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# 1001 Bronze Globe Valve (Screwed)

## Salient Features

- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Screwed in Bonnet, Inside Screw, Rising Stem, Integral Seat.
- Designed sheet metal handwheel for a firm grip and convenient operation.
- Premium Quality PTFE Gland Packing.
- Medium Pattern.

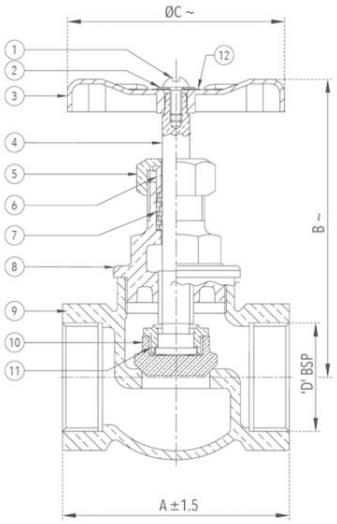


Test Pressure (Hydrostatic) :
Shell : 20 kg/cm²g (285 psig)
Seat : 13.50 kg/cm²g (192 psig)
Maximum Working Temperature : 225°C

**Suitable For**
Water, Oil, Air*, Gases*
*Also available with PTFE Seating for Air and Gas applications, at a nominal extra price.

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Quantity |
|---|---|---|---|---|
| 1 | Screw / Bolt | Carbon Steel (Zinc Plated) | - - - | 1 |
| 2 | Washer | Carbon Steel (Zinc Plated) | - - - | 1 |
| 3 | Handwheel | Sheet Metal (Powder Coated) | - - - | 1 |
| 4 | Stem | Forged Brass | IS 6912 Gr. FLB | 1 |
| 5 | Gland Nut | Forged Brass | IS 6912 Gr. FLB | 1 |
| 6 | Gland | Forged Brass | IS 6912 Gr. FLB | 1 |
| 7 | Gland Packing | PTFE | - - - | - |
| 8 | Bonnet | Bronze | IS 318 Gr. LTB2 | 1 |
| 9 | Body | Bronze | IS 318 Gr. LTB2 | 1 |
| 10 | Disc | Bronze | IS 318 Gr. LTB2 | 1 |
| 11 | Disc Nut | Bronze | IS 318 Gr. LTB2 | 1 |
| 12 | Name Plate | Aluminium | - - - | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B ~ | ØC ~ | D |
|---|---|---|---|---|---|
| 1/4 | 8 | 33 | 60 | 50 | 1/4″ |
| 3/8 | 10 | 37 | 60 | 50 | 3/8″ |
| 1/2 | 15 | 45 | 70 | 60 | 1/2″ |
| 3/4 | 20 | 53 | 85 | 65 | 3/4″ |
| 1 | 25 | 57 | 93 | 70 | 1″ |
| 1 1/4 | 32 | 71 | 109 | 80 | 1 1/4″ |
| 1 1/2 | 40 | 80 | 117 | 90 | 1 1/2″ |
| 2 | 50 | 86 | 137 | 110 | 2″ |
| 2 1/2 | 65 | 107 | 154 | 120 | 2 1/2″ |
| 3 | 80 | 123 | 184 | 140 | 3″ |
| 4 | 100 | 159 | 224 | 160 | 4″ |

~ ±10

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# 1001A Bronze Angle Globe Valve No.4 (Screwed)

## Salient Features

- Angle Pattern.
- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Screwed in Bonnet, Inside Screw, Rising Stem, Integral Seat.
- Designed sheet metal handwheel for a firm grip and convenient operation.
- Premium Quality PTFE Gland Packing.
- Medium Pattern.

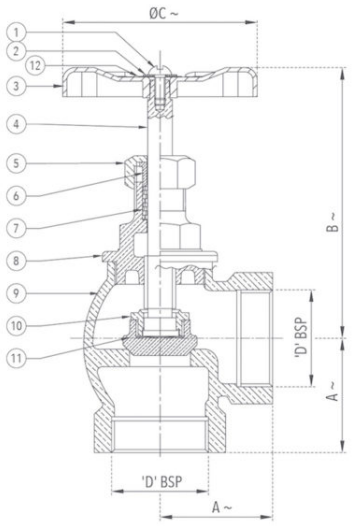


Test Pressure (Hydrostatic) :
Shell : 24 kg/cm²g (340 psig)
Seat : 16 kg/cm²g (225 psig)
Maximum Working Temperature : 225°C

**Suitable For**
Water, Oil, Air*, Gases*
*Also available with PTFE Seating for Air and Gas applications, at a nominal extra price.

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Quantity |
|---|---|---|---|---|
| 1 | Screw / Bolt | Carbon Steel (Zinc Plated) | - - - | 1 |
| 2 | Washer | Carbon Steel (Zinc Plated) | - - - | 1 |
| 3 | Handwheel | Sheet Metal (Powder Coated) | - - - | 1 |
| 4 | Stem | Forged Brass | IS 6912 Gr. FLB | 1 |
| 5 | Gland Nut | Forged Brass | IS 6912 Gr. FLB | 1 |
| 6 | Gland | Forged Brass | IS 6912 Gr. FLB | 1 |
| 7 | Gland Packing | PTFE | - - - | - |
| 8 | Bonnet | Bronze | IS 318 Gr. LTB2 | 1 |
| 9 | Body | Bronze | IS 318 Gr. LTB2 | 1 |
| 10 | Disc Nut | Bronze | IS 318 Gr. LTB2 | 1 |
| 11 | Disc | Bronze | IS 318 Gr. LTB2 | 1 |
| 12 | Name Plate | Aluminium | - - - | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ~ | B ~ | ØC ~ | D |
|---|---|---|---|---|---|
| 1/2 | 15 | 29 | 75 | 60 | 1/2″ |
| 3/4 | 20 | 35 | 82 | 65 | 3/4″ |
| 1 | 25 | 43 | 90 | 70 | 1″ |
| 1 1/4 | 32 | 47 | 115 | 80 | 1 1/4″ |
| 1 1/2 | 40 | 54 | 125 | 90 | 1 1/2″ |
| 2 | 50 | 66 | 143 | 110 | 2″ |

~ ±10

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# 1002 Bronze Globe Valve No.5 (Screwed)

## Salient Features

- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Screwed in Bonnet, Inside Screw, Rising Stem, Integral Seat.
- Designed sheet metal handwheel for a firm grip and convenient operation.
- Provision for re-packing under pressure.
- Premium Quality PTFE Gland Packing.
- Heavy Pattern.

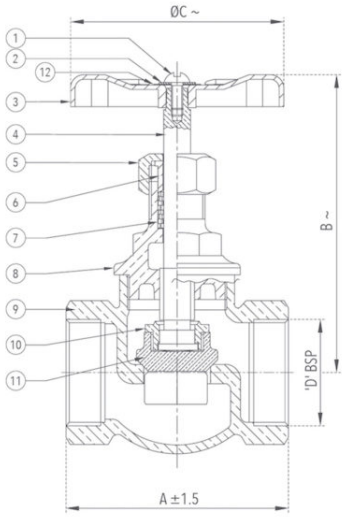


Test Pressure (Hydrostatic) :
Shell : 35 kg/cm²g (500 psig)
Seat : 20 kg/cm²g (285 psig)
Maximum Working Temperature : 225°C

**Suitable For**
Water, Oil, Air*, Gases*
*Also available with PTFE Seating for Air and Gas applications, at a nominal extra price.

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Quantity |
|---|---|---|---|---|
| 1 | Screw / Bolt | Carbon Steel (Zinc Plated) | - - - | 1 |
| 2 | Washer | Carbon Steel (Zinc Plated) | - - - | 1 |
| 3 | Handwheel | Sheet Metal (Powder Coated) | - - - | 1 |
| 4 | Stem | Forged Brass | IS 6912 Gr. FLB | 1 |
| 5 | Gland Nut | Forged Brass | IS 6912 Gr. FLB | 1 |
| 6 | Gland | Forged Brass | IS 6912 Gr. FLB | 1 |
| 7 | Gland Packing | PTFE | - - - | - |
| 8 | Bonnet | Bronze | IS 318 Gr. LTB2 | 1 |
| 9 | Body | Bronze | IS 318 Gr. LTB2 | 1 |
| 10 | Disc Nut | Bronze | IS 318 Gr. LTB2 | 1 |
| 11 | Disc | Bronze | IS 318 Gr. LTB2 | 1 |
| 12 | Name Plate | Aluminium | - - - | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B ~ | ØC ~ | D |
|---|---|---|---|---|---|
| 1/4 | 8 | 34 | 58 | 60 | 1/4″ |
| 3/8 | 10 | 41 | 72 | 60 | 3/8″ |
| 1/2 | 15 | 55 | 90 | 60 | 1/2″ |
| 3/4 | 20 | 65 | 103 | 65 | 3/4″ |
| 1 | 25 | 82 | 119 | 70 | 1″ |
| 1 1/4 | 32 | 88 | 136 | 70 | 1 1/4″ |
| 1 1/2 | 40 | 98 | 147 | 102 | 1 1/2″ |
| 2 | 50 | 120 | 162 | 110 | 2″ |
| 2 1/2 | 65 | 133 | 189 | 130 | 2 1/2″ |
| 3 | 80 | 160 | 215 | 164 | 3″ |

~ ±10

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# 1003 Bronze Globe Valve No.8 (Flanged)

## Salient Features

- Flanged Ends to BS 10 Table 'D'.
- Screwed in Bonnet, Inside Screw, Rising Stem, Integral Seat.
- Designed sheet metal handwheel for a firm grip and convenient operation.
- Premium Quality PTFE Gland Packing.
- Medium Pattern.

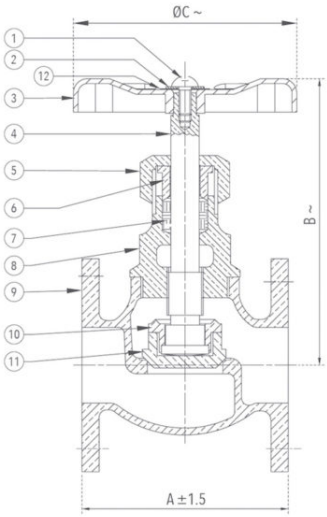


Test Pressure (Hydrostatic) :
Shell : 24 kg/cm²g (340 psig)
Seat : 16 kg/cm²g (225 psig)
Maximum Working Temperature : 225°C

**Suitable For**
Water, Oil, Air*, Gases*
*Also available with PTFE Seating for Air and Gas applications, at a nominal extra price.

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Quantity |
|---|---|---|---|---|
| 1 | Screw / Bolt | Carbon Steel (Zinc Plated) | - - - | 1 |
| 2 | Washer | Carbon Steel (Zinc Plated) | - - - | 1 |
| 3 | Handwheel | Sheet Metal (Powder Coated) | - - - | 1 |
| 4 | Stem | Forged Brass | IS 6912 Gr. FLB | 1 |
| 5 | Gland Nut | Forged Brass | IS 6912 Gr. FLB | 1 |
| 6 | Gland | Forged Brass | IS 6912 Gr. FLB | 1 |
| 7 | Gland Packing | PTFE | - - - | - |
| 8 | Bonnet | Bronze | IS 318 Gr. LTB2 | 1 |
| 9 | Body | Bronze | IS 318 Gr. LTB2 | 1 |
| 10 | Disc Nut | Bronze | IS 318 Gr. LTB2 | 1 |
| 11 | Disc | Bronze | IS 318 Gr. LTB2 | 1 |
| 12 | Name Plate | Aluminium | - - - | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B ~ | ØC ~ |
|---|---|---|---|---|
| 1/2 | 15 | 53 | 85 | 50 |
| 3/4 | 20 | 67 | 90 | 57 |
| 1 | 25 | 80 | 98 | 62 |
| 1 1/4 | 32 | 85 | 115 | 76 |
| 1 1/2 | 40 | 91 | 127 | 80 |
| 2 | 50 | 106 | 140 | 86 |

~ ±10

**NOTE :** Also available with Open-Shut indicator and locking device at a nominal extra price.

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# 1006 Bronze Gate Valve (Hex. Type) (Screwed)

## Salient Features

- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Screwed in Bonnet, Inside Screw, Non-Rising Stem, Integral Seat.
- Forged Brass Bonnet, Wedge, Stem and Gland Nut.
- Body designed for convenient fitting where space constraint is the factor.
- Designed sheet metal handwheel for a firm grip and convenient operation.
- Premium Quality PTFE Gland Packing.

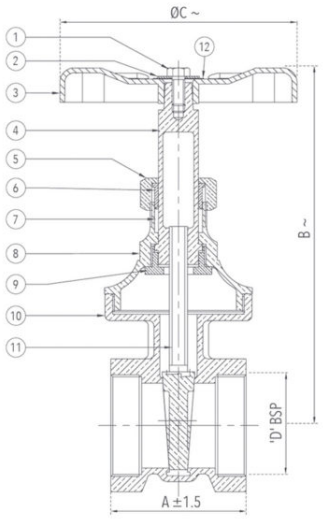


Test Pressure (Hydrostatic) :
Shell : 24 kg/cm²g (340 psig)
Seat : 16 kg/cm²g (225 psig)
Maximum Working Temperature : 225°C

**Suitable For**
Water, Oil

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Quantity |
|---|---|---|---|---|
| 1 | Screw / Bolt | Carbon Steel (Zinc Plated) | – – – | 1 |
| 2 | Washer | Carbon Steel (Zinc Plated) | – – – | 1 |
| 3 | Hand wheel | Sheet Metal (Powder Coated) | – – – | 1 |
| 4 | Stem | Forged Brass / Bronze | IS 6912 Gr. FLB / IS 318 Gr. LTB 2* | 1 |
| 5 | Gland Nut | Forged Brass | IS 6912 Gr. FLB | 1 |
| 6 | Gland | Forged Brass | IS 6912 Gr. FLB | 1 |
| 7 | Gland Packing | PTFE | – – – | – |
| 8 | Bonnet | Forged Brass / Bronze | IS 6912 Gr. FLB / IS 318 Gr. LTB 2* | 1 |
| 9 | Check Nut | Forged Brass | IS 6912 Gr. FLB | 1 |
| 10 | Body | Bronze | IS 318 Gr. LTB 2 | 1 |
| 11 | Wedge | Forged Brass | IS 6912 Gr. FLB | 1 |
| 12 | Name Plate | Aluminum | – – – | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B ~ | ØC ~ | D |
|---|---|---|---|---|---|
| 1/4* | 8* | 35 | 92 | 60 | 1/4″ |
| 3/8* | 10* | 38 | 96 | 60 | 3/8″ |
| 1/2 | 15 | 41 | 103 | 60 | 1/2″ |
| 3/4 | 20 | 45 | 122 | 65 | 3/4″ |
| 1 | 25 | 50 | 137 | 70 | 1″ |
| 1 1/4 | 32 | 54 | 150 | 90 | 1 1/4″ |
| 1 1/2 | 40 | 60 | 166 | 90 | 1 1/2″ |
| 2 | 50 | 65 | 200 | 110 | 2″ |
| 2 1/2* | 65* | 76 | 250 | 120 | 2 1/2″ |
| 3* | 80* | 92 | 292 | 138 | 3″ |
| 4* | 100* | 105 | 365 | 160 | 4″ |

~ ±10

*Stem and Bonnet for Size 8, 10, 65, 80 and 100 are of Bronze.

**NOTE :** Size 6″ can also be made available.

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# 1007 Bronze Gate Valve (Peg. Type) (Screwed)

## Salient Features

- Design Standard BSEN 12288 (BS 5154).
- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Screwed in Bonnet, Inside Screw, Non-Rising Stem, Integral Seat.
- Designed sheet metal handwheel for a firm grip and convenient operation.
- Premium Quality PTFE Gland Packing.

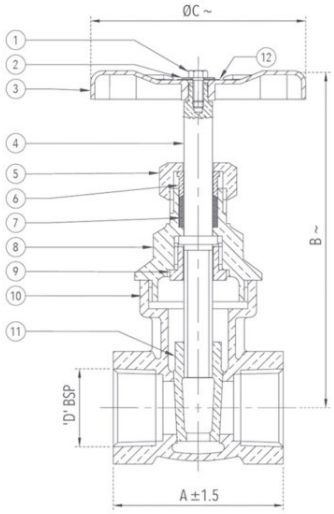


Test Pressure (Hydrostatic) :
Shell : 25 kg/cm²g (350 psig)
Seat : 16 kg/cm²g (225 psig)
Maximum Working Temperature : 225°C

**Suitable For**
Water, Oil

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Quantity |
|---|---|---|---|---|
| 1 | Screw / Bolt | Carbon Steel (Zinc Plated) | - - - | 1 |
| 2 | Washer | Carbon Steel (Zinc Plated) | - - - | 1 |
| 3 | Handwheel | Sheet Metal (Powder Coated) | - - - | 1 |
| 4 | Stem | Forged Brass | IS 6912 Gr. FLB | 1 |
| 5 | Gland Nut | Forged Brass | IS 6912 Gr. FLB | 1 |
| 6 | Gland | Forged Brass | IS 6912 Gr. FLB | 1 |
| 7 | Gland Packing | PTFE | - - - | - |
| 8 | Bonnet | Forged Brass / Bronze | IS 6912 Gr. FLB / IS 318 Gr. LTB2 | 1 |
| 9 | Check Nut | Forged Brass | IS 6912 Gr. FLB | 1 |
| 10 | Body | Bronze | IS 318 Gr. LTB 2 | 1 |
| 11 | Wedge | Bronze | IS 318 Gr. LTB 2 | 1 |
| 12 | Name Plate | Aluminium | - - - | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B ~ | ØC ~ | D |
|---|---|---|---|---|---|
| 1/4* | 8* | 43 | 89 | 50 | 1/4″ |
| 3/8* | 10* | 43 | 92 | 50 | 3/8″ |
| 1/2 | 15 | 48 | 105 | 60 | 1/2″ |
| 3/4 | 20 | 53 | 114 | 65 | 3/4″ |
| 1 | 25 | 60 | 129 | 70 | 1″ |
| 1 1/4 | 32 | 68 | 139 | 80 | 1 1/4″ |
| 1 1/2 | 40 | 72 | 155 | 90 | 1 1/2″ |
| 2 | 50 | 83 | 189 | 110 | 2″ |
| 2 1/2 | 65 | 94 | 220 | 120 | 2 1/2″ |
| 3 | 80 | 105 | 250 | 140 | 3″ |
| 4* | 100* | 127 | 307 | 160 | 4″ |

~ ±10

*Bonnet for Size 8, 10 and 100 is of Bronze.

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# 1008 Bronze Ball Valve (Screwed)

## Salient Features

- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Full Bore, Two Piece Design.
- Quarter Turn, Lever Operated.
- Provided with Stainless Steel Ball.
- Premium Quality PTFE Gland Packing and Seating.

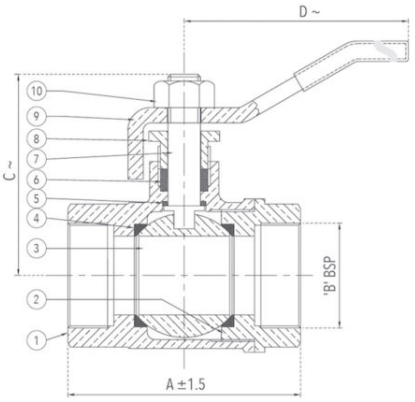


Test Pressure (Hydrostatic) :
Shell : 25 kg/cm²g (350 psig)
Seat : 16 kg/cm²g (225 psig)
Maximum Working Temperature : 220°C

**Suitable For**
Water, Oil

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Quantity |
|---|---|---|---|---|
| 1 | Body | Bronze | IS 318 GR. LTB 2 | 1 |
| 2 | Bonnet | Bronze / Forged Brass | IS 318 GR. LTB 2 / IS 6912 Gr. FLB | 1 |
| 3 | Ball | Stainless Steel | ASTM A276 Type 304 / ASTM A351 Gr. CF8 | 1 |
| 4 | Body Seat Ring | PTFE | - - - | 2 |
| 5 | Thrust Washer | PTFE | - - - | 1 |
| 6 | Gland Packing | PTFE | - - - | - |
| 7 | Stem | Stainless Steel | ASTM A276 Type 410 | 1 |
| 8 | Gland | Forged Brass | IS 6912 Gr. FLB | 1 |
| 9 | Lever | Mild Steel | - - - | 1 |
| 10 | Nut | Carbon Steel | - - - | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B | C ~ | D ~ |
|---|---|---|---|---|---|
| 1/2* | 15* | 60 | 1/2″ | 44 | 105 |
| 3/4* | 20* | 66 | 3/4″ | 48 | 123 |
| 1* | 25* | 73 | 1″ | 58 | 123 |
| 1 1/4 | 32 | 91 | 1 1/4″ | 73 | 148 |
| 1 1/2 | 40 | 91 | 1 1/2″ | 80 | 178 |
| 2 | 50 | 117 | 2″ | 85 | 213 |
| 2 1/2 | 65 | 135 | 2 1/2″ | 110 | 245 |
| 3 | 80 | 162 | 3″ | 116 | 330 |
| 4 | 100 | 201 | 4″ | 139 | 330 |

~ ±10

*Bonnet for Size 15, 20 and 25 is of Forged Brass.

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# 1008A Bronze Ball Valve E-Model (Screwed)

## Salient Features

- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Full Bore, Two Piece Design.
- Quarter Turn, Lever Operated.
- Provided with Stainless Steel Ball.
- Premium Quality PTFE Gland Packing and Seating.

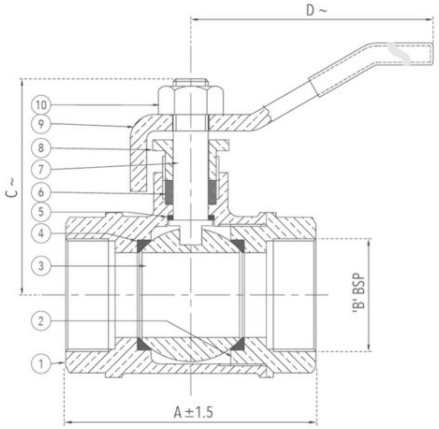



Test Pressure (Hydrostatic) :
Shell : 20 kg/cm²g (285 psig)
Seat : 13.5 kg/cm²g (192 psig)
Maximum Working Temperature : 220°C

**Suitable For**
Water, Oil

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Quantity |
|---|---|---|---|---|
| 1 | Body | Bronze | IS 318 Gr. LTB 2 | 1 |
| 2 | Bonnet | Bronze | IS 318 Gr. LTB 2 | 1 |
| 3 | Ball | Stainless Steel | ASTM A276 Type 304 / ASTM A351 Gr. CF8 | 1 |
| 4 | Body Seat Ring | PTFE | - - - | 2 |
| 5 | Thrust Washer | PTFE | - - - | 1 |
| 6 | Gland Packing | PTFE | - - - | - |
| 7 | Stem | Stainless Steel | ASTM A276 Type 410 | 1 |
| 8 | Gland | Forged Brass | IS 6912 Gr. FLB | 1 |
| 9 | Lever | Mild Steel | - - - | 1 |
| 10 | Nut | Carbon Steel | - - - | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B | C ~ | D ~ |
|---|---|---|---|---|---|
| 1/2 | 15 | 53 | 1/2″ | 40 | 106 |
| 3/4 | 20 | 58 | 3/4″ | 44 | 123 |
| 1 | 25 | 68 | 1″ | 50 | 123 |
| 1 1/4 | 32 | 76 | 1 1/4″ | 65 | 147 |
| 1 1/2 | 40 | 85 | 1 1/2″ | 72 | 178 |
| 2 | 50 | 102 | 2″ | 79 | 217 |

~ ±10

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# 1008B Forged Brass Ball Valve (Screwed)

## Salient Features

- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Full Bore, Two Piece Design.
- Quarter Turn, Lever Operated.
- Provided with Forged Brass / SS 304 Hard Chrome Plated Ball.
- Premium Quality PTFE Gland Packing and Seating.
- Chrome Finish.



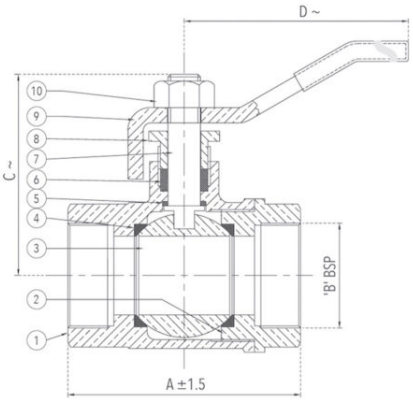
Test Pressure (Hydrostatic) :
Shell : 25 kg/cm²g (350 psig)
Seat : 16 kg/cm²g (225 psig)
Maximum Working Temperature : 220°C

**Suitable For**
Water, Oil, Air*
*Suitable for pressure upto 6.9 Kg/cm²g

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Quantity |
|---|---|---|---|---|
| 1 | Body | Forged Brass | IS 6912 Gr. FLB | 1 |
| 2 | Bonnet | Forged Brass | IS 6912 Gr. FLB | 1 |
| 3 | Ball | Forged Brass / Stainless Steel (Hard Chrome Plated) | IS 6912 Gr. FLB / ASTM A276 Type 304 | 1 |
| 4 | Body Seat Ring | PTFE | - - - | 2 |
| 5 | Thrust Washer | PTFE | - - - | 1 |
| 6 | Gland Packing | PTFE | - - - | |
| 7 | Stem | Forged Brass | IS 6912 Gr. FLB | 1 |
| 8 | Gland | Forged Brass | - - - | 1 |
| 9 | Lever | Aluminium Alloy / Mild Steel | - - - | 1 |
| 10 | Nut | Brass (Chrome Plated) | - - - | 1 |

Note : Lever for Size 8mm and 10mm is of Mild Steel




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B | C ~ | D ~ |
|---|---|---|---|---|---|
| 1/4 | 8 | 47 | 1/4″ | 37 | 90 |
| 3/8 | 10 | 47 | 3/8″ | 37 | 90 |
| 1/2 | 15 | 50 | 1/2″ | 40 | 106 |
| 3/4 | 20 | 57 | 3/4″ | 43 | 132 |
| 1 | 25 | 67 | 1″ | 47 | 132 |
| 1 1/4 | 32 | 76 | 1 1/4″ | 62 | 166 |
| 1 1/2 | 40 | 87 | 1 1/2″ | 68 | 176 |
| 2 | 50 | 104 | 2″ | 80 | 216 |
| 2 1/2 | 65 | 139 | 2 1/2″ | 100 | 216 |
| 3 | 80 | 155 | 3″ | 110 | 280 |
| 4 | 100 | 177 | 4″ | 124 | 280 |

~ ±10

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# 1009 Bronze Vertical Check Valve (Screwed)

## Salient Features

- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Single Piece Design, Integral Seat.
- Meant for Vertical Lines Only.
- Permits flow in one direction and shuts automatically if the flow reverses.
- Spring Loaded and 'O' Ring Type.
- Also available with metal to metal seating.

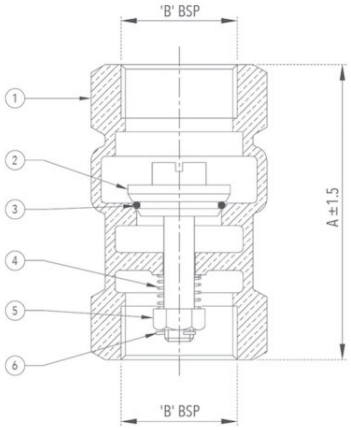



Test Pressure (Hydrostatic) :
Shell : 25 kg/cm²g (350 psig)
Seat : 16 kg/cm²g (225 psig)
Maximum Working Temperature : 80°C

**Suitable For**
Water, Oil

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Quantity |
|---|---|---|---|---|
| 1 | Body | Bronze | IS 318 Gr. LTB 2 | 1 |
| 2 | Disc | Bronze | IS 318 Gr. LTB 2 | 1 |
| 3 | 'O' Ring | Nitrile Rubber | IS 5192 – 1 | 1 |
| 4 | Spring | Stainless Steel | Type 304 | 1 |
| 5 | Disc Nut | Brass | – – – | 1 |
| 6 | Split Pin | Brass | – – – | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B |
|---|---|---|---|
| 1/2 | 15 | 55 | 1/2″ |
| 3/4 | 20 | 66 | 3/4″ |
| 1 | 25 | 76 | 1″ |
| 1 1/4 | 32 | 80 | 1 1/4″ |
| 1 1/2 | 40 | 85 | 1 1/2″ |
| 2 | 50 | 93 | 2″ |
| 2 1/2 | 65 | 114 | 2 1/2″ |
| 3 | 80 | 118 | 3″ |
| 4 | 100 | 141 | 4″ |

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# 1009A Forged Brass Multi Utility Check Valve (Screwed)

## Salient Features

- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Screwed in Bonnet.
- Suitable for both Horizontal and Vertical Lines.
- Permits flow in one direction and shuts automatically if the flow reverses.
- Disc is guided in Body as well as in Bonnet.
- Chrome Finish.

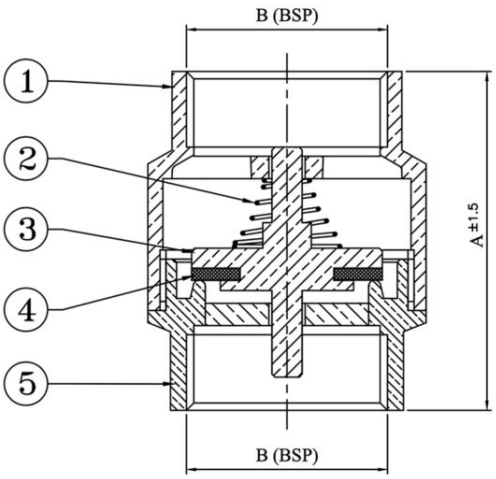


Test Pressure (Hydrostatic) :
Shell : 15 kg/cm²g (220 psig)
Seat : 10 kg/cm²g (150 psig)
Maximum Working Temperature : 90°C

**Suitable For**
Water, Oil

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Quantity |
|---|---|---|---|---|
| 1 | Body | Forged Brass | IS 6912 Gr. FLB | 1 |
| 2 | Spring | Stainless Steel | Type 304 | 1 |
| 3 | Disc | Forged Brass | IS 6912 Gr. FLB | 1 |
| 4 | Disc Facing | Nitrile Rubber | IS 638 Type B | 1 |
| 5 | Bonnet | Forged Brass | IS 6912 Gr. FLB | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B |
|---|---|---|---|
| 1/2 | 15 | 46 | 1/2″ |
| 3/4 | 20 | 53 | 3/4″ |
| 1 | 25 | 56 | 1″ |
| 1 1/4 | 32 | 60 | 1 1/4″ |
| 1 1/2 | 40 | 65 | 1 1/2″ |
| 2 | 50 | 76 | 2″ |

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# 1010 Bronze Horizontal Check Valve (Screwed)

## Salient Features

- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Screwed in Bonnet, Integral Seat.
- Permits flow in one direction and closes automatically if the flow reverses.
- Metal Disc is mushroom shaped with spherical seating surface.
- Meant for Horizontal Lines only.
- Disc is guided in Body as well as in Bonnet.
- Medium Pattern.
- Also available with metal to metal seating.

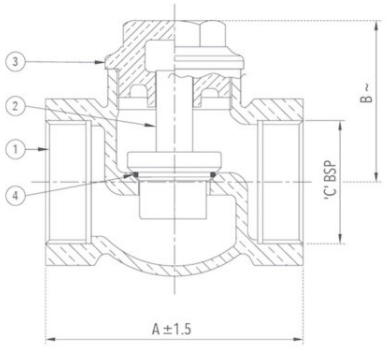


Test Pressure (Hydrostatic) :
Shell : 20 kg/cm²g (285 psig)
Seat : 13.5 kg/cm²g (192 psig)
Maximum Working Temperature : 80°C

**Suitable For**
Water, Oil

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Quantity |
|---|---|---|---|---|
| 1 | Body | Bronze | IS 318 Gr. LTB 2 | 1 |
| 2 | Disc | Bronze | IS 318 Gr. LTB 2 | 1 |
| 3 | Bonnet | Bronze / Forged Brass | IS 318 Gr. LTB 2 / IS 6912 Gr. FLB | 1 |
| 4 | 'O' Ring | Nitrile Rubber | IS 5192 – 1 | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B ~ | C |
|---|---|---|---|---|
| 1/4 | 8 | 33 | 24 | 1/4″ |
| 3/8 | 10 | 37 | 28 | 3/8″ |
| 1/2 | 15 | 45 | 32 | 1/2″ |
| 3/4 | 20 | 53 | 37 | 3/4″ |
| 1 | 25 | 57 | 41 | 1″ |
| 1 1/4 | 32 | 71 | 46 | 1 1/4″ |
| 1 1/2 | 40 | 79 | 52 | 1 1/2″ |
| 2 | 50 | 86 | 66 | 2″ |
| 2 1/2* | 65* | 107 | 80 | 2 1/2″ |
| 3* | 80* | 123 | 94 | 3″ |
| 4* | 100* | 159 | 104 | 4″ |

~ ±10

*Bonnet for Size 65, 80 and 100 is of Bronze.

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# 1010A Bronze Angle Type Lift Check Valve (Screwed)

## Salient Features

- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Angle Pattern, Screwed in Bonnet, Integral Seat.
- Permits flow in one direction and closes automatically if the flow reverses.
- Metal Disc is mushroom shaped with spherical seating surface.
- Disc is guided in Body as well as in Bonnet.
- Medium Pattern.
- Also available with metal to metal seating.

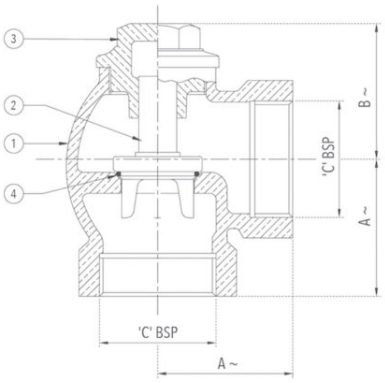


Test Pressure (Hydrostatic) :
Shell : 24 kg/cm²g (340 psig)
Seat : 16 kg/cm²g (225 psig)
Maximum Working Temperature : 80°C

**Suitable For**
Water, Oil

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Quantity |
|---|---|---|---|---|
| 1 | Body | Bronze | IS 318 Gr. LTB 2 | 1 |
| 2 | Disc | Bronze | IS 318 Gr. LTB 2 | 1 |
| 3 | Bonnet | Forged Brass | IS 6912 Gr. FLB | 1 |
| 4 | 'O' Ring | Nitrile Rubber | IS 5192 – 1 | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ~ | B ~ | C |
|---|---|---|---|---|
| 1/2 | 15 | 29 | 34 | 1/2″ |
| 3/4 | 20 | 35 | 40 | 3/4″ |
| 1 | 25 | 43 | 46 | 1″ |
| 1 1/4 | 32 | 47 | 53 | 1 1/4″ |
| 1 1/2 | 40 | 54 | 61 | 1 1/2″ |
| 2 | 50 | 66 | 70 | 2″ |

~ ±10

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# 1011 Bronze Horizontal Check Valve No.5 (Screwed)

## Salient Features

- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Screwed in Bonnet, Integral Seat.
- Permits flow in one direction and closes automatically if the flow reverses.
- Metal Disc is mushroom shaped with spherical seating surface.
- Meant for Horizontal Lines Only.
- Disc is guided in Body as well as in Bonnet.
- Heavy Pattern.
- Also available with metal to metal seating.

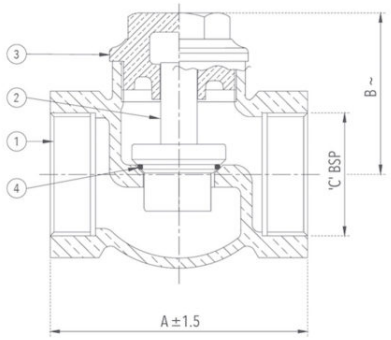


Test Pressure (Hydrostatic) :
Shell : 35 kg/cm²g (500 psig)
Seat : 20 kg/cm²g (285 psig)
Maximum Working Temperature : 80°C

**Suitable For**
Water, Oil

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Quantity |
|---|---|---|---|---|
| 1 | Body | Bronze | IS 318 Gr. LTB 2 | 1 |
| 2 | Disc | Bronze | IS 318 Gr. LTB 2 | 1 |
| 3 | Bonnet | Bronze | IS 318 Gr. LTB 2 | 1 |
| 4 | 'O' Ring | Nitrile Rubber | IS 5192 – 1 | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B ~ | C |
|---|---|---|---|---|
| 1/4 | 8 | 34 | 28 | 1/4″ |
| 3/8 | 10 | 41 | 35 | 3/8″ |
| 1/2 | 15 | 52 | 42 | 1/2″ |
| 3/4 | 20 | 65 | 48 | 3/4″ |
| 1 | 25 | 82 | 55 | 1″ |
| 1 1/4 | 32 | 88 | 61 | 1 1/4″ |
| 1 1/2 | 40 | 98 | 66 | 1 1/2″ |
| 2 | 50 | 120 | 75 | 2″ |
| 2 1/2 | 65 | 133 | 84 | 2 1/2″ |
| 3 | 80 | 160 | 96 | 3″ |

~ ±10

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# 1012 Bronze Horizontal Check Valve No.8 (Flanged)

## Salient Features

- Flanged Ends to BS 10 Table 'D'.
- Screwed in Bonnet, Integral Seat.
- Permits flow in one direction and shuts automatically if the flow reverses.
- Metal Disc is mushroom shaped with spherical seating surface.
- Meant for Horizontal Lines Only.
- Disc is guided in Body as well as in Bonnet.
- Medium Pattern.
- Also available with metal to metal seating.

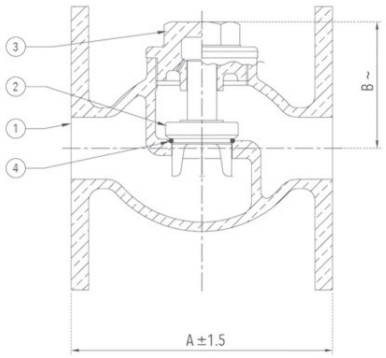



Test Pressure (Hydrostatic) :
Shell : 24 kg/cm²g (340 psig)
Seat : 16 kg/cm²g (225 psig)
Maximum Working Temperature : 80°C

**Suitable For**
Water, Oil

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Quantity |
|---|---|---|---|---|
| 1 | Body | Bronze | IS 318 Gr. LTB 2 | 1 |
| 2 | Disc | Bronze | IS 318 Gr. LTB 2 | 1 |
| 3 | Bonnet | Bronze | IS 318 Gr. LTB 2 | 1 |
| 4 | 'O' Ring | Nitrile Rubber | IS 5192 – 1 | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B ~ |
|---|---|---|---|
| 1/2 | 15 | 53 | 32 |
| 3/4 | 20 | 67 | 37 |
| 1 | 25 | 80 | 45 |
| 1 1/4 | 32 | 85 | 51 |
| 1 1/2 | 40 | 91 | 60 |
| 2 | 50 | 106 | 68 |

~ ±10

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# 1013 Bronze Horizontal Check Valve No.9 (Screwed)

## Salient Features

- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Screwed on Bonnet.
- Permits flow in one direction and closes automatically if the flow reverses.
- Renewable 13% Cr. Stainless Steel (S.S 410) working parts.
- Metal Disc is mushroom shaped with spherical seating surface.
- Meant for Horizontal Lines Only.
- Disc is guided in Bonnet.

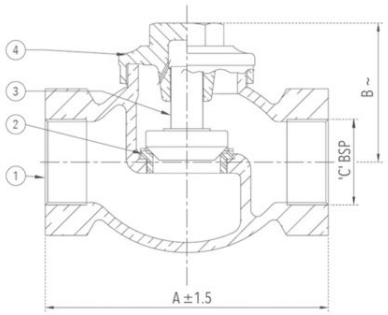



Test Pressure (Hydrostatic) :
Shell : 35 kg/cm²g (500 psig)
Working Pressure (Steam) : 10.55 kg/cm²g (150 psig)
Maximum Working Temperature : 225°C

**Suitable For**
Steam, Water, Oil, Air*, Gases*
*Also available with PTFE Seating for Air and Gas applications, at a nominal extra price.

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Quantity |
|---|---|---|---|---|
| 1 | Body | Bronze | IS 318 Gr. LTB 2 | 1 |
| 2 | Body Seat Ring | Stainless Steel | ASTM A276 Type 410 | 1 |
| 3 | Disc | Stainless Steel | ASTM A276 Type 410 | 1 |
| 4 | Bonnet | Bronze | IS 318 Gr. LTB 2 | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B ~ | C |
|---|---|---|---|---|
| 1/4 | 8 | 60 | 40 | 1/4″ |
| 3/8 | 10 | 60 | 43 | 3/8″ |
| 1/2 | 15 | 68 | 48 | 1/2″ |
| 3/4 | 20 | 84 | 50 | 3/4″ |
| 1 | 25 | 95 | 61 | 1″ |
| 1 1/4 | 32 | 106 | 72 | 1 1/4″ |
| 1 1/2 | 40 | 120 | 84 | 1 1/2″ |
| 2 | 50 | 146 | 93 | 2″ |
| 2 1/2 | 65 | 180 | 109 | 2 1/2″ |
| 3 | 80 | 200 | 121 | 3″ |
| 4 | 100 | 248 | 146 | 4″ |

~ ±10

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# 1014 Bronze Horizontal Check Valve No.9 (Flanged)

## Salient Features

- Flanged Ends to BS 10 Table 'F'.
- Screwed on Bonnet.
- Permits flow in one direction and closes automatically if the flow reverses.
- Renewable 13% Cr. Stainless Steel (S.S 410) working parts.
- Metal Disc is mushroom shaped with spherical seating surface.
- Meant for Horizontal Lines Only.
- Disc is guided in Bonnet.

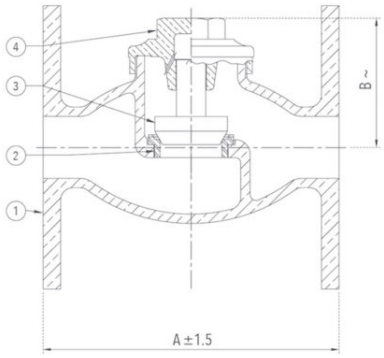



Test Pressure (Hydrostatic) :
Shell : 35 kg/cm²g (500 psig)
Working Pressure (Steam) : 10.55 kg/cm²g (150 psig)
Maximum Working Temperature : 225°C

**Suitable For**
Steam, Water, Oil, Air*, Gases*
*Also available with PTFE Seating for Air and Gas applications, at a nominal extra price.

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Quantity |
|---|---|---|---|---|
| 1 | Body | Bronze | IS 318 Gr. LTB 2 | 1 |
| 2 | Body Seat Ring | Stainless Steel | ASTM A276 Type 410 | 1 |
| 3 | Disc | Stainless Steel | ASTM A276 Type 410 | 1 |
| 4 | Bonnet | Bronze | IS 318 Gr. LTB 2 | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B ~ |
|---|---|---|---|
| 1/2 | 15 | 82 | 48 |
| 3/4 | 20 | 96 | 50 |
| 1 | 25 | 112 | 61 |
| 1 1/4 | 32 | 119 | 72 |
| 1 1/2 | 40 | 132 | 84 |
| 2 | 50 | 157 | 93 |
| 2 1/2 | 65 | 185 | 109 |
| 3 | 80 | 213 | 121 |
| 4 | 100 | 248 | 146 |

~ ±10

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# 1018 Bronze Ferrule Cock (Medium)

## Salient Features

- Screwed Male Ends (Inlet to BSPT and Outlet to BSP) to IS 554 / BS 21 / ISO 7.
- Medium Pattern, Rough Body, Full Flow.
- Metal to Metal contact seating.
- Can withstand heavy impact of water as well as tolerance of sudden pressure.

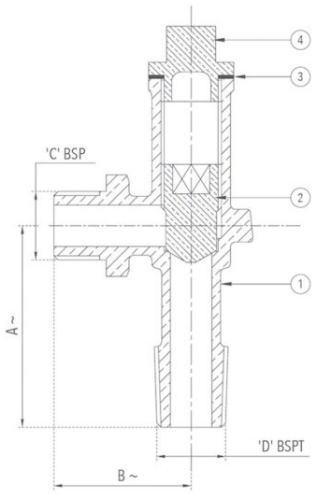


Test Pressure (Hydrostatic) :
Shell : 20 kg/cm²g (285 psig)
Seat : 13.5 kg/cm²g (192 psig)
Maximum Working Temperature : 225°C

**Suitable For**
Water

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Quantity |
|---|---|---|---|---|
| 1 | Body | Bronze | IS 318 Gr. LTB 2 | 1 |
| 2 | Plug | Bronze | IS 318 Gr. LTB 2 | 1 |
| 3 | Joint Washer | Leather | – – – | 1 |
| 4 | Cap | Bronze | IS 318 Gr. LTB 2 | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±5 | B ±5 | C | D |
|---|---|---|---|---|---|
| 1/4 | 8 | 57 | 35 | 1/4″ | 1/4″ |
| 3/8 | 10 | 60 | 36 | 3/8″ | 3/8″ |
| 1/2 | 15 | 57 | 37 | 1/2″ | 1/2″ |

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# 1019 Bronze Ferrule Cock (Heavy)

## Salient Features

- Screwed Male Ends (Inlet to BSPT and Outlet to BSP) to IS 554 / BS 21 / ISO 7.
- Heavy Pattern, Rough Body, Full Flow.
- Metal to Metal contact seating.
- Can withstand heavy impact of water as well as tolerance of high sudden pressure.

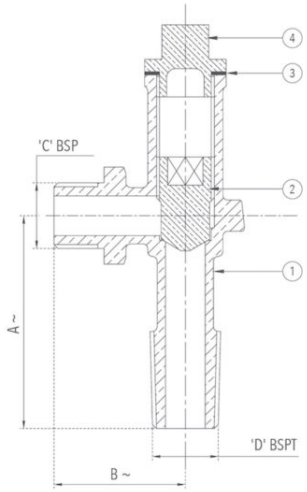


Test Pressure (Hydrostatic) :
Shell : 24 kg/cm²g (340 psig)
Seat : 16 kg/cm²g (225 psig)
Maximum Working Temperature : 225°C

**Suitable For**
Water

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Quantity |
|---|---|---|---|---|
| 1 | Body | Bronze | IS 318 Gr. LTB 2 | 1 |
| 2 | Plug | Bronze | IS 318 Gr. LTB 2 | 1 |
| 3 | Joint Washer | Leather | – – – | 1 |
| 4 | Cap | Bronze | IS 318 Gr. LTB 2 | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±5 | B ±5 | C | D |
|---|---|---|---|---|---|
| 1/2 | 15 | 70 | 42 | 1/2″ | 1/2″ |
| 3/4 | 20 | 75 | 50 | 3/4″ | 3/4″ |
| 1 | 25 | 80 | 60 | 1″ | 1″ |

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# 1022A Forged Brass Ball Bib Cock (Chrome Plated)

## Salient Features

- Screwed Male End to IS 554 / BS 21 / ISO 7.
- Provided with Hard Chrome Plated Brass Ball.
- Quarter Turn, Lever Operated.
- Chrome Finish.

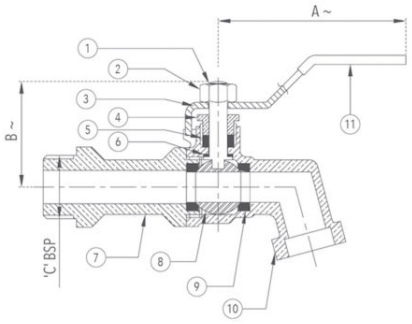


Test Pressure (Hydrostatic) :
Shell : 25 kg/cm²g (350 psig)
Seat : 16 kg/cm²g (225 psig)
Maximum Working Temperature : 220°C

**Suitable For**
Water

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Quantity |
|---|---|---|---|---|
| 1 | Stem | Forged Brass | IS 6912 Gr. FLB | 1 |
| 2 | Nut | Brass (Chrome Plated) | – – – | 1 |
| 3 | Lever | Mild Steel | – – – | 1 |
| 4 | Gland | Forged Brass | IS 6912 Gr. FLB | 1 |
| 5 | Gland Packing | PTFE | – – – | 1 |
| 6 | Thrust Washer | PTFE | – – – | 1 |
| 7 | Adaptor | Forged Brass | IS 6912 Gr. FLB | 1 |
| 8 | Ball | Forged Brass (Hard Chrome Plated) | IS 6912 Gr. FLB | 1 |
| 9 | Body Seat Ring | PTFE | – – – | 2 |
| 10 | Body | Forged Brass | IS 6912 Gr. FLB | 1 |
| 11 | Sleeve | PVC | – – – | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ~ | B ~ | C |
|---|---|---|---|---|
| 1/2 | 15 | 115 | 34 | 1/2″ |

~ ±10

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# 1024A Forged Brass Ball Bib Cock with Hose Union (Chrome Plated)

## Salient Features

- Screwed Male End to IS 554 / BS 21 / ISO 7.
- Provided with Chrome Plated Brass Ball.
- Sturdy Hose Union provided.
- Chrome Finish.

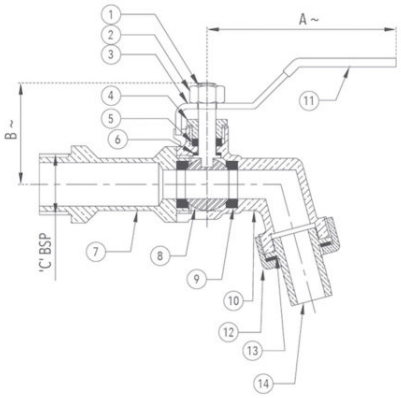


Test Pressure (Hydrostatic) :
Shell : 25 kg/cm²g (350 psig)
Seat : 16 kg/cm²g (225 psig)
Maximum Working Temperature : 220°C

**Suitable For**
Water

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Quantity |
|---|---|---|---|---|
| 1 | Stem | Forged Brass | IS 6912 Gr. FLB | 1 |
| 2 | Nut | Brass (Chrome Plated) | – – – | 1 |
| 3 | Lever | Mild Steel | – – – | 1 |
| 4 | Gland | Forged Brass | IS 6912 Gr. FLB | 1 |
| 5 | Gland Packing | PTFE | – – – | 1 |
| 6 | Thrust Washer | PTFE | – – – | 1 |
| 7 | Adaptor | Forged Brass | IS 6912 Gr. FLB | 1 |
| 8 | Ball | Forged Brass (Hard Chrome Plated) | IS 6912 Gr. FLB | 1 |
| 9 | Body Seat Ring | PTFE | – – – | 2 |
| 10 | Body | Forged Brass | IS 6912 Gr. FLB | 1 |
| 11 | Sleeve | PVC | – – – | 1 |
| 12 | Hose Nut | Forged Brass | IS 6912 Gr. FLB | 1 |
| 13 | Washer | Rubber | – – – | 1 |
| 14 | Hose Pipe | Forged Brass | IS 6912 Gr. FLB | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ~ | B ~ | C |
|---|---|---|---|---|
| 1/2 | 15 | 115 | 34 | 1/2″ |

~ ±10

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# 1031 Bronze Union Bonnet Globe Valve (Screwed)

## Salient Features

- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Screwed on Bonnet, Rising Stem.
- Provision for re-packing under pressure.
- Renewable 13% Cr. Stainless Steel (S.S 410) working parts.
- Handwheel Operated.

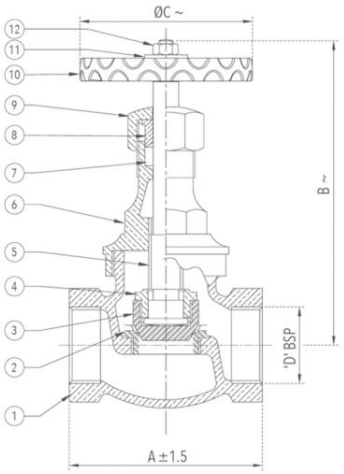


Test Pressure (Hydrostatic) :
Shell : 35 kg/cm²g (500 psig)
Working Pressure (Steam) : 10.55 kg/cm²g (150 psig)
Maximum Working Temperature : 225°C

**Suitable For**
Steam, Water, Oil, Air*, Gases*
*Also available with PTFE Seating for Air and Gas applications, at a nominal extra price.

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Quantity |
|---|---|---|---|---|
| 1 | Body | Bronze | IS 318 Gr. LTB 2 | 1 |
| 2 | Body Seat Ring | Stainless Steel | ASTM A276 Type 410 | 1 |
| 3 | Disc | Stainless Steel | ASTM A276 Type 410 | 1 |
| 4 | Disc Nut | Bronze | IS 318 Gr. LTB 2 | 1 |
| 5 | Stem | Stainless Steel | ASTM A276 Type 410 | 1 |
| 6 | Bonnet | Bronze | IS 318 Gr. LTB 2 | 1 |
| 7 | Gland Packing | Asbestos | - - - | - |
| 8 | Gland | Bronze | IS 318 Gr. LTB 2 | 1 |
| 9 | Gland Nut | Bronze | IS 318 Gr. LTB 2 | 1 |
| 10 | Handwheel | Cast Iron | IS 210 Gr. FG 200 | 1 |
| 11 | Washer | Carbon Steel | - - - | 1 |
| 12 | Nut | Carbon Steel | - - - | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B ~ | ØC ~ | D |
|---|---|---|---|---|---|
| 1/4 | 8 | 60 | 110 | 70 | 1/4″ |
| 3/8 | 10 | 60 | 110 | 70 | 3/8″ |
| 1/2 | 15 | 68 | 117 | 70 | 1/2″ |
| 3/4 | 20 | 84 | 132 | 80 | 3/4″ |
| 1 | 25 | 95 | 148 | 86 | 1″ |
| 1 1/4 | 32 | 106 | 176 | 102 | 1 1/4″ |
| 1 1/2 | 40 | 120 | 188 | 115 | 1 1/2″ |
| 2 | 50 | 146 | 216 | 127 | 2″ |
| 2 1/2 | 65 | 180 | 248 | 170 | 2 1/2″ |
| 3 | 80 | 200 | 270 | 170 | 3″ |
| 4 | 100 | 248 | 332 | 190 | 4″ |

~ ±10

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# 1032 Bronze Union Bonnet Globe Valve (Flanged)

## Salient Features

- Flanged Ends to BS 10 Table 'F'.
- Screwed on Bonnet, Rising Stem.
- Provision for re-packing under pressure.
- Renewable 13% Cr. Stainless Steel (S.S 410) working parts.
- Handwheel Operated.

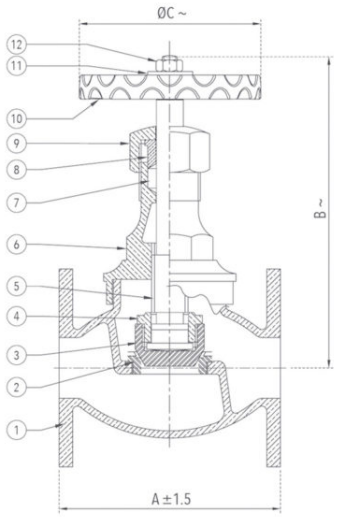


Test Pressure (Hydrostatic) :
Shell : 35 kg/cm²g (500 psig)
Working Pressure (Steam) : 10.55 kg/cm²g (150 psig)
Maximum Working Temperature : 225°C

**Suitable For**
Steam, Water, Oil, Air*, Gases*
*Also available with PTFE Seating for Air and Gas applications, at a nominal extra price.

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Quantity |
|---|---|---|---|---|
| 1 | Body | Bronze | IS 318 Gr. LTB 2 | 1 |
| 2 | Body Seat Ring | Stainless Steel | ASTM A276 Type 410 | 1 |
| 3 | Disc | Stainless Steel | ASTM A276 Type 410 | 1 |
| 4 | Disc Nut | Bronze | IS 318 Gr. LTB 2 | 1 |
| 5 | Stem | Stainless Steel | ASTM A276 Type 410 | 1 |
| 6 | Bonnet | Bronze | IS 318 Gr. LTB 2 | 1 |
| 7 | Gland Packing | Asbestos | - - - | - |
| 8 | Gland | Bronze | IS 318 Gr. LTB 2 | 1 |
| 9 | Gland Nut | Bronze | IS 318 Gr. LTB 2 | 1 |
| 10 | Hand Wheel | Cast Iron | IS 210 Gr. FG 200 | 1 |
| 11 | Washer | Carbon Steel | - - - | 1 |
| 12 | Nut | Carbon Steel | - - - | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B ~ | ØC ~ |
|---|---|---|---|---|
| 1/2 | 15 | 82 | 117 | 70 |
| 3/4 | 20 | 96 | 132 | 80 |
| 1 | 25 | 112 | 148 | 86 |
| 1 1/4 | 32 | 119 | 176 | 102 |
| 1 1/2 | 40 | 132 | 188 | 115 |
| 2 | 50 | 157 | 216 | 127 |
| 2 1/2 | 65 | 185 | 248 | 170 |
| 3 | 80 | 213 | 270 | 170 |
| 4 | 100 | 248 | 332 | 190 |

~ ±10

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# 1033 Bronze Globe Valve (Screwed)

IS 778
CM/L-0624644

## Salient Features

- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Screwed in Bonnet, Inside Screw, Rising Stem, Integral Seat.
- Provision for re-packing under pressure.
- Premium Quality PTFE Gland Packing.
- Design Standard IS 778, Class-1.
- Designed sheet metal handwheel for a firm grip and convenient operation.

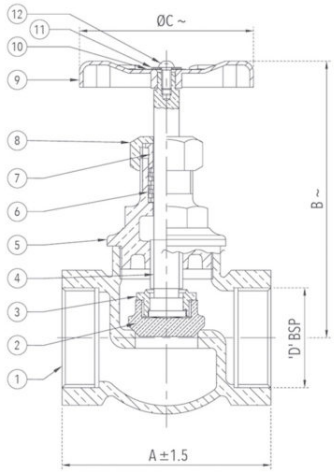


Test Pressure (Hydrostatic) :
Shell : 1.5 MPa
Seat & Back Seat : 1.0 MPa
Maximum Working Temperature : 45°C

**Suitable For**
Water, Oil
*Also available with Open-Shut Indicator & Locking Device and with PTFE Seating, at a nominal extra price.

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Quantity |
|---|---|---|---|---|
| 1 | Body | Bronze | IS 318 Gr. LTB 2 | 1 |
| 2 | Disc | Bronze | IS 318 Gr. LTB 2 | 1 |
| 3 | Disc Nut | Bronze | IS 318 Gr. LTB 2 | 1 |
| 4 | Stem | Forged Brass | IS 6912 Gr. FLB | 1 |
| 5 | Bonnet | Bronze | IS 318 Gr. LTB 2 | 1 |
| 6 | Gland Packing | PTFE | – – – | – |
| 7 | Gland | Forged Brass | IS 6912 Gr. FLB | 1 |
| 8 | Gland Nut | Forged Brass | IS 6912 Gr. FLB | 1 |
| 9 | Handwheel | Sheet Metal (Powder Coated) | – – – | 1 |
| 10 | Name Plate | Aluminium | – – – | 1 |
| 11 | Washer | Carbon Steel (Zinc Plated) | – – – | 1 |
| 12 | Screw / Bolt | Carbon Steel (Zinc Plated) | – – – | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B ~ | ØC ~ | D |
|---|---|---|---|---|---|
| 1/4 | 8 | 47 | 67 | 50 | 1/4″ |
| 3/8 | 10 | 50 | 70 | 50 | 3/8″ |
| 1/2 | 15 | 60 | 90 | 60 | 1/2″ |
| 3/4 | 20 | 70 | 105 | 65 | 3/4″ |
| 1 | 25 | 80 | 115 | 70 | 1″ |
| 1 1/4 | 32 | 95 | 127 | 80 | 1 1/4″ |
| 1 1/2 | 40 | 110 | 138 | 90 | 1 1/2″ |
| 2 | 50 | 125 | 162 | 110 | 2″ |
| 2 1/2 | 65 | 160 | 183 | 115 | 2 1/2″ |
| 3 | 80 | 180 | 207 | 140 | 3″ |
| 4 | 100 | 216 | 250 | 160 | 4″ |

~ ±10

**NOTE :** 1. For size 8 & 10 part number 2 and 3 is not applicable.
2. For size 15 and 20 part number 3 is not applicable.

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# 1034 Bronze Globe Valve (Flanged)

IS 778
CM/L-0624644

## Salient Features

- Flanged Ends to IS 778.
- Screwed in Bonnet, Inside Screw, Rising Stem, Integral Seat.
- Provision for re-packing under pressure.
- Premium Quality PTFE Gland Packing.
- Design Standard IS 778, Class-1.
- Designed sheet metal handwheel for a firm grip and convenient operation.

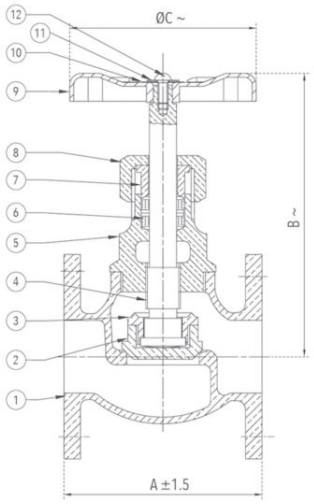


Test Pressure (Hydrostatic) :
Shell : 1.5 MPa
Seat & Back Seat : 1.0 MPa
Maximum Working Temperature : 45°C

**Suitable For**
Water, Oil
*Also available with Open-Shut Indicator & Locking Device and with PTFE Seating, at a nominal extra price.

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Quantity |
|---|---|---|---|---|
| 1 | Body | Bronze | IS 318 Gr. LTB 2 | 1 |
| 2 | Disc | Bronze | IS 318 Gr. LTB 2 | 1 |
| 3 | Disc Nut | Bronze | IS 318 Gr. LTB 2 | 1 |
| 4 | Stem | Forged Brass | IS 6912 Gr. FLB | 1 |
| 5 | Bonnet | Bronze | IS 318 Gr. LTB 2 | 1 |
| 6 | Gland Packing | PTFE | – – – | – |
| 7 | Gland | Forged Brass | IS 6912 Gr. FLB | 1 |
| 8 | Gland Nut | Forged Brass | IS 6912 Gr. FLB | 1 |
| 9 | Handwheel | Sheet Metal (Powder Coated) | – – – | 1 |
| 10 | Name Plate | Aluminium | – – – | 1 |
| 11 | Washer | Carbon Steel (Zinc Plated) | – – – | 1 |
| 12 | Screw / Bolt | Carbon Steel (Zinc Plated) | – – – | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B ~ | ØC ~ |
|---|---|---|---|---|
| 1/2 | 15 | 75 | 90 | 60 |
| 3/4 | 20 | 85 | 105 | 65 |
| 1 | 25 | 95 | 115 | 70 |
| 1 1/4 | 32 | 110 | 127 | 80 |
| 1 1/2 | 40 | 120 | 138 | 90 |
| 2 | 50 | 145 | 162 | 110 |
| 2 1/2 | 65 | 165 | 183 | 115 |
| 3 | 80 | 185 | 207 | 140 |
| 4 | 100 | 216 | 250 | 160 |

~ ±10

**NOTE:** For size 15 and 20 part number 3 is not applicable.

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# 1035 Bronze Gate Valve (Screwed)

IS 778
CM/L-0624644

## Salient Features



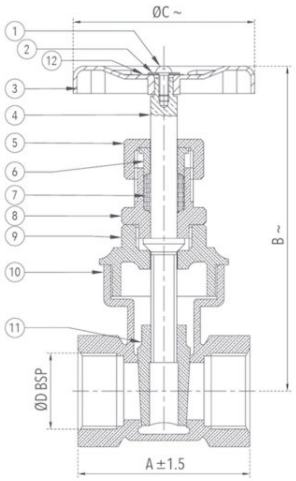
- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Screwed in Bonnet, Inside Screw, Non-Rising Stem, Integral Seat, Solid Wedge.
- Designed sheet metal handwheel for a firm grip and convenient operation.
- Premium Quality PTFE Gland Packing.
- Design Standard IS 778, Class-1.
- Provision for re-packing under pressure.

Test Pressure (Hydrostatic) :
Shell : 1.5 MPa
Seat & Back Seat : 1.0 MPa
Maximum Working Temperature : 45°C

**Suitable For**
Water, Oil
*Also available with Open-Shut Indicator and Locking Device, at a nominal extra price.

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Quantity |
|---|---|---|---|---|
| 1 | Screw / Bolt | Carbon Steel (Zinc Plated) | – – – | 1 |
| 2 | Washer | Carbon Steel (Zinc Plated) | – – – | 1 |
| 3 | Handwheel | Sheet Metal (Power Coated) | – – – | 1 |
| 4 | Stem | Forged Brass | IS 6912 Gr. FLB | 1 |
| 5 | Gland Nut | Forged Brass | IS 6912 Gr. FLB | 1 |
| 6 | Gland | Forged Brass | IS 6912 Gr. FLB | 1 |
| 7 | Gland Packing | PTFE | – – – | – |
| 8 | Stuffing Box | Forged Brass | IS 6912 Gr. FLB | 1 |
| 9 | Bonnet | Forged Brass | IS 6912 Gr. FLB | 1 |
| 10 | Body | Bronze | IS 318 Gr. LTB 2 | 1 |
| 11 | Wedge | Bronze | IS 318 Gr. LTB 2 | 1 |
| 12 | Name Plate | Aluminium | – – – | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B ~ | ØC ~ | D |
|---|---|---|---|---|---|
| 1/4 | 8 | 50 | 84 | 50 | 1/4″ |
| 3/8 | 10 | 50 | 89 | 50 | 3/8″ |
| 1/2 | 15 | 60 | 105 | 60 | 1/2″ |
| 3/4 | 20 | 60 | 117 | 65 | 3/4″ |
| 1 | 25 | 70 | 132 | 70 | 1″ |
| 1 1/4 | 32 | 80 | 150 | 80 | 1 1/4″ |
| 1 1/2 | 40 | 90 | 165 | 90 | 1 1/2″ |
| 2 | 50 | 100 | 190 | 110 | 2″ |
| 2 1/2 | 65 | 105 | 232 | 115 | 2 1/2″ |
| 3 | 80 | 125 | 268 | 140 | 3″ |
| 4 | 100 | 160 | 332 | 160 | 4″ |

~ ±10

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# 1035A Bronze Gate Valve Class-2 (Screwed)

IS 778
CM/L-0624644

## Salient Features

- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Screwed in Bonnet, Inside Screw, Non-Rising Stem, Integral Seat, Solid Wedge.
- Designed sheet metal handwheel for a firm grip and convenient operation.
- Premium Quality PTFE Gland Packing.
- Design Standard IS 778, Class-2.
- Provision for re-packing under pressure.

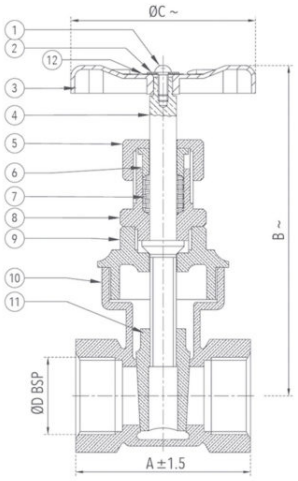


Test Pressure (Hydrostatic) :
Shell : 2.4 MPa
Seat & Back Seat : 1.6 MPa
Maximum Working Temperature : 45°C

**Suitable For**
Water, Oil
*Also available with Open-Shut Indicator and Locking Device, at a nominal extra price.

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Quantity |
|---|---|---|---|---|
| 1 | Screw / Bolt | Carbon Steel (Zinc Plated) | – – – | 1 |
| 2 | Washer | Carbon Steel (Zinc Plated) | – – – | 1 |
| 3 | Handwheel | Sheet Metal (Powder Coated) | – – – | 1 |
| 4 | Stem | Forged Brass | IS 6912 Gr. FLB | 1 |
| 5 | Gland Nut | Forged Brass / Bronze | IS 6912 Gr. FLB / IS 318 Gr. LTB 2 | 1 |
| 6 | Gland | Forged Brass | IS 6912 Gr. FLB | 1 |
| 7 | Gland Packing | PTFE | BSEN 12086 – 1 | – |
| 8 | Stuffing Box | Forged Brass | IS 6912 Gr. FLB | 1 |
| 9 | Bonnet | Forged Brass | IS 6912 Gr. FLB | 1 |
| 10 | Body | Bronze | IS 318 Gr. LTB 2 | 1 |
| 11 | Wedge | Bronze | IS 318 Gr. LTB 2 | 1 |
| 12 | Name Plate | Aluminium | – – – | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B ~ | ØC ~ | D |
|---|---|---|---|---|---|
| 1/4 | 8 | 50 | 84 | 50 | 1/4″ |
| 3/8 | 10 | 50 | 89 | 50 | 3/8″ |
| 1/2 | 15 | 60 | 105 | 60 | 1/2″ |
| 3/4 | 20 | 60 | 117 | 65 | 3/4″ |
| 1 | 25 | 70 | 132 | 70 | 1″ |
| 1 1/4 | 32 | 80 | 150 | 80 | 1 1/4″ |
| 1 1/2 | 40 | 90 | 165 | 90 | 1 1/2″ |
| 2 | 50 | 100 | 190 | 110 | 2″ |
| 2 1/2* | 65* | 105 | 232 | 117 | 2 1/2″ |
| 3* | 80* | 125 | 268 | 140 | 3″ |
| 4* | 100* | 160 | 332 | 160 | 4″ |

~ ±10

*Gland Nut for Size 65, 80 and 100 is of Bronze.

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# 1035B Bronze Gate Valve Rising Stem (Screwed)

## Salient Features

- Screwed female ends to IS 554 / BS21 / ISO – 7.
- Screwed in Bonnet, Inside Screw, Rising Stem, Integral Seat, Solid Wedge.
- Provision for Re-packing under pressure.
- Designed sheet metal handwheel for a firm grip and convenient operation.
- Premium quality PTFE Gland Packing.

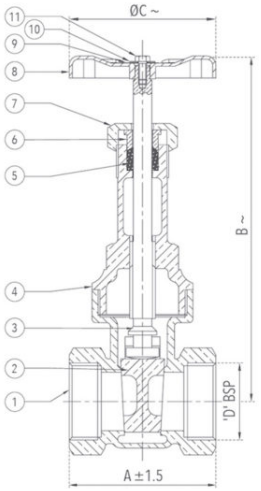


Test Pressure(Hydrostatic) Class-1 :
Shell : 1.5 Mpa
Seat & Back Seat : 1.0 Mpa
Maximum Working Temperature : 45°C

**Suitable For**
Water, Oil

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Quantity |
|---|---|---|---|---|
| 1 | Body | Bronze | IS 318 Gr. LTB 2 | 1 |
| 2 | Wedge | Bronze | IS 318 Gr. LTB 2 | 1 |
| 3 | Stem | Forged Brass | IS 6912 Gr. LTB 2 | 1 |
| 4 | Bonnet | Bronze | IS 318 Gr. LTB 2 | 1 |
| 5 | Gland Packing | PTFE | – – – | – |
| 6 | Gland | Forged Brass | IS 6912 Gr. FLB | 1 |
| 7 | Gland Nut | Forged Brass | IS 6912 Gr. FLB | – |
| 8 | Hand Wheel | Sheet Metal (Powder Coated) | – – – | 1 |
| 9 | Name Plate | Aluminium | – – – | 1 |
| 10 | Washer | Carbon Steel (Zinc Plated) | – – – | 1 |
| 11 | Screw/Bolt | Carbon Steel (Zinc Plated) | – – – | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B ~ | ØC ~ | D |
|---|---|---|---|---|---|
| 1/2 | 15 | 60 | 120 | 60 | 1/2″ |
| 3/4 | 20 | 60 | 128 | 65 | 3/4″ |
| 1 | 25 | 70 | 150 | 70 | 1″ |
| 1 1/4 | 32 | 80 | 188 | 80 | 1 1/4″ |
| 1 1/2 | 40 | 90 | 214 | 90 | 1 1/2″ |
| 2 | 50 | 100 | 243 | 110 | 2″ |
| 2 1/2 | 65 | 105 | 310 | 115 | 2 1/2″ |
| 3 | 80 | 125 | 360 | 140 | 3″ |
| 4 | 100 | 160 | 432 | 160 | 4″ |

~ ±10

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# 1036 Bronze Gate Valve (Flanged)

IS 778
CM/L-0624644

## Salient Features

- Flanged Ends to IS 778.
- Screwed in Bonnet, Inside Screw, Non-Rising Stem, Integral Seat, Solid Wedge.
- Designed sheet metal handwheel for a firm grip and convenient operation.
- Premium Quality PTFE Gland Packing.
- Provision for re-packing under pressure.
- Design Standard IS 778, Class-1.

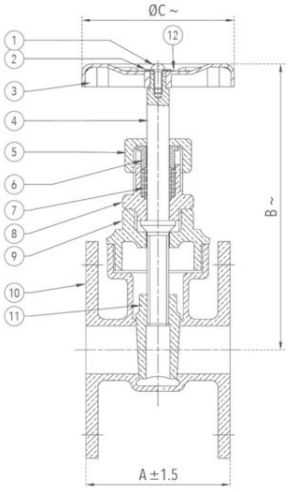


Test Pressure (Hydrostatic) :
Shell : 1.5 MPa
Seat & Back Seat : 1.0 MPa
Maximum Working Temperature : 45°C

**Suitable For**
Water, Oil
*Also available with Open-Shut Indicator and Locking Device, at a nominal extra price.

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Quantity |
|---|---|---|---|---|
| 1 | Screw / Bolt | Carbon Steel (Zinc Plated) | – – – | 1 |
| 2 | Washer | Carbon Steel (Zinc Plated) | – – – | 1 |
| 3 | Handwheel | Sheet Metal (Power Coated Paint) | – – – | 1 |
| 4 | Stem | Forged Brass | IS 6912 Gr. FLB | 1 |
| 5 | Gland Nut | Forged Brass | IS 6912 Gr. FLB | 1 |
| 6 | Gland | Forged Brass | IS 6912 Gr. FLB | 1 |
| 7 | Gland Packing | PTFE | – – – | – |
| 8 | Stuffing Box | Forged Brass | IS 6912 Gr. FLB | 1 |
| 9 | Bonnet | Forged Brass | IS 6912 Gr. FLB | 1 |
| 10 | Body | Bronze | IS 318 Gr. LTB 2 | 1 |
| 11 | Wedge | Bronze | IS 318 Gr. LTB 2 | 1 |
| 12 | Name Plate | Aluminium | – – – | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B ~ | ØC ~ |
|---|---|---|---|---|
| 1/2 | 15 | 72 | 105 | 60 |
| 3/4 | 20 | 76 | 117 | 65 |
| 1 | 25 | 90 | 132 | 70 |
| 1 1/4 | 32 | 100 | 140 | 80 |
| 1 1/2 | 40 | 110 | 172 | 90 |
| 2 | 50 | 120 | 190 | 110 |
| 2 1/2 | 65 | 140 | 214 | 115 |
| 3 | 80 | 150 | 268 | 140 |
| 4 | 100 | 190 | 323 | 160 |

~ ±10

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# 1037 Bronze Vertical Check Valve (Screwed)

IS 778
CM/L-0624644

## Salient Features

- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Single Piece Design.
- Meant for Vertical Lines Only.
- Permits flow in one direction and closes automatically if the flow reverses.
- Design Standard IS 778, Class-1.
- Also available with metal to metal seating.

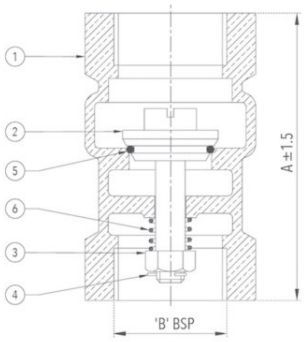


Test Pressure (Hydrostatic) :
Shell : 1.5 MPa
Seat : 0.25 MPa
Maximum Working Temperature : 45°C

**Suitable For**
Water, Oil

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Quantity |
|---|---|---|---|---|
| 1 | Body | Bronze | IS 318 Gr. LTB 2 | 1 |
| 2 | Disc | Bronze | IS 318 Gr. LTB 2 | 1 |
| 3 | Nut | Brass | IS 319 Gr. 2 (Half Hard) | 1 |
| 4 | Split Pin | Brass | – – – | 1 |
| 5 | 'O' Ring | Nitrile Rubber | IS 5192 – 1 | 1 |
| 6 | Spring | Stainless Steel | Type 304 | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B |
|---|---|---|---|
| 1/2 | 15 | 65 | 1/2″ |
| 3/4 | 20 | 70 | 3/4″ |
| 1 | 25 | 75 | 1″ |
| 1 1/4 | 32 | 85 | 1 1/4″ |
| 1 1/2 | 40 | 95 | 1 1/2″ |
| 2 | 50 | 110 | 2″ |

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# 1038 Bronze Horizontal Check Valve (Screwed)

IS 778 CM/L-0624644

## Salient Features

- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Screwed in Bonnet, meant for Horizontal Lines Only.
- Permits flow in one direction and shuts automatically if the flow reverses.
- Metal Disc is mushroom shaped with spherical seating surface.
- Disc is guided in Body as well as in Bonnet.
- Design Standard IS 778, Class-1.
- Also available with metal to metal seating.

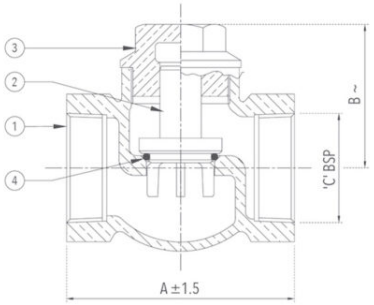


Test Pressure (Hydrostatic) :
Shell : 1.5 MPa
Seat : 0.25 MPa
Maximum Working Temperature : 45°C

**Suitable For**
Water, Oil

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Quantity |
|---|---|---|---|---|
| 1 | Body | Bronze | IS 318 Gr. LTB 2 | 1 |
| 2 | Disc | Bronze | IS 318 Gr. LTB 2 | 1 |
| 3 | Bonnet | Bronze / Forged Brass | IS 318 Gr. LTB 2 / IS 6912 Gr. FLB | 1 |
| 4 | 'O' Ring | Nitrile Rubber | IS 5192 – 1 | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B ~ | C |
|---|---|---|---|---|
| 1/2* | 15* | 60 | 40 | 1/2″ |
| 3/4* | 20* | 70 | 45 | 3/4″ |
| 1* | 25* | 80 | 55 | 1″ |
| 1 1/4 | 32 | 95 | 59 | 1 1/4″ |
| 1 1/2 | 40 | 110 | 65 | 1 1/2″ |
| 2 | 50 | 125 | 74 | 2″ |
| 2 1/2 | 65 | 160 | 85 | 2 1/2″ |
| 3 | 80 | 180 | 105 | 3″ |
| 4 | 100 | 216 | 131 | 4″ |

~ ±10

*Bonnet for Size 15, 20 and 25 is of Forged Brass.

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# 1039 Bronze Horizontal Check Valve (Flanged)

IS 778
CM/L-0624644

## Salient Features

- Flanged Ends to IS 778.
- Screwed in Bonnet, meant for Horizontal Lines Only.
- Permits flow in one direction and closes automatically if the flow reverses.
- Metal Disc is mushroom shaped with spherical seating surface.
- Disc is guided in Body as well as in Bonnet.
- Design Standard IS 778, Class-1.
- Also available with metal to metal seating.

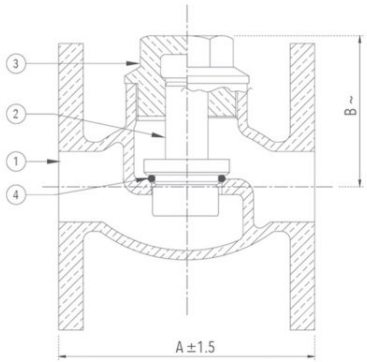


Test Pressure (Hydrostatic) :
Shell : 1.5 MPa
Seat : 0.25 MPa
Maximum Working Temperature : 45°C

**Suitable For**
Water, Oil

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Quantity |
|---|---|---|---|---|
| 1 | Body | Bronze | IS 318 Gr. LTB 2 | 1 |
| 2 | Disc | Bronze | IS 318 Gr. LTB 2 | 1 |
| 3 | Bonnet | Bronze / Forged Brass | IS 318 Gr. LTB 2 / IS 6912 Gr. FLB | 1 |
| 4 | 'O' Ring | Nitrile Rubber | IS 5192 – 1 | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B ~ |
|---|---|---|---|
| 1/2* | 15* | 75 | 40 |
| 3/4* | 20* | 85 | 45 |
| 1* | 25* | 95 | 55 |
| 1 1/4 | 32 | 110 | 59 |
| 1 1/2 | 40 | 120 | 65 |
| 2 | 50 | 145 | 74 |
| 2 1/2 | 65 | 165 | 85 |
| 3 | 80 | 185 | 105 |
| 4 | 100 | 216 | 131 |

~ ±10

*Bonnet for Size 15, 20 and 25 is of Forged Brass.

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# 1040A Bronze Compact Pressure Reducing Valve (Screwed)

## Salient Features



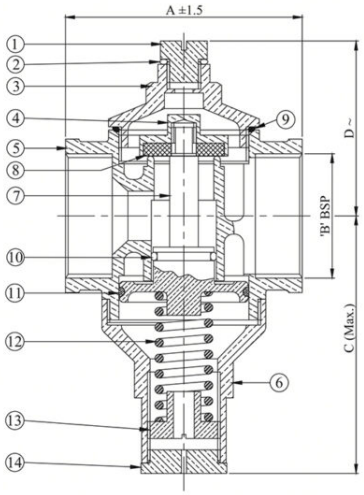
- Screwed Female Ends to IS 554/BS 21/ISO 7.
- Most ideal for sensitive & a consistent fluid regulation.
- Rugged body, compact sized, easy to install, rarely requires maintenance & virtually noiseless.
- Trim components have a distinct edge of being Hot Brass Forged.
- Provision provided to install a pressure gauge of 1/4" B.S.P size to measure/monitor the critically relevant Outlet Pressure.
- Designed to suit every application requiring accurate pressure ratings.
- No external source of energy required.
- All 'O' rings are of superior food grade rubber, hence ensuring absolute zero health hazard.

Test Pressure (Hydrostatic) :
Shell : 35 bar
Maximum Upstream Pressure : 25 bar
Maximum Working Temperature : 90°C
**NOTE :** At maximum inlet pressure 25 bar, the minimum outlet pressure will be 5.5 bar.

**Suitable For**
Water

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Quantity |
|---|---|---|---|---|
| 1 | Plug | Forged Brass | IS 6912 Gr. FLB | 1 |
| 2 | O – Ring | Nitrile Rubber | IS 5192 – 1 | 1 |
| 3 | Bonnet | Bronze | IS 318 Gr. LTB 2 | 1 |
| 4 | Disc Holder | Bronze | IS 318 Gr. LTB 2 | 1 |
| 5 | Body | Bronze | IS 318 Gr. LTB 2 | 1 |
| 6 | Chamber | Bronze | IS 318 Gr. LTB 2 | 1 |
| 7 | Piston | Bronze | IS 318 Gr. LTB 2 | 1 |
| 8 | Disc | Nitrile Rubber | IS 5192 – 1 | 1 |
| 9 | O – Ring / Gasket | PTFE (Gasket) | – – – | 1 |
| 10 | O – Ring | Nitrile Rubber | IS 5192 – 1 | 1 |
| 11 | O – Ring | Nitrile Rubber | IS 5192 – 1 | 1 |
| 12 | Spring | Spring Steel | EN 47 Gr. B | 1 |
| 13 | Adjustable Ring | Bronze | IS 318 Gr. LTB 2 | 1 |
| 14 | Cap / Locking Ring | Bronze (Locking Ring) | IS 318 Gr. LTB 2 | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B | C (Max.) | D ~ |
|---|---|---|---|---|---|
| 2 1/2 | 65 | 135 | 2 1/2″ | 160 | 97 |
| 3 | 80 | 160 | 3″ | 170 | 111 |
| 4 | 100 | 160 | 4″ | 185 | 125 |

~ ±10

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# 1040B Forged Brass Compact Pressure Reducing Value (Screwed)

## Salient Features



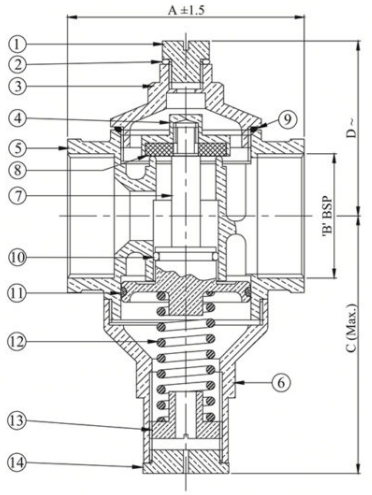
- Screwed Female Ends to IS 554/BS 21/ISO 7.
- Most ideal for sensitive & a consistent fluid regulation.
- Rugged body, compact sized, easy to install, rarely requires maintenance & virtually noiseless.
- Trim components have a distinct edge of being Hot Brass Forged.
- Provision provided to install a pressure gauge of 1/4" B.S.P size to measure/monitor the critically relevant Outlet Pressure.
- Designed to suit every application requiring accurate pressure ratings.
- No external source of energy required.
- All 'O' rings are of superior food grade rubber, hence ensuring absolute zero health hazard.

Test Pressure (Hydrostatic) :
Shell : 35 bar
Maximum Upstream Pressure : 25 bar
Maximum Working Temperature : 90°C
**NOTE :** At maximum inlet pressure 25 bar, the minimum outlet pressure will be 5.5 bar.

**Suitable For**
Water

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Quantity |
|---|---|---|---|---|
| 1 | Plug | Forged Brass | IS 6912 Gr. FLB | 1 |
| 2 | O – Ring | Nitrile Rubber | IS 5192 – 1 | 1 |
| 3 | Bonnet | Forged Brass | IS 6912 Gr. FLB | 1 |
| 4 | Disc Holder | Forged Brass | IS 6912 Gr. FLB | 1 |
| 5 | Body | Forged Brass | IS 6912 Gr. FLB | 1 |
| 6 | Chamber | Forged Brass | IS 6912 Gr. FLB | 1 |
| 7 | Piston | Forged Brass / Bronze | IS 6912 Gr. FLB / IS 318 Gr. LTB 2 | 1 |
| 8 | Disc | Nitrile Rubber | IS 5192 – 1 | 1 |
| 9 | O – Ring / Gasket | Nitrile Rubber (O – Ring) | IS 5192 – 1 | 1 |
| 10 | O – Ring | Nitrile Rubber | IS 5192 – 1 | 1 |
| 11 | O – Ring | Nitrile Rubber | IS 5192 – 1 | 1 |
| 12 | Spring | Spring Steel | EN 47 Gr. B | 1 |
| 13 | Adjustable Ring | Forged Brass | IS 6912 Gr. FLB | 1 |
| 14 | Cap / Locking Ring | PVC (Cap) | IS 15225 | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B | C (Max.) | D ~ |
|---|---|---|---|---|---|
| 1/2 | 15 | 62 | 1/2″ | 88 | 64 |
| 3/4 | 20 | 62 | 3/4″ | 88 | 64 |
| 1 | 25 | 86 | 1″ | 105 | 71 |
| 1 1/4 | 32 | 91 | 1 1/4″ | 110 | 75 |
| 1 1/2 | 40 | 91 | 1 1/2″ | 110 | 75 |
| 2 | 50 | 91 | 2″ | 115 | 82 |

~ ±10

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# 1041 Bronze Globe Steam Stop Valve (Screwed) I.B.R

## Salient Features

- Screwed Female Ends to BSPT.
- Straight Pattern, Screwed in Bonnet, Inside Screw, Rising Stem.
- Provision for re-packing under pressure.
- Handwheel Operated.
- Premium Quality lubricated Gland Packing.
- Renewable 13% Cr. Stainless Steel (S.S 410) working parts.
- Heat treated body seat ring and disc for extended life.

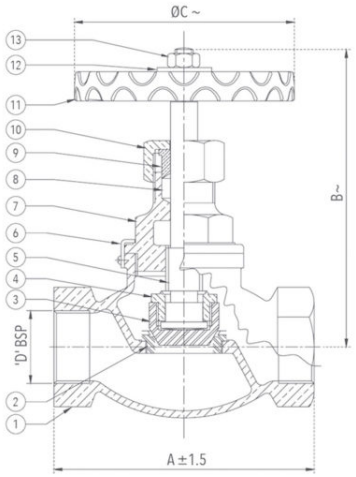


Test Pressure (Hydrostatic) :
Shell : 35.15 kg/cm²g (500 psig)
Working Pressure (Steam) : 17.58 kg/cm²g (250 psig)
Maximum Working Temperature : 225°C

**Suitable For**
Steam, Water

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Quantity |
|---|---|---|---|---|
| 1 | Body | Bronze | IBR 282 (a) (IV) Gr. B | 1 |
| 2 | Body Seat Ring | Stainless Steel | ASTM A276 Type 410 | 1 |
| 3 | Disc | Stainless Steel | ASTM A276 Type 410 | 1 |
| 4 | Disc Nut | Bronze | IBR 282 (a) (IV) Gr. B | 1 |
| 5 | Stem | Stainless Steel | ASTM A276 Type 410 | 1 |
| 6 | Safety Lock | Brass Sheet | IS 410 | 1 |
| 7 | Bonnet | Bronze | IBR 282 (a) (IV) Gr. B | 1 |
| 8 | Gland Packing | Asbestos | IS 4687 | – |
| 9 | Gland | Bronze | IBR 282 (a) (IV) Gr. B | 1 |
| 10 | Gland Nut | Bronze | IBR 282 (a) (IV) Gr. B | 1 |
| 11 | Handwheel | Cast Iron | IS 210 Gr. FG 200 | 1 |
| 12 | Washer | Carbon Steel | – – – | 1 |
| 13 | Nut | Carbon Steel | – – – | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B ~ | ØC ~ | D |
|---|---|---|---|---|---|
| 1/2 | 15 | 83 | 115 | 90 | 1/2″ |
| 3/4 | 20 | 95 | 115 | 90 | 3/4″ |
| 1 | 25 | 111 | 130 | 102 | 1″ |
| 1 1/4 | 32 | 133 | 160 | 127 | 1 1/4″ |
| 1 1/2 | 40 | 152 | 168 | 127 | 1 1/2″ |
| 2 | 50 | 178 | 185 | 150 | 2″ |

~ ±10

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# 1042 Bronze Globe Steam Stop Valve (Flanged) I.B.R

## Salient Features

- Flanged Ends to BS 10 Table 'H'.
- Straight Pattern, Screwed in Bonnet, Inside Screw, Rising Stem.
- Provision for re-packing under pressure.
- Handwheel Operated.
- Premium Quality lubricated Gland Packing.
- Renewable 13% Cr. Stainless Steel (S.S 410) working parts.
- Heat treated body seat ring and disc for extended life.

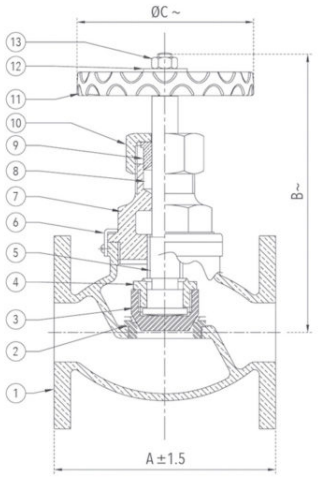


Test Pressure (Hydrostatic) :
Shell : 35.15 kg/cm²g (500 psig)
Working Pressure (Steam) : 17.58 kg/cm²g (250 psig)
Maximum Working Temperature : 225°C

**Suitable For**
Steam, Water

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Quantity |
|---|---|---|---|---|
| 1 | Body | Bronze | IBR 282 (a) (IV) Gr. B | 1 |
| 2 | Body Seat Ring | Stainless Steel | ASTM A276 Type 410 | 1 |
| 3 | Disc | Stainless Steel | ASTM A276 Type 410 | 1 |
| 4 | Disc Nut | Bronze | IBR 282 (a) (IV) Gr. B | 1 |
| 5 | Stem | Stainless Steel | ASTM A276 Type 410 | 1 |
| 6 | Safety Lock | Brass Sheet | IS 410 | 1 |
| 7 | Bonnet | Bronze | IBR 282 (a) (IV) Gr. B | 1 |
| 8 | Gland Packing | Asbestos | IS 4687 | – |
| 9 | Gland | Bronze | IBR 282 (a) (IV) Gr. B | 1 |
| 10 | Gland Nut | Bronze | IBR 282 (a) (IV) Gr. B | 1 |
| 11 | Handwheel | Cast Iron | IS 210 Gr. FG 200 | 1 |
| 12 | Washer | Carbon Steel | – – – | 1 |
| 13 | Nut | Carbon Steel | – – – | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B ~ | ØC ~ |
|---|---|---|---|---|
| 1/2 | 15 | 102 | 115 | 90 |
| 3/4 | 20 | 114 | 115 | 90 |
| 1 | 25 | 127 | 130 | 102 |
| 1 1/4 | 32 | 140 | 160 | 127 |
| 1 1/2 | 40 | 152 | 168 | 127 |
| 2 | 50 | 178 | 185 | 150 |

~ ±10

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# 1043 Bronze Horizontal Lift Check Valve (Screwed) I.B.R

## Salient Features

- Screwed Female Ends to BSPT.
- Straight Pattern, Screwed / Bolted Cover.
- Renewable 13% Cr. Stainless Steel (S.S 410) working parts.

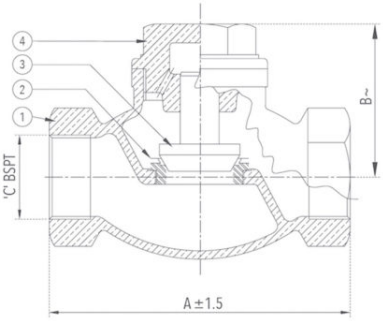



Test Pressure (Hydrostatic) :
Shell : 35.15 kg/cm²g (500 psig)
Working Pressure (Steam) : 17.58 kg/cm²g (250 psig)
Maximum Working Temperature : 225°C

**Suitable For**
Steam, Water

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Quantity |
|---|---|---|---|---|
| 1 | Body | Bronze | IBR 282 (a) (iv) Gr. B | 1 |
| 2 | Body Seat Ring | Stainless Steel | ASTM A276 Type 410 | 1 |
| 3 | Disc | Stainless Steel | ASTM A276 Type 410 | 1 |
| 4 | Cover | Bronze | IBR 282 (a) (iv) Gr. B | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B ~ | C |
|---|---|---|---|---|
| 1/2 | 15 | 83 | 55 | 1/2″ |
| 3/4 | 20 | 95 | 55 | 3/4″ |
| 1 | 25 | 111 | 65 | 1″ |
| 1 1/4 | 32 | 133 | 78 | 1 1/4″ |
| 1 1/2 | 40 | 152 | 82 | 1 1/2″ |
| 2 | 50 | 178 | 91 | 2″ |

~ ±10

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# 1044 Bronze Horizontal Lift Check Valve (Flanged) I.B.R

## Salient Features

- Flanged Ends to BS 10 Table 'H'.
- Straight Pattern, Screwed / Bolted Cover.
- Renewable 13% Cr. Stainless Steel (S.S 410) working parts.

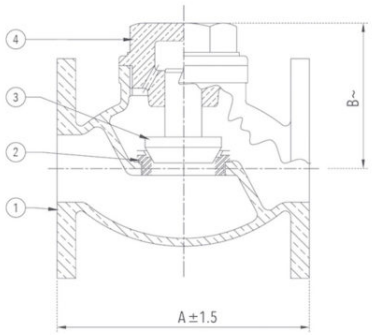


Test Pressure (Hydrostatic) :
Shell 35.15 kg/cm²g (500 psig)
Working Pressure (Steam) : 17.58 kg/cm²g (250 psig)
Maximum Working Temperature : 225°C

**Suitable For**
Steam, Water

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Quantity |
|---|---|---|---|---|
| 1 | Body | Bronze | IBR 282 (a) (iv) Gr. B | 1 |
| 2 | Body Seat Ring | Stainless Steel | ASTM A276 Type 410 | 1 |
| 3 | Disc | Stainless Steel | ASTM A276 Type 410 | 1 |
| 4 | Cover | Bronze | IBR 282 (a) (iv) Gr. B | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B ~ |
|---|---|---|---|
| 1/2 | 15 | 102 | 55 |
| 3/4 | 20 | 114 | 55 |
| 1 | 25 | 127 | 65 |
| 1 1/4 | 32 | 140 | 78 |
| 1 1/2 | 40 | 152 | 82 |
| 2 | 50 | 178 | 91 |

~ ±10

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# 1045 Bronze Vertical Lift Check Valve (Screwed) I.B.R

## Salient Features

- Screwed Female Ends to BSPT.
- Renewable 13% Cr. Stainless Steel (S.S 410) working parts.
- Two Piece Design.

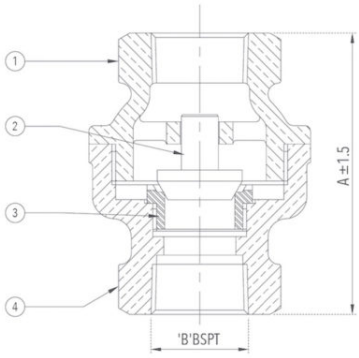



Test Pressure (Hydrostatic) :
Shell 35.15 kg/cm²g (500 psig)
Working Pressure (Steam) : 17.58 kg/cm²g (250 psig)
Maximum Working Temperature : 225°C

**Suitable For**
Steam, Water

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Quantity |
|---|---|---|---|---|
| 1 | Outlet Body | Bronze | IBR 282 (a) (iv) Gr. B | 1 |
| 2 | Disc | Stainless Steel | ASTM A276 Type 410 | 1 |
| 3 | Body Seat Ring | Stainless Steel | ASTM A276 Type 410 | 1 |
| 4 | Inlet Body | Bronze | IBR 282 (a) (iv) Gr. B | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B |
|---|---|---|---|
| 1/2 | 15 | 73 | 1/2″ |
| 3/4 | 20 | 76 | 3/4″ |
| 1 | 25 | 90 | 1″ |
| 1 1/4 | 32 | 114 | 1 1/4″ |
| 1 1/2 | 40 | 127 | 1 1/2″ |
| 2 | 50 | 152 | 2″ |

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# 1046 Bronze Vertical Lift Check Valve (Flanged) I.B.R

## Salient Features

- Flanged Ends to BS 10 Table 'H'.
- Renewable 13% Cr. Stainless Steel (S.S 410) working parts.
- Two Piece Design.

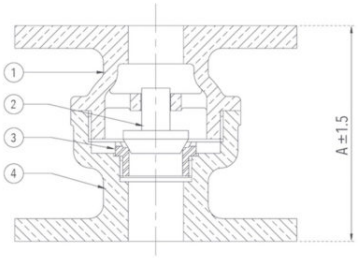


Test Pressure (Hydrostatic) :
Shell : 35.15 kg/cm²g (500 psig)
Working Pressure (Steam) : 17.58 kg/cm²g (250 psig)
Maximum Working Temperature : 225°C

**Suitable For**
Steam, Water

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Quantity |
|---|---|---|---|---|
| 1 | Outlet Body | Bronze | IBR 282 (a) (iv) Gr. B | 1 |
| 2 | Disc | Stainless Steel | ASTM A276 Type 410 | 1 |
| 3 | Body Seat Ring | Stainless Steel | ASTM A276 Type 410 | 1 |
| 4 | Inlet Body | Bronze | IBR 282 (a) (iv) Gr. B | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 |
|---|---|---|
| 1/2 | 15 | 70 |
| 3/4 | 20 | 76 |
| 1 | 25 | 95 |
| 1 1/4 | 32 | 102 |
| 1 1/2 | 40 | 123 |
| 2 | 50 | 140 |

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# 1047 Bronze Asbestos Packed Water Level Gauge (Screwed) I.B.R

## Salient Features

- Screwed Male End to BSP.
- Asbestos Gland Packing.
- Set available for both, Right Hand and Left Hand operations.
- Polished Body.

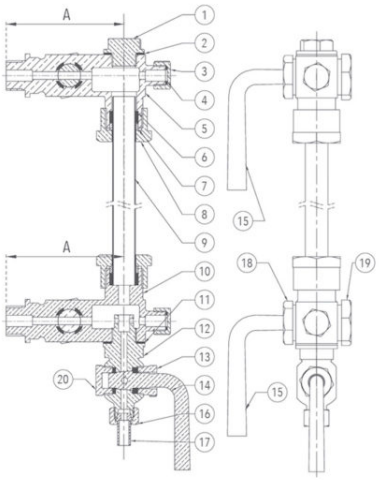


Test Pressure (Hydrostatic) :
Shell : 21.10 kg/cm²g (300 psig)
Working Pressure (Steam) : 10.55 kg/cm²g (150 psig).
Maximum Working Temperature : 225°C

**Suitable For**
Steam, Water

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Quantity |
|---|---|---|---|---|
| 1 | Plug | Bronze | IBR 282 (a) (iv) Gr. B | 1 |
| 2 | Gasket | Steam Jointing Sheet | IS 2712 Gr. W/3 | 1 |
| 3 | Lock Nut | Bronze | IBR 282 (a) (iv) Gr. B | 2 |
| 4 | Gasket | Steam Jointing Sheet | IS 2712 Gr. W/3 | 2 |
| 5 | Upper Arm | Bronze | IBR 282 (a) (iv) Gr. B | 1 |
| 6 | Gland Packing | Graphite Asbestos | IS 4687 | – |
| 7 | Gland | Bronze | IBR 282 (a) (iv) Gr. B | 2 |
| 8 | Gland Nut | Bronze | IBR 282 (a) (iv) Gr. B | 2 |
| 9 | Glass Tube* | Toughened Glass | – – – | 1 |
| 10 | Lower Arm | Bronze | IBR 282 (a) (iv) Gr. B | 1 |
| 11 | Gasket | Steam Jointing Sheet | IS 2712 Gr. W/3 | 1 |
| 12 | Drain Valve | Bronze | IBR 282 (a) (iv) Gr. B | 1 |
| 13 | Lock Nut | Bronze | IBR 282 (a) (iv) Gr. B | 1 |
| 14 | Handle | Bronze | IBR 282 (a) (iv) Gr. B | 1 |
| 15 | Handle | Bronze | IBR 282 (a) (iv) Gr. B | 2 |
| 16 | Union Nut | Bronze | IBR 282 (a) (iv) Gr. B | 1 |
| 17 | Tail Pipe | Bronze | IBR 282 (a) (iv) Gr. B | 1 |
| 18 | Lock Nut | Bronze | IBR 282 (a) (iv) Gr. B | 2 |
| 19 | Bottom Nut | Bronze | IBR 282 (a) (iv) Gr. B | 2 |
| 20 | Bottom Nut | Bronze | IBR 282 (a) (iv) Gr. B | 1 |




* Glass Tube is not provided with this product.

## Sizes / Dimensions

| Size (Inches) | Size (mm) | A |
|---|---|---|
| 1/2 | 15 | 102 |
| 3/4 | 20 | 125 |

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# 1048 Bronze Asbestos Packed Water Level Gauge (Flanged) I.B.R

## Salient Features

- Flanged End to BS 10 Table 'F'.
- Asbestos Gland Packing.
- Set available for both, Right Hand and Left Hand operations.
- Polished Body.

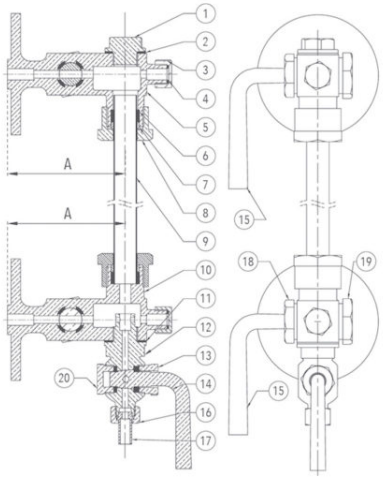


Test Pressure (Hydrostatic) :
Shell : 21.10 kg/cm²g (300 psig)
Working Pressure (Steam) : 10.55 kg/cm²g (150 psig)
Maximum Working Temperature : 225°C

**Suitable For**
Steam, Water

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Quantity |
|---|---|---|---|---|
| 1 | Plug | Bronze | IBR 282 (a) (iv) Gr. B | 1 |
| 2 | Gasket | Steam Jointing Sheet | IS 2712 Gr. W/3 | 1 |
| 3 | Lock Nut | Bronze | IBR 282 (a) (iv) Gr. B | 2 |
| 4 | Gasket | Steam Jointing Sheet | IS 2712 Gr. W/3 | 2 |
| 5 | Upper Arm | Bronze | IBR 282 (a) (iv) Gr. B | 1 |
| 6 | Gland Packing | Graphite Asbestos | IS 4687 | – |
| 7 | Gland | Bronze | IBR 282 (a) (iv) Gr. B | 2 |
| 8 | Gland Nut | Bronze | IBR 282 (a) (iv) Gr. B | 2 |
| 9 | Glass Tube* | Toughened Glass | – – – | 1 |
| 10 | Lower Arm | Bronze | IBR 282 (a) (iv) Gr. B | 1 |
| 11 | Gasket | Steam Jointing Sheet | IS 2712 Gr. W/3 | 1 |
| 12 | Drain Valve | Bronze | IBR 282 (a) (iv) Gr. B | 1 |
| 13 | Lock Nut | Bronze | IBR 282 (a) (iv) Gr. B | 1 |
| 14 | Handle | Bronze | IBR 282 (a) (iv) Gr. B | 1 |
| 15 | Handle | Bronze | IBR 282 (a) (iv) Gr. B | 2 |
| 16 | Union Nut | Bronze | IBR 282 (a) (iv) Gr. B | 1 |
| 17 | Tail Pipe | Bronze | IBR 282 (a) (iv) Gr. B | 1 |
| 18 | Lock Nut | Bronze | IBR 282 (a) (iv) Gr. B | 2 |
| 19 | Bottom Nut | Bronze | IBR 282 (a) (iv) Gr. B | 2 |
| 20 | Bottom Nut | Bronze | IBR 282 (a) (iv) Gr. B | 1 |




* Glass Tube is not provided with this product.

## Sizes / Dimensions

| Size (Inches) | Size (mm) | A |
|---|---|---|
| 1/2 | 15 | 77 |
| 3/4 | 20 | 96 |

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# 1049 Bronze Sleeve Packed Water Level Gauge (Screwed) I.B.R

## Salient Features



- Screwed Male End to BSP.
- Automatic Shut Off Device in Water Arm.
- Set available for both, Right Hand and Left Hand operations.
- Premium Quality Sleeve, Reinforced by metallic eye holes provided to avoid any clogging of passage.
- Each piece is fitted with self adjusting inverted taper plug (Stainless Steel) which forms a seal in the renewable moulded asbestos sleeve.
- Sleeve can easily be positioned by a rib which fits in the corresponding groove of the body.

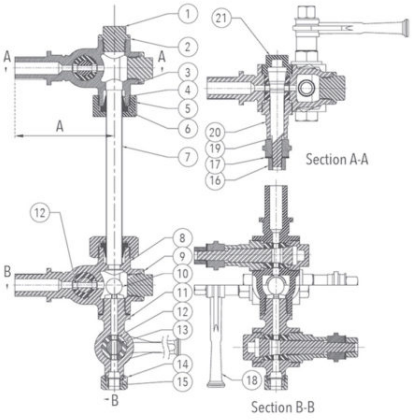
Test Pressure (Hydrostatic) :
Shell : 35.15 kg/cm²g (500 psig)
Working Pressure (Steam) : 17.58 kg/cm²g (250 psig)
Maximum Working Temperature : 225°C

**Suitable For**
Steam, Water

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Quantity |
|---|---|---|---|---|
| 1 | Plug | Bronze | IBR 282 (a) (iv) Gr. B | 2 |
| 2 | Gasket | Steam Jointing Sheet | IS 2712 Gr. W/3 | 4 |
| 3 | Upper Arm | Bronze | IBR 282 (a) (iv) Gr. B | 1 |
| 4 | Cone | Synthetic Rubber | IS 5192-1 | 2 |
| 5 | Nut | Bronze | IBR 282 (a) (iv) Gr. B | 2 |
| 6 | Washer | Bronze | IBR 282 (a) (iv) Gr. B | 2 |
| 7 | Glass Tube* | Toughened Glass | – – – | 1 |
| 8 | Lower Arm | Bronze | IBR 282 (a) (iv) Gr. B | 1 |
| 9 | Plug | Bronze | IBR 282 (a) (iv) Gr. B | 1 |
| 10 | Ball | Stainless Steel | ASTM A 276 Type 304 | 1 |
| 11 | Drain Valve | Bronze | IBR 282 (a) (iv) Gr. B | 1 |
| 12 | Sleeve Bush | Bronze | IBR 282 (a) (iv) Gr. B | 6 |
| 13 | Sleeve | Moulded Asbestos | – – – | 3 |
| 14 | Union Nut | Bronze | IBR 282 (a) (iv) Gr. B | 1 |
| 15 | Nipple | Bronze | IBR 282 (a) (iv) Gr. B | 1 |
| 16 | Nut | Carbon Steel | – – – | 3 |
| 17 | Name Plate | Brass / Aluminium | – – – | 3 |
| 18 | Handle | Bronze | IBR 282 (a) (iv) Gr. B | 3 |
| 19 | Stem | Stainless Steel | ASTM A 276 Type 410 | 3 |
| 20 | Bonnet | Bronze | IBR 282 (a) (iv) Gr. B | 3 |
| 21 | Lock Nut | Bronze | IBR 282 (a) (iv) Gr. B | 3 |

* Glass Tube is not provided with this product.




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A |
|---|---|---|
| 1/2 | 15 | 118 |
| 3/4 | 20 | 118 |

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# 1050 Bronze Sleeve Packed Water Level Gauge (Flanged) I.B.R

## Salient Features



- Flanged End to BS 10 Table 'H'.
- Automatic Shut Off Device in Water Arm.
- Set available for both, Right Hand and Left Hand operations.
- Premium Quality Sleeve, Reinforced by metallic eye holes provided to avoid any clogging of passage.
- Each piece is fitted with self adjusting inverted taper plug (Stainless Steel) which forms a seal in the renewable moulded asbestos sleeve.
- Sleeve can easily be positioned by a rib which fits in the corresponding groove of the body.

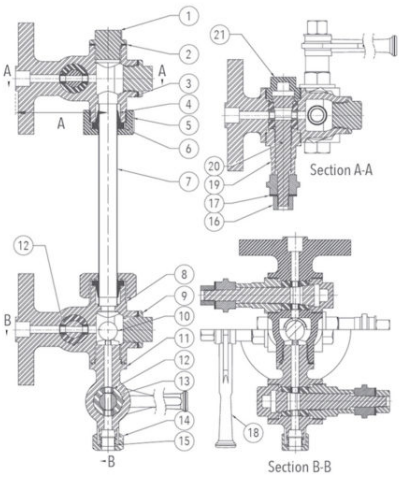
Test Pressure (Hydrostatic) :
Shell : 35.15 kg/cm²g (500 psig)
Working Pressure (Steam) : 17.58 kg/cm²g (250 psig)
Maximum Working Temperature : 225°C

**Suitable For**
Steam, Water

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Quantity |
|---|---|---|---|---|
| 1 | Plug | Bronze | IBR 282 (a) (iv) Gr. B | 2 |
| 2 | Gasket | Steam Jointing Sheet | IS 2712 Gr. W/3 | 4 |
| 3 | Upper Arm | Bronze | IBR 282 (a) (iv) Gr. B | 1 |
| 4 | Cone | Synthetic Rubber | IS 5192-1 | 2 |
| 5 | Nut | Bronze | IBR 282 (a) (iv) Gr. B | 2 |
| 6 | Washer | Bronze | IBR 282 (a) (iv) Gr. B | 2 |
| 7 | Glass Tube* | Toughened Glass | – – – | 1 |
| 8 | Lower Arm | Bronze | IBR 282 (a) (iv) Gr. B | 1 |
| 9 | Plug | Bronze | IBR 282 (a) (iv) Gr. B | 1 |
| 10 | Ball | Stainless Steel | ASTM A 276 Type 304 | 1 |
| 11 | Drain Valve | Bronze | IBR 282 (a) (iv) Gr. B | 1 |
| 12 | Sleeve Bush | Bronze | IBR 282 (a) (iv) Gr. B | 6 |
| 13 | Sleeve | Moulded Asbestos | – – – | 3 |
| 14 | Union Nut | Bronze | IBR 282 (a) (iv) Gr. B | 1 |
| 15 | Nipple | Bronze | IBR 282 (a) (iv) Gr. B | 1 |
| 16 | Nut | Carbon Steel | – – – | 3 |
| 17 | Name Plate | Brass / Aluminium | – – – | 3 |
| 18 | Handle | Bronze | IBR 282 (a) (iv) Gr. B | 3 |
| 19 | Stem | Stainless Steel | ASTM A276 Type 410 | 3 |
| 20 | Bonnet | Bronze | IBR 282 (a) (iv) Gr. B | 3 |
| 21 | Lock Nut | Bronze | IBR 282 (a) (iv) Gr. B | 3 |

* Glass Tube is not provided with this product.




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A |
|---|---|---|
| 1/2 | 15 | 80 |
| 3/4 | 20 | 92 |

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## Salient Features

**Suitable For**

Photo Not Available

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# 1052 Bronze Parallel Slide Blow Off Valve (Flanged) I.B.R

## Salient Features

- Flanged Ends to BS 10 Table 'H'.
- Maintains fluid tightness and easy in operation because of sliding action of discs.
- Discs are kept in close contact with body rings by means of a spring when the valve is under pressure.
- Premium Quality lubricated Gland Packing.
- Bolted Bonnet.
- Valve is operated by means of Rack and Pinion arrangement, in such a manner that valve is opened fully with half turn of the box key.
- Gland forms a locking guard which prevents removal of the key unless the valve is closed.

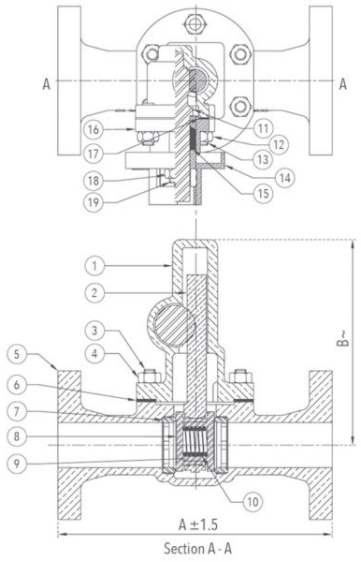


Test Pressure (Hydrostatic) :
Shell : 35.15 kg/cm²g (500 psig)
Working Pressure (Steam) : 17.58 kg/cm²g (250 psig)
Maximum Working Temperature : 225°C

**Suitable For**
Steam, Water

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Quantity |
|---|---|---|---|---|
| 1 | Bonnet | Bronze | IBR 282 (a) (iv) Gr. B | 1 |
| 2 | Rack | Bronze | IBR 282 (a) (iv) Gr. B | 1 |
| 3 | Studs | Alloy Steel | ASTM A193 Gr. B7 | As Reqd. |
| 4 | Nuts | H.T Steel | ASTM A194 Gr. 2H | As Reqd. |
| 5 | Body | Bronze | IBR 282 (a) (iv) Gr. B | 1 |
| 6 | Gasket | Steam Joining Sheet | IS 2712 Gr. W/3 | 1 |
| 7 | Body Seat Ring | Stainless Steel | ASTM A 276 Type 410 | 1 |
| 8 | Male Disc | Stainless Steel | ASTM A 276 Type 410 | 1 |
| 9 | Female Disc | Stainless Steel | ASTM A 276 Type 410 | 1 |
| 10 | Spring | Stainless Steel | IS 4454 Part 4 Gr. 2 | 1 |
| 11 | Pinion | Stainless Steel | ASTM A 276 Type 410 | 1 |
| 12 | Nuts | H.T. Steel | ASTM A194 Gr. 2H | As Reqd. |
| 13 | Studs | Alloy Steel | ASTM A193 Gr. B7 | As Reqd. |
| 14 | Gland | Bronze | IBR 282 (a) (iv) Gr. B | 1 |
| 15 | Gland Packing | Graphited Asbestos | IS 4687 | – |
| 16 | Stuffing Box | Bronze | IBR 282 (a) (iv) Gr. B | 1 |
| 17 | Gasket | Steam Joining Sheet | IS 2712 Gr. W/3 | 1 |
| 18 | Nuts | H.T. Steel | ASTM A194 Gr. 2H | As Reqd. |
| 19 | Studs | Alloy Steel | ASTM A193 Gr. B7 | As Reqd. |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B ~ |
|---|---|---|---|
| 1 | 25 | 169 | 138 |
| 1 1/4 | 32 | 178 | 157 |
| 1 1/2 | 40 | 190 | 204 |
| 2 | 50 | 206 | 206 |

~ ±10

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# 1053 Bronze Y-Type Strainer (Screwed) I.B.R

## Salient Features

- Screwed Female Ends to BSPT.
- Stainless Steel (S.S 304) Ø1 mm perforated sheet screen is guided in the body and cover.
- Fine finish and smooth contours reduce pressure drop in the strainer.
- Large screening area makes the strainer efficient in performance.

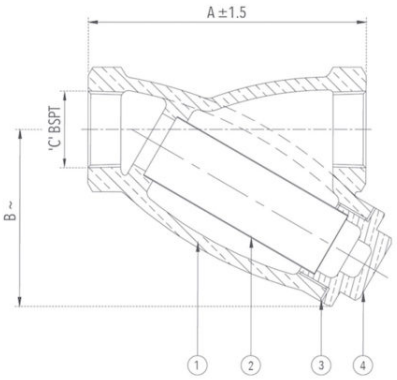



Test Pressure (Hydrostatic) :
Shell : 35.15 kg/cm²g (500 psig)
Working Pressure (Steam) : 17.58 kg/cm²g (250 psig)
Maximum Working Temperature : 225°C

**Suitable For**
Steam, Water

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Quantity |
|---|---|---|---|---|
| 1 | Body | Bronze | IBR 282 (a) (iv) Gr. B | 1 |
| 2 | Screen (Ø1 mm Perforation) | Stainless Steel | Type 304 | 1 |
| 3 | Gasket | Steam Jointing Sheet | IS 2712 Gr. W/3 | 1 |
| 4 | Cover | Bronze | IBR 282 (a) (iv) Gr. B | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B ~ | C |
|---|---|---|---|---|
| 1/2 | 15 | 76 | 56 | 1/2″ |
| 3/4 | 20 | 98 | 67 | 3/4″ |
| 1 | 25 | 133 | 97 | 1″ |
| 1 1/4 | 32 | 152 | 108 | 1 1/4″ |
| 1 1/2 | 40 | 178 | 116 | 1 1/2″ |
| 2 | 50 | 222 | 140 | 2″ |

~ ±10

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# 1054 Bronze Y-Type Strainer (Flanged) I.B.R

## Salient Features

- Flanged Ends to BS 10 Table 'H'.
- Stainless Steel (S.S 304) Ø1 mm perforated sheet screen is guided in the body and cover.
- Fine finish and smooth contours reduce pressure drop in the strainer.
- Large screening area makes the strainer efficient in performance.

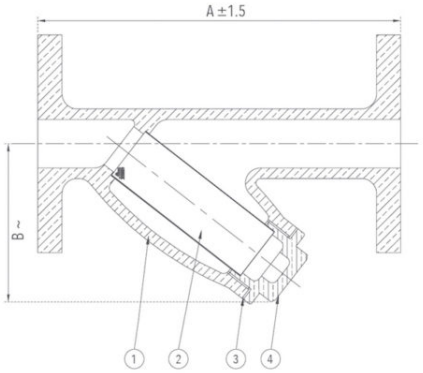


Test Pressure (Hydrostatic) :
Shell : 35.15 kg/cm²g (500 psig)
Working Pressure (Steam) : 17.58 kg/cm²g (250 psig)
Maximum Working Temperature : 225°C

**Suitable For**
Steam, Water

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Quantity |
|---|---|---|---|---|
| 1 | Body | Bronze | IBR 282 (a) (iv) Gr. B | 1 |
| 2 | Screen (Ø1 mm Perforation) | Stainless Steel | Type 304 | 1 |
| 3 | Gasket | Steam Jointing Sheet | IS 2712 Gr. W/3 | 1 |
| 4 | Cover | Bronze | IBR 282 (a) (iv) Gr. B | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B ~ |
|---|---|---|---|
| 1/2 | 15 | 136 | 68 |
| 3/4 | 20 | 140 | 85 |
| 1 | 25 | 162 | 110 |
| 1 1/4 | 32 | 178 | 120 |
| 1 1/2 | 40 | 203 | 145 |
| 2 | 50 | 203 | 188 |

~ ±10

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## Salient Features

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## Salient Features

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# 1065 Cast Iron Globe Steam Stop Valve Straight Pattern (Flanged) I.B.R

## Salient Features

- Flanged Ends to DIN 2533 PN 16RF.
- Straight Pattern, Outside Screw, Yoke Type, Rising Stem.
- Renewable 13% Cr. Stainless Steel (S.S 410) working parts.
- Provision for re-packing under pressure.
- Minimum pressure drop inside the body due to streamlined body design.
- High lift of the seat to avoid any obstruction in the flow.
- Sturdy and comparatively bigger sized wheel provided to give sufficient torque for easy operation.

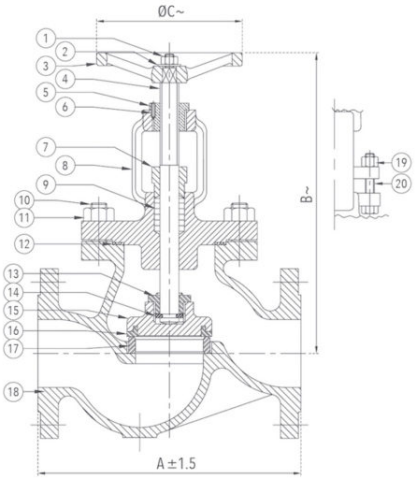


Test Pressure (Hydrostatic) :
Shell : 26 kg/cm²g (370 psig)
Working Pressure (Steam) : 13 kg/cm²g (185 psig)
Maximum Working Temperature : 220°C

**Suitable For**
Steam, Water

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Quantity |
|---|---|---|---|---|
| 1 | Nut | Carbon Steel | – – – | 1 |
| 2 | Washer | Carbon Steel | – – – | 1 |
| 3 | Handwheel | Cast Iron | IS 210 Gr. FG 200 | 1 |
| 4 | Stem | Stainless Steel | ASTM 276 Type 410 | 1 |
| 5 | Yoke Bush | Bronze | IS 318 Gr. LTB 2 | 1 |
| 6 | Locking Screw | Carbon Steel | – – – | 1 |
| 7 | Gland Flange | Cast Iron | IBR 86-93 Gr. A | 1 |
| 8 | Bonnet | Cast Iron | IBR 86-93 Gr. A | 1 |
| 9 | Gland Packing | Braided Graphited Asbestos | IS 4687 | – |
| 10 | Studs | Carbon Steel | IS 1367 | As Reqd. |
| 11 | Nuts | Carbon Steel | IS 1367 | As Reqd. |
| 12 | Gasket | Steam Jointing Sheet | IS 2712 Gr. W/3 | 1 |
| 13 | Stem Nut | Stainless Steel | ASTM A 276 Type 410 | 1 |
| 14 | Stem Ring | Stainless Steel | ASTM A 276 Type 410 | 1 |
| 15 | Disc | Cast Iron | IBR 86-93 Gr. A | 1 |
| 16 | Seat Ring | Stainless Steel | ASTM A 276 Type 410 / ASTM A 182 Gr. F6a | 1 |
| 17 | Body Seat Ring | Stainless Steel | ASTM A 276 Type 410 / ASTM A 182 Gr. F6a | 1 |
| 18 | Body | Cast Iron | IBR 86-93 Gr. A | 1 |
| 19 | Nuts | Carbon Steel | IS 1367 | 2 |
| 20 | Bolts | Carbon Steel | IS 1367 | 2 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B~ | ØC~ |
|---|---|---|---|---|
| 1/2 | 15 | 130 | 166 | 96 |
| 3/4 | 20 | 150 | 166 | 96 |
| 1 | 25 | 160 | 180 | 118 |
| 1 1/4 | 32 | 180 | 196 | 118 |
| 1 1/2 | 40 | 200 | 228 | 150 |
| 2 | 50 | 230 | 250 | 150 |
| 2 1/2 | 65 | 290 | 280 | 180 |

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| Size (Inches) | Size (mm) | A ±1.5 | B~ | ØC~ |
|---|---|---|---|---|
| 3 | 80 | 310 | 295 | 200 |
| 4 | 100 | 350 | 335 | 235 |
| 5 | 125 | 400 | 409 | 285 |
| 6 | 150 | 480 | 470 | 350 |
| 8* | 200 | 600 | 580 | 435 |

* Pressure and Temperature for 200 mm Valve is as per PN10 and flanges to PN 10RF.
~ ±10

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# 1066 Cast Iron Globe Steam Stop Valve Angle Pattern (Flanged) I.B.R

## Salient Features

- Flanged Ends to DIN 2533 PN 16RF.
- Angle Pattern, Outside Screw, Yoke Type, Rising Stem.
- Renewable 13% Cr. Stainless Steel (S.S 410) working parts.
- Provision for re-packing under pressure.
- Minimum pressure drop inside the body due to streamlined body design.
- High lift of the seat to avoid any obstruction in the flow.
- Sturdy and comparatively bigger sized wheel provided to give sufficient torque for easy operation.

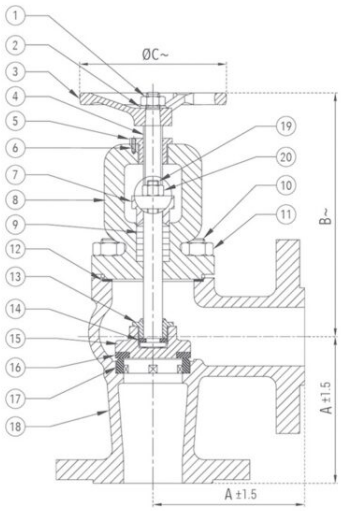


Test Pressure (Hydrostatic) :
Shell : 26 kg/cm²g (370 psig)
Working Pressure (Steam) : 13 kg/cm²g (185 psig)
Maximum Working Temperature : 220°C

**Suitable For**
Steam, Water

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Quantity |
|---|---|---|---|---|
| 1 | Nut | Carbon Steel | – – – | 1 |
| 2 | Washer | Carbon Steel | – – – | 1 |
| 3 | Handwheel | Cast Iron | IS 210 Gr. FG 200 | 1 |
| 4 | Stem | Stainless Steel | ASTM 276 Type 410 | 1 |
| 5 | Yoke Bush | Bronze | IS 318 Gr. LTB 2 | 1 |
| 6 | Locking Screw | Carbon Steel | – – – | 1 |
| 7 | Gland Flange | Cast Iron | IBR 86-93 Gr. A | 1 |
| 8 | Bonnet | Cast Iron | IBR 86-93 Gr. A | 1 |
| 9 | Gland Packing | Braided Graphited Asbestos | IS 4687 | – |
| 10 | Studs | Carbon Steel | IS 1367 | As Reqd. |
| 11 | Nuts | Carbon Steel | IS 1367 | As Reqd. |
| 12 | Gasket | Steam Jointing Sheet | IS 2712 Gr. W/3 | 1 |
| 13 | Stem Nut | Stainless Steel | ASTM A 276 Type 410 | 1 |
| 14 | Stem Ring | Stainless Steel | ASTM A 276 Type 410 | 1 |
| 15 | Disc | Cast Iron | IBR 86-93 Gr. A | 1 |
| 16 | Seat Ring | Stainless Steel | ASTM A 276 Type 410 / ASTM A 182 Gr. F6a | 1 |
| 17 | Body Seat Ring | Stainless Steel | ASTM A 276 Type 410 / ASTM A 182 Gr. F6a | 1 |
| 18 | Body | Cast Iron | IBR 86-93 Gr. A | 1 |
| 19 | Nuts | Carbon Steel | IS 1367 | 2 |
| 20 | Bolts | Carbon Steel | IS 1367 | 2 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A±1.5 | B ~ | ØC ~ |
|---|---|---|---|---|
| 1/2 | 15 | 90 | 150 | 96 |
| 3/4 | 20 | 95 | 154 | 96 |
| 1 | 25 | 100 | 162 | 118 |
| 1 1/4 | 32 | 105 | 176 | 118 |
| 1 1/2 | 40 | 115 | 204 | 150 |
| 2 | 50 | 125 | 223 | 150 |
| 2 1/2 | 65 | 145 | 250 | 180 |

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| Size (Inches) | Size (mm) | A±1.5 | B ~ | ØC ~ |
|---|---|---|---|---|
| 3 | 80 | 155 | 275 | 200 |
| 4 | 100 | 175 | 305 | 235 |
| 6 | 150 | 225 | 419 | 350 |
| 8* | 200 | 275 | 475 | 435 |

* Pressure and Temperature for 200 mm Valve is as per PN10 and flanges to PN 10RF.
~ ±10

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# 1067 Cast Iron Horizontal Lift Check Valve Straight Pattern (Flanged) I.B.R

## Salient Features

- Flanged Ends to DIN 2533 PN 16RF.
- Straight Pattern, Bolted Cover.
- Renewable 13% Cr. Stainless Steel (S.S 410) working parts.
- Minimum pressure drop inside the body due to streamlined body design.

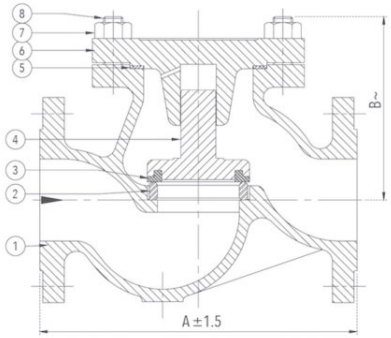


Test Pressure (Hydrostatic) :
Shell : 26 kg/cm²g (370 psig)
Working Pressure (Steam) : 13 kg/cm²g (185 psig)
Maximum Working Temperature : 220°C

**Suitable For**
Steam, Water

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Qty. |
|---|---|---|---|---|
| 1 | Body | Cast Iron | IBR 86-93 Gr. A | 1 |
| 2 | Body Seat Ring | Stainless Steel | ASTMA 276 Type 410 / ASTMA 182 Gr. F6a | 1 |
| 3 | Disc Ring | Stainless Steel | ASTMA 276 Type 410 / ASTMA 182 Gr. F6a | 1 |
| 4 | Disc | Cast Iron | IBR 86-93 Gr. A | 1 |
| 5 | Gasket | Steam Jointing Sheet | IS 2712 Gr. W/3 | 1 |
| 6 | Bonnet | Cast Iron | IBR 86-93 Gr. A | 1 |
| 7 | Nuts | Carbon Steel | IS 1367 | As Reqd. |
| 8 | Studs | Carbon Steel | IS 1367 | As Reqd. |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B ~ |
|---|---|---|---|
| 1/2 | 15 | 130 | 66 |
| 3/4 | 20 | 150 | 70 |
| 1 | 25 | 160 | 76 |
| 1 1/4 | 32 | 180 | 85 |
| 1 1/2 | 40 | 200 | 102 |
| 2 | 50 | 230 | 114 |
| 2 1/2 | 65 | 290 | 123 |
| 3 | 80 | 310 | 140 |
| 4 | 100 | 350 | 154 |
| 5 | 125 | 400 | 200 |
| 6 | 150 | 480 | 230 |
| 8* | 200 | 600 | 275 |

* Pressure and Temperature for 200 mm Valve is as per PN10 and flanges to PN 10RF.
~ ±10

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# 1068 Cast Iron Horizontal Lift Check Valve Angle Pattern (Flanged) I.B.R

## Salient Features

- Flanged Ends to DIN 2533 PN 16RF.
- Angle Pattern, Bolted Cover.
- Renewable 13% Cr. Stainless Steel (S.S 410) working parts.
- Minimum pressure drop inside the body due to streamlined body design.

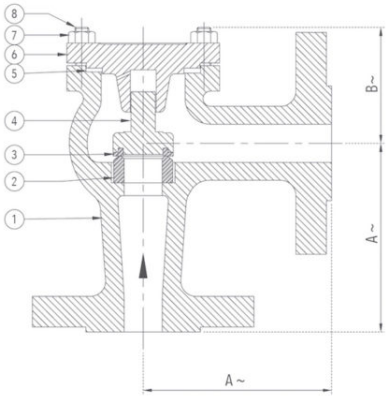


Test Pressure (Hydrostatic) :
Shell 26 kg/cm²g (370 psig)
Working Pressure (Steam) : 13 kg/cm²g (185 psig)
Maximum Working Temperature 220°C

**Suitable For**
Steam, Water

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Qty. |
|---|---|---|---|---|
| 1 | Body | Cast Iron | IBR 86-93 Gr. A | 1 |
| 2 | Body Seat Ring | Stainless Steel | ASTMA 276 Type 410 / ASTMA 182 Gr. F6a | 1 |
| 3 | Disc Ring | Stainless Steel | ASTMA 276 Type 410 / ASTMA 182 Gr. F6a | 1 |
| 4 | Disc | Cast Iron | IBR 86-93 Gr. A | 1 |
| 5 | Gasket | Steam Jointing Sheet | IS 2712 Gr. W/3 | 1 |
| 6 | Bonnet | Cast Iron | IBR 86-93 Gr. A | 1 |
| 7 | Nuts | Carbon Steel | IS 1367 | As Reqd. |
| 8 | Studs | Carbon Steel | IS 1367 | As Reqd |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ~ | B ~ |
|---|---|---|---|
| 1/2 | 15 | 90 | 54 |
| 3/4 | 20 | 95 | 55 |
| 1 | 25 | 100 | 58 |
| 1 1/4 | 32 | 105 | 66 |
| 1 1/2 | 40 | 115 | 78 |
| 2 | 50 | 125 | 85 |
| 2 1/2 | 65 | 145 | 95 |
| 3 | 80 | 155 | 110 |
| 4 | 100 | 175 | 125 |
| 6 | 150 | 225 | 182 |
| 8* | 200 | 275 | 190 |

* Pressure and Temperature for 200 mm Valve is as per PN10 and flanges to PN 10RF.
~ ±10

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# 1069 Cast Iron Y-Type Strainer (Screwed) I.B.R

## Salient Features

- Screwed Female Ends to BSPT.
- Stainless Steel (S.S 304) perforated sheet screen (Ø1 mm Perforation) is guided in body and bonnet.
- Fine finish and smooth contours to minimize pressure drop inside the strainer.
- Large screening area makes the strainer highly efficient in performance.

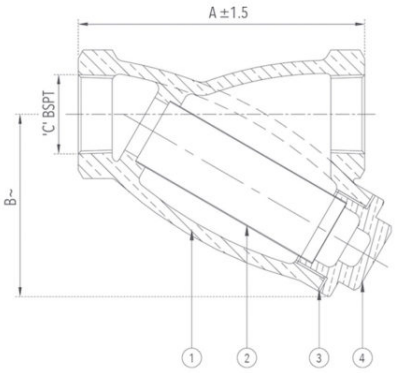



Test Pressure (Hydrostatic) :
Shell : 21.10 kg/cm²g (300 psig)
Working Pressure (Steam) : 10.55 kg/cm²g (150 psig)
Maximum Working Temperature : 220°C

**Suitable For**
Steam, Water

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Qty. |
|---|---|---|---|---|
| 1 | Body | Cast Iron | IBR 86-93 Gr. A | 1 |
| 2 | Screen (Ø1 mm Perforation) | Stainless Steel | Type 304 | 1 |
| 3 | Gasket | Steam Jointing Sheet | IS 2712 Gr. W/3 | 1 |
| 4 | Cover | Cast Iron | IBR 86-93 Gr. A | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B ~ | C |
|---|---|---|---|---|
| 1/2 | 15 | 76 | 71 | 1/2″ |
| 3/4 | 20 | 98 | 85 | 3/4″ |
| 1 | 25 | 133 | 95 | 1″ |
| 1 1/4 | 32 | 155 | 110 | 1 1/4″ |
| 1 1/2 | 40 | 178 | 116 | 1 1/2″ |
| 2 | 50 | 222 | 140 | 2″ |

~ ±10

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# 1070 Cast Iron Y-Type Strainer (Flanged) I.B.R

## Salient Features

- Flanged Ends to BS 10 Table 'F'.
- Stainless Steel (S.S 304) perforated sheet screen (Ø1 mm Perforation) is guided in body and cover.
- Drain Plug is provided to remove the accumulated foreign particles.
- Fine finish and smooth contours to minimize pressure drop inside the strainer.
- Large screening area makes the strainer extremely efficient in performance.

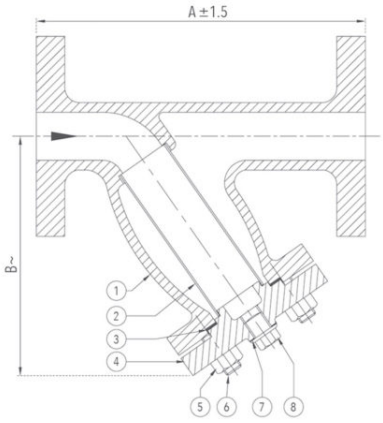


Test Pressure (Hydrostatic) :
Shell : 21.10 kg/cm²g (300 psig)
Working Pressure (Steam) : 10.55 kg/cm²g (150 psig)
Maximum Working Temperature : 220°C

**Suitable For**
Steam, Water

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Qty. |
|---|---|---|---|---|
| 1 | Body | Cast Iron | IBR 86-93 Gr. A | 1 |
| 2 | Screen (Ø1 mm Perforation) | Stainless Steel | Type 304 | 1 |
| 3 | Gasket | Steam Jointing Sheet | IS 2712 Gr. W/3 | 1 |
| 4 | Cover | Cast Iron | IBR 86-93 Gr. A | 1 |
| 5 | Nuts | Carbon Steel | IS 1367 | As Reqd. |
| 6 | Studs | Carbon Steel | IS 1367 | As Reqd. |
| 7 | Gasket | Steam Jointing Sheet | IS 2712 Gr. W/3 | 1 |
| 8 | Plug | Bronze | IBR 282 (a) (iv) Gr. B | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B ~ |
|---|---|---|---|
| 1/2 | 15 | 136 | 87 |
| 3/4 | 20 | 140 | 88 |
| 1 | 25 | 162 | 112 |
| 1 1/4 | 32 | 185 | 135 |
| 1 1/2 | 40 | 206 | 152 |
| 2 | 50 | 210 | 205 |
| 2 1/2 | 65 | 248 | 250 |
| 3 | 80 | 270 | 268 |
| 4 | 100 | 381 | 290 |

~ ±10

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# 1071 Cast Steel Globe Steam Stop Valve (Flanged) I.B.R

## Salient Features

- Flanged Ends to DIN 2545 PN 40.
- Straight Pattern, Outside Screw, Yoke Type, Rising Stem, Bolted Bonnet.
- Renewable 13% Cr. Stainless Steel (S.S 410) working parts.
- Minimum pressure drop inside the body due to streamlined body design.
- Handwheel Operated.
- Provision for re-packing under pressure.
- Suitable for thermic fluid application also.

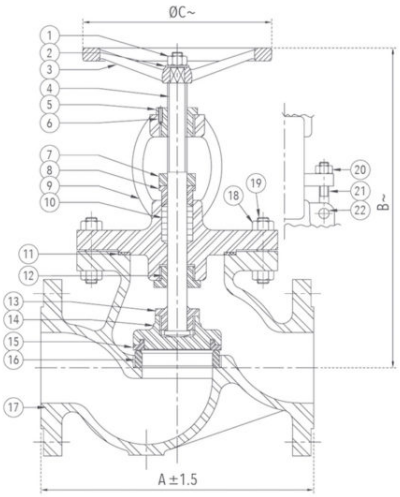


Test Pressure (Hydrostatic) :
Shell : 60 bar (870 psig)
Maximum Working Pressure : 40 bar (580 psig)
Maximum Working Temperature : 425°C

**Suitable For**
Steam, Water, Oil

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Qty. |
|---|---|---|---|---|
| 1 | Nut | Carbon Steel | – – – | 1 |
| 2 | Washer | Carbon Steel | – – – | 1 |
| 3 | Handwheel | S.G Iron | IS 1865 Gr. 400 / 15 | 1 |
| 4 | Stem | Stainless Steel | ASTM A 276 Type 410 | 1 |
| 5 | Yoke Bush | Aluminium Bronze | BS EN 1982 AB – 1 | 1 |
| 6 | Locking Screw | Carbon Steel | IS 1367 | 1 |
| 7 | Gland Flange | Cast Steel | IBR 73-80 Gr. B | 1 |
| 8 | Gland | Stainless Steel | ASTM A 276 Type 410 | 1 |
| 9 | Bonnet | Cast Steel | IBR 73-80 Gr. B | 1 |
| 10 | Gland Packing | Braided Graphite | – – – | – |
| 11 | Gasket | Spiral Wound S.S (Type 316) Graphite Filled | – – – | 1 |
| 12 | Back Seat Bush | Aluminium Bronze | BS EN 1982 AB – 1 | 1 |
| 13 | Stem Nut | Stainless Steel | ASTM A 276 Type 410 | 1 |
| 14 | Disc | Cast Steel | IBR 73-80 Gr. B | 1 |
| 15 | Seat Ring | Stainless Steel | ASTM A 276 Type 410 / ASTM A 182 Gr. F6a | 1 |
| 16 | Body Seat Ring | Stainless Steel | ASTM A 276 Type 410 / ASTM A 182 Gr. F6a | 1 |
| 17 | Body | Cast Steel | IBR 73-80 Gr. B | 1 |
| 18 | Nuts | H.T Steel | ASTM A 194 Gr. 2H | As Reqd |
| 19 | Studs | Alloy Steel | ASTM A 193 Gr. B7 | As Reqd |
| 20 | Nuts For Eye Bolts | H.T Steel | ASTMA 194 Gr. 2H | 2 |
| 21 | Eye Bolts | Stainless Steel | ASTM A 182 Gr. F6a | 2 |
| 22 | Pins For Eye Bolts | Stainless Steel | ASTM A 276 Type 410 | 2 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B ~ | ØC ~ |
|---|---|---|---|---|
| 1/2 | 15 | 130 | 190 | 120 |
| 3/4 | 20 | 150 | 190 | 120 |
| 1 | 25 | 160 | 215 | 150 |
| 1 1/4 | 32 | 180 | 230 | 150 |
| 1 1/2 | 40 | 200 | 259 | 180 |

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| Size (Inches) | Size (mm) | A ±1.5 | B ~ | ØC ~ |
|---|---|---|---|---|
| 2 | 50 | 230 | 272 | 180 |
| 2 1/2 | 65 | 290 | 316 | 200 |
| 3 | 80 | 310 | 341 | 235 |
| 4 | 100 | 350 | 395 | 295 |
| 6 | 150 | 480 | 500 | 350 |
| 8 | 200 | 600 | 525 | 435 |

~ ±10

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# 1072 Cast Steel Horizontal Lift Check Valve (Flanged) I.B.R

## Salient Features

- Flanged Ends to DIN 2545 PN 40.
- Bolted Cover, Straight Pattern.
- Renewable 13% Cr. Stainless Steel (S.S 410) working parts.
- Minimum pressure drop inside the body due to well contoured body design.
- Suitable for thermic fluid application also.

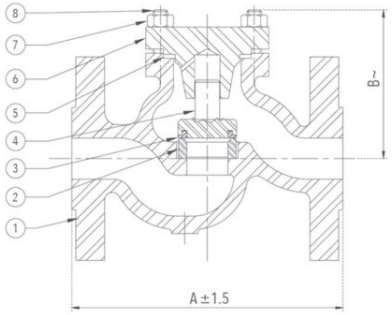


Test Pressure (Hydrostatic) :
Shell : 60 bar (870 psig)
Maximum Working Pressure : 40 bar (580 psig)
Maximum Working Temperature : 425°C

**Suitable For**
Steam, Water, Oil

## Materials

| P.No. | Name of Part | Material of Material | Specification | Qty. |
|---|---|---|---|---|
| 1 | Body | Cast Steel | IBR 73-80 Gr. B | 1 |
| 2 | Body Seat Ring | Stainless Steel | ASTM A 276 Type 410 | 1 |
| 3 | Disc Ring | Stainless Steel | ASTM A 276 Type 410 | 1 |
| 4 | Disc | Cast Steel | IBR 73 – 80 Gr. B | 1 |
| 5 | Gasket | Spiral Wound S.S. (Type 316) Graphite Filled | – – – | 1 |
| 6 | Cover | Cast Steel | IBR 73-80 Gr. B | 1 |
| 7 | Nuts | H.T. Steel | ASTM A 194 Gr. 2H | As Reqd. |
| 8 | Studs | Alloy Steel | ASTM A 193 Gr. B7 | As Reqd. |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B ~ |
|---|---|---|---|
| 1/2 | 15 | 130 | 86 |
| 3/4 | 20 | 150 | 86 |
| 1 | 25 | 160 | 100 |
| 1 1/4 | 32 | 180 | 102 |
| 1 1/2 | 40 | 200 | 113 |
| 2 | 50 | 230 | 123 |
| 2 1/2 | 65 | 290 | 155 |
| 3 | 80 | 310 | 170 |
| 4 | 100 | 350 | 192 |
| 6 | 150 | 480 | 250 |
| 8 | 200 | 600 | 275 |

~ ±10

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# 1073 Cast Steel Y-Type Strainer (Flanged) I.B.R

## Salient Features

- Flanged Ends to BS 10 Table 'J'.
- Stainless Steel (S.S 304) perforated sheet screen (Ø1 mm Perforation) is guided in body and cover.
- Drain Plug to remove the accumulated foreign particles.
- Fine finish and smooth contours to minimize pressure drop inside the strainer.
- Large screening area makes the strainer more efficient.
- Suitable for thermic fluid application also.

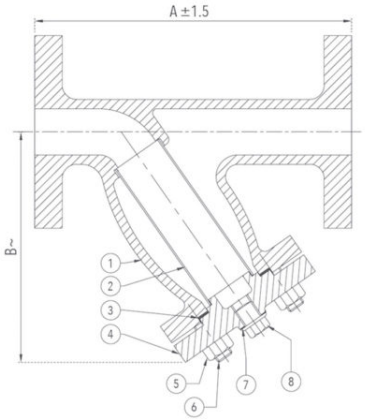


Test Pressure (Hydrostatic) : 49 kg/cm²g (700 psig)
Maximum Working Pressure (Steam) : 24.60 kg/cm²g (350 psig)
Maximum Working Temperature : 425°C

**Suitable For**
Steam, Water, Oil

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Qty. |
|---|---|---|---|---|
| 1 | Body | Cast Steel | IBR 73 – 80 Gr. B | 1 |
| 2 | Screen (Ø1 mm Perforation) | Stainless Steel | Type 304 | 1 |
| 3 | Gasket | Steam Jointing Sheet | IS 2712 Gr. W/3 | 1 |
| 4 | Bonnet | Cast Steel | IBR 73-80 Gr. B | 1 |
| 5 | Nuts | H.T Steel | ASTM A 194 Gr. 2H | As Reqd |
| 6 | Studs | Alloy Steel | ASTM A 193 Gr. B7 | As Reqd |
| 7 | Gasket | Steam Jointing Sheet | IS 2712 Gr. W/3 | 1 |
| 8 | Plug | Bronze | IS 318 Gr. LTB2 | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B ~ |
|---|---|---|---|
| 1 | 25 | 181 | 135 |
| 1 1/4 | 32 | 222 | 170 |
| 1 1/2 | 40 | 260 | 200 |
| 2 | 50 | 276 | 225 |
| 2 1/2 | 65 | 286 | 250 |
| 3 | 80 | 296 | 280 |
| 4 | 100 | 403 | 312 |
| 6 | 150 | 476 | 364 |

~ ±10

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# 1074 Forged Steel Globe Valve, Class-800 (Standard Bore) I.B.R

## Salient Features

- Design Standard API 602 / BSEN ISO 15761 (BS 5352).
- Body and Bonnet are Phosphated, to ensure maximum resistance from rust.
- Bolted Bonnet, Outside Screw, Yoke Type, Rising Stem.
- Screwed Female Ends to BSPT / NPT / Socket Welded to ANSI B16.11.

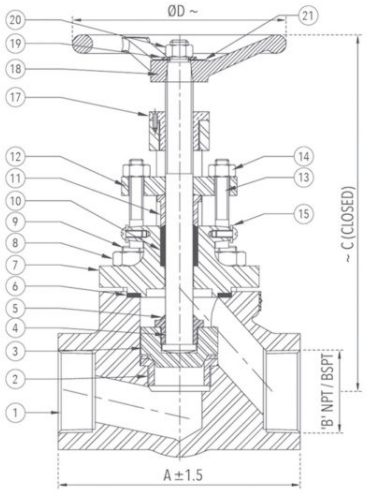


Test Pressure :
Shell (Hydrostatic) : 207 bar (3000 psig)
Seat & Back Seat(Hydrostatic) : 152 bar (2200 psig)
Seat (Pneumatic) : 6.9 bar (100 psig)
Maximum Working Temperature : 425°C

**Suitable For**
Steam, Water, Oil, Air, Gases

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Qty. |
|---|---|---|---|---|
| 1 | Body | Forged Carbon Steel | ASTM A 105 | 1 |
| 2 | Body Seat Ring | Stainless Steel | ASTM A 276 Type 410 / ASTM A 182 Gr. F6a | 1 |
| 3 | Disc | Stainless Steel | ASTM A 276 Type 410 | 1 |
| 4 | Stem | Stainless Steel | ASTM A 276 Type 410 / ASTM A 182 Gr. F6a | 1 |
| 5 | Check Nut | Stainless Steel | ASTM A 276 Type 410 | 1 |
| 6 | Gasket | Spiral Wound S.S (Type 316) Graphite Filled | - - - | 1 |
| 7 | Bonnet | Forged Carbon Steel | ASTM A 105 | 1 |
| 8 | Bonnet Nut | Alloy Steel | ASTM A 194 Gr. 2H | 4 |
| 9 | Stud | Alloy Steel | ASTM A 193 Gr. B7 | 4 |
| 10 | Gland Packing | Non Asbestos Graphite With Corrosion Inhibitor | - - - | |
| 11 | Gland | Stainless Steel | ASTM A 276 Type 410 | 1 |
| 12 | Gland Flange | Carbon Steel | - - - | 1 |
| 13 | Eye Bolt | Stainless Steel | ASTM A 276 Type 410 / ASTM A 182 Gr. F6a | 2 |
| 14 | Nut | Alloy Steel | ASTM A 194 Gr. 2H | 2 |
| 15 | Washer | Carbon Steel | - - - | 2 |
| 16 | Screw | Carbon Steel | - - - | 2 |
| 17 | Yoke Bush | Aluminium Bronze | BS EN 1982 AB - 1 | 1 |
| 18 | Handwheel | Ductile Iron | ASTM A536 / IS 1865 | 1 |
| 19 | Washer | Carbon Steel | - - - | 1 |
| 20 | Handwheel Nut | Carbon Steel | - - - | 1 |
| 21 | Identification Plate | Aluminium | - - - | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B | C ~ | ØD ~ |
|---|---|---|---|---|---|
| 1/2 | 15 | 85 | 1/2″ | 156 | 95 |
| 3/4 | 20 | 86 | 3/4″ | 156 | 95 |
| 1 | 25 | 101 | 1″ | 183 | 95 |
| 1 1/4 | 32 | 140 | 1 1/4″ | 250 | 155 |
| 1 1/2 | 40 | 140 | 1 1/2″ | 250 | 155 |
| 2 | 50 | 164 | 2″ | 250 | 155 |

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# 1074A Forged Steel Globe Valve, Class-800 (Full Bore) I.B.R

## Salient Features

- Design Standard API 602 / BS EN ISO 15761 (BS 5352).
- Body and Bonnet are Phosphated, to ensure maximum resistance from rust.
- Bolted Bonnet, Outside Screw, Yoke Type, Rising Stem.
- Screwed Female Ends to BSPT / NPT / Socket Welded to ANSI B16.11.

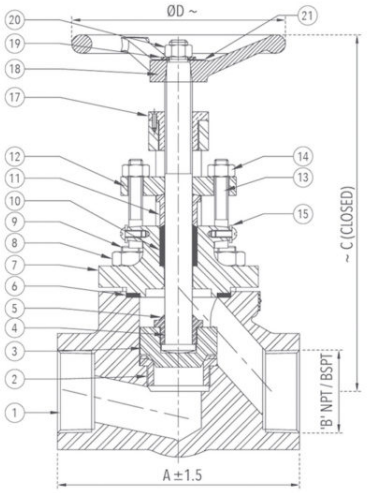


Test Pressure :
Shell (Hydrostatic) : 207 bar (3000 psig)
Seat & Back Seat(Hydrostatic) : 152 bar (2200 psig)
Seat (Pneumatic) : 6.9 bar (100 psig)
Maximum Working Temperature : 425°C

**Suitable For**
Steam, Water, Oil, Air, Gases

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Qty. |
|---|---|---|---|---|
| 1 | Body | Forged Carbon Steel | ASTM A 105 | 1 |
| 2 | Body Seat Ring | Stainless Steel | ASTM A 276 Type 410 / ASTM A 182 Gr. F6a | 1 |
| 3 | Disc | Stainless Steel | ASTM A 276 Type 410 | 1 |
| 4 | Stem | Stainless Steel | ASTM A 276 Type 410 / ASTM A 182 Gr. F6a | 1 |
| 5 | Check Nut | Stainless Steel | ASTM A 276 Type 410 | 1 |
| 6 | Gasket | Spiral Wound S.S (Type 316) Graphite Filled | - - - | 1 |
| 7 | Bonnet | Forged Carbon Steel | ASTM A 105 | 1 |
| 8 | Bonnet Nut | Alloy Steel | ASTM A 194 Gr. 2H | 4 |
| 9 | Stud | Alloy Steel | ASTM A 193 Gr. B7 | 4 |
| 10 | Gland Packing | Non Asbestos Graphite With Corrosion Inhibitor | - - - | |
| 11 | Gland | Stainless Steel | ASTM A 276 Type 410 | 1 |
| 12 | Gland Flange | Carbon Steel | - - - | 1 |
| 13 | Eye Bolt | Stainless Steel | ASTM A 276 Type 410 / ASTM A 182 Gr. F6a | 2 |
| 14 | Nut | Alloy Steel | ASTM A 194 Gr. 2H | 2 |
| 15 | Washer | Carbon Steel | - - - | 2 |
| 16 | Screw | Carbon Steel | - - - | 2 |
| 17 | Yoke Bush | Aluminium Bronze | BS EN 1982 AB – 1 | 1 |
| 18 | Handwheel | Ductile Iron | ASTM A536 / IS 1865 | 1 |
| 19 | Washer | Carbon Steel | - - - | 1 |
| 20 | Handwheel Nut | Carbon Steel | - - - | 1 |
| 21 | Identification Plate | Aluminium | - - - | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B | C ~ | ØD ~ |
|---|---|---|---|---|---|
| 3/8 | 10 | 85 | 3/8″ | 156 | 95 |
| 1/2 | 15 | 86 | 1/2″ | 156 | 95 |
| 3/4 | 20 | 101 | 3/4″ | 183 | 95 |
| 1 | 25 | 140 | 1″ | 250 | 155 |
| 1 1/4 | 32 | 140 | 1 1/4″ | 250 | 155 |
| 1 1/2 | 40 | 164 | 1 1/2″ | 250 | 155 |

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~ ±10

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# 1075 Forged Steel Gate Valve, Class-800 (Standard Bore) I.B.R

## Salient Features

- Design Standard API 602 / BS EN ISO 15761 (BS 5352).
- Body and Bonnet are Phosphated, to ensure maximum resistance from rust.
- Bolted Bonnet, Outside Screw, Yoke Type, Rising Stem.
- Screwed Female Ends to BSPT / NPT / Socket Welded to ANSI B16.11.

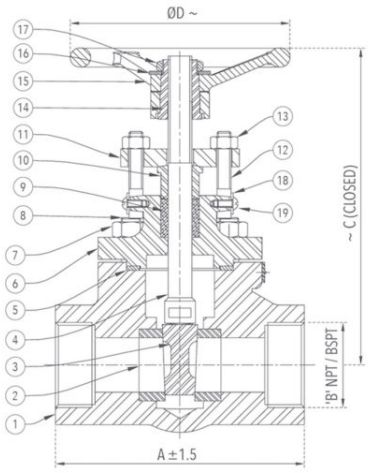


Test Pressure :
Shell (Hydrostatic) : 207 bar (3000 psig)
Seat & Back Seat(Hydrostatic) : 152 bar (2200 psig)
Seat (Pneumatic) : 6.9 bar (100 psig)
Maximum Working Temperature : 425°C

**Suitable For**
Steam, Water, Oil

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Qty. |
|---|---|---|---|---|
| 1 | Body | Forged Carbon Steel | ASTM A 105 | 1 |
| 2 | Body Seat Ring | Stainless Steel | ASTM A276 Type 410 / ASTM A 182 Gr. F6a | 2 |
| 3 | Wedge (Solid) | Stainless Steel | ASTM A217 Gr. CA 15 | 1 |
| 4 | Stem | Stainless Steel | ASTM A276 Type 410 / ASTM A 182 Gr. F6a | 1 |
| 5 | Gasket | Spiral Wound S.S (Type 316) Graphite Filled | – – – | 1 |
| 6 | Bonnet | Forged Carbon Steel | ASTM A 105 | 1 |
| 7 | Bonnet Nut | Alloy Steel | ASTM A 194 Gr. 2H | 4 |
| 8 | Stud | Alloy Steel | ASTM A 193 Gr. B7 | 4 |
| 9 | Gland Packing | Non Asbestos Graphite With Corrosion Inhibitor | – – – | |
| 10 | Gland | Stainless Steel | ASTM A276 Type 410. | 1 |
| 11 | Gland Flange | Carbon Steel | – – – | 1 |
| 12 | Eye Bolt | Stainless Steel | ASTM A276 Type 410 / ASTM A 182 Gr. F6a | 2 |
| 13 | Nut | Alloy Steel | ASTM A194 Gr. 2H | 2 |
| 14 | Yoke Sleeve | Aluminium Bronze | BSEN 1982 AB – 1 | 1 |
| 15 | Handwheel | Ductile Iron | ASTM A 536 / IS 1865 | 1 |
| 16 | Identification Plate | Aluminium | – – – | 1 |
| 17 | Check Nut | Stainless Steel | ASTM A 276 Type 410 | 1 |
| 18 | Washer | Carbon Steel | – – – | 2 |
| 19 | Screw | Carbon Steel | – – – | 2 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B | C ~ | ØD ~ |
|---|---|---|---|---|---|
| 1/2 | 15 | 85 | 1/2″ | 143 | 85 |
| 3/4 | 20 | 86 | 3/4″ | 146 | 85 |
| 1 | 25 | 101 | 1″ | 162 | 95 |
| 1 1/4 | 32 | 140 | 1 1/4″ | 226 | 155 |
| 1 1/2 | 40 | 140 | 1 1/2″ | 226 | 155 |
| 2 | 50 | 164 | 2″ | 230 | 155 |

~ ±10

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# 1075A Forged Steel Gate Valve, Class-800 (Full Bore) I.B.R

## Salient Features

- Design Standard API 602 / BS EN ISO 15761 (BS 5352).
- Body and Bonnet are Phosphated, to ensure maximum resistance from rust.
- Bolted Bonnet, Outside Screw, Yoke Type, Rising Stem.
- Screwed Female Ends to BSPT / NPT / Socket Welded to ANSI B16.11.

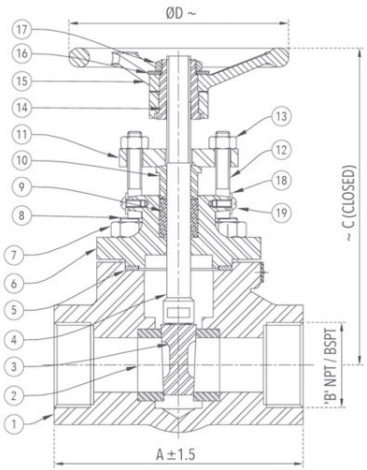


Test Pressure :
Shell (Hydrostatic) : 207 bar (3000 psig)
Seat & Back Seat(Hydrostatic) : 152 bar (2200 psig)
Seat (Pneumatic) : 6.9 bar (100 psig)
Maximum Working Temperature : 425°C

**Suitable For**
Steam, Water, Oil

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Qty. |
|---|---|---|---|---|
| 1 | Body | Forged Carbon Steel | ASTM A 105 | 1 |
| 2 | Body Seat Ring | Stainless Steel | ASTM A276 Type 410 / ASTM A 182 Gr. F6a | 2 |
| 3 | Wedge (Solid) | Stainless Steel | ASTM A217 Gr. CA 15 | 1 |
| 4 | Stem | Stainless Steel | ASTM A276 Type 410 / ASTM A 182 Gr. F6a | 1 |
| 5 | Gasket | Spiral Wound S.S. (Type 316) Graphite Filled | – – – | 1 |
| 6 | Bonnet | Forged Carbon Steel | ASTM A 105 | 1 |
| 7 | Bonnet Nut | Alloy Steel | ASTM A 194 Gr. 2H | 4 |
| 8 | Stud | Alloy Steel | ASTM A 193 Gr. B7 | 4 |
| 9 | Gland Packing | Non Asbestos Graphite With Corrosion Inhibitor | – – – | |
| 10 | Gland | Stainless Steel | ASTM A276 Type 410. | 1 |
| 11 | Gland Flange | Carbon Steel | – – – | 1 |
| 12 | Eye Bolt | Stainless Steel | ASTM A276 Type 410 / ASTM A 182 Gr. F6a | 2 |
| 13 | Nut | Alloy Steel | ASTM A194 Gr. 2H | 2 |
| 14 | Yoke Sleeve | Aluminium Bronze | BSEN 1982 AB – 1 | 1 |
| 15 | Handwheel | Ductile Iron | ASTM A 536 / IS 1865 | 1 |
| 16 | Identification Plate | Aluminium | – – – | 1 |
| 17 | Check Nut | Stainless Steel | ASTM A 276 Type 410 | 1 |
| 18 | Washer | Carbon Steel | – – – | 2 |
| 19 | Screw | Carbon Steel | – – – | 2 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B | C ~ | ØD ~ |
|---|---|---|---|---|---|
| 3/8 | 10 | 85 | 3/8″ | 143 | 85 |
| 1/2 | 15 | 86 | 1/2″ | 146 | 85 |
| 3/4 | 20 | 101 | 3/4″ | 162 | 95 |
| 1 | 25 | 140 | 1″ | 226 | 155 |
| 1 1/4 | 32 | 140 | 1 1/4″ | 226 | 155 |
| 1 1/2 | 40 | 164 | 1 1/2″ | 230 | 155 |

~ ±10

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# 1076 Forged Steel Horizontal Lift Check Valve, Class-800 (Standard Bore) I.B.R

## Salient Features

- Design Standard API 602/BS EN ISO 15761 (BS 5352).
- Body and Cover are Phosphated, to ensure maximum protection from rust.
- Bolted Cover.
- Screwed Female Ends to BSPT / NPT / Socket Welded to ANSI B16.11.

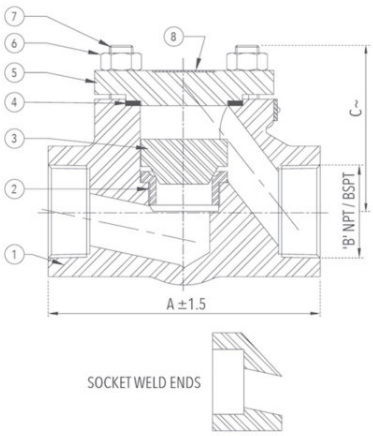


Test Pressure (Hydrostatic) :
Shell : 207 bar (3000 psig)
Seat : 152 bar (2200 psig)
Maximum Working Temperature : 425°C

**Suitable For**
Steam, Water, Oil

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Qty. |
|---|---|---|---|---|
| 1 | Body | Forged Carbon Steel | ASTM A 105 | 1 |
| 2 | Body Seat Ring | Stainless Steel | ASTM A 276 Type 410 / ASTM A182 Gr. F6a | 1 |
| 3 | Disc | Stainless Steel | ASTM A 276 Type 410 | 1 |
| 4 | Gasket | Spiral Wound (Type 316) Graphite Filled | - - - | 1 |
| 5 | Cover | Forged Carbon Steel | ASTM A 105 | 1 |
| 6 | Stud | Alloy Steel | ASTM A 193 Gr. B7 | 4 |
| 7 | Nut | Alloy Steel | ASTM A 194 Gr. 2H | 4 |
| 8 | Identification Plate | Aluminium | - - - | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B | C ~ |
|---|---|---|---|---|
| 1/2 | 15 | 85 | 1/2″ | 61 |
| 3/4 | 20 | 86 | 3/4″ | 61 |
| 1 | 25 | 101 | 1″ | 76 |
| 1 1/4 | 32 | 140 | 1 1/4″ | 105 |
| 1 1/2 | 40 | 140 | 1 1/2″ | 105 |
| 2 | 50 | 164 | 2″ | 105 |

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# 1076A Forged Steel Horizontal Lift Check Valve, Class-800 (Full Bore) I.B.R

## Salient Features

- Design Standard API 602 / BS EN ISO 15761 (BS 5352).
- Body and Cover are Phosphated, to ensure maximum protection from rust.
- Bolted Cover.
- Screwed Female Ends to BSPT / NPT / Socket Welded to ANSI B16.11.

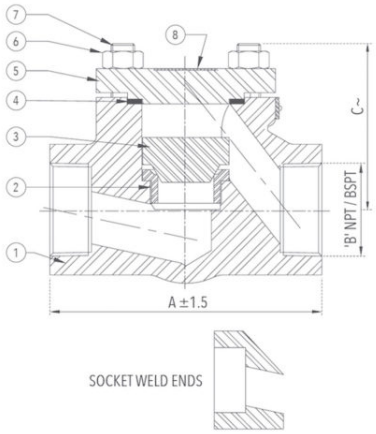


Test Pressure (Hydrostatic) :
Shell : 207 bar (3000 psig)
Seat : 152 bar (2200 psig)
Maximum Working Temperature : 425°C

**Suitable For**
Steam, Water, Oil

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Qty. |
|---|---|---|---|---|
| 1 | Body | Forged Carbon Steel | ASTM A 105 | 1 |
| 2 | Body Seat Ring | Stainless Steel | ASTM A 276 Type 410 / ASTM A182 Gr. F6a | 1 |
| 3 | Disc | Stainless Steel | ASTM A 276 Type 410 | 1 |
| 4 | Gasket | Spiral Wound (Type 316) Graphite Filled | - - - | 1 |
| 5 | Cover | Forged Carbon Steel | ASTM A 105 | 1 |
| 6 | Stud | Alloy Steel | ASTM A 193 Gr. B7 | 4 |
| 7 | Nut | Alloy Steel | ASTM A 194 Gr. 2H | 4 |
| 8 | Identification Plate | Aluminium | - - - | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B | C ~ |
|---|---|---|---|---|
| 3/8 | 10 | 85 | 3/8″ | 61 |
| 1/2 | 15 | 86 | 1/2″ | 61 |
| 3/4 | 20 | 101 | 3/4″ | 76 |
| 1 | 25 | 140 | 1″ | 105 |
| 1 1/4 | 32 | 140 | 1 1/4″ | 105 |
| 1 1/2 | 40 | 164 | 1 1/2″ | 105 |

~ ±10

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# 1077 Cast Steel Gate Valve, Class-150 (Flanged) I.B.R

## Salient Features

- Design Standard BS EN ISO 10434 / API 600.
- Bolted Bonnet, Outside Screw, Yoke Type, Rising Stem.
- Renewable 13% Cr. Stainless Steel (S.S 410) working parts.
- Handwheel Operated.
- Flanged Ends as per ASME B 16.5 Class-150.

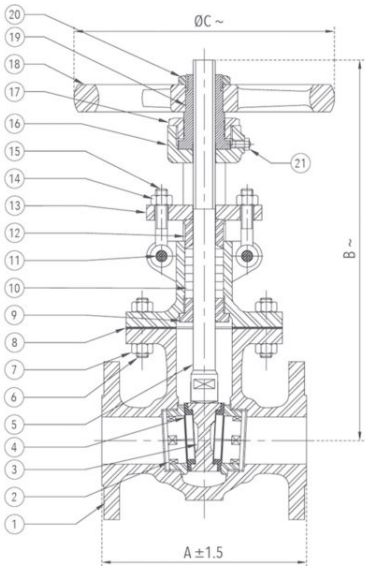


Test Pressure (Hydrostatic) :
Shell : 31 kg/cm²g (425 psig)
Seat : 21kg/cm²g (313 psig)
Seat (Steam) : 10.55 kg/cm²g (150 psig)
Maximum Working Temperature : 425°C

**Suitable For**
Steam, Water, Oil

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Qty. |
|---|---|---|---|---|
| 1 | Body | Cast Steel | ASTM A 216 Gr. WCB | 1 |
| 2 | Body Seat Ring | Stainless Steel | ASTM A 276 Type 410 / ASTM A 182 Gr. F6a | 2 |
| 3 | Wedge | Cast Steel | ASTM A 216 Gr. WCB | 1 |
| 4 | Wedge Facing Ring | Stainless Steel | ASTM A 276 Type 410 / ASTM A 182 Gr. F6a | 2 |
| 5 | Stem | Stainless Steel | ASTM A 276 Type 410 / ASTM A 182 Gr. F6a | 1 |
| 6 | Studs | Alloy Steel | ASTM A 193 Gr. B7 | As Reqd. |
| 7 | Nuts | H.T. Steel | ASTM A 194 Gr. 2H | As Reqd. |
| 8 | Gasket | Steam Jointing Sheet | IS 2712 Gr. W/3 | 1 |
| 9 | Back Seat Bush | Aluminium Bronze | BS EN 1982 Gr. AB – 1 | 1 |
| 10 | Gland Packing | Braided Graphite | IS 4687 | – |
| 11 | Pin For Eye Bolt | Stainless Steel | ASTM A 276 Type 410 | 2 |
| 12 | Gland | Stainless Steel | ASTM A 276 Type 410 | 1 |
| 13 | Gland Flange | Carbon Steel | – – – | 1 |
| 14 | Nuts | H.T Steel | ASTM A 194 Gr. 2H | 2 |
| 15 | Eye Bolts | Stainless Steel | ASTM A 276 Type 410 | 2 |
| 16 | Bonnet | Carbon Steel | ASTM A 216 Gr. WCB | 1 |
| 17 | Sleeve Nut | Stainless Steel | ASTM A 276 Type 410 | 1 |
| 18 | Handwheel | Nodular Iron | ASTM A 439 D2 | 1 |
| 19 | Yoke Sleeve | S.G Iron | IS 1865 Gr. 400 / 15 | 1 |
| 20 | Handwheel Nut | Carbon Steel | – – – | 1 |
| 21 | Grease Nipple | Carbon Steel | – – – | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B ~ | ØC ~ |
|---|---|---|---|---|
| 1 1/2 | 40 | 165 | 330 | 210 |
| 2 | 50 | 178 | 340 | 210 |
| 2 1/2 | 65 | 190 | 395 | 210 |
| 3 | 80 | 203 | 430 | 225 |
| 4 | 100 | 229 | 521 | 255 |

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| Size (Inches) | Size (mm) | A ±1.5 | B ~ | ØC ~ |
|---|---|---|---|---|
| 5 | 125 | 254 | 568 | 255 |
| 6 | 150 | 267 | 666 | 356 |
| 8 | 200 | 292 | 783 | 400 |

~ ±10

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# 1078 Butterfly Valve (Wafer Type) PN 1.6 with S.G Iron Disc

IS 13095
CM/L-9700112213

## Salient Features



- Design Standard IS 13095 / BS EN 593 (BS 5155).
- Wafer Type.
- Lever Operated.
- S.G Iron construction.
- S.G Iron disc which is accurately guided between the two stems.
- Integrally moulded rubber lining (EPDM / Nitrile / Neoprene* / Viton* / Silicon*) as per requirement which provides seating to the valve disc, as a primary seal to the stem and gasket joint with matching pipe flanges.
- Two Piece Stem design which is precisely guided between the PTFE / Bronze bushes.
- Compatible to sandwich between flanges as per BS 10 Table D, E, F,H, DIN, PN 10, PN 16, PN 25, PN 40, ASA 150, ASA 300, IS 778, IS 6392 Table 17 and IS 1538.

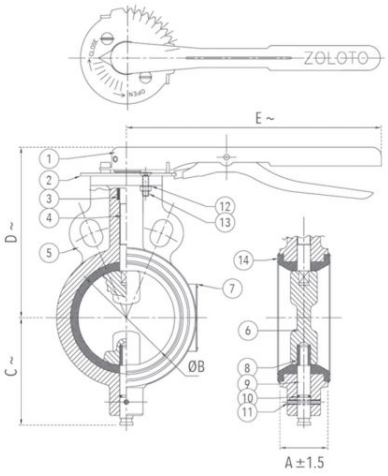
*Valves with Neoprene / Viton / Silicon lining can also be provided at nominal extra cost.

PN 1.6 –
Test Pressure (Hydrostatic) :
Shell : 2.4 MPa
Seat : 1.76 MPa
Maximum Working Temperature : 90°C
Maximum Working Pressure : 1.6 MPa

**Suitable For**
Water

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Qty. |
|---|---|---|---|---|
| 1 | Flow Control Lever | Carbon Steel (Powder Coated) | – – – | 1 |
| 2 | Notch Plate | Carbon Steel (Powder Coated) | – – – | 1 |
| 3 | Packing Bush | PTFE | – – – | 1 |
| 4 | Upper Stem | Stainless Steel | IS 6603 Gr. 12 Cr12 | 1 |
| 5 | Body | S.G Iron | IS 1865 Gr. 400/15 | 1 |
| 6 | Disc | S.G Iron (Epoxy Coated) | IS 1865 Gr. 400/15 | 1 |
| 7 | Name Plate | Aluminium | – – – | 1 |
| 8 | Bush | PTFE / Bronze | – – – / IS 318 Gr. LTB 2 | 1 |
| 9 | Lower Stem | Stainless Steel | IS 6603 Gr. 12 Cr12 | 1 |
| 10 | 'O' Ring | Nitrile Rubber | IS 5192 – 1 | 1 |
| 11 | L – Key Screw | Carbon Steel | – – – | 1 |
| 12 | C – Sunk Screw & Nuts | Carbon Steel | – – – | 2 Each |
| 13 | Locking Washer | Spring Steel | – – – | 2 |
| 14 | Body Lining | EPDM / Nitrile | IS 5192 – 1 | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | ØB | C ~ | D ~ | E ~ |
|---|---|---|---|---|---|---|
| 1 1/2 | 40 | 33 | 40.6 | 57 | 113 | 260 |
| 2 | 50 | 43 | 52.4 | 73 | 125 | 260 |
| 2 1/2 | 65 | 46 | 67 | 80 | 140 | 260 |
| 3 | 80 | 46 | 81.3 | 88 | 145 | 260 |
| 4 | 100 | 52 | 101 | 110 | 178 | 260 |
| 5 | 125 | 56 | 127.1 | 122 | 190 | 260 |
| 6* | 150* | 56 | 151 | 151 | 204 | 260 |

~ ±10
*Bush for Size 150 is of Bronze.

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**NOTE :** Valves are also available with limit switch (Non-ISI), Pad lock arrangement and gear arrangement at nominal extra cost.

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# 1078A Butterfly Valve (Wafer Type) PN 1.6 with S.G Iron Disc - Gear Operated

IS 13095
CM/L-9700112213

## Salient Features



- Design Standard IS 13095 / BS EN 593 (BS 5155).
- Wafer Type.
- Gear Operated.
- S.G Iron construction.
- S.G Iron disc which is accurately guided between the two stems.
- Integrally moulded rubber lining (EPDM / Nitrile / Neoprene* / Viton* / Silicon*) as per requirement which provides seating to the valve disc, as a primary seal to the stem and gasket joint with matching pipe flanges.
- Two Piece Stem design which is precisely guided between the PTFE / Bronze bushes.
- Compatible to sandwich between flanges as per BS 10 Table D, E, F,H, DIN, PN 10, PN 16, PN 25, PN 40, ASA 150, ASA 300, IS 778, IS 6392 Table 17 and IS 1538.

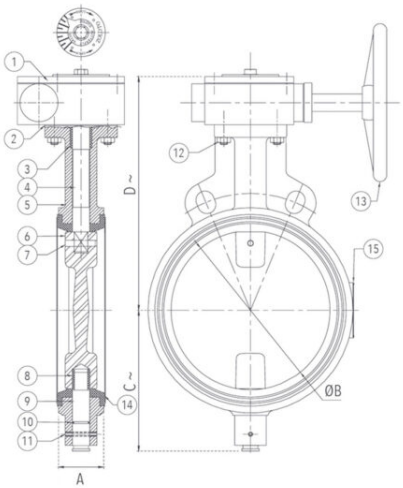
*Valves with Neoprene / Viton / Silicon lining can also be provided at nominal extra cost.

PN 1.0 –
Test Pressure (Hydrostatic) :
Shell : 1.5 MPa
Seat : 1.1 MPa
Maximum Working Pressure : 1.0 MPa
Maximum Working Temperature : 90°C
PN1.6 –
Test Pressure (Hydrostatic) :
Shell : 2.4 MPa
Seat : 1.76 MPa
Maximum Working Pressure : 1.6 MPa
Maximum Working Temperature : 90°C

**Suitable For**
Water

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Qty. |
|---|---|---|---|---|
| 1 | Gear Box Assembly | – – – | – – – | 1 |
| 2 | Gasket | Steam Jointing Sheet | IS2712 Gr. W/3 | 1 |
| 3 | Packing Bush | Bronze | IS 318 Gr. LTB 2 | 1 |
| 4 | Upper Stem | Stainless Steel | IS 6603 Gr. 12 Cr12 | 1 |
| 5 | Body | S.G Iron | IS 1865 Gr. 400/15 | 1 |
| 6 | Disc | S. G Iron (Epoxy Coated) | IS 1865 Gr. 400/15 | 1 |
| 7 | Taper Pin (Optional) | Stainless Steel | IS 6603 Gr. X04Cr19Ni9 | To Suit |
| 8 | Bush | Bronze | IS 318 Gr. LTB 2 | 1 |
| 9 | Lower Stem | Stainless Steel | IS 6603 Gr. 12 Cr12 | 1 |
| 10 | 'O' Ring | Nitrile Rubber | IS 5192 – 1 | 1 |
| 11 | L- Key Screw | Carbon Steel | – – – | To Suit |
| 12 | C – Sunk Screw & Nuts | Carbon Steel | – – – | 4 Each |
| 13 | Handwheel | Sheet Metal | – – – | 1 |
| 14 | Body Lining | EPDM / Nitrile | IS 5192 – 1 | 1 |
| 15 | Name Plate | Aluminium | – – – | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A | ØB | C ~ | D ~ |
|---|---|---|---|---|---|
| 8 | 200 | 60 ±2 | 201.6 | 180 | 295 |
| 10 | 250 | 68 ±2 | 252.2 | 220 | 320 |
| 12 | 300 | 78 ±2 | 301.3 | 247 | 344 |
| 14 | 350 | 85 ±3 | 352 | 292 | 400 |
| 16 | 400 | 96 ±3 | 393.8 | 314 | 428 |

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| Size (Inches) | Size (mm) | A | ØB | C ~ | D ~ |
|---|---|---|---|---|---|
| 18 | 450 | 108 ±3 | 442 | 345 | 474 |
| 20 | 500 | 127 ±4 | 504.2 | 422 | 568 |
| 24 | 600 | 146.5 ±4 | 593 | 465 | 625 |

~ ±10

Sizes above 300mm are Non-ISI & Sizes above 400mm are available in PN 1.0 rating only.
**Note :** Valves are also available with limit switch (Non-ISI) and Pad lock arrangement at nominal extra cost.
Taper Pin (Part No.7) is not applicable for size 200mm.

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# 1078B Butterfly Valve (Wafer Type), PN 1.6 with S.S 304 Disc

IS 13095
CM/L-9700112213

## Salient Features



- Design Standard IS 13095 / BS EN 593 (BS 5155).
- Wafer Type.
- Lever Operated.
- S.G Iron construction.
- Stainless Steel (CF8 / CF8M*) Disc which is accurately guided between the two stems.
- Integrally moulded rubber lining (EPDM / Nitrile / Neoprene* / Viton* / Silicon*) as per requirement which provides seating to the valve disc, as a primary seal to the stem and gasket joint with matching pipe flanges.
- Two Piece Stem design which is precisely guided between the PTFE / Bronze bushes.
- Compatible to sandwich between flanges as per BS 10 Table D, E, F,H, DIN, PN 10, PN 16, PN 25, PN 40, ASA 150, ASA 300, IS 778, IS 6392 Table 17 and IS 1538.

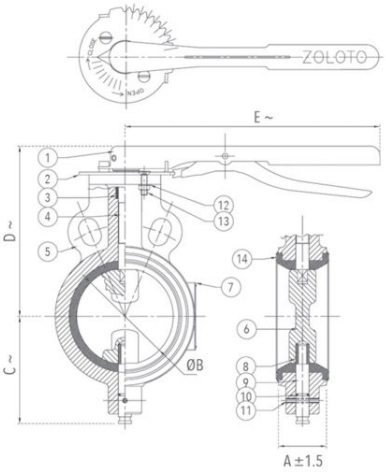
*Valves with Neoprene / Viton / Silicon lining and CF8M (S.S 316) Disc can also be provided at nominal extra cost.

PN 1.6 –
Test Pressure (Hydrostatic) :
Shell : 2.4 MPa
Seat : 1.76 MPa
Maximum Working Pressure : 1.6 MPa
Maximum Working Temperature : 90°C

**Suitable For**
Water

## Materials

| P.No. | Part Name | Material | Specification | Qty. |
|---|---|---|---|---|
| 1 | Flow Control Lever | Carbon Steel (Powder Coated) | – – – | 1 |
| 2 | Notch Plate | Carbon Steel (Powder Coated) | – – – | 1 |
| 3 | Packing Bush | PTFE | – – – | 1 |
| 4 | Upper Stem | Stainless Steel | IS 6603 Gr. 12 Cr12 | 1 |
| 5 | Body | S.G. Iron | IS 1865 Gr. 400/15 | 1 |
| 6 | Disc | Stainless Steel | IS 3444 Gr. 1 / ASTM A 351 Gr. CF8 | 1 |
| 7 | Name Plate | Aluminium | – – – | 1 |
| 8 | Bush | PTFE/Bronze | – – – / IS 318 Gr. LTB 2 | 1 |
| 9 | Lower Stem | Stainless Steel | IS 6603 Gr. 12 Cr12 | 1 |
| 10 | 'O' Ring | Nitrile Rubber | IS 5192 – 1 | 1 |
| 11 | L – Key Screw | Carbon Steel | – – – | 1 |
| 12 | C – Sunk Screw & Nuts | Carbon Steel | – – – | 2 Each |
| 13 | Locking Washer | Spring Steel | – – – | 2 |
| 14 | Boby Lining | EPDM/Nitrile | IS 5192 – 1 | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | ØB | C~ | D~ | E~ |
|---|---|---|---|---|---|---|
| 1 1/2 | 40 | 33 | 40.6 | 57 | 113 | 260 |
| 2 | 50 | 43 | 52.4 | 73 | 125 | 260 |
| 2 1/2 | 65 | 46 | 67 | 80 | 140 | 260 |
| 3 | 80 | 46 | 81.3 | 88 | 145 | 260 |
| 4 | 100 | 52 | 101 | 110 | 178 | 260 |
| 5 | 125 | 56 | 127.1 | 122 | 190 | 260 |
| 6* | 150* | 56 | 151 | 151 | 204 | 260 |

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~ ±10

*Bush for Size 150 is of Bronze.

**NOTE :** Valves are also available with limit switch (Non-ISI), Pad lock arrangement and gear arrangement at nominal extra cost.

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# 1078C Butterfly Valve (Wafer Type), PN 1.6 with S.S 304 Disc - Gear Operated

IS 13095
CM/L-9700112213

## Salient Features



- Design Standard IS 13095 / BS EN 593 (BS 5155).
- Wafer Type.
- Gear Operated.
- S.G Iron construction.
- Stainless Steel (CF8 / CF8M*) Disc which is accurately guided between the two stems.
- Integrally moulded rubber lining (EPDM / Nitrile / Neoprene* / Viton* / Silicon*) as per requirement which provides seating to the valve disc, as a primary seal to the stem and gasket joint with matching pipe flanges.
- Two Piece Stem design which is precisely guided between the PTFE / Bronze bushes.
- Compatible to sandwich between flanges as per BS 10 Table D, E, F,H, DIN, PN 10, PN 16, PN 25, PN 40, ASA 150, ASA 300, IS 778, IS 6392 Table 17 and IS 1538.

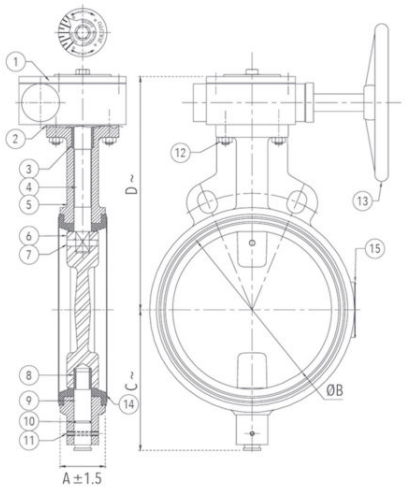
*Valves with Neoprene / Viton / Silicon lining and CF8M (S.S 316) Disc can also be provided at nominal extra cost.

PN 1.6 –
Test Pressure (Hydrostatic) :
Shell : 2.4 MPa
Seat : 1.76 MPa
Maximum Working Pressure : 1.6 MPa
Maximum Working Temperature : 90°C

**Suitable For**
Water

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Qty. |
|---|---|---|---|---|
| 1 | Gear Box Assembly | – – – | – – – | 1 |
| 2 | Gasket | Steam Jointing Sheet | IS2712 Gr. W/3 | 1 |
| 3 | Packing Bush | Bronze | IS 318 Gr. LTB 2 | 1 |
| 4 | Upper Stem | Stainless Steel | IS 6603 Gr. 12 Cr12 | 1 |
| 5 | Body | S.G Iron | IS 1865 Gr. 400/15 | 1 |
| 6 | Disc | Stainless Steel | IS 3444 Gr. 1 / ASTM A 351 Gr. CF8 | 1 |
| 7 | Name Plate | Aluminium | – – – | 1 |
| 8 | Bush | Bronze | IS 318 Gr. LTB 2 | 1 |
| 9 | Lower Stem | Stainless Steel | IS 6603 Gr. 12 Cr12 | 1 |
| 10 | 'O' Ring | Nitrile Rubber | IS 5192 – 1 | 1 |
| 11 | L – Key Screw | Carbon Steel | – – – | 1 |
| 12 | C – Sunk Screw & Nuts | Carbon Steel | – – – | 4 Each |
| 13 | Handwheel | Sheet Metal | – – – | 1 |
| 14 | Body Lining | EPDM / Nitrile | IS 5192 – 1 | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | ØB | C ~ | D ~ |
|---|---|---|---|---|---|
| 8 | 200 | 60 | 201.6 | 180 | 295 |
| 10 | 250 | 68 | 252.2 | 220 | 320 |
| 12 | 300 | 78 | 301.3 | 250 | 344 |

~ ±10

**Note :** Valves are also available with limit switch (Non-ISI) and Pad lock arrangement at nominal extra cost.

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# 1078D Butterfly Valve (Wafer Type), PN 1.0 with Pneumatic Actuator

## Salient Features



- Design Standard IS 13095 / BS EN 593 (BS 5155).
- Wafer Type.
- Double Acting Pneumatic Actuator Operated.
- S.G Iron construction.
- Stainless Steel (CF8 / CF8M*) Disc which is accurately guided between the two stems.
- Actuator is with position indicator and adjustable center stopper for both open and closed position.
- Scotch Yoke Technology as the most suitable mechanism for valve and damper operation, producing higher torque at both end positions.
- Actuator is without  Rack and Pinion for smooth operation and longer life.
- Integrally moulded rubber lining (EPDM / Nitrile / Neoprene* / Viton* / Silicon*) as per requirement which provides seating to the valve disc, as a primary seal to the stem and gasket joint with matching pipe flanges.
- Two Piece Stem design which is precisely guided between the PTFE / Bronze bushes.
- Compatible to sandwich between flanges as per BS 10 Table D, E, F,H, DIN, PN 10, PN 16, PN 25, PN 40, ASA 150, ASA 300, IS 778, IS 6392 Table 17 and IS 1538.

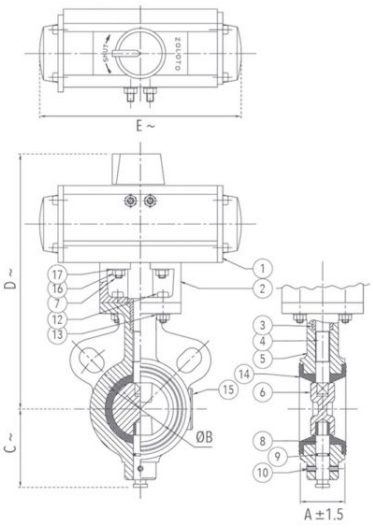
*Valves with Neoprene / Viton / Silicon lining and CF8M (S.S 316) Disc can also be provided at nominal extra cost.

PN 1.0 –
Test Pressure (Hydrostatic) :
Shell : 1.5 MPa
Seat : 1.1 MPa
Maximum Working Pressure : 1.0 MPa
Maximum Working Temperature : 90°C

**Suitable For**
Water

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Qty. |
|---|---|---|---|---|
| 1 | Pneumatic Actuator | – – – | – – – | 1 |
| 2 | Actuator Base | Carbon Steel | – – – | 1 |
| 3 | Packing Bush | Bronze | IS 318 Gr. LTB 2 | 1 |
| 4 | Upper Stem | Stainless Steel | IS 6603 Gr. 12 Cr12 | 1 |
| 5 | Body | S.G Iron | IS 1865 Gr. 400/15 | 1 |
| 6 | Disc | Stainless Steel | IS 3444 Gr. 1 / ASTM A 351 Gr. CF8 | 1 |
| 7 | Studs for Actuator | Carbon Steel | – – – | 1 |
| 8 | Bush | Bronze | IS 318 Gr. LTB 2 | 1 |
| 9 | Lower Stem | Stainless Steel | IS 6603 Gr. 12 Cr12 | 1 |
| 10 | ‘O’ Ring | Nitrile Rubber | IS 5192 – 1 | 1 |
| 11 | L – Key Screw | Carbon Steel | – – – | 1 |
| 12 | L – Key Bolts & Nuts | Carbon Steel | – – – | 4 Each |
| 13 | Locking Washer | Spring Steel | – – – | 1 |
| 14 | Body Lining | EPDM / Nitrile | IS 5192 – 1 | 1 |
| 15 | Name Plate | Aluminium | – – – | 4 |
| 16 | Nuts | Carbon Steel | – – – | 4 |
| 17 | Spring Washer | Spring Steel | – – – | 4 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | ØB | C ~ | D ~ | E ~ | Actuator Model No. |
|---|---|---|---|---|---|---|---|
| 1 1/2 | 40 | 33 | 40.6 | 57 | 223 | 185 | PD 50 |
| 2 | 50 | 43 | 52.4 | 73 | 235 | 185 | PD 50 |
| 2 1/2 | 65 | 46 | 67 | 80 | 250 | 185 | PD 50 |

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| Size (Inches) | Size (mm) | A ±1.5 | ØB | C ~ | D ~ | E ~ | Actuator Model No. |
|---|---|---|---|---|---|---|---|
| 3 | 80 | 46 | 81.3 | 88 | 258 | 185 | PD 50 |
| 4 | 100 | 52 | 101 | 110 | 306 | 250 | PD 70 |
| 6 | 150 | 56 | 151 | 151 | 340 | 250 | PD 70 |
| 8 | 200 | 60 | 201.6 | 180 | 445 | 350 | PD 100 |

~ ±10

**Note :** Valves are also available with Solenoid device and Limit Switch (Position Indicator) at nominal extra cost.

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# 1078E Butterfly Valve (Wafer Type) with Limit Switch

## Salient Features

- Design Standard BS 5155 and IS 13095.
- Wafer Type.
- Limit Switch.
- Compatible to be inserted between flanges as per BS 10 Table D, E, F,H, DIN, PN10, PN16, PN25, PN40, ASA 150, ASA 300, IS 778, IS 6392 Table 17 and IS 1538.

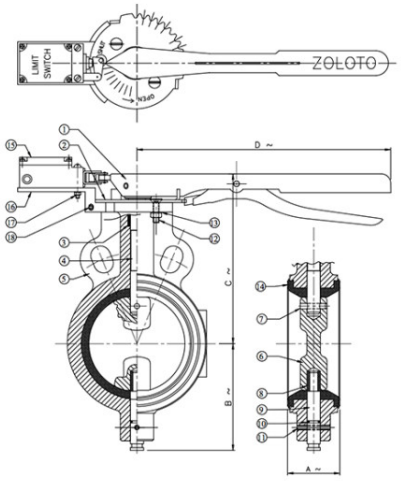
Maximum Working Temperature : 90°C Maximum Working Pressure : 10 bar Shell Test Pressure (Hydrostatic) : 15 bar Seat Test Pressure (Hydrostatic) : 11 bar

Photo Not Available

**Suitable For**
Water

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Qty. |
|---|---|---|---|---|
| 1 | Flow Control Lever | Carbon Steel | IS 2062 | 1 |
| 2 | Locking Guide Plate | Carbon Steel | IS 2062 | 1 |
| 3 | Packing Bush | PTFE / Bronze | BSEN 12086 / IS 318 Gr. LTB2 | 1 |
| 4 | Upper Stem | Stainless Steel | ASTM A276 Type 410 | 1 |
| 5 | Body | S.G. Iron | ASTM A536 | 1 |
| 6 | Disc | S.G. Iron / Stainless Steel | ASTM A536 / ASTM A315 Gr. CF8 / CF8M | 1 |
| 7 | Taper Pin | Stainless Steel | ASTM A276 Type 410 | 1 |
| 8 | Bush | PTFE / Bronze | BSEN 12086 / IS 318 Gr. LTB2 | 1 |
| 9 | Lower Stem | Stainless Steel | ASTM A276 Type 410 | 1 |
| 10 | 'O' Ring | Nitrile Rubber | IS 5192-1 | 1 |
| 11 | Dowel Pin | Carbon Steel | IS 2062 | 1 |
| 12 | C-Sunk Screw & Nuts | Carbon Steel | IS 1367 | 2 Each |
| 13 | Locking Washer | Spring Steel | – – – | 2 |
| 14 | Body Lining | EPDM/ Nitrile | IS 5192-1 | 1 |
| 15 | Limit Switch | – – – | – – – | 1 |
| 16 | Bracket | Cast Iron | IS 210 Gr. FG 200 | 1 |
| 17 | Screw & Nut | Carbon Steel | IS 1367 | 2 Each |
| 18 | L-Key Screw | Carbon Steel | – – – | 2 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A | B | C | D |
|---|---|---|---|---|---|
| 1 1/2″ | 40 | 37 | 55 | 113 | 260 |
| 2 | 50 | 43 | 75 | 125 | 260 |
| 2 1/2 | 65 | 46 | 80 | 140 | 260 |
| 3 | 80 | 48 | 85 | 145 | 260 |
| 4 | 100 | 52 | 110 | 178 | 260 |
| 5 | 125 | 56 | 122 | 190 | 260 |
| 6 | 150 | 56 | 144 | 204 | 260 |

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# 1078F Butterfly Valve (Wafer Type), PN 1.0 with Electrical Actuator

## Salient Features



- Design Standard IS 13095 / BS EN 593 (BS 5155).
- Wafer Type.
- Electrical Acuator Operated.
- S.G Iron construction.
- Stainless Steel (CF8 / CF8M*) Disc which is accurately guided between the two stems.
- Actuator is with position indicator and adjustable center stopper for both open and closed position.
- Compliant with B.M.S (Building Management System) and PLC (Programmable Logic Control).
- Inbuilt thermal protection and space heater
- IP 67 / IP 68 protection available for outdoor application.
- Inbuilt micro switch position feedback.
- Input Voltage – 230 VAC/24 VDC* power supply.
- Integrally moulded rubber lining (EPDM / Nitrile / Neoprene* / Viton* / Silicon*) as per requirement which provides seating to the valve disc, as a primary seal to the stem and gasket joint with matching pipe flanges.
- Two Piece Stem design which is precisely guided between the PTFE / Bronze bushes.
- Compatible to sandwich between flanges as per BS 10 Table D, E, F,H, DIN, PN 10, PN 16, PN 25, PN 40, ASA 150, ASA 300, IS 778, IS 6392 Table 17 and IS 1538.
- For manual operation allen key is provided.
- Instrumental in Zero Water Waste installations.

*Valves with Neoprene / Viton / Silicon lining, IS 3444 Gr.4 /CF8M (S.S 316) Disc and 24VDC Input Voltage can also be provided at nominal extra cost.

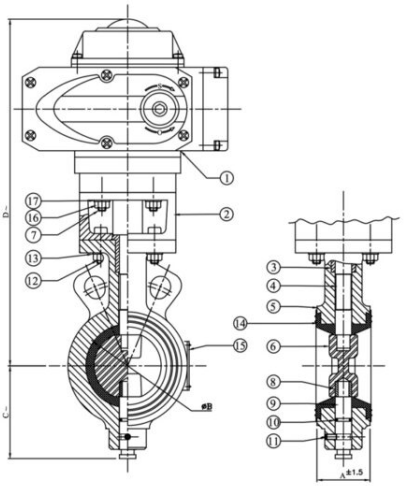
PN 1.0 –
Test Pressure (Hydrostatic) :
Shell : 1.5 MPa
Seat : 1.1 MPa
Maximum Working Pressure : 1.0 MPa
Maximum Working Temperature : 90°C

Important Note : Advised to use canopy for enhanced protection from continuous weather exposure.

**Suitable For**
Water

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Qty. |
|---|---|---|---|---|
| 1 | Electric Actuator | – – – | – – – | 1 |
| 2 | Actuator Base | S.G. Iron | IS 1865 Gr. 400/15 | 1 |
| 3 | Packing Bush | Bronze | IS 318 Gr. LTB 2 | 1 |
| 4 | Upper Stem | Stainless Steel | IS 6603 Gr. 12 Cr12 | 1 |
| 5 | Body | S.G Iron | IS 1865 Gr. 400/15 | 1 |
| 6 | Disc | Stainless Steel | IS 3444 Gr. 1 / ASTM A351 Gr. CF8 | 1 |
| 7 | Studs for Actuator | Carbon Steel | IS 1367 | 4 |
| 8 | Bush | Bronze | IS 318 Gr. LTB 2 | 1 |
| 9 | Lower Stem | Stainless Steel | IS 6603 Gr. 12 Cr12 | 1 |
| 10 | 'O' Ring | Nitrile Rubber | IS 5192 – 1 | 1 |
| 11 | L – Key Screw | Carbon Steel | – – – | 1 |
| 12 | L-Key Bolts & Nuts | Carbon Steel | – – – | 4 Each |
| 13 | Locking Washer | Spring Steel | – – – | 4 Each |
| 14 | Body Lining | EPDM / Nitrile | IS 5192 – 1 | 1 |
| 15 | Name Plate | Aluminium | – – – | 1 |
| 16 | Nuts | Carbon Steel | IS 1363 Part 3 Class 4.0 | 4 |
| 17 | Spring Washer | Spring Steel | – – – | 4 |



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## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | ØB | C ~ | D ~ | Actuator Model No. |
|---|---|---|---|---|---|---|
| 1 1/2 | 40 | 33 | 40.6 | 57 | 283 | ZSY 1 |
| 2 | 50 | 43 | 52.4 | 73 | 293 | ZSY 1 |
| 2 1/2 | 65 | 46 | 67 | 80 | 306 | ZSY 1 |
| 3 | 80 | 46 | 81.3 | 88 | 313 | ZSY 1 |
| 4 | 100 | 52 | 101 | 110 | 341 | ZSY 1 |
| 5 | 125 | 56 | 127.1 | 122 | 342 | ZSY 2 |
| 6 | 150 | 56 | 151 | 151 | 370 | ZSY 2 |
| 8 | 200 | 60 | 201.6 | 180 | 427 | ZSY 2 |
| 10 | 250 | 68 | 252.2 | 220 | 516 | ZSY 4 |
| 12 | 300 | 78 | 301.3 | 250 | 540 | ZSY 4 |
| 14 | 350 | 86 | 352 | 295 | 610 | ZSY 6 |

~ ±10

**Note :** Valves are also available with Control Panel, Magnetic Sensor for automated tank filling.

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# 1079A Cast Iron Sluice Valve PN 1.0 (Flanged)

IS 14846
CM/L-9761093

## Salient Features

- Design Standard IS 14846 PN 1.0.
- Bolted Bonnet, Inside Screw, Non-Rising Stem.
- Rigid and Sturdy design.
- Handwheel Operated.
- Flange Ends as per IS 1538.

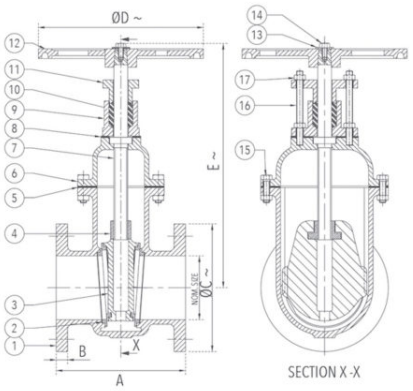


Test Pressure (Hydrostatic) :
Shell : 1.5 MPa
Seat : 1.0 MPa
Maximum Working Temperature : 45°C

**Suitable For**
Water

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Qty. |
|---|---|---|---|---|
| 1 | Body | Cast Iron | IS 210 Gr. FG 200 | 1 |
| 2 | Seat Ring | Bronze | IS 318 Gr. LTB2 | 4 |
| 3 | Wedge | Cast Iron | IS 210 Gr. FG 200 | 1 |
| 4 | Stem Bush | Bronze | IS 318 Gr. LTB2 | 1 |
| 5 | Gasket | Rubber | IS 638 Type B | 1 |
| 6 | Bonnet | Cast Iron | IS 210 Gr. FG 200 | 1 |
| 7 | Stem | Stainless Steel | IS 6603 Gr. 12 Cr. 12 | 1 |
| 8 | Gasket | Rubber | IS 638 Type B | 1 |
| 9 | Stuffing Box | Cast Iron | IS 210 Gr. FG 200 | 1 |
| 10 | Gland Packing | Hemp & Jute | IS 5414 | – |
| 11 | Gland Flange | Cast Iron | IS 210 Gr. FG 200 | 1 |
| 12 | Handwheel | Cast Iron | IS 210 Gr. FG 200 | 1 |
| 13 | Washer | Carbon Steel | – – – | 1 |
| 14 | Bolt | Carbon Steel | IS 1363 Part 1 Class 4.6 | 1 |
| 15 | Bolt & Nut | Carbon Steel | IS 1363 Part 1 Class 4.6<br>IS 1363 Part 3 Class 4.0 | As Reqd. |
| 16 | Stud / Bolt | Carbon Steel | IS 1363 Part 1 Class 4.6 | 2 |
| 17 | Nut | Carbon Steel | IS 1363 Part 3 Class 4.0 | As Reqd. |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A | B | ØC | ØD ±5.0 | E (Max.) |
|---|---|---|---|---|---|---|
| 2* | 50 | 178 ±2 | 16 +2 | 165 (+1.5/-1.0) | 225 | 365 |
| 2 1/2* | 65 | 190 ±2 | 16 +2 | 185 (+1.5/-1.0) | 225 | 380 |
| 3 | 80 | 203 ±2 | 21 ±3 | 200 ±4.5 | 225 | 425 |
| 4 | 100 | 229 ±2 | 22 ±3 | 220 ±4.5 | 320 | 470 |
| 5 | 125 | 254 ±2 | 22.5 ±3 | 250 ±4.5 | 320 | 485 |
| 6 | 150 | 267 ±2 | 23 ±3 | 285 (+5.5/-2.5) | 320 | 595 |
| 8 | 200 | 292 ±2 | 24.5 ±3 | 340 (+5.5/-2.5) | 360 | 725 |
| 10 | 250 | 330 ±2 | 26 ±3 | 395 (+5.5/-2.5) | 400 | 835 |
| 12 | 300 | 356 ±2 | 27.5 ±3 | 445 (+5.5/-2.5) | 400 | 910 |
| 14*1 | 350*1 | 381 ±3 | 29 ±3 | 505 (+6.5/-3.0) | 500 | 1020 |
| 16*1 | 400*1 | 406 ±3 | 30 ±3 | 565 (+6.5/-3.0) | 640 | 1110 |
| 18*1 | 450*1 | 432 ±3 | 31.5 ±3 | 615 (+6.5/-3.0) | 720 | 1200 |

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| Size (Inches) | Size (mm) | A | B | ØC | ØD ±5.0 | E (Max.) |
|---|---|---|---|---|---|---|
| 24[*1] | 600[*1] | 508 ±3 | 36 ±3 | 780 (+6.5/-3.0) | 720 | 1500 |

* Flanges as per IS 14846.
[*1] IS Certification for these sizes is currently under process.

**NOTE :** Valves are also available with extended stem, Pad lock arrangement, Limit switch and Brass spindle at a nominal extra cost. By Pass arrangement (for sizes 200mm & above) can also be provided at a nominal extra cost.

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# 1079B Cast Iron Sluice Valve PN 1.6 (Flanged)

IS 14846
CM/L-9761093

## Salient Features

- Design Standard IS 14846 PN 1.6.
- Bolted Bonnet, Inside Screw, Non-Rising Stem.
- Rigid and Sturdy design.
- Handwheel Operated.
- Flange Ends as per IS 1538.

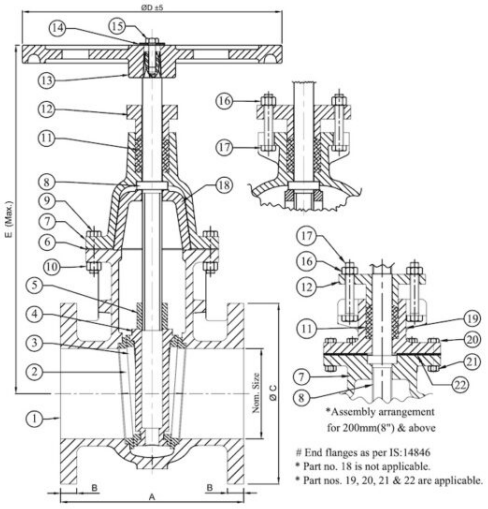


Test Pressure (Hydrostatic) :
Shell : 2.4 MPa
Seat : 1.6 MPa
Maximum Working Temperature : 45°C

**Suitable For**
Water

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Qty. |
|---|---|---|---|---|
| 1 | Body | Cast Iron | IS 210 Gr. FG 200 | 1 |
| 2 | Body Seat Ring | Bronze | IS 318 Gr. LTB 2 | 2 |
| 3 | Wedge Ring | Bronze | IS 318 Gr. LTB 2 | 2 |
| 4 | Wedge | Cast Iron | IS 210 Gr. FG 200 | 1 |
| 5 | Stem Bush | Bronze | IS 318 Gr. LTB 2 | 1 |
| 6 | Gasket | Rubber | IS 638 Type B | 1 |
| 7 | Bonnet | Cast Iron | IS 210 Gr. FG 200 | 1 |
| 8 | Stem | Stainless Steel | IS 6603 Gr. 12 Cr. 12 | 1 |
| 9 | Bolts | Carbon Steel | IS 1363 Part 1 Class 4.6 | To Suit |
| 10 | Nuts | Carbon Steel | IS 1363 Part 3 Class 4.0 | To Suit |
| 11 | Gland Packing | Hemp & Jute | IS 5414 | – |
| 12 | Gland Flange | Cast Iron | IS 210 Gr. FG 200 | 1 |
| 13 | Handwheel | Cast Iron | IS 210 Gr. FG 200 | 1 |
| 14 | Washer | Carbon Steel | – – – | 1 |
| 15 | Bolt | Carbon Steel | IS 1363 Part 1 Class 4.6 | 1 |
| 16 | Nuts | Carbon Steel | IS 1363 Part 3 Class 4.0 | 2 |
| 17 | Bolts | Carbon Steel | IS 1363 Part 1 Class 4.6 | 2 |
| 18 | Thrust Plate | Cast Iron | IS 210 Gr. FG 200 | 1 |
| 19 | Stuffing Box | Cast Iron | IS 210 Gr. FG 200 | 1 |
| 20 | Bolts | Carbon Steel | IS 1363 Part 1 Class 4.6 | To Suit |
| 21 | Nuts | Carbon Steel | IS 1363 Part 3 Class 4.0 | To Suit |
| 22 | Gasket | Rubber | IS 638 Type B | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A | B | ØC | ØD ±5 | E (Max.) |
|---|---|---|---|---|---|---|
| 2* | 50 | 178 ±2 | 16 +2 | 165 (+1.5/-1.0) | 280 | 365 |
| 2 1/2* | 65 | 190 ±2 | 16 +2 | 185 (+1.5/-1.0) | 280 | 380 |
| 3 | 80 | 203 ±2 | 21 ±3 | 200 ±4.5 | 280 | 425 |
| 4 | 100 | 229 ±2 | 22 ±3 | 220 ±4.5 | 360 | 470 |
| 5 | 125 | 254 ±2 | 22.5 ±3 | 250 ±4.5 | 360 | 485 |
| 6 | 150 | 267 ±2 | 23 ±3 | 285 (+5.5/-2.5) | 360 | 595 |
| 8# | 200# | 292 ±3 | 24.5 ±3 | 340 (+5.5/-2.5) | 450 | 725 |
| 10# | 250# | 330 ±3 | 26 ±3 | 395 (+5.5/-2.5) | 640 | 835 |

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| Size (Inches) | Size (mm) | A | B | ØC | ØD ±5 | E (Max.) |
|---|---|---|---|---|---|---|
| 12# | 300# | 356 ±3 | 27.5 ±3 | 445 (+5.5/-2.5) | 640 | 910 |

* Flanges as per IS 14846.
# For size 200, 250 and 300 part number 18 is not applicable.

**NOTE :** Valves are also available with extended stem, Pad lock arrangement, Limit switch and Brass spindle at a nominal extra cost. By Pass arrangement (for sizes 200mm & above) can also be provided at a nominal extra cost.

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# 1079C Cast Iron Sluice Valve PN 1.0 (Flanged) with Rising Stem

## Salient Features

- Design Reference Standard IS 14846.
- Bolted Bonnet, Outside Screw, Yoke Type, Rising Spindle, Solid Wedge.
- Rigid and Sturdy design.
- Hand wheel operated.
- Flanged ends to IS 1538.
- Provision of Re-Packing under pressure.

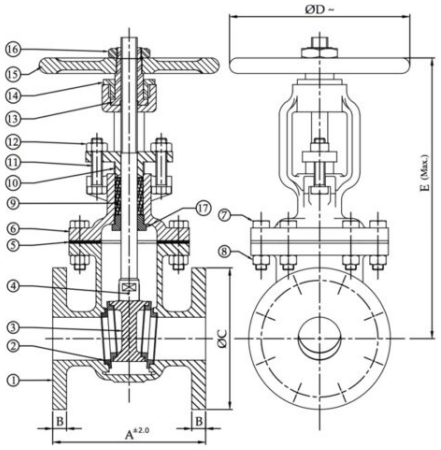


Test Pressure (Hydrostatic) :
Shell : 1.5 MPa
Seat : 1.0 MPa
Maximum Working Temperature : 45°C

**Suitable For**
Water

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Qty. |
|---|---|---|---|---|
| 1 | Body | Cast Iron | IS 210 Gr. FG 200 | 1 |
| 2 | Seat Ring | Bronze | IS 318 Gr. LTB 2 | 4 |
| 3 | Wedge | Cast Iron | IS 210 Gr. FG 200 | 1 |
| 4 | Stem | Stainless Steel | IS 6603 Gr. 12 Cr. 12 | 1 |
| 5 | Gasket | Rubber | IS 638 Type B | 1 |
| 6 | Bonnet | Cast Iron | IS 210 Gr. FG 200 | 1 |
| 7 | Bolt | Carbon Steel | IS 1363 Part 1 Class 4.6 | As Reqd. |
| 8 | Nut | Carbon Steel | IS 1363 Part 3 Class 4.0 | As Reqd. |
| 9 | Gland Packing | Hemp. & Jute | IS 5414 | – |
| 10 | Gland Flange | Cast Iron | IS 210 Gr. FG 200 | 1 |
| 11 | Bolt | Carbon Steel | IS 1363 Part 1 Class 4.6 | 2 |
| 12 | Nut | Carbon Steel | IS 1363 Part 3 Class 4.0 | 2 |
| 13 | Sleeve | S.G Iron | IS 1865 | 1 |
| 14 | Sleeve Nut | Stainless Steel | IS 6603 Gr. 12 Cr. 12 | 1 |
| 15 | Handwheel | Cast Iron | IS 210 Gr. FG 200 | 1 |
| 16 | Handwheel Nut | Stainless Steel | IS 6603 Gr. 12 Cr. 12 | 1 |
| 17 | Back Seat Bush | Bronze | IS 318 Gr. LTB 2 | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±2 | B | ØC | ØD ~ | E (Max.) |
|---|---|---|---|---|---|---|
| 2* | 50 | 178 | 16 +2 | 165 (+1.5/-1.0) | 210 | 350 |
| 2 1/2* | 65 | 190 | 16 +2 | 185 (+1.5/-1.0) | 210 | 410 |
| 3 | 80 | 203 | 21 ±3 | 200 ±4.5 | 225 | 455 |
| 4 | 100 | 229 | 22 ±3 | 220 ±4.5 | 255 | 540 |
| 5 | 125 | 254 | 22.5 ±3 | 250 ±4.5 | 255 | 588 |
| 6 | 150 | 267 | 23 ±3 | 285 (+5.5/-2.5) | 310 | 655 |
| 8 | 200 | 292 | 24.5 ±3 | 340 (+5.5/-2.5) | 395 | 780 |
| 10 | 250 | 330 | 26 ±3 | 395 (+5.5/-2.5) | 460 | 960 |
| 12 | 300 | 356 | 27.5 ±3 | 445 (+5.5/-2.5) | 460 | 1140 |

~ ±10
* Flanges as per IS 14846.
**NOTE :** Valves are also available with brass spindle and Pad lock arrangement at a nominal extra cost. By Pass arrangement (for sizes 200mm & above) can also be provided at a nominal extra cost.

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# 1080A Stainless Steel (CF8M / S.S 316) Three Piece Design Ball Valve, Class-150 (Screwed)

## Salient Features

- Design Standard BS EN ISO 17292 (BS 5351).
- Screwed Female Ends to BSPT / NPT / Socket Weld.
- Reduced Bore, Three Piece Design.
- Superb in Quality and Performance.

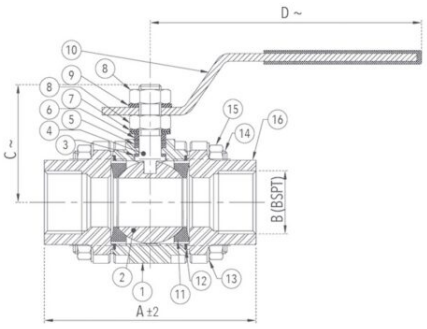


Test Pressure (Hydrostatic) :
Shell : 31 kg/cm²g (440 psig)
Maximum Working Pressure : 21 kg/cm²g (300 psig)
Seat (Pneumatic) : 7kg/cm²g (100 psig)
Maximum Working Temperature : 220°C

**Suitable For**
Steam, Water, Oil, Air, Gases

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Qty. |
|---|---|---|---|---|
| 1 | Body | Stainless Steel | ASTM A 351 Gr. CF8M | 1 |
| 2 | Ball | Stainless Steel | ASTM A276 Type 316 / ASTM A 351 Gr. CF8M | 1 |
| 3 | Thrust Washer | PTFE 35% Carbon Filled | – – – | 1 |
| 4 | Stem | Stainless Steel | ASTM A276 Type 316 | 1 |
| 5 | Packing Ring | PTFE 35% Carbon Filled | – – – | 2 |
| 6 | Gland | Stainless Steel | ASTM A276 Type 304 | 1 |
| 7 | Cup Washer | Stainless Steel | ASTM A276 Type 304 | 2 |
| 8 | Nut | H.T. Steel | ASTM A 194 Gr. 2H | 2 |
| 9 | Spring Washer | Spring Steel | EN 47 Gr. B | 1 |
| 10 | Lever | Carbon Steel | – – – | 1 |
| 11 | Body Seat Ring | PTFE | – – – | 2 |
| 12 | Gasket | PTFE | – – – | 2 |
| 13 | Spring Washer | Spring Steel | EN 47 Gr. B | 8 |
| 14 | Studs | Alloy Steel | ASTM A 193 Gr. B7 | 4 |
| 15 | Nuts | H.T Steel | ASTM A 194 Gr. 2H | 8 |
| 16 | End Connector | Stainless Steel | ASTM A 351 Gr. CF8M | 2 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±2 | B | C ~ | D ~ |
|---|---|---|---|---|---|
| 1/2 | 15 | 69 | 1/2″ | 38 | 112 |
| 3/4 | 20 | 73 | 3/4″ | 40 | 125 |
| 1 | 25 | 95 | 1″ | 57 | 168 |
| 1 1/4 | 32 | 105 | 1 1/4″ | 65 | 168 |
| 1 1/2 | 40 | 115 | 1 1/2″ | 75 | 177 |
| 2 | 50 | 128 | 2″ | 80 | 220 |

~ ±10

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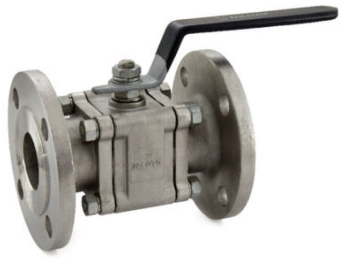
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# 1080B Stainless Steel (CF8M / S.S 316) Three Piece Design Ball Valve, Class-150 (Flanged)

## Salient Features

- Design Standard BS EN ISO 17292 (BS 5351).
- Flanged Ends to ASME B B16.5 Class – 150 (Drilled).
- Three Piece Design.
- Superb in Quality and Performance.

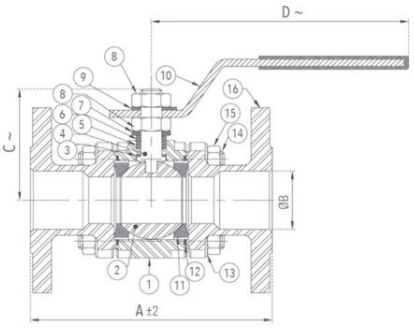


Test Pressure (Hydrostatic) :
Shell : 31 kg/cm²g (440 psig)
Maximum Working Pressure : 21 kg/cm²g (300 psig)
Seat (Pneumatic) : 7 kg/cm²g (100 psig)
Maximum Working Temperature : 220°C

**Suitable For**
Steam, Water, Oil, Air, Gases

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Qty. |
|---|---|---|---|---|
| 1 | Body | Stainless Steel | ASTM A 351 Gr. CF8M | 1 |
| 2 | Ball | Stainless Steel | ASTM A 276 Type 316 / ASTM A 351 Gr. CF8M | 1 |
| 3 | Thrust Washer | PTFE 35% Carbon Filled | – – – | 1 |
| 4 | Stem | Stainless Steel | ASTM A 276 Type 316 | 1 |
| 5 | Packing Ring | PTFE 35% Carbon Filled | – – – | 2 |
| 6 | Gland | Stainless Steel | ASTM A 276 Type 316 | 1 |
| 7 | Cup Washer | Stainless Steel | AISI A276 Type 316 | 2 |
| 8 | Nut | H.T. Steel | ASTM A 194 Gr. 2H | 2 |
| 9 | Spring Washer | Spring Steel | EN 47 Gr. B | 1 |
| 10 | Lever | Carbon Steel | – – – | 1 |
| 11 | Body Seat Ring | PTFE | – – – | 2 |
| 12 | Gasket | PTFE | – – – | 2 |
| 13 | Spring Washer | Spring Steel | EN 47 Gr. B | 8 |
| 14 | Studs | Alloy Steel | ASTM A 193 Gr. B7 | 4 |
| 15 | Nuts | H.T Steel | ASTM A 194 Gr. 2H | 8 |
| 16 | End Connector | Stainless Steel | ASTM A 351 Gr. CF8M | 2 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±2 | B | C ~ | D ~ |
|---|---|---|---|---|---|
| 1/2 | 15 | 108 | 15 | 38 | 150 |
| 3/4 | 20 | 117 | 20 | 40 | 150 |
| 1 | 25 | 127 | 25 | 57 | 160 |
| 1 1/4 | 32 | 140 | 32 | 65 | 160 |
| 1 1/2 | 40 | 165 | 40 | 75 | 202 |
| 2 | 50 | 178 | 50 | 75 | 202 |
| 2 1/2* | 65 | 191 | 63.5 | 125 | 250 |
| 3* | 80 | 203 | 76 | 137 | 335 |
| 4* | 100 | 229 | 100 | 158 | 335 |

~ ±10
*Full Bore

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# 1082 Cast Iron Dual Plate Wafer Type Check Valve, PN 16

## Salient Features



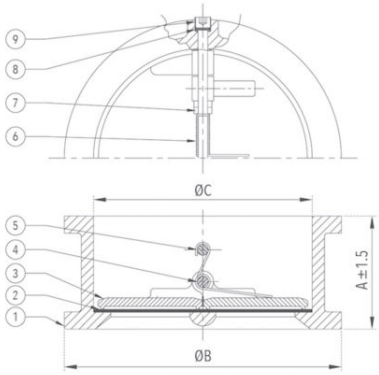
- Design standard API 594.
- Wafer Type Design, to take lesser space than the conventional Check Valve.
- Being light in weight, is more rigid than the standard Swing Type Check Valve, which needs expensive foundation and special supports.
- Being cylindrical body, stresses are uniformly distributed.
- Much longer seat life because of Bronze / S.S to Rubber contact.
- Less wear and tear of seat surfaces.
- End connections are designed to suit flanges drilled to ANSI B Class-125 / ASME B Class-150.
- Water hammering effect is minimized in this design, since the closing of valve does not depend upon any back pressure or flow.
- Each plate being half of the size of the swing check valve disc, provides straight flow path offering minimal resistance because of the spring's assistance as closing of the valve initiates as soon as flow velocity dips below the designated minimum velocity.

Test Pressure (Hydrostatic) :
Shell : 24.50 kg/cm²g (350 psig)
Seat : 16 kg/cm²g (230 psig)
Maximum Working Temperature : 80°C

**Suitable For**
Water

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Qty. |
|---|---|---|---|---|
| 1 | Body | Cast Iron | IS 210 Gr. FG 200 | 1 |
| 2 | Body Lining | Nitrile Rubber | IS 5192 – 1 | 1 |
| 3 | Flap / Disc | Stainless Steel / Bronze | ASTM A 351 Gr. CF8/CF8M / IS 318 Gr. LTB2 | 2 |
| 4 | Hinge Pin | Stainless Steel | ASTM A 276 Type 304 | 1 |
| 5 | Stop Pin | Stainless Steel | ASTM A 276 Type 304 | 1 |
| 6 | Spring | Stainless Steel | Type 304 | – |
| 7 | Packing Washer | Stainless Steel/PTFE | ASTM A 276 Type 304 / – – – | – |
| 8 | Packing Washer | Nitrile Rubber / PTFE | IS : 5192-1 / – – – | – |
| 9 | Retainer Plug | Carbon Steel | – – – | 2/4 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A | ØB | ØC |
|---|---|---|---|---|
| 1 1/2 | 40 | 50 | 92 | 56 |
| 2 | 50 | 54 | 101 | 60 |
| 2 1/2 | 65 | 60 | 120 | 73 |
| 3 | 80 | 67 | 133 | 89 |
| 4 | 100 | 67 | 171 | 114 |
| 5 | 125 | 83 | 193 | 141 |
| 6 | 150 | 95 | 218 | 168 |
| 8 | 200 | 127 | 276 | 219 |
| 10 | 250 | 140 | 336 | 273.5 |
| 12 | 300 | 181 | 406 | 324 |
| 14* | 350* | 184 | 451 | 357 |

*Flap / Disc for Size 350 is of Bronze.

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# 1083 Cast Iron Non Return Valve PN 1.0 (Flanged)

IS 5312
CM/L-9700117720

## Salient Features

- Design Standard IS 5312 – 1.
- Flanged Ends to IS 1538.
- Seating design – Swing Type.
- Bolted Cover.
- Renewable Seat with Premium Quality Rubber Flap.
- Flexible installation (Horizontal / Vertical)

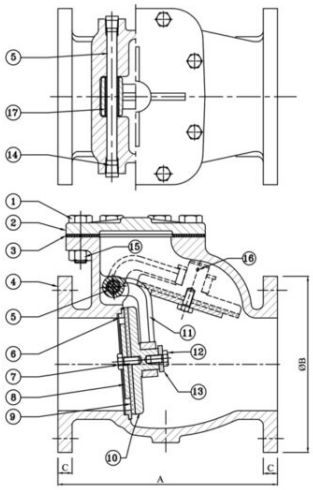


PN 1.0 –
Test Pressure (Hydrostatic) :
Shell : 1.5 MPa
Seat : 1.0 MPa
Maximum Working Temperature : 80°C

**Suitable For**
Water

## Materials

| P.No. | Name of Part | Material of Material | Specification | Qty. |
|---|---|---|---|---|
| 1 | Bolts | Carbon Steel | IS 1363 Part 1 Class 4.6 | As Reqd. |
| 2 | Cover | Cast Iron | IS 210 Gr. FG 200 | 1 |
| 3 | Gasket | Nitrile Rubber | IS 638 Type B | 1 |
| 4 | Body | Cast Iron | IS 210 Gr. FG 200 | 1 |
| 5 | Hinge Pin | Stainless Steel | IS 6603 Gr. X04 Cr19Ni9 | 1 |
| 6 | Body Seat Ring | Bronze | IS 318 Gr. LTB 2 | 1 |
| 7 | Bolts | Carbon Steel | IS 1363 Part 1 Class 4.6 | 1 |
| 8 | Washer | Carbon Steel | – – – | 1 |
| 9 | Disc Facing | Nitrile Rubber | IS 638 Type B | 1 |
| 10 | Disc | Cast Iron | IS 210 Gr. FG 200 | 1 |
| 11 | Hinge | Cast Iron | IS 210 Gr. FG 200 | 1 |
| 12 | Bolt (Optional) | Carbon Steel | IS 1363 Part 1 Class 4.6 | 1 |
| 13 | Washer | Carbon Steel | – – – | 1 |
| 14 | Plug | Stainless Steel | IS 6603 Gr. 12 Cr12 | 2 |
| 15 | Nut | Carbon Steel | IS 1363 Part 3 Class 4.0 | As Reqd. |
| 16 | Split Pin (Optional) | Carbon Steel | – – – | 1 |
| 17 | Hinge Bush | Bronze | IS 318 Gr. LTB 2 | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A | ØB | C |
|---|---|---|---|---|
| 2* | 50 | 203 ±2 | 165 (+1.5/-1.0) | 16 +2 |
| 2 1/2* | 65 | 216 ±2 | 185 (+1.5/-1.0) | 16 +2 |
| 3 | 80 | 241 ±2 | 200 ±4.5 | 21 ±3 |
| 4 | 100 | 292 ±2 | 220 ±4.5 | 22 ±3 |
| 5 | 125 | 330 ±2 | 250 ±4.5 | 22.5 ±3 |
| 6 | 150 | 356 ±2 | 285 (+5.5/-2.5) | 23 ±3 |
| 8 | 200 | 495 ±3 | 340 (+5.5/-2.5) | 24.5 ±3 |
| 10 | 250 | 622 ±3 | 395 (+5.5/-2.5) | 26 ±3 |
| 12 | 300 | 698 ±3 | 445 (+5.5/-2.5) | 27.5 ±3 |

* Flanges as per IS 5312.

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# 1083A Cast Iron Non Return Valve PN 1.6 (Flanged)

## Salient Features

- Design Standard IS 5312 – 1 .
- Flanged Ends to IS 1538.
- Seating design – Swing Type.
- Bolted Cover.
- Renewable Seat with Premium Quality Rubber Flap.
- Flexible installation (Horizontal / Vertical)

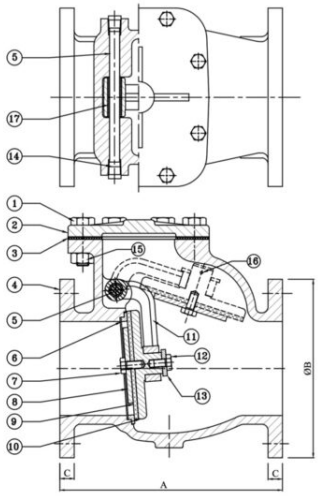


PN 1.6 –
Test Pressure (Hydrostatic) :
Shell : 2.4 MPa
Seat : 1.6 MPa
Maximum Working Temperature : 80°C

**Suitable For**
Water

## Materials

| P.No. | Name of Part | Material of Material | Specification | Qty. |
|---|---|---|---|---|
| 1 | Bolts | Carbon Steel | IS 1363 Part 1 Class 4.6 | As Reqd. |
| 2 | Cover | Cast Iron | IS 210 Gr. FG 200 | 1 |
| 3 | Gasket | Nitrile Rubber | IS 638 Type B | 1 |
| 4 | Body | Cast Iron | IS 210 Gr. FG 200 | 1 |
| 5 | Hinge Pin | Stainless Steel | IS 6603 Gr. X04 Cr19Ni9 | 1 |
| 6 | Body Seat Ring | Bronze | IS 318 Gr. LTB 2 | 1 |
| 7 | Bolts | Carbon Steel | IS 1363 Part 1 Class 4.6 | 1 |
| 8 | Washer | Carbon Steel | – – – | 1 |
| 9 | Disc Facing | Nitrile Rubber | IS 638 Type B | 1 |
| 10 | Disc | Cast Iron | IS 210 Gr. FG 200 | 1 |
| 11 | Hinge | Cast Iron | IS 210 Gr. FG 200 | 1 |
| 12 | Bolt (Optional) | Carbon Steel | IS 1363 Part 1 Class 4.6 | 1 |
| 13 | Washer | Carbon Steel | – – – | 1 |
| 14 | Plug | Stainless Steel | IS 6603 Gr. 12 Cr12 | 2 |
| 15 | Nut | Carbon Steel | IS 1363 Part 3 Class 4.0 | As Reqd. |
| 16 | Split Pin (Optional) | Carbon Steel | – – – | 1 |
| 17 | Hinge Bush | Bronze | IS 318 Gr. LTB 2 | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A | ØB | C |
|---|---|---|---|---|
| 2* | 50 | 203 ±2 | 165 (+1.5/-1.0) | 16 +2 |
| 2 1/2* | 65 | 216 ±2 | 185 (+1.5/-1.0) | 16 +2 |
| 3 | 80 | 241 ±2 | 200 ±4.5 | 21 ±3 |
| 4 | 100 | 292 ±2 | 220 ±4.5 | 22 ±3 |
| 5 | 125 | 330 ±2 | 250 ±4.5 | 22.5 ±3 |
| 6 | 150 | 356 ±2 | 285 (+5.5/-2.5) | 23 ±3 |
| 8 | 200 | 495 ±3 | 340 (+5.5/-2.5) | 24.5 ±3 |
| 10 | 250 | 622 ±3 | 395 (+5.5/-2.5) | 26 ±3 |
| 12 | 300 | 698 ±3 | 445 (+5.5/-2.5) | 27.5 ±3 |

* Flanges as per IS 5312.

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# 1084 Cast Iron Y-Type Strainer PN 10 (Flanged)

## Salient Features

- Flanged Ends to BS 10 Table 'F'.
- Stainless Steel (S.S 304) perforated sheet screen (Ø3 mm Perforation) is guided in body and cover.
- Large screening area makes the strainer efficient in performance.
- Minimum pressure drop inside the body due to streamlined body contours.

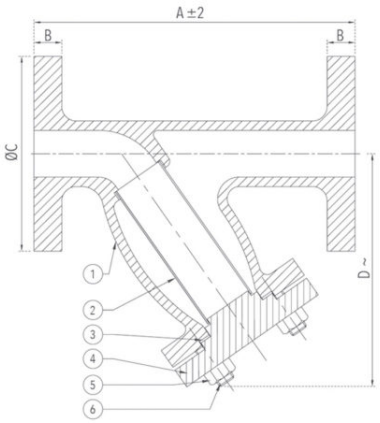


Test Pressure (Hydrostatic) :
Shell : 15 kg/cm²g (220 psig)
Maximum Working Pressure : 10 kg/cm²g (150 psig)
Maximum Working Temperature : 220°C

**Suitable For**
Water

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Qty. |
|---|---|---|---|---|
| 1 | Body | Cast Iron | IS 210 Gr. FG 200 | 1 |
| 2 | Screen (Ø3 mm Perforation) | Stainless Steel | Type 304 | 1 |
| 3 | Gasket | Rubber | IS 638 Type B | 1 |
| 4 | Bonnet | Cast Iron | IS 210 Gr. FG 200 | 1 |
| 5 | Nuts | Carbon Steel | – – – | As Reqd. |
| 6 | Studs | Carbon Steel | – – – | As Reqd. |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±2 | B +3 | ØC +3 | D ~ |
|---|---|---|---|---|---|
| 1 1/2 | 40 | 165 | 16 | 140 | 152 |
| 2 | 50 | 180 | 19 | 165 | 175 |
| 2 1/2 | 65 | 206 | 19 | 184.5 | 180 |
| 3 | 80 | 260 | 19 | 203.2 | 238 |
| 4 | 100 | 295 | 22.2 | 228.6 | 250 |
| 5 | 125 | 385 | 25.4 | 279.4 | 320 |
| 6 | 150 | 385 | 25.4 | 305 | 320 |
| 8 | 200 | 525 | 28.6 | 368.3 | 395 |
| 10 | 250 | 700 | 28.6 | 431.8 | 515 |
| 12 | 300 | 750 | 31.8 | 489 | 570 |
| 14 | 350 | 850 | 35 | 552.5 | 620 |

~ ±10
**Note :** Strainers are also available with Magnet at a nominal extra cost.

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# 1085 Bronze Ball Valve with Integral Strainer (Screwed)

## Salient Features

- Screwed Female Ends to BSP.
- Two Piece Design.
- Quarter Turn, Lever Operated for convenient operation.
- Stainless Steel (S.S 304) rust proof perforated sheet screen is provided in the strainer.
- Carbon Steel Powder Coated and Robust Lever.
- Most suitable for refrigeration and H.V.A.C applications.

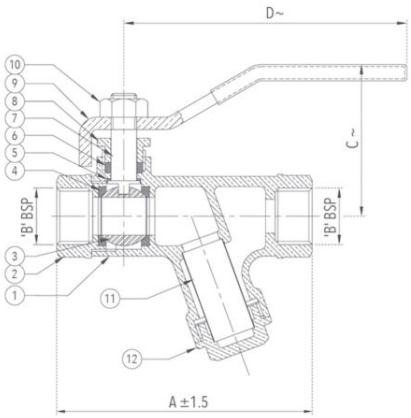


Test Pressure (Hydrostatic) :
Shell : 25 kg/cm²g (350 psig)
Seat : 16 kg/cm²g (225 psig)
Maximum Working Temperature : 220°C

**Suitable For**
Water

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Qty. |
|---|---|---|---|---|
| 1 | Body | Bronze | IS 318 Gr. LTB 2 | 1 |
| 2 | Bonnet | Bronze | IS 318 Gr. LTB 2 | 1 |
| 3 | Ball | Stainless Steel | ASTM A 276 Type 304 | 1 |
| 4 | Body Seat Ring | PTFE | - - - | 2 |
| 5 | Thrust Washer | PTFE | - - - | 1 |
| 6 | Packing Ring | PTFE | - - - | - |
| 7 | Stem | Stainless Steel | ASTM A 276 Type 410 | 1 |
| 8 | Gland | Brass | IS 6912 Gr. FLB | 1 |
| 9 | Lever | Carbon Steel | - - - | 1 |
| 10 | Nut | Carbon Steel | - - - | 1 |
| 11 | Screen | Stainless Steel | Type 304 | 1 |
| 12 | Bottom Cover | Bronze | IS 318 Gr. LTB 2 | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B | C ~ | D ~ |
|---|---|---|---|---|---|
| 1/2 | 15 | 92 | 1/2″ | 50 | 104 |
| 3/4 | 20 | 107 | 3/4″ | 60 | 121 |
| 1 | 25 | 119 | 1″ | 60 | 136 |

~ ±10

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# 1085A Bronze Ball Valve With Integral Strainer & Flare Nut (Mixed Ends)

## Salient Features

- Screwed Ends to BSP Female Inlet and 5/8″ BSP Male Outlet provided with a Flare Nut.
- Two Piece Design.
- Quarter Turn, Lever Operated for convenient operation.
- Stainless Steel (S.S 304) rust proof perforated sheet screen is provided in the strainer.
- Stainless Steel, Rust Free and Robust Lever.
- Most suitable for refrigeration and H.V.A.C applications.

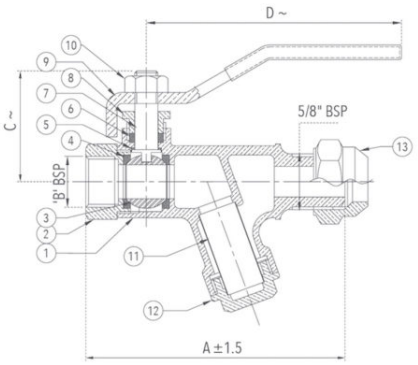



Test Pressure (Hydrostatic)
Shell : 20 kg/cm²g (300 psig)
Seat : 13.50 kg/cm²g (192 psig)
Maximum Working Temperature : 220°C

**Suitable For**
Water

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Qty. |
|---|---|---|---|---|
| 1 | Body | Bronze | IS 318 Gr. LTB 2 | 1 |
| 2 | Bonnet | Bronze | IS 318 Gr. LTB 2 | 1 |
| 3 | Ball | Stainless Steel | ASTM A 276 Type 304 | 1 |
| 4 | Body Seat Ring | PTFE | - - - | 2 |
| 5 | Thrust Washer | PTFE | - - - | 1 |
| 6 | Packing Ring | PTFE | - - - | - |
| 7 | Stem | Stainless Steel | ASTM A 276 Type 410 | 1 |
| 8 | Gland | Brass | IS 6912 Gr. FLB | 1 |
| 9 | Lever | Stainless Steel | Type 304 | 1 |
| 10 | Nut | Carbon Steel | - - - | 1 |
| 11 | Screen | Stainless Steel | Type 304 | 1 |
| 12 | Bottom Cover | Bronze | IS 318 Gr. LTB 2 | 1 |
| 13 | Flare Nut | Brass | IS 6912 Gr. FLB | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B | C ~ | D ~ |
|---|---|---|---|---|---|
| 1/2 | 15 | 87 | 1/2″ | 34 | 82 |
| 3/4 | 20 | 114 | 3/4″ | 36 | 82 |
| 1 | 25 | 126 | 1″ | 44 | 82 |

~ ±10

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# 1085B Bronze Ball Valve With Flare Nut (Mixed Ends)

## Salient Features

- Screwed Ends to BSP Female Inlet and 5/8″ BSP Male Outlet provided with a Flare Nut.
- Two Piece Design.
- Quarter Turn, Lever Operated for convenient operation.
- Stainless Steel Powder Coated and Robust Lever.
- Most suitable for refrigeration and H.V.A.C applications.

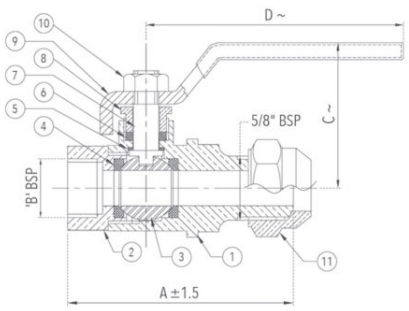


Test Pressure (Hydrostatic) :
Shell : 20 kg/cm²g (300 psig)
Seat : 13.50 kg/cm²g (192 psig)
Maximum Working Temperature : 220°C

**Suitable For**
Water

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Qty. |
|---|---|---|---|---|
| 1 | Body | Bronze | IS 318 Gr. LTB 2 | 1 |
| 2 | Bonnet | Bronze | IS 318 Gr. LTB 2 | 1 |
| 3 | Ball | Stainless Steel | ASTM A 276 Type 304 | 1 |
| 4 | Body Seat Ring | PTFE | – – – | 2 |
| 5 | Thrust Ring | PTFE | – – – | 1 |
| 6 | Packing Ring | PTFE | – – – | – |
| 7 | Stem | Stainless Steel | Type 304 | 1 |
| 8 | Gland | Brass | IS 6912 Gr. FLB | 1 |
| 9 | Lever | Stainless Steel | Type 304 | 1 |
| 10 | Nut | Carbon Steel | – – – | 1 |
| 11 | Flare Nut | Brass | IS 6912 Gr. FLB | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B | C ~ | D ~ |
|---|---|---|---|---|---|
| 1/2 | 15 | 78 | 1/2″ | 52 | 82 |
| 3/4 | 20 | 86 | 3/4″ | 52 | 82 |
| 1 | 25 | 88 | 1″ | 52 | 82 |

~ ±10

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# 1087 Bronze Double Regulating Balancing Valve (Screwed) With Nozzle, PN 16

## Salient Features

- Design Reference Standard BS 7350.
- Screwed Female Ends to IS 554 / BS 21 / ISO 7.
- Precise double regulation.
- Tamper proof setting with a lock shield.
- Swift operation with un-breakable Nylon Handwheel.
- Turn Indicator on the Handwheel to help in Line balancing.
- PTFE sealing disc to ensure a proper shut off.
- Provided with Inlet / Outlet pressure test cocks.
- Facilitates system design, hence saves energy.
- Easy to install and set.
- Accentuates systematic commissioning of the plant for an optimal operation.
- Protruded design suitable for easy installation.

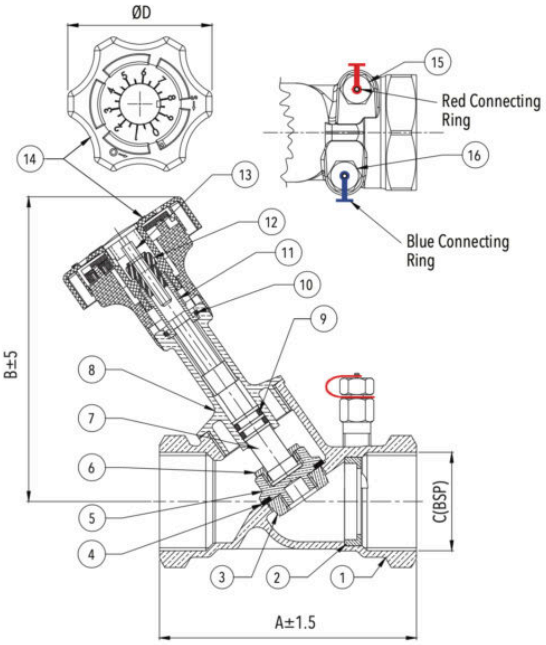


Test Pressure (Hydrostatic) – Shell : 24 bar (350 psig)
Maximum Operating Pressure (Hydrostatic) : 16 bar (230 psig)
Working Temperature : -10°C to 85°C

**Suitable For**
Water

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Qty. |
|---|---|---|---|---|
| 1 | Body | Bronze | IS 318 Gr. LTB2 | 1 |
| 2 | Retaining Ring | Brass | IS 319 Gr. 2 | 1 |
| 3 | Disc Guide | Brass | IS 319 Gr. 2 | 1 |
| 4 | Disc Facing | PTFE / Brass | – / IS 319 Gr. 2 | 1 |
| 5 | Disc | Brass | IS 319 Gr. 2 | 1 |
| 6 | Disc Nut | Brass | IS 319 Gr. 2 | 1 |
| 7 | Stem | Brass | IS 319 Gr. 2 | 1 |
| 8 | Bonnet | Brass / Bronze | IS 319 Gr. 2 / IS 318 Gr. LTB2 | 1 |
| 9 | O-Ring | EPDM | – – – | 2 |
| 10 | Circlip | Stainless Steel | Type 304 | 1 |
| 11 | Connecting Rod | Brass | IS 319 Gr. 2 | 1 |
| 12 | Connecting Screw | Stainless Steel | Type 304 | 1 |
| 13 | Internal Hex. Screw | Stainless Steel | Type 304 | 1 |
| 14 | Handwheel Assy. | Nylon | – – – | 1 |
| 15 | Exhaust Nozzle | Brass | IS 319 Gr. 2 | 1 |
| 16 | Exhaust Nozzle | Brass | IS 319 Gr. 2 | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B ±5 | C | ØD |
|---|---|---|---|---|---|
| 1/2 | 15 | 87 | 108 | 1/2″ | 70 |
| 3/4 | 20 | 96 | 110 | 3/4″ | 70 |
| 1 | 25 | 100 | 133 | 1″ | 70 |
| 1.1/4 | 32 | 114 | 133 | 1.1/4″ | 70 |
| 1.1/2 | 40 | 125 | 147 | 1.1/2″ | 70 |
| 2 | 50 | 146 | 149 | 2″ | 70 |

Notes : For sizes 15mm & 20mm, the disc facing shall be of Brass.
For sizes 40mm & 50mm, the bonnet shall be of Bronze.

Flow Characteristics Of Balancing Valve

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# 1087A Cast Iron Double Regulating Balancing Valve (Flanged) With Nozzle

## Salient Features

- Design Standard BS 7350.
- Precise double regulation.
- Tamper proof setting.
- Handwheel Operated.
- Low noise flow.
- Can be made available with or without drain cocks.
- Flanged ends to BS 4504 Section 3.2 PN 16.
- EPDM Rubber sealing for a soft shut off.

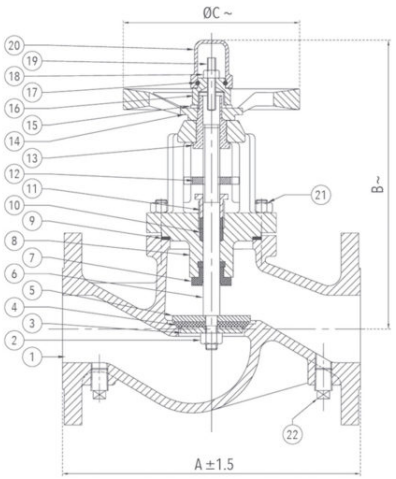


Test Pressure (Hydrostatic) :
Shell : 24 kg/cm²g (340 psig)
Maximum Operating Pressure (Hydrostatic) : 16 Bar at an ambient temperature upto 45°C
Maximum Working Temperature : 110°C

**Suitable For**
Water

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Qty. |
|---|---|---|---|---|
| 1 | Body | Cast Iron | IS 210 Gr. FG 200 | 1 |
| 2 | Nut | Carbon Steel | – – – | 1 |
| 3 | Washer | Carbon Steel | – – – | 1 |
| 4 | Disc Facing | EPDM Rubber | IS 5192 – 1 | 1 |
| 5 | Disc Holder | Carbon Steel | – – – | 1 |
| 6 | Stem | Stainless Steel | ASTM A 276 Type 410. | 1 |
| 7 | Stem Seal | EPDM Rubber | IS 5192 – 1 | 1 |
| 8 | Bonnet | Cast Iron | IS 210 Gr. FG 200 | 1 |
| 9 | Gasket | Steam Jointing Sheet | IS 2712 Gr. W/3 | 1 |
| 10 | Gland Packing | PTFE | – – – | – |
| 11 | Gland | Stainless Steel | ASTM A 276 Type 410. | 1 |
| 12 | Indicator | Carbon Steel | – – – | 1 |
| 13 | Sleeve | S.G Iron | IS 1865 Gr. 400 / 15 | 1 |
| 14 | Handwheel | Cast Iron | IS 210 Gr. FG 200 | 1 |
| 15 | Washer | Carbon Steel | – – – | 1 |
| 16 | Sleeve Nut | Stainless Steel | ASTM A 276 Type 410. | 1 |
| 17 | 'O' Ring | Nitrile Rubber | – – – | 1 |
| 18 | Nut | Carbon Steel | – – – | 1 |
| 19 | Adjusting Stud | Carbon Steel | – – – | 1 |
| 20 | End Cap | Cast Iron | IS 210 Gr. FG 200 | 1 |
| 21 | Studs & Nuts | Carbon Steel | – – – | 4 Each |
| 22 | Plug | Bronze | IS 318 Gr. LTB2 | 2 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B ~ | ØC ~ |
|---|---|---|---|---|
| 2 1/2 | 65 | 290 | 286 | 170 |
| 3 | 80 | 304 | 294 | 170 |
| 4 | 100 | 350 | 356 | 200 |
| 5 | 125 | 400 | 380 | 225 |
| 6 | 150 | 480 | 475 | 256 |
| 8 | 200 | 600 | 625 | 300 |
| 10 | 250 | 730 | 660 | 400 |
| 12 | 300 | 850 | 720 | 400 |

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~ ±10

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# 1088 Cast Steel Three Piece Design Ball Valve, Class-150 (Screwed) I.B.R

## Salient Features

- Design Standard BS EN ISO 17292 (BS 5351).
- Screwed Female Ends to BSPT / NPT / Socket Weld.
- Reduced Bore, Three Piece Design.
- Superb in Quality and Performance.

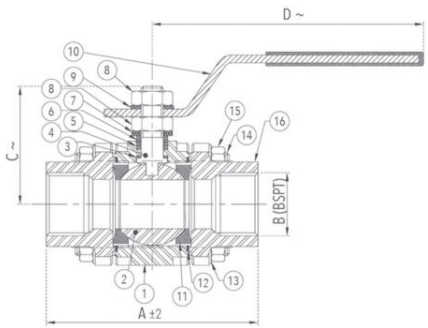


Test Pressure (Hydrostatic) :
Shell : 31 kg/cm²g (440psig)
Seat : 21kg/cm²g (300 psig)
Seat (Steam) : 10.55 kg/cm²g (150 psig)
Maximum Working Temperature : 220°C

**Suitable For**
Steam, Water, Oil

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Qty. |
|---|---|---|---|---|
| 1 | Body | Cast Steel | ASTM A 216 Gr. WCB | 1 |
| 2 | Ball | Stainless Steel | ASTM A 276 Type 304 / ASTM A 351 Gr. CF8 | 1 |
| 3 | Thrust Washer | PTFE 35% Carbon Filled | – – – | 1 |
| 4 | Stem | Stainless Steel | ASTM A 276 Type 316 | 1 |
| 5 | Packing Ring | PTFE 35% Carbon Filled | – – – | 2 |
| 6 | Gland | Stainless Steel | ASTM A 276 Type 304 | 1 |
| 7 | Cup Washer | Stainless Steel | ASTM A 276 Type 304 | 2 |
| 8 | Nut | H.T Steel | ASTM A 194 Gr. 2H | 2 |
| 9 | Spring Washer | Spring Steel | EN 47 Gr. B | 1 |
| 10 | Lever | Carbon Steel | – – – | 1 |
| 11 | Body Seat Ring | PTFE | – – – | 2 |
| 12 | Gasket | PTFE | – – – | 2 |
| 13 | Spring Washer | Spring Steel | EN 47 Gr. B | 8 |
| 14 | Studs | Alloy Steel | ASTM A 193 Gr. B7 | 4 |
| 15 | Nuts | H.T Steel | ASTM A 194 Gr. 2H | 8 |
| 16 | End Connector | Cast Steel | ASTM A 216 Gr. WCB | 2 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±2 | B | C ~ | D ~ |
|---|---|---|---|---|---|
| 1/2 | 15 | 69 | 1/2″ | 38 | 112 |
| 3/4 | 20 | 73 | 3/4″ | 40 | 125 |
| 1 | 25 | 95 | 1″ | 57 | 168 |
| 1 1/4 | 32 | 105 | 1 1/4″ | 65 | 168 |
| 1 1/2 | 40 | 115 | 1 1/2″ | 75 | 177 |
| 2 | 50 | 128 | 2″ | 80 | 220 |

~ ±10

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# 1089 Cast Steel Three Piece Design Ball Valve, Class-150 (Flanged) I.B.R

## Salient Features

- Design Standard BS EN ISO 17292 (BS 5351).
- Flanged Ends to ANSI B16.5 Class-150 (Drilled).
- Three Piece Design.
- Superb in Quality and Performance.

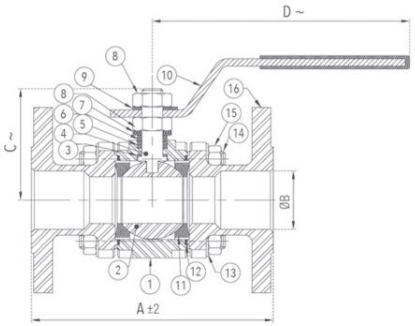


Test Pressure (Hydrostatic) :
Shell : 31 kg/cm²g (440 psig)
Seat : 21kg/cm²g (30 psig)
Seat (Steam) : 10.55 kg/cm²g (150 psig)
Maximum Working Temperature : 220°C

**Suitable For**
Steam, Water, Oil

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Qty. |
|---|---|---|---|---|
| 1 | Body | Cast Steel | ASTM A 216 Gr. WCB | 1 |
| 2 | Ball | Stainless Steel | ASTM A 276 Type 304 / ASTM A 351 Gr. CF8 | 1 |
| 3 | Thrust Washer | PTFE 35% Carbon Filled | – – – | 1 |
| 4 | Stem | Stainless Steel | ASTM A 276 Type 316 | 1 |
| 5 | Packing Ring | PTFE 35% Carbon Filled | – – – | 2 |
| 6 | Gland | Stainless Steel | ASTM A 276 Type 304 | 1 |
| 7 | Cup Washer | Stainless Steel | ASTM A 276 Type 304 | 2 |
| 8 | Nut | H.T Steel | ASTM A 194 Gr. 2H | 2 |
| 9 | Spring Washer | Spring Steel | EN 47 Gr. B | 1 |
| 10 | Lever | Carbon Steel | – – – | 1 |
| 11 | Body Seat Ring | PTFE | – – – | 2 |
| 12 | Gasket | PTFE | – – – | 2 |
| 13 | Spring Washer | Spring Steel | EN 47 Gr. B | 8 |
| 14 | Studs | Alloy Steel | ASTM A 193 Gr. B7 | 4 |
| 15 | Nuts | H.T Steel | ASTM A 194 Gr. 2H | 8 |
| 16 | End Connector | Cast Steel | ASTM A 216 Gr. WCB | 2 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±2 | ØB | C ~ | D ~ |
|---|---|---|---|---|---|
| 1/2 | 15 | 108 | 15 | 38 | 150 |
| 3/4 | 20 | 117 | 20 | 40 | 150 |
| 1 | 25 | 127 | 25 | 57 | 160 |
| 1 1/4 | 32 | 140 | 32 | 65 | 160 |
| 1 1/2 | 40 | 165 | 40 | 75 | 202 |
| 2 | 50 | 178 | 50 | 80 | 202 |
| 2 1/2* | 65 | 191 | 63.5 | 125 | 250 |
| 3* | 80 | 203 | 76 | 137 | 335 |
| 4* | 100 | 229 | 100 | 158 | 335 |

~ ±10
*Full Bore

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# 1091 Cast Steel Sleeve Packed Water Level Gauge (Flanged) I.B.R

## Salient Features



- Flanged End to BS 10 Table 'J'.
- Automatic Shut Off Device in Water Arm.
- Available for both, Right Hand and Left Hand.
- Premium Quality Sleeve, Reinforced by metallic eye holes, is provided to avoid any clogging of passage.
- Each piece is fitted with self adjusting inverted taper plug (Stainless Steel) which forms a seal in the renewable moulded asbestos sleeve.
- Sleeve can easily be positioned by a rib which fits in the corresponding groove of the body.

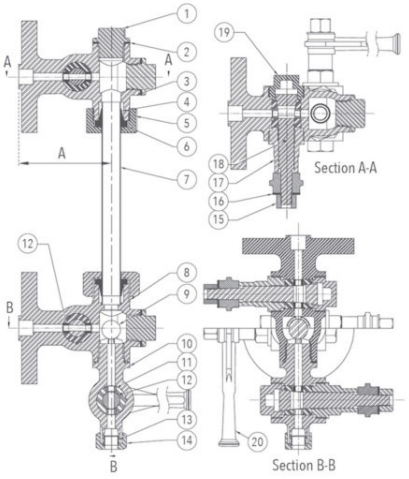
Test Pressure (Hydrostatic) :
Shell : 48 kg/cm²g (700 psig)
Test Pressure (Steam) :
Seat : 24.50 kg/cm²g (350 psig)
Maximum Working Temperature : 425°C

**Suitable For**
Steam, Water

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Qty. |
|---|---|---|---|---|
| 1 | Plug | Stainless Steel | ASTM A 276 Type 410 | 3 |
| 2 | Gasket | Steam Jointing Sheet | IS 2712 Gr. W/3 | 4 |
| 3 | Upper Arm | Cast Steel | IBR 73-80 Gr. B | 1 |
| 4 | Cone | Synthetic Rubber | IS 5192-1 | 2 |
| 5 | Nut | Stainless Steel | ASTM A 276 Type 410 | 2 |
| 6 | Washer | Bronze | IBR 282 (a) (iv) Gr. B | 2 |
| 7 | Glass Tube* | Toughened Glass | – – – | 1 |
| 8 | Lower arm | Cast Steel | IBR 73-80 Gr. B | 1 |
| 9 | Ball | Stainless Steel | ASTM A 276 Type 304 | 1 |
| 10 | Drain Valve | Cast Steel | IBR 73-80 Gr. B | 1 |
| 11 | Sleeve Bush | Bronze | IBR 282 (a) (iv) Gr. B | 6 |
| 12 | Sleeve | Moulded Asbestos | – – – | 3 |
| 13 | Nipple | Stainless Steel | ASTM A 276 Type 410 | 1 |
| 14 | Union Nut | Stainless Steel | ASTM A 276 Type 410 | 1 |
| 15 | Nut | Carbon Steel | – – – | 3 |
| 16 | Name Plate | Brass / Aluminium | – – – | 3 |
| 17 | Bonnet | Stainless Steel | ASTM A 276 Type 410 | 3 |
| 18 | Stem | Stainless Steel | ASTM A 276 Type 410 | 3 |
| 19 | Lock Nut | Stainless Steel | ASTM A 276 Type 410 | 3 |
| 20 | Handle | S.G Iron | IS 1865 / ASTM A 536 | 3 |

*Glass Tube is not provided with this product.




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A |
|---|---|---|
| 1/2 | 15 | 84 |
| 3/4 | 20 | 99 |

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# 1092 Cast Steel Parallel Slide Blow Off Valve (Flanged) I.B.R

## Salient Features

- Flanged Ends to BS 10 Table 'J'.
- Maintains fluid tightness and is easy in operation because of sliding action of discs.
- Discs are kept in close contact with body rings by means of a spring when the valve is under pressure.
- Premium Quality lubricated Gland Packing, Bolted Bonnet.
- Valve is operated by means of Rack and Pinion arrangement, in such a manner that valve is opened fully with half turn of the box key.
- Gland forms a locking guard which prevents removal of the key unless the valve is closed.

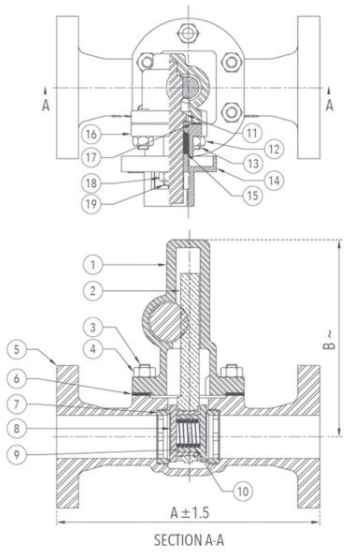


Test Pressure (Hydrostatic) :
Shell : 48 kg/cm²g (700 psig)
Test Pressure (Steam) :
Seat : 24.50 kg/cm²g (350 psig)
Maximum Working Temperature : 425°C

**Suitable For**
Steam, Water

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Qty. |
|---|---|---|---|---|
| 1 | Bonnet | Cast Steel | IBR 73 – 80 Gr. B | 1 |
| 2 | Rack | Bronze | IBR 282 (a) (iv) Gr. B | 1 |
| 3 | Studs | Alloy Steel | ASTM A 193 Gr. B7 | As Reqd. |
| 4 | Nuts | H.T Steel | ASTM A 194 Gr. 2H | As Reqd. |
| 5 | Body | Cast Steel | IBR 73 – 80 Gr. B | 1 |
| 6 | Gasket | Steam Joining Sheet | IS 2712 Gr. W/3 | 1 |
| 7 | Body Seat Ring | Stainless Steel | ASTM A 276 Type 410 | 1 |
| 8 | Male Disc | Stainless Steel | ASTM A 276 Type 410 | 1 |
| 9 | Female Disc | Stainless Steel | ASTM A 276 Type 410 | 1 |
| 10 | Spring | Stainless Steel | IS 4454 Part 4 Gr. 2 | 1 |
| 11 | Pinion | Stainless Steel | ASTM A 276 Type 410 | 1 |
| 12 | Nuts | H.T Steel | ASTM A 194 Gr. 2H | As Reqd. |
| 13 | Studs | Alloy Steel | ASTM A 193 Gr. B7 | As Reqd. |
| 14 | Gland | Bronze | IBR 282 (a) (iv) Gr. B | 1 |
| 15 | Gland Packing | Braided Graphite | IS 4687 | – |
| 16 | Stuffing Box | Bronze | IBR 282 (a) (iv) Gr. B | 1 |
| 17 | Gasket | Steam Joining Sheet | IS 2712 Gr. W/3 | 1 |
| 18 | Nuts | Alloy Steel | ASTM A 193 Gr. B7 | As Reqd. |
| 19 | Studs | H.T Steel | ASTM A 194 Gr. 2H | As Reqd. |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B ~ |
|---|---|---|---|
| 1 | 25 | 178 | 180 |
| 1 1/4 | 32 | 241 | 190 |
| 1 1/2 | 40 | 267 | 220 |
| 2 | 50 | 305 | 244 |

~ ±10

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# 1093 Bronze Landing (Fire Hydrant) Valve (Flanged)

## Salient Features

- Design Standard IS 5290.
- Confirming to Type A specification.
- Screwed in Bonnet having instantaneous coupling with single outlet.
- PTFE Gland Packing for longer life and smooth operation of stem.
- Large flow way area to get full flow of water.
- Leakage proof by virtue of elastomer seat.
- Smooth operation of blank cap for quick mounting of water pipe.
- Life long rust free service.

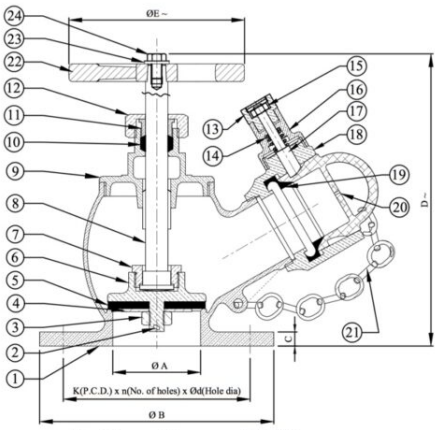


Test Pressure (Hydrostatic) :
Shell : 21 kg/cm²g (300 psig)
Seat : 14 kg/cm²g (200 psig)
Maximum Working Temperature : 110°C

**Suitable For**
Water

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Qty. |
|---|---|---|---|---|
| 1 | Body | Bronze | IS 318 Gr. LTB 2 | 1 |
| 2 | Spilt Pin | Brass | – – – | 1 |
| 3 | Disc Nut | Bronze | IS 318 Gr. LTB 2 | 1 |
| 4 | Washer | Bronze | IS 318 Gr. LTB 2 | 1 |
| 5 | Disc Washer | Rubber | IS 937 | 1 |
| 6 | Disc Holder | Bronze | IS 318 Gr. LTB 2 | 1 |
| 7 | Check Nut | Bronze | IS 318 Gr. LTB 2 | 1 |
| 8 | Stem | Brass | IS 319 | 1 |
| 9 | Bonnet | Bronze | IS 318 Gr. LTB 2 | 1 |
| 10 | Gland Packing | Asbestos Thread | – – – | – |
| 11 | Gland | Brass | IS 319 | 1 |
| 12 | Gland Nut | Bronze | IS 318 Gr. LTB 2 | 1 |
| 13 | Knob with Cap | Bronze | IS 318 Gr. LTB 2 | 1 |
| 14 | Spring | Phosphorous Bronze | IS 7608 | 1 |
| 15 | Cam Tooth Nut | Bronze | IS 318 Gr. LTB 2 | 1 |
| 16 | Cam Housing | Bronze | IS 318 Gr. LTB 2 | 1 |
| 17 | Cam Tooth | Brass | IS 319 | 1 |
| 18 | Instantaneous Coupling | Bronze | IS 318 Gr. LTB 2 | 1 |
| 19 | Washer | Rubber | IS 937 | 1 |
| 20 | Blank Cap | Aluminium / ABS Plastic | IS 617 / – – – | 1 |
| 21 | Chain | Carbon Steel | – – – | 1 |
| 22 | Handwheel | Cast Iron | IS 210 Gr. FG 200 | 1 |
| 23 | Washer | Carbon Steel | – – – | 1 |
| 24 | Bolt | Carbon Steel | – – – | 1 |



Size 80mm x 65mm as per IS:5290

## Sizes / Dimensions

| Size (Inches) | Size (mm) | ØA | ØB | C +3 | D ~ | ØE ~ |
|---|---|---|---|---|---|---|
| 3 | 80 | 75 | 200 | 12 | 240 | 150 |

~ ±10

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# 1093A Stainless Steel S.S 304 Landing (Fire Hydrant) Valve (Flanged)

## Salient Features

- Design Reference Standard IS 5290.
- Confirming to Type A specification.
- Screwed in Bonnet having instantaneous coupling with single outlet.
- PTFE Gland Packing for longer life and smooth operation of stem.
- Large flow way area to get full flow of water.
- Leakage proof by virtue of elastomer seat.
- Smooth operation of blank cap for quick mounting of water pipe.
- Life long rust free service.



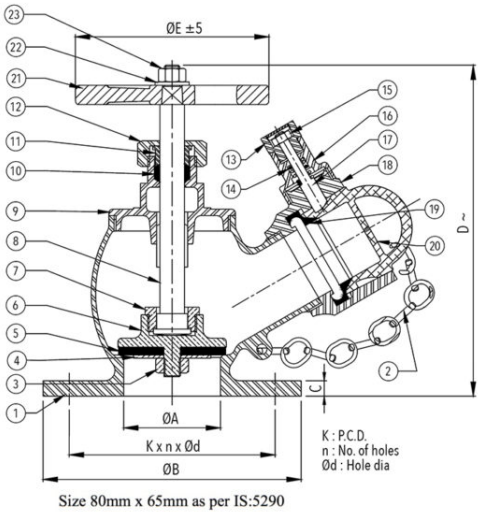
Test Pressure (Hydrostatic) :
Shell : 21 kg/cm²g (300 psig)
Seat : 14 kg/cm²g (200 psig)
Maximum Working Temperature : 110°C

**Suitable For**
Water

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Qty. |
|---|---|---|---|---|
| 1 | Body | Stainless Steel | IS 3444 Gr. 1* | 1 |
| 2 | Chain | Carbon Steel | – – – | 1 |
| 3 | Disc Nylock Nut | Carbon Steel | – – – | 1 |
| 4 | Washer | Stainless Steel | IS 6603 Gr. X04Cr19Ni9 | 1 |
| 5 | Disc Washer | Rubber | IS 937 | 1 |
| 6 | Disc Holder | Stainless Steel | IS 3444 Gr. 1* | 1 |
| 7 | Check Nut | Stainless Steel | IS 3444 Gr. 1* | 1 |
| 8 | Stem | Stainless Steel | IS 6603 Gr. X04Cr19Ni9 | 1 |
| 9 | Bonnet | Stainless Steel | IS 3444 Gr. 1* | 1 |
| 10 | Gland Packing | Asbestos Thread | – – – | – |
| 11 | Gland | Stainless Steel | IS 6603 Gr. X04Cr19Ni9 | 1 |
| 12 | Gland Nut | Stainless Steel | IS 3444 Gr. 1* | 1 |
| 13 | Knob with Cap | Stainless Steel | IS 3444 Gr. 1* | 1 |
| 14 | Spring | Stainless Steel | IS 4454 Part 4 Gr. 2 | 1 |
| 15 | Cam Tooth Nut | Stainless Steel | IS 6603 Gr. X04Cr19Ni9 | 1 |
| 16 | Cam Housing | Stainless Steel | IS 3444 Gr. 1* | 1 |
| 17 | Cam Tooth | Stainless Steel | IS 3444 Gr. 1* | 1 |
| 18 | Instantaneous Coupling | Stainless Steel | IS 3444 Gr. 1* | 1 |
| 19 | Washer | Rubber | IS 937 | 1 |
| 20 | Blank Cap | Aluminium / ABS Plastic | IS 617 / – – – | 1 |
| 21 | Handwheel | Cast Iron | IS 210 Gr. FG 200 | 1 |
| 22 | Washer | Carbon Steel | – – – | 1 |
| 23 | Nut | Carbon Steel | – – – | 1 |

* or equivalent grade



Size 80mm x 65mm as per IS:5290

## Sizes / Dimensions

| Size (Inches) | Size (mm) | ØA | ØB | C | D~ | ØE±5 | K | n | Ød |
|---|---|---|---|---|---|---|---|---|---|
| 3 | 80 | 75 | 200 | 12 | 230 | 150 | 160 | 4 | 19 |

~ ±10

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# 1094 Bronze Spring Loaded Safety Relief Valve, Open Discharge (Screwed)

## Salient Features

- Screwed Male End to IS 554 / BS 21 / ISO 7.
- Open Discharge Type.
- Metal to Rubber contact seating.

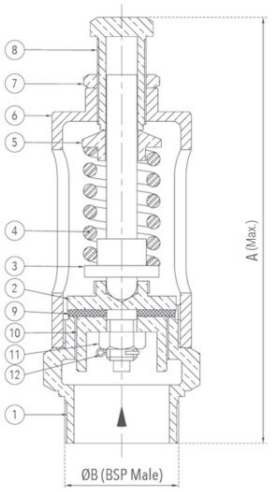



Test Pressure (Hydrostatic) :
Shell : 21.10 kg/cm²g (300 psig)
Seat : 10.55 kg/cm²g (150 psig)
Set Pressure Range : 0 – 10 kg/cm²g (Max.)
Maximum Working Temperature : 80°C

**Suitable For**
Water, Oil, Air

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Qty. |
|---|---|---|---|---|
| 1 | Body | Bronze / Forged Brass | IS 318 Gr. LTB 2 / IS 6912 Gr. FLB | 1 |
| 2 | Disc | Bronze | IS 318 Gr. LTB 2 | 1 |
| 3 | Stem | Bronze | IS 318 Gr. LTB 2 | 1 |
| 4 | Spring | Spring Steel | EN 47 Gr. B | 1 |
| 5 | Spring Disc | Bronze | IS 318 Gr. LTB 2 | 1 |
| 6 | Chamber | Bronze | IS 318 Gr. LTB 2 | 1 |
| 7 | Check Nut | Bronze | IS 318 Gr. LTB 2 | 1 |
| 8 | Adjusting Screw | Bronze | IS 318 Gr. LTB 2 | 1 |
| 9 | Disc Facing | Nitrile Rubber | IS 5192 – 1 | 1 |
| 10 | Guide | Bronze | IS 318 Gr. LTB 2 | 1 |
| 11 | Nut | Brass | – – – | 1 |
| 12 | Split Pin | Brass | – – – | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A (Max.) | B |
|---|---|---|---|
| 1/2* | 15* | 170 | 1/2″ |
| 3/4* | 20* | 170 | 3/4″ |
| 1* | 25* | 190 | 1″ |
| 1 1/4 | 32 | 203 | 1 1/4″ |
| 1 1/2 | 40 | 225 | 1 1/2″ |
| 2 | 50 | 265 | 2″ |

* For size 15, 20 & 25 the body is of Forged Brass
NOTE : Also available in Metal to Metal contact seating.

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VALVES
since 1966

AN ISO 9001, 14001 & 45001
CERTIFIED COMPANY

# 1094A Bronze Spring Loaded Safety Relief Valve, Enclosed Discharge (Screwed)

## Salient Features

- Screwed Male End to IS 554 / BS 21 / ISO7.
- Enclosed Discharge Type.
- Metal to Rubber contact seating.

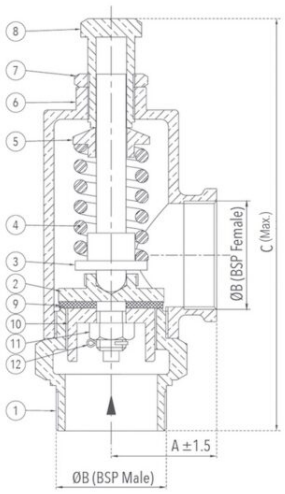


Test Pressure (Hydrostatic) :
Shell : 21.10 kg/cm²g (300 psig)
Seat : 10.55 kg/cm²g (150 psig)
Set Pressure Range : 0-10 kg/cm²g (Max.)
Maximum Working Temperature : 80°C

**Suitable For**
Water, Oil, Air

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Qty. |
|---|---|---|---|---|
| 1 | Body | Bronze / Forged Brass | IS 318 Gr. LTB 2 / IS 6912 Gr. FLB | 1 |
| 2 | Disc | Bronze | IS 318 Gr. LTB 2 | 1 |
| 3 | Stem | Bronze | IS 318 Gr. LTB 2 | 1 |
| 4 | Spring | Spring Steel | EN 47 Gr. B | 1 |
| 5 | Spring Disc | Bronze | IS 318 Gr. LTB 2 | 1 |
| 6 | Chamber | Bronze | IS 318 Gr. LTB 2 | 1 |
| 7 | Check Nut | Bronze | IS 318 Gr. LTB 2 | 1 |
| 8 | Adjusting Screw | Bronze | IS 318 Gr. LTB 2 | 1 |
| 9 | Disc Facing | Nitrile Rubber | IS 5192 – 1 | 1 |
| 10 | Guide | Bronze | IS 318 Gr. LTB 2 | 1 |
| 11 | Nut | Brass | – – – | 1 |
| 12 | Split Pin | Brass | – – – | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A ±1.5 | B | C ~ |
|---|---|---|---|---|
| 1/2* | 15* | 33 | 1/2″ | 170 |
| 3/4* | 20* | 38.5 | 3/4″ | 170 |
| 1* | 25* | 45 | 1″ | 190 |
| 1 1/4 | 32 | 45 | 1 1/4″ | 203 |
| 1 1/2 | 40 | 47.5 | 1 1/2″ | 225 |
| 2 | 50 | 57 | 2″ | 265 |

* For size 15, 20 & 25 the body is of Forged Brass
NOTE : Also available in Metal to Metal contact seating.

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# 1095 Forged Brass Air Release Valve (Screwed)

## Salient Features



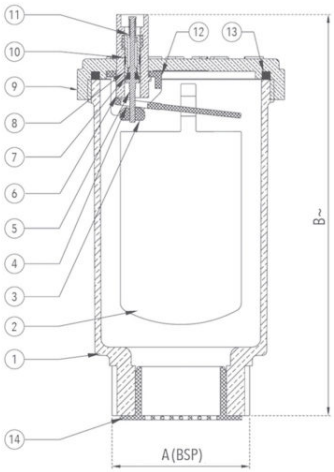
- Screwed male end as per IS 554 / BS 21 / ISO 7.
- Chrome plated forged brass body and cover.
- Full bore.
- Sleek in design, ease of installation.
- Handy device used to release entrapped air in any piping system.
- Smooth inner valves reduce pressure loss.
- Maintains system flow efficiency.
- Brilliant aesthetic look.
- Ergonomic design.

Test Pressure (Hydrostatic) :
Shell : 15 bar (220 psig)
Seat : 10 bar (150 psig)
Maximum Working Temperature : 110°C

**Suitable For**
Water

## Materials

| P.No. | Name of Part | Material of Construction | Specification | Qty. |
|---|---|---|---|---|
| 1 | Body | Forged Brass (Chrome Plated) | IS 6912 Gr. FLB | 1 |
| 2 | Float | Polypropylene | – – – | 1 |
| 3 | Lock | Polypropylene | – – – | 1 |
| 4 | Hing | Polypropylene | – – – | 1 |
| 5 | Seat | Forged Brass | IS 6912 Gr. FLB | 1 |
| 6 | Chamber | Forged Brass | IS 6912 Gr. FLB | 1 |
| 7 | Ring | Nitrile Rubber | IS 5192 – 1 | 1 |
| 8 | Valve | Brass | IS 319 Gr. 2 | 1 |
| 9 | Cover | Forged Brass (Chrome Plated) | IS 6912 Gr. FLB | 1 |
| 10 | Ring | Nitrile Rubber | IS 5192 – 1 | 1 |
| 11 | Spring | Stainless Steel | Type 304 | 1 |
| 12 | Bracket | Polypropylene | – – – | 1 |
| 13 | 'O' Ring | Nitrile Rubber | IS 5192 – 1 | 1 |
| 14 | Strainer | Plastic | – – – | 1 |




## Sizes / Dimensions

| Size (Inches) | Size (mm) | A | B ~ |
|---|---|---|---|
| 1/2 | 15 | 1/2″ | 75 |
| 3/4 | 20 | 3/4″ | 95 |
| 1 | 25 | 1″ | 97 |

~ ±10

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