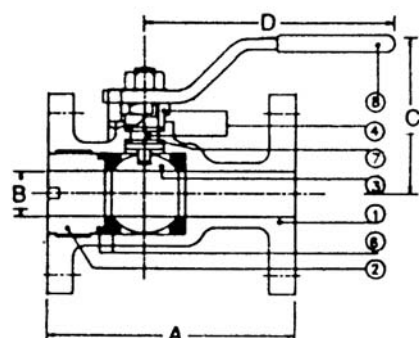
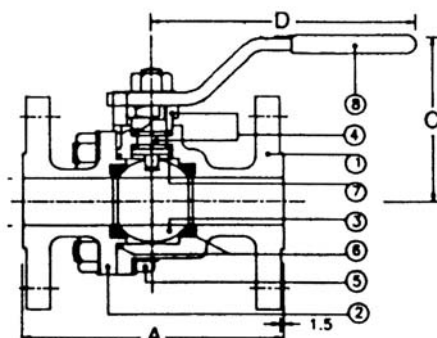


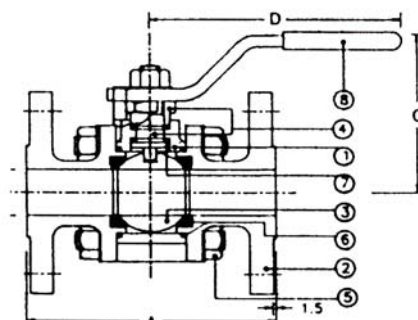
# Full Bore Ball Valve Flanged



1 - Pc DESIGN



2 - Pc DESIGN



3 - Pc DESIGN

## DESIGN FEATURES

- Bubble tight shut off (Zero leakage).
- Superior quality castings (**Investment Casting**). Better grain structure to ASTM No. 7-9 at 100x equivalent to forging materials as against sand casting No. 5-7 at 100x.
- Full Bore Ball - mirror finish.
- Blow out proof stem.
- Quarter turn operation.
- Lever indicates flow direction.
- Replaceable spares available.
- One year warranty against any manufacturing defects.

## VALVE STANDARDS

|                   |                                            |
|-------------------|--------------------------------------------|
| PRESSURE RATING   | : ASA 150 LBS                              |
| DESIGN            | : BS 5351                                  |
| FACE TO FACE      | : ANSI B 16.10                             |
| FLANGE DIMENSIONS | : ANSI B 16.5 or BD : 10<br>Table D, E, F. |
| TEST PRESSURE     | : BS 6755                                  |
| SIZE RANGE        | : 15 mm To 300 mm.                         |

## DIMENSIONS (MM)

| Size | 15   | 20  | 25  | 40  | 50  | 65   | 80  | 100 |
|------|------|-----|-----|-----|-----|------|-----|-----|
| A    | 108  | 118 | 127 | 165 | 178 | 190  | 203 | 229 |
| B    | 12.7 | 19  | 25  | 38  | 50  | 63.5 | 76  | 100 |
| C    | 80   | 95  | 105 | 125 | 135 | 145  | 180 | 180 |
| D    | 150  | 155 | 185 | 265 | 265 | 265  | 380 | 380 |

## MATERIAL OF CONSTRUCTION :

| Part Name       | MATERIALS                                        |                    |                    |                     |                     |
|-----------------|--------------------------------------------------|--------------------|--------------------|---------------------|---------------------|
| Body Adaptor    | CAST IRON                                        | ASTM A-216 Gr. WCB | ASTM A-351 Gr. CF8 | ASTM A-351 Gr. CF8M | ASTM A-351 Gr. CN7M |
| Ball            | ASTM A-351Gr. CF8                                |                    |                    | Gr. CF8M            | Gr. CN7M            |
| Stem, Stem Nut  | AISI SS.304                                      |                    |                    | AISI SS 316         |                     |
| Studs & Nuts    | ASTM A 193 Gr. B7-A 194 Gr. 2H / SS 304 / SS.316 |                    |                    |                     |                     |
| Seat, Body seal | PTFE                                             |                    |                    |                     |                     |
| Stem seat       | GFT                                              |                    |                    |                     |                     |
| Lever           | CS (FABRICATED) OR SS.304 / 316                  |                    |                    |                     |                     |

## TEST PRESSURE

|       | HYDRAUSTATIC                     | PNEUMATIC |
|-------|----------------------------------|-----------|
| Shell | 425 PSI or 30 Kg/Cm <sup>2</sup> | -         |
| Seat  | 300 PSI or 21 Kg/Cm <sup>2</sup> | 80 psi    |

Note : Date given are subject to change for products improvements.

Client :

Ref. No. :

Drg. No. : BVF - 101



Manufactured by :

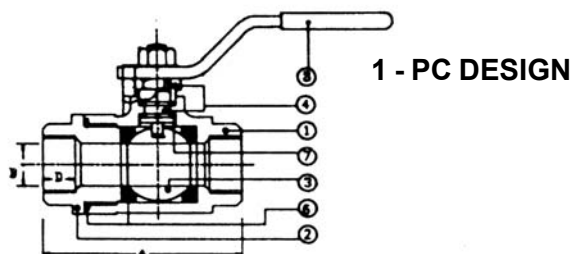
## KHD VALVES (P) LTD.

H. K. Compound, Opp. Park Devis, Sakinaka, Mumbai - 400 072.

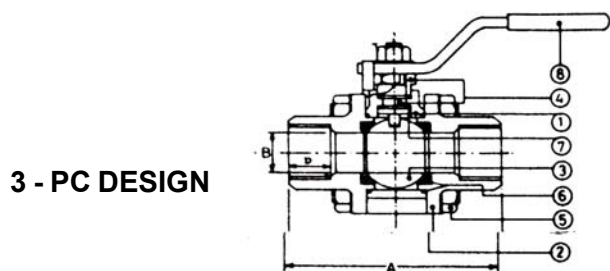
☎ : 2857 4538 / 2857 1068 ● Fax : (91-22) 2857 4538

E-mail : khdvalve@vsnl.com ● Web : www.khdvalve.com

# 1Pc./3Pc. Full Bore Ball Valve Screwed



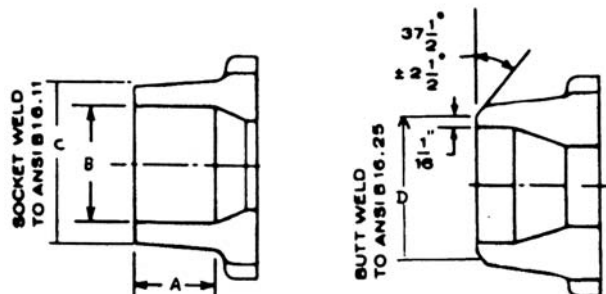
1 - PC DESIGN



3 - PC DESIGN

## TEST PRESSURE

|       | HYDRASTATIC                      | PNEUMATIC |
|-------|----------------------------------|-----------|
| SHELL | 425 PSI or 30 Kg/Cm <sup>2</sup> | -         |
| SEAT  | 300 PSI or 21 Kg/Cm <sup>2</sup> | 80 psi    |



## DIMENSIONS FOR SOCKET AND BUTTWELD ENDS (MM)

| Size | 6    | 10   | 15   | 20   | 25   | 40   | 50   |
|------|------|------|------|------|------|------|------|
| A    | 10   | 10   | 10   | 13   | 13   | 13   | 16   |
| B    | 14.1 | 17.6 | 21.8 | 27.1 | 33.8 | 48.7 | 61.2 |
| C    | 19   | 23   | 29   | 35   | 45   | 63   | 76   |
| D    | 13.7 | 17.2 | 21.3 | 26.7 | 33.4 | 48.3 | 60.3 |

## DESIGN FEATURES

- Bubble tight shutt off (Zero leakage).
- Superior quality castings (**Investment Casting**). Better grain structure to ASTM No. 7-9 at 100x equivalent to forging materials as against sand casting No. 5-7 at 100x.
- Full Bore Ball - mirror finish.
- Blow out proof stem.
- Quarter turn operation.
- Lever indicates flow direction.
- Replaceable spares available.
- One year warranty against any manufacturing defects.

## VALVE STANDARDS

|                 |                  |
|-----------------|------------------|
| PRESSURE RATING | : ASA 150 LBS    |
| DESIGN          | : BS 5351        |
| FACE TO FACE    | : ANSI B 16.10   |
| TEST PRESSURE   | : BS 6755        |
| SIZE RANGE      | : 6 mm To 50 mm. |

## END CONNECTIONS

|                  |                             |
|------------------|-----------------------------|
| SCREWED ENDS     | : TO ANSI B 16.11 BSP, BSPT |
| OR               | : NPT FEMALE THREADS        |
| SOCKET WELD ENDS | : TO ANSI B 16.11           |
| BUTT WELD ENDS   | : TO ANSI B 16.25, B 16.9   |

## MATERIAL OF CONSTRUCTION :

| Part No. | Part Name          | MATERIALS                                         |                       |                        |                        |
|----------|--------------------|---------------------------------------------------|-----------------------|------------------------|------------------------|
| 1.<br>2. | Body<br>Adaptor    | ASTM A-216<br>Gr. WCB / CS                        | ASTM A-351<br>Gr. CF8 | ASTM A-351<br>Gr. CF8M | ASTM A-351<br>Gr. CN7M |
| 3.       | Ball               | ASTM A-351Gr. CF8                                 |                       | Gr. CF8M               | Gr. CN7M               |
| 4.       | Stem,<br>Stem Nut  | AISI SS.304                                       |                       | AISI SS 316            |                        |
| 5.       | Studs<br>& Nuts    | ASTM A 193 Gr. B7-A 194 Gr. 2H or SS 304 / SS.316 |                       |                        |                        |
| 6.       | Seat,<br>Body seal | PTFE                                              |                       |                        |                        |
| 7.       | Stem seat          | GFT                                               |                       |                        |                        |
| 8.       | Lever              | CS (FABRICATED) OR SS.304 / 316                   |                       |                        |                        |

## DIMENSIONS (MM)

| Size               | 6     | 10    | 15    | 20    | 25     | 40    | 50    |
|--------------------|-------|-------|-------|-------|--------|-------|-------|
| A                  | 60    | 60    | 65    | 80    | 90     | 110   | 130   |
| B                  | 9.5   | 9.5   | 12.7  | 19.0  | 25.0   | 38.0  | 50.0  |
| C                  | 15    | 15    | 15    | 19    | 21     | 25    | 25    |
| WT.1Pc.<br>Kg.3Pc. | 0.650 | 0.650 | 0.680 | 0.820 | 1.1410 | 2.900 | 4.500 |
|                    | .950  | .950  | 0.970 | 1.160 | 1.900  | 4.500 | 5.500 |

Note : Date given are subject to change for products improvements.

Client :  
Ref. No. :  
Drg. No. : BVS - 111



Manufactured by :

**KHD VALVES (P) LTD.**

H. K. Compound, Opp. Park Devis, Sakinaka, Mumbai - 400 072.

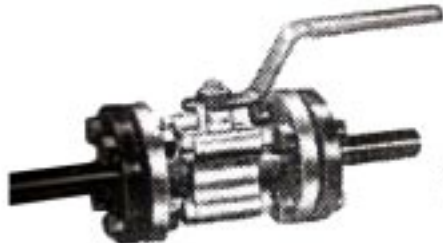
☎ : 2857 4538 / 2857 1068 ● Fax : (91-22) 2857 4538

E-mail : khdvalve@vsnl.com ● Web : www.khdvalve.com

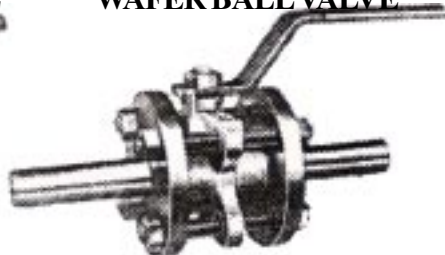
# Wafer Design Ball Valve



## CONVENTIONAL BALL VALVE



## WAFER BALL VALVE



### MATERIALS OF CONSTRUCTION

| Part No. | Part Name       | Materials   |            |
|----------|-----------------|-------------|------------|
| 1.       | Body            | Astma-351   | Astma-351  |
| 2.       | Adaptor         | Cr. CF8     | Gr. CF8M   |
| 3.       | Ball            | SS304       | SS316      |
| 4.       | Stem, Stem nut  | AISI SS.304 | AISI SS316 |
| 5.       | Seat, Body Seal | PTFE        |            |
| 6.       | Stem Seal       | GFT         |            |
| 7.       | Lever           | CS          |            |

### DESIGN FEATURES

- Compact design.
- Light weight.
- Economical.
- Easily inserted between two standard Pipe Flanges.
- Bubble tight shutt off (zero leakage).
- Full flow (mirror finish ball).
- Blow out proof stem.
- Quarter turn operation.
- Lever indicates flow direction.
- Replaceable spares available.
- One year warrenty towards manufacturing defects.

### DIMENSIONS (MM)

| Size | Face to face | Bore | Center Height | Lever Length | Weight (Apx.) |
|------|--------------|------|---------------|--------------|---------------|
| 25   | 60           | 25   | 105           | 185          | 1.400         |
| 40   | 75           | 38   | 125           | 265          | 3.100         |
| 50   | 80           | 50   | 135           | 265          | 4.000         |
| 65   | 110          | 63   | 145           | 265          | 6.000         |
| 75   | 120          | 75   | 180           | 380          | 12.000        |
| 100  | 155          | 100  | 380           | 380          | 15.000        |

### VALVE STANDARDS

PRESSURE RATING : 150 / 300 LBS

DESIGN : BS 5351

TYPE : WAFER TYPES

TEST PRESSURE : BS 5146

SIZE : 25 TO 100 MM

### FLANGE COMPARISION DIMENSION CHART

| Valve Size | Flange Dia |     |     |         | P C D |       |       |         | Thickness |      |      |         | Hole Dia. |      |      |         | Nos. of Hole |   |   |         | RF DIA<br>ASA 150 |
|------------|------------|-----|-----|---------|-------|-------|-------|---------|-----------|------|------|---------|-----------|------|------|---------|--------------|---|---|---------|-------------------|
|            | D          | E   | F   | ASA 150 | D     | E     | F     | ASA 150 | D         | E    | F    | ASA 150 | D         | E    | F    | ASA 150 | D            | E | F | ASA 150 |                   |
| 25         | 114        | 114 | 120 | 108     | 82.5  | 82.5  | 82.5  | 79.4    | 9.5       | 9.5  | 9.5  | 11      | 14.3      | 14.3 | 17.5 | 16      | 4            | 4 | 4 | 4       | 51                |
| 40         | 133        | 133 | 140 | 127     | 98.4  | 98.4  | 104.7 | 98.4    | 12.7      | 12.7 | 12.7 | 14      | 14.3      | 14.3 | 17.5 | 16      | 4            | 4 | 4 | 4       | 73                |
| 50         | 152        | 152 | 165 | 152     | 114.3 | 114.3 | 127.0 | 120.6   | 14.3      | 14.3 | 16.0 | 16      | 17.5      | 17.5 | 17.5 | 19      | 4            | 4 | 4 | 4       | 92                |
| 65         | 165        | 165 | 184 | 178     | 127.0 | 127.0 | 139.7 | 139.7   | 14.3      | 14.3 | 16.0 | 17      | 17.5      | 17.5 | 17.5 | 19      | 4            | 4 | 8 | 4       | 105               |
| 75         | 184        | 184 | 203 | 190     | 146.0 | 146.0 | 152.4 | 152.4   | 14.3      | 14.3 | 16.0 | 19      | 17.5      | 17.5 | 17.5 | 19      | 4            | 4 | 8 | 4       | 127               |
| 100        | 216        | 216 | 229 | 229     | 177.8 | 177.8 | 190.5 | 190.5   | 17.5      | 17.5 | 19.0 | 24      | 17.5      | 17.5 | 17.5 | 19      | 4            | 8 | 8 | 8       | 157               |

Note : Date given are subject to change for products improvements.

Client :

Ref. No. :

Drg. No. : BV - 221



Manufactured by :

## KHD VALVES (P) LTD.

H. K. Compound, Opp. Park Devis, Sakinaka, Mumbai - 400 072.

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