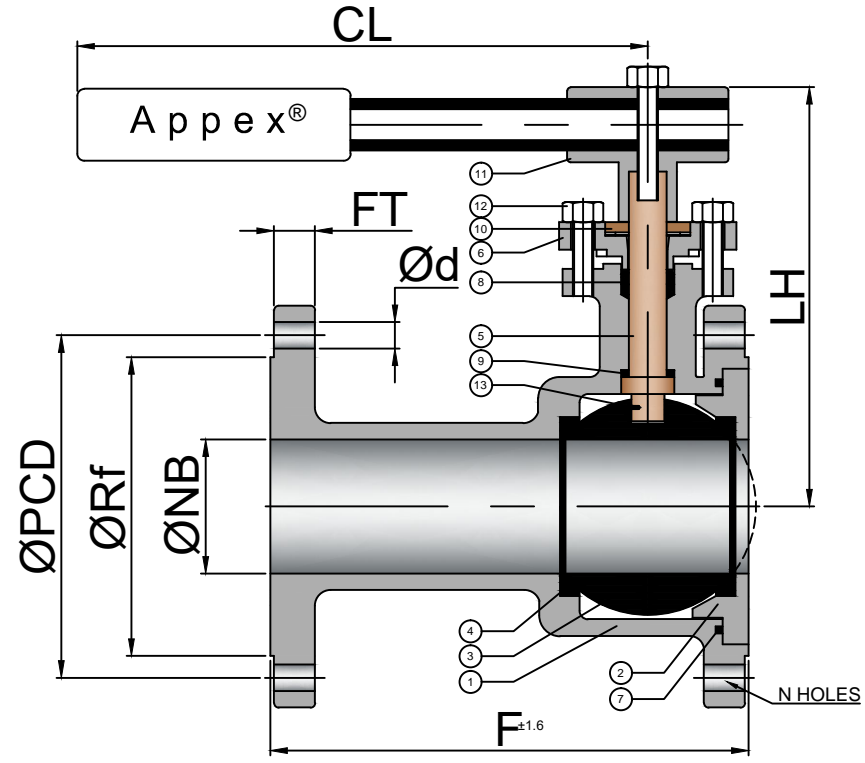
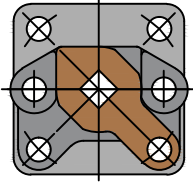


## FLUSH BOTTOM BALL VALVE INVESTMENT CASTING PRODUCT GLAND TYPE DESIGN

| SIZE      | ØNB | F   | Ø OD  | FT   | ØRf | ØPCD  | Ød   | N | CL  | LH  |
|-----------|-----|-----|-------|------|-----|-------|------|---|-----|-----|
| 40 X 50   | 38  | 105 | 152.4 | 15.9 | 92  | 120.6 | 19   | 4 | 280 | 150 |
| 50 X 80   | 50  | 120 | 178   | 17.5 | 105 | 139.7 | 19   | 4 | 280 | 165 |
| 65 X 80   | 64  | 120 | 190.5 | 19.1 | 127 | 152.4 | 19   | 4 | 280 | 165 |
| 80 X 100  | 75  | 140 | 228.6 | 23.9 | 157 | 190.5 | 19   | 8 | 375 | 220 |
| 100 X 125 | 100 | 180 | 254   | 23.9 | 186 | 215.9 | 22.2 | 8 | 375 | 235 |
| 100 X 150 | 100 | 180 | 279.4 | 25.4 | 216 | 241.3 | 22.2 | 8 | 375 | 235 |
| 150 X 200 | 150 | 265 | 343   | 28.6 | 270 | 298.5 | 22.2 | 8 | 660 | 285 |



| 13   | ANTISTATIC DEVICE | AISI 304/AISI 316   | 2 Set |
|------|-------------------|---------------------|-------|
| 12   | GLAND STUD & NUT  | C.S. / S.S.         | 2     |
| 11   | LEVER             | C.S. / S.S.         | 1     |
| 10   | STOPPER PLATE     | C.S. / S.S.         | 1     |
| 9    | STEM SEAL         | PTFE/GFT/CFT        | 1     |
| 8    | GLAND PACKING     | PTFE/GFT/CFT        | 4     |
| 7    | BODY SEAL         | PTFE/GFT/CFT        | 1     |
| 6    | GLAND             | AISI 304 / AISI 316 | 1     |
| 5    | STEM              | AISI 304 / AISI 316 | 1     |
| 4    | SEAT RING         | PTFE/GFT/CFT        | 2     |
| 3    | BALL              | AISI 304 / AISI 316 | 1     |
| 2    | CHECK NUT         | WCB/CF8/CF8M        | 1     |
| 1    | BODY              | WCB/CF8/CF8M        | 1     |
| P.NO | NOMENCLATURE      | MATERIAL            | QTY.  |

### BILL OF MATERIAL

----- X -----

#### -: Special Features :-

1. In built ISO 5211 Mounting Pad
2. Gland Arrangement
3. Locking Arrangement
4. Square Design Stem & Lever

#### -: Available Options :-

1. Special Alloy Steel MOC.
2. Special Face to Face.
3. Fire safe design ball valve
4. Cavity fill up design.
5. Extended stem design.

| CONSTRUCTION:- 1 Pc., BLOW-OUT PROOF STEM, FLOATING BALL, SOFT SEATED DESIGN FLUSH BOTTOM BALL VALVE, Inbuilt ISO 5211 Mounting Pad |                                | HYDROSTATIC PRESSURE TESTING | PNEUMATIC PRESSURE TESTING | VALVE TYPE  | RATING   | NOMINAL SIZE       | DESCRIPTION ASSEMBLY BALL VALVE I.P.C. |           |      |          | MATERIAL AS SHOWN     |                 |     |    |     |      |                    |    |   |      |     |     |  |     |      |     |                |           |          |   |  |  |
|---|--------------------------------|------------------------------|----------------------------|---|--|--------------------|--|-----------|------|----------|-----------------------|-----------------|-----|----|-----|------|--------------------|----|---|------|-----|-----|--|-----|------|-----|----------------|-----------|----------|---|--|--|
| DESIGN & MFG. CODE  | ASME B16.34 & ISO 17292        |                              |                            | <table border="1"> <tr> <td rowspan="2">SHELL (BODY)</td> <td>kg/cm<sup>2</sup></td> <td>32</td> <td>7</td> </tr> <tr> <td>Psig</td> <td>450</td> <td>100</td> </tr> <tr> <td></td> <td>BAR</td> <td>30</td> <td>6.8</td> </tr> <tr> <td rowspan="2">SEAT</td> <td>kg/cm<sup>2</sup></td> <td>21</td> <td>7</td> </tr> <tr> <td>Psig</td> <td>300</td> <td>100</td> </tr> <tr> <td></td> <td>BAR</td> <td>19.5</td> <td>6.8</td> </tr> </table> | SHELL (BODY)                                   | kg/cm <sup>2</sup> | 32                                     | 7         | Psig | 450      | 100                   |                 | BAR | 30 | 6.8 | SEAT | kg/cm <sup>2</sup> | 21 | 7 | Psig | 300 | 100 |  | BAR | 19.5 | 6.8 | 1 PC FIRE SAFE | ASA 150 # | AS SHOWN | ALL DIMENSIONS ARE IN M.M. UNLESS OTHERWISE SPECIFIED |  |  |
| SHELL (BODY)  | kg/cm <sup>2</sup>             | 32                           | 7                          |   |  |                    |  |           |      |          |                       |                 |     |    |     |      |                    |    |   |      |     |     |  |     |      |     |                |           |          |   |  |  |
|   | Psig                           | 450                          | 100                        |   |  |                    |  |           |      |          |                       |                 |     |    |     |      |                    |    |   |      |     |     |  |     |      |     |                |           |          |   |  |  |
|   | BAR                            | 30                           | 6.8                        |   |  |                    |  |           |      |          |                       |                 |     |    |     |      |                    |    |   |      |     |     |  |     |      |     |                |           |          |   |  |  |
| SEAT  | kg/cm <sup>2</sup>             | 21                           | 7                          |   |  |                    |  |           |      |          |                       |                 |     |    |     |      |                    |    |   |      |     |     |  |     |      |     |                |           |          |   |  |  |
|   | Psig                           | 300                          | 100                        |   |  |                    |  |           |      |          |                       |                 |     |    |     |      |                    |    |   |      |     |     |  |     |      |     |                |           |          |   |  |  |
|   | BAR                            | 19.5                         | 6.8                        |   |  |                    |  |           |      |          |                       |                 |     |    |     |      |                    |    |   |      |     |     |  |     |      |     |                |           |          |   |  |  |
| INSPECTION & TESTING  | API 598                        |                              |                            | SCALE NTS   | END CONNECTION FLANGED                         | STANDARD ISO 17292 | REMOVE SHARP CORNERS                   |           |      |          | DESIGN KMS            | DATE 14/03/2015 |     |    |     |      |                    |    |   |      |     |     |  |     |      |     |                |           |          |   |  |  |
| FACE TO FACE  | MFG. (SHOWN IN DRAWING)        |                              |                            | PROJECTION THIRD ANGLE  | UNSPECIFIED TOLERANCES FOR MACHINED DIMENSIONS |                    |  |           |      |          | CHECKED               | DATE            |     |    |     |      |                    |    |   |      |     |     |  |     |      |     |                |           |          |   |  |  |
| END CONNECTION  | ASME B 16.5 R/F CONC. SERRATED |                              |                            |   | 0-75   | 75-300             | 300-600                                | ABOVE 600 |      | APPROVED | DATE                  |                 |     |    |     |      |                    |    |   |      |     |     |  |     |      |     |                |           |          |   |  |  |
| CLIENT  |                                |                              |                            |   | ±0.20  | ±0.40              | ±0.50                                  | ±0.75     |      | REV.     | 00                    |                 |     |    |     |      |                    |    |   |      |     |     |  |     |      |     |                |           |          |   |  |  |
| P.O. NO.  |                                |                              |                            |   |  |                    |  |           |      | DRG. No. | SE/BLV-2PC/FP/1501-12 |                 |     |    |     |      |                    |    |   |      |     |     |  |     |      |     |                |           |          |   |  |  |

FOR REFERENCE

FOR APPROVAL

FOR RECORD