

Revision R0

(ALL DIMENSION ARE IN MM)

1  
2  
3  
4  
5

Port  
Øg  
ØD  
L  
ØJ, N Nos. Holes  
On K:PCD

TYPE OF VALVE BODY & BALL : FULL PORT, TWO PIECE TWO WAY DESIGN, SPLIT BODY  
WORKING TEMPERATURE : 180°C  
WORKING PRESSURE : UP TO 10 kg/cm<sup>2</sup>  
PRESSURE RATING : 150#  
TESTING CODE : BS - 6755  
END CONNECTION : FLANGE END AS PER ASME B 16.5 RF 150#  
LEAKAGE CLASS : CLASS VI

TESTING DETAIL:-  
HYDRAULIC TEST PRESSURE:  
VALVE BODY : 15 kg/cm<sup>2</sup>  
SEAT : 10 kg/cm<sup>2</sup>

STANDARDS :-  
DESIGN STANDARD : BS EN ISO 17292:2004 (FORMERLY BS 5351)  
FLANGE STANDARD : AS PER ASME B16.5 150#  
MANUFACTURING STANDARD : BS - 5351  
FACE TO FACE : ANSI B 16.10 / DIN 3202 / BS EN 558-1/2  
TESTING STANDARD : BS EN 12266-1&2 (2003)

SALIENT FEATURES:-  
\* 'MAINTENANCE FREE' GLANDLESS LIVE LOAD DESIGN  
\* ONE PIECE INTEGRAL BALL STEM COMBINATION  
\* MINIMUM CAVITY & FULL FLOW EFFICIENT  
\* NO BACKLASH IN STEM & BALL EVEN AFTER PROLONGED SERVICE  
\* EXCEPTIONALLY LOW TORQUE AS COMPARED TO PLUG VALVES

| LINING SPECIFICATION |                                |
|----------------------|--------------------------------|
| THICKNESS            | 3-5 MM                         |
| SPARK TEST           | 15 K. V. DC.                   |
| LINING MAT.          | PTFE*PFA, ASTM D 3307 ,TYPE II |
| SERVICE TEMP.        | PTFE*(PFA). - MAX.200°C        |

| NO. | DESCRIPTION | MATERIAL                      |
|-----|-------------|-------------------------------|
| 1   | BODY        | ASTM A216 GR WCB + PFA LINED  |
|     |             | ASTM A351 GR CF8 + PFA LINED  |
|     |             | ASTM A351 GR CF8M + PFA LINED |
|     |             | S.G. IRON + PFA LINED         |
|     |             | DUCTILE IRON + PFA LINED      |
| 2   | BALL        | ASTM A351 GR CF8 + PFA LINED  |
|     |             | ASTM A351 GR CF8M + PFA LINED |
| 3   | SEAT        | PTFE                          |
|     |             | GFT                           |
|     |             | CFT                           |
|     |             | TFM                           |
| 4   | SHAFT       | ASTM A351 GR CF8              |
|     |             | ASTM A351 GR CF8M             |
| 5   | LEVER       | STANDARD                      |

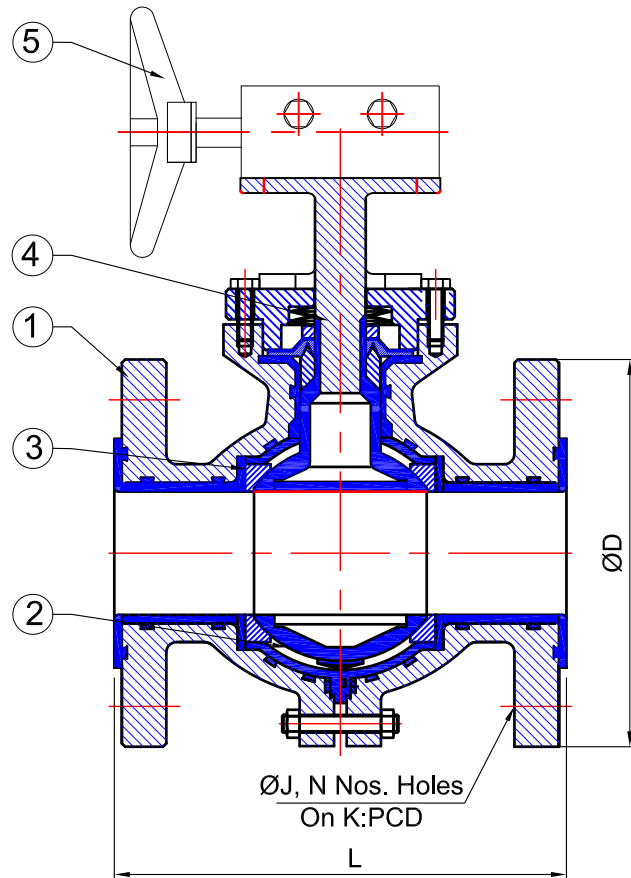
| Tolerance | ±3mm | ±5mm | +2mm<br>-1mm | ±3mm  |       |   | ±1.5mm |
|-----------|------|------|--------------|-------|-------|---|--------|
| Size      | Port | L    | ØD           | Øg    | ØJ    | N | PCD    |
| 15 mm     | 13   | 141  | 90           | 34.9  | 15.88 | 4 | 60.3   |
| 20 mm     | 19   | 141  | 100          | 42.9  | 15.88 | 4 | 69.9   |
| 25 mm     | 24   | 130  | 110          | 50.8  | 15.88 | 4 | 79.4   |
| 40 mm     | 38   | 167  | 125          | 73    | 15.88 | 4 | 98.4   |
| 50 mm     | 49   | 181  | 150          | 92.1  | 19.05 | 4 | 120.7  |
| 65 mm     | 61.8 | 206  | 180          | 104.8 | 19.05 | 4 | 139.7  |
| 80 mm     | 74   | 206  | 190          | 127   | 19.05 | 4 | 152.7  |
| 100 mm    | 100  | 226  | 230          | 157.2 | 19.05 | 8 | 190.5  |
| 150 mm    | 150  | 267  | 280          | 215.9 | 22.2  | 8 | 241.3  |

(WE RESERVE THE RIGHT TO CHANGE DESIGN AND TECHNICAL DATA FURNISHED HERE DUE TO CONTINUOUS PRODUCT DEVELOPMENT)

| Mfg. By                                                                    | 4Matic | DATE                                   | 20/11/19 |
|----------------------------------------------------------------------------|--------|----------------------------------------|----------|
| TITLE:-<br>DRG. OF 15 TO 150MM LEVER OPERATED<br>PFA LINED BALL VALVE 150# |        | TOTAL SHEET                            | 01       |
|                                                                            |        | SHEET NO.                              | 01 OF 01 |
|                                                                            |        | DRG.NO.<br>A4G/BV/PFA/150#/GEN/1442/R0 |          |

Revision R0

(ALL DIMENSION ARE IN MM)



| Tolerance | ±3mm | ±5mm | +2mm<br>-1mm |      |    | ±1.5mm |
|-----------|------|------|--------------|------|----|--------|
| Size      | Port | L    | ØD           | ØJ   | N  | PCD    |
| 150 mm    | 150  | 267  | 280          | 22.2 | 8  | 241.3  |
| 200 mm    | 201  | 457  | 345          | 22.2 | 8  | 298.5  |
| 250 mm    |      |      | 405          | 25.4 | 12 | 362    |
| 300 mm    |      |      | 485          | 25.4 | 12 | 431.8  |

**PFA LINED BALL VALVE DETAIL:-**

|                           |   |                                                 |
|---------------------------|---|-------------------------------------------------|
| TYPE OF VALVE BODY & BALL | : | FULL PORT, TWO PIECE TWO WAY DESIGN, SPLIT BODY |
| WORKING TEMPERATURE       | : | 180°C                                           |
| WORKING PRESSURE          | : | UP TO 10 kg/cm <sup>2</sup>                     |
| PRESSURE RATING           | : | 150#                                            |
| TESTING CODE              | : | BS - 6755                                       |
| END CONNECTION            | : | FLANGE END AS PER ASME B 16.5 RF 150#           |
| LEAKAGE CLASS             | : | CLASS VI                                        |

**TESTING DETAIL:-**

|                          |                         |
|--------------------------|-------------------------|
| HYDRAULIC TEST PRESSURE: |                         |
| VALVE BODY               | : 15 kg/cm <sup>2</sup> |
| SEAT                     | : 10 kg/cm <sup>2</sup> |

**STANDARDS :-**

|                        |   |                                         |
|------------------------|---|-----------------------------------------|
| DESIGN STANDARD        | : | BS EN ISO 17292:2004 (FORMERLY BS 5351) |
| FLANGE STANDARD        | : | AS PER ASME B16.5 150#                  |
| MANUFACTURING STANDARD | : | BS - 5351                               |
| FACE TO FACE           | : | ANSI B 16.10 / DIN 3202 / BS EN 558-1/2 |
| TESTING STANDARD       | : | BS EN 12266-1&2 (2003)                  |

**SALIENT FEATURES:-**

- \* 'MAINTENANCE FREE' GLANDLESS LIVE LOAD DESIGN
- \* ONE PIECE INTEGRAL BALL STEM COMBINATION
- \* MINIMUM CAVITY & FULL FLOW EFFICIENT
- \* NO BACKLASH IN STEM & BALL EVEN AFTER PROLONGED SERVICE
- \* EXCEPTIONALLY LOW TORQUE AS COMPARED TO PLUG VALVES

**LINING SPECIFICATION**

|               |                                |
|---------------|--------------------------------|
| THICKNESS     | 3-5 MM                         |
| SPARK TEST    | 15 K. V. DC.                   |
| LINING MAT.   | PTFE*PFA, ASTM D 3307 ,TYPE II |
| SERVICE TEMP. | PTFE*(PFA), - MAX.200°C        |

| NO. | DESCRIPTION | MATERIAL                      |
|-----|-------------|-------------------------------|
| 1   | BODY        | ASTM A216 GR WCB + PFA LINED  |
|     |             | ASTM A351 GR CF8 + PFA LINED  |
|     |             | ASTM A351 GR CF8M + PFA LINED |
|     |             | S.G. IRON + PFA LINED         |
|     |             | DUCTILE IRON + PFA LINED      |
| 2   | BALL        | ASTM A351 GR CF8 + PFA LINED  |
|     |             | ASTM A351 GR CF8M + PFA LINED |
| 3   | SEAT        | PTFE                          |
|     |             | GFT                           |
|     |             | CFT                           |
|     |             | TFM                           |
| 4   | SHAFT       | ASTM A351 GR CF8              |
|     |             | ASTM A351 GR CF8M             |
| 5   | GEAR        | STANDARD                      |

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Mfg. By

**4Matic**

DATE 21/11/19

TOTAL SHEET 01

SHEET NO. 01 OF 01

TITLE:-

DRG. OF 150 TO 300MM GEAR OPERATED  
PFA LINED BALL VALVE 150#

DRG.NO.

A4G/BV/PFA/150#/GEN/1443/R0