL / STAINLESS STEEL   | 1 NO.   |

## DIMENSIONS :-

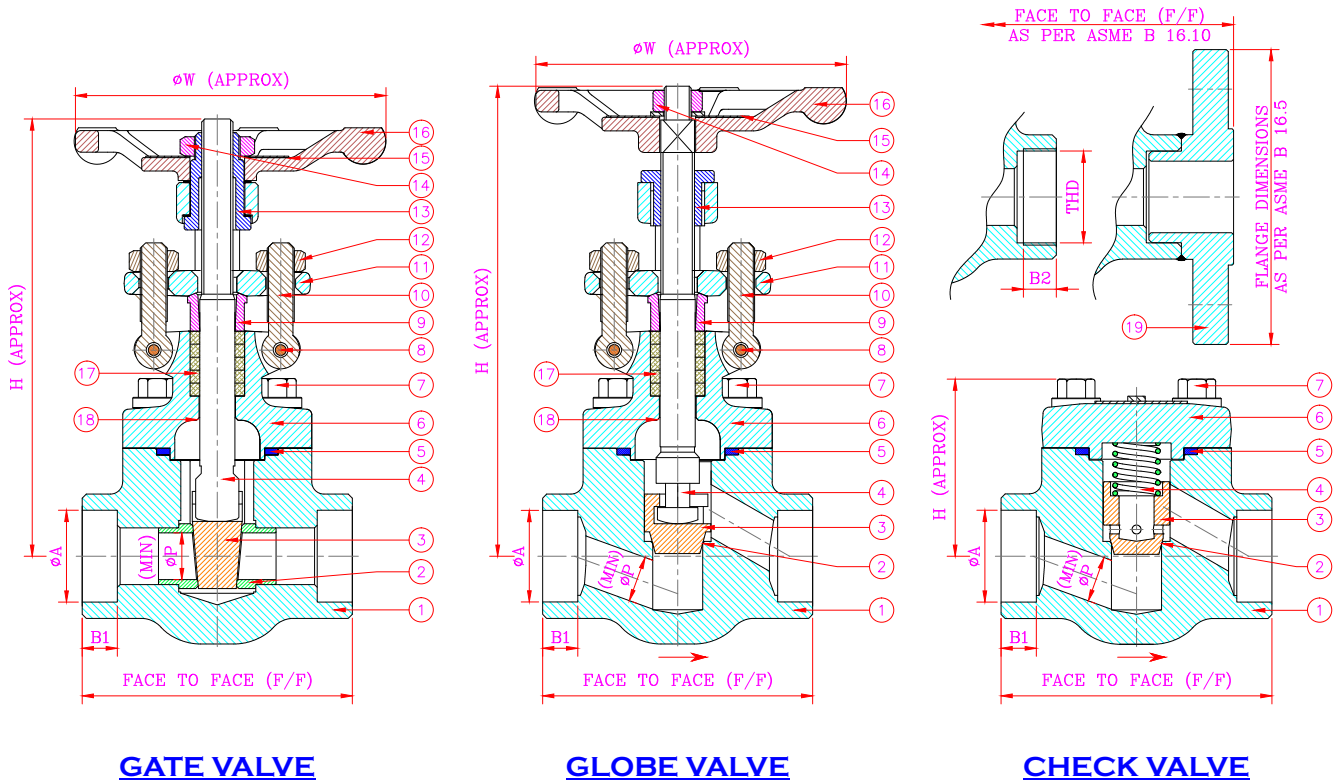
ALL THE DIMENSIONS ARE IN MM. UNLESS OTHERWISE STATED.

| VALVE SIZE |        | F/F | $\phi B$ | FLANGE AS PER ASME B 16.5, CLASS 150# |           |      |          |          |   | H   | $\phi W$ |
|------------|--------|-----|----------|---------------------------------------|-----------|------|----------|----------|---|-----|----------|
| NB         | INCH   |     |          | $\phi D$                              | $\phi RF$ | T    | $\phi P$ | $\phi M$ | N |     |          |
| 15         | 1/2"   | 130 | 15       | 88.9                                  | 35        | 11.2 | 60.3     | 16.0     | 4 | 105 | 100      |
| 20         | 3/4"   | 150 | 19       | 98.4                                  | 43        | 11.2 | 69.9     | 16.0     | 4 | 120 | 120      |
| 25         | 1"     | 160 | 25       | 108.0                                 | 51        | 11.2 | 79.4     | 16.0     | 4 | 130 | 140      |
| 32         | 1.1/4" | 180 | 32       | 117.5                                 | 64        | 12.7 | 88.9     | 16.0     | 4 | 155 | 160      |
| 40         | 1.1/2" | 200 | 38       | 127.0                                 | 73        | 14.2 | 98.4     | 16.0     | 4 | 185 | 180      |
| 50         | 2"     | 230 | 50       | 152.4                                 | 92        | 15.8 | 120.7    | 19.0     | 4 | 210 | 200      |
| 65         | 2.1/2" | 290 | 65       | 177.8                                 | 105       | 17.4 | 139.7    | 19.0     | 4 | 300 | 250      |
| 80         | 3"     | 310 | 75       | 190.5                                 | 127       | 19.0 | 152.4    | 19.0     | 4 | 325 | 250      |
| 100        | 4"     | 350 | 100      | 228.6                                 | 157       | 23.8 | 190.5    | 19.0     | 8 | 370 | 280      |
| 150        | 6"     | 480 | 150      | 279.4                                 | 216       | 25.4 | 241.3    | 22.3     | 8 | 470 | 360      |

### NOTE:-

1. RAISED FACE HEIGHT IS 2mm
2. WE ALSO OFFER RTJ, BUTT WELD END, ETC & 300#, 600#, 1500# & 2500# ON REQUEST

# FORGED STEEL VALVE



**GATE VALVE**

**GLOBE VALVE**

**CHECK VALVE**

## MATERIAL SPECIFICATION :-

| S.R. NO. | PART NAME     | MATERIAL   | QTY.    |
|----------|---------------|--|---------|
| 1        | BODY          | A105 / LF2 / F11 / F22 / F5 / F9 / F304L / F316L   | 1 NO.   |
| 2        | SEAT RING     | INTEGRAL+13% Cr OR ST-6 (GLOBE & CHECK) / AISI 410 / AISI 304 / AISI 304L / AISI 316 / AISI 316L / INCONEL | AS REQ. |
| 3        | WEDGE / PLUG  | CA-15 / CF8 / CF3 / CF8M / CF3M / INCONEL  | 1 NO.   |
| 4        | STEM          | AISI 410 / AISI 304 / AISI 304L / AISI 316 / AISI 316L / INCONEL   | 1 NO.   |
| 5        | GASKET        | SS304 / SS304L / SS316 / SS316L (SPIRAL WOUNDED WITH GRAPHITE FILLER)                                      | 1 NO.   |
| 6        | BONNET        | A105 / LF2 / F11 / F22 / F5 / F9 / F304L / F316L   | 1 NO.   |
| 7        | HEX BOLT      | A 193 Gr. B7 / B8 / B16 / A 320 Gr. L7   | 4 NO.   |
| 8        | EYE BOLT PIN  | AISI 410 / AISI 304 / AISI 304L / AISI 316 / AISI 316L   | 2 NO.   |
| 9        | GLAND BUSH    | AISI 410 / AISI 304 / AISI 304L / AISI 316 / AISI 316L / INCONEL   | 1 NO.   |
| 10       | EYE BOLT      | A 193 Gr. B7 / B8 / B16 / A 320 Gr. L7   | 2 NO.   |
| 11       | GLAND FLANGE  | A105 / LF2 / F11 / F22 / F5 / F9 / F304L / F316L   | 1 NO.   |
| 12       | EYE BOLT NUT  | A 194 Gr. 2H / 4 / 8   | 2 NO.   |
| 13       | YOKE SLEEVE   | A 582 Gr. SS416  | 1 NO.   |
| 14       | STEM NUT      | A 194 Gr. 2H / 4 / 8   | 1 NO.   |
| 15       | NAME PLATE    | STAINLESS STEEL  | 1 NO.   |
| 16       | HAND WHEEL    | M.I. / SG IRON   | 1 NO.   |
| 17       | GLAND PACKING | FLEXIBLE GRAPHITE RINGS  | AS REQ. |
| 18       | BACK SEAT     | INTEGRAL   | -       |
| 19       | FLANGE        | A105 / LF2 / F11 / F22 / F5 / F9 / F304L / F316L   | 2 NO.   |

## DIMENSIONS :-

ALL THE DIMENSIONS ARE IN MM. UNLESS OTHERWISE STATED.

| VALVE SIZE | MANUFACTURERS STD. |     |      |       |     |      |       |     |      | ASME B 16.11 |      | ASME B 1.2.1 |      | GATE VALVE      |      |       | GLOBE VALVE     |      |       | CHECK VALVE |      |       |       |     |     |     |    |     |     |
|------------|--------------------|-----|------|-------|-----|------|-------|-----|------|--------------|------|--------------|------|-----------------|------|-------|-----------------|------|-------|-------------|------|-------|-------|-----|-----|-----|----|-----|-----|
|            | 800#               |     |      | 1500# |     |      | 2500# |     |      | SOCKET END   |      | NPT / BSP    |      | H (OPEN/ CLOSE) |      |       | H (OPEN/ CLOSE) |      |       | H           |      |       |       |     |     |     |    |     |     |
| NB         | INCH               | F/F | øP   | øW    | F/F | øP   | øW    | F/F | øP   | øW           | øA   | B1           | B2   | THD             | 800# | 1500# | 2500#           | 800# | 1500# | 2500#       | 800# | 1500# | 2500# |     |     |     |    |     |     |
| 10         | 3/8"               | 73  | 6.4  | 86    | 80  | 6.4  | 86    | -   | -    | -            | 17.6 | 9.5          | 14.0 | 3/8"            | 151  | 135   | 151             | 138  | -     | 159         | 143  | 160   | 148   | -   | 53  | 56  | -  |     |     |
| 15         | 1/2"               | 73  | 9.5  | 86    | 80  | 9.5  | 86    | 100 | 7.0  | 116          | 21.8 | 9.5          | 14.0 | 1/2"            | 151  | 135   | 151             | 138  | 187   | 174         | 159  | 143   | 160   | 148 | 178 | 162 | 53 | 56  | 66  |
| 20         | 3/4"               | 80  | 12.7 | 86    | 100 | 12.7 | 116   | 120 | 12.5 | 150          | 27.2 | 9.5          | 16.0 | 3/4"            | 157  | 137   | 178             | 169  | 224   | 204         | 162  | 146   | 187   | 174 | 227 | 207 | 56 | 66  | 86  |
| 25         | 1"                 | 100 | 17.5 | 116   | 120 | 15.9 | 150   | 130 | 15.5 | 150          | 33.9 | 12.5         | 20.0 | 1"              | 186  | 162   | 227             | 207  | 261   | 239         | 191  | 171   | 224   | 204 | 256 | 224 | 66 | 86  | 104 |
| 32         | 1.1/4"             | 120 | 23.8 | 150   | 130 | 22.2 | 150   | 140 | 21.5 | 225          | 42.7 | 12.5         | 20.0 | 1.1/4"          | 237  | 201   | 227             | 207  | 318   | 290         | 228  | 199   | 224   | 204 | 303 | 263 | 86 | 86  | 127 |
| 40         | 1.1/2"             | 120 | 28.6 | 150   | 130 | 27.0 | 150   | 140 | 26.5 | 225          | 48.8 | 12.5         | 24.0 | 1.1/2"          | 237  | 201   | 256             | 224  | 318   | 290         | 228  | 199   | 261   | 239 | 303 | 263 | 86 | 104 | 127 |
| 50         | 2"                 | 130 | 36.5 | 150   | 140 | 34.9 | 225   | -   | -    | -            | 61.2 | 16.0         | 26.0 | 2"              | 268  | 223   | 303             | 263  | -     | 265         | 236  | 318   | 290   | -   | 104 | 127 | -  |     |     |

### NOTE:-

- FACE TO FACE DIMENSIONS WITH FLANGED END AS PER ASME B 16.10.
- FLANGE AS PER ASME B 16.5
- 2500# VALVES ARE HAVING WELDED BONNET.
- IBR APPROVED & BUTT WELD END VALVES ARE ALSO PROVIDED ON REQUEST.

FORGED STEEL VALVE





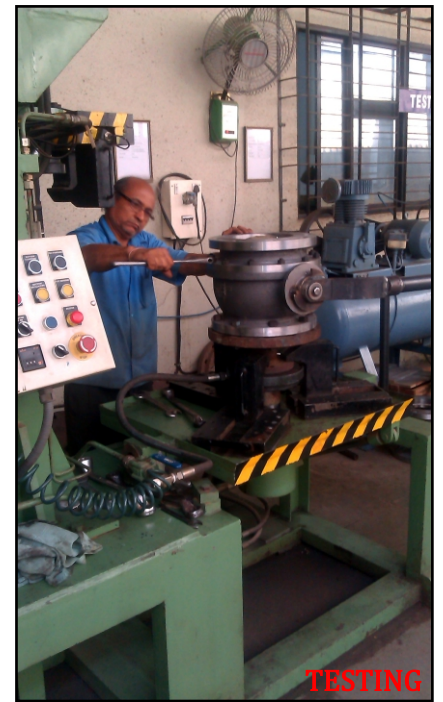
**LIBERTY PREMISES**



**WORKSHOP**



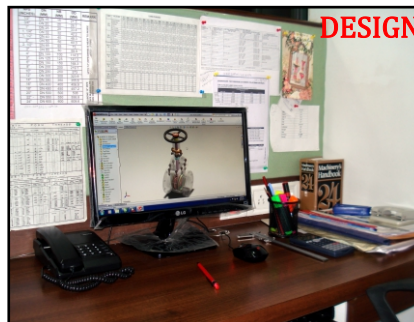
**STORE**



**TESTING**



**DISPATCH**



**DESIGN**



**PAINTING**

The manufacturer reserves the right to change product designs and specifications without notice.

## **LIBERTY VALVES PRIVATE LIMITED**

**MANUFACTURER OF ALL TYPES OF INDUSTRIAL VALVES**

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AUTHORISED DEALER / STOCKIST :-