

## Forged Brass Ball Valve

# FBV 1

### PRODUCT DESCRIPTION

Product : 'SANT' Ball Valve  
 Body Material cum Standard : Brass (Nickel Plated) IS:6912 Gr.FLB  
 Description : Two piece design, Lever operated  
 Type of Seat : Renewable PTFE Seat  
 Port Opening: Standard Bore  
 Trim : Brass  
 Gland Packing : Teflon  
 End Details : Screwed female threads to BS:21 Parallel



### APPLICATION

- Water
- Oil
- Gas
- Steam

### TESTING & CERTIFICATION

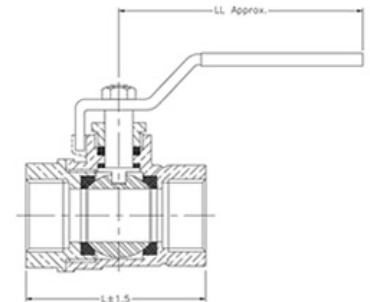
Body Test Pressure : 40Kg/cm<sup>2</sup>g Hyd.  
 Seat Test Pressure : 25Kg/cm<sup>2</sup>g Hyd.

### MATERIALS

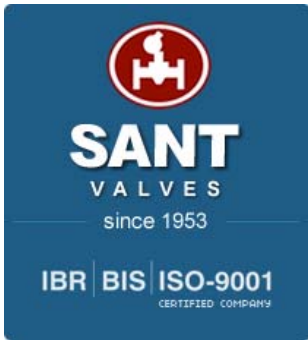
| Components | Materials           | Specifications |
|------------|---------------------|----------------|
| Nut        | MS                  | -              |
| Gland      | Brass               | -              |
| Gland Seal | PTFE                | -              |
| Connector  | Brass               | -              |
| Body Seat  | PTFE                | -              |
| Ball       | Brass Chrome Plated | -              |
| Stem       | Brass               | -              |
| Body       | Brass               | -              |
| Lever      | MS                  | -              |

### DIMENSIONS IN mm

| Nominal Size | Nominal Size (Inches) | L   | LL  |
|--------------|-----------------------|-----|-----|
| 8            | 1/4                   | 41  | 100 |
| 10           | 3/8                   | 45  | 100 |
| 15           | 1/2                   | 50  | 100 |
| 20           | 3/4                   | 54  | 120 |
| 25           | 1                     | 65  | 130 |
| 32           | 1.1/4                 | 75  | 150 |
| 40           | 1.1/2                 | 88  | 170 |
| 50           | 2                     | 105 | 170 |
| 65           | 2.1/2                 | 124 | 225 |
| 80           | 3                     | 148 | 225 |
| 100          | 4                     | 212 | 240 |



" For Guaranteed Trouble Free Service "



# Cast Iron Butterfly Valve

## Wafer Type

# CR 21A

### PRODUCT DESCRIPTION

Product : 'SANT' Cast Iron Butterfly Valve  
 Product Standard : Lever Operated / Gear & Handwheel Operated  
 Pressure / Class / Rating : PN 1.6  
 Body Material cum Standard : Cast Iron IS:210 Gr.FG200  
 Description : Wafer Type  
 Type of Seat : Nitrile Rubber Lining  
 Type of Disc : SG Iron  
 Trim : SS AISI410  
 End Details : Suitable insertion between Flanges as per BS 10 Table D/E ANSI B 16.1 CI-125



### APPLICATION

- Water
- Oil
- Gas
- Steam

### TESTING & CERTIFICATION

Body Test Pressure : 2.4MPa (348 Psig) Hyd  
 Seat Test Pressure : 1.6MPa (232 Psig) Hyd

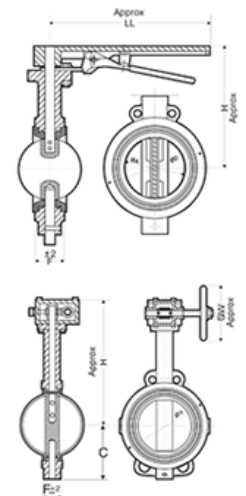
Note : Gear system will be provided for size above 150mm.  
 Our Works' Test Certificate is furnished with every supply.

### MATERIALS

| Components        | Materials                | Specifications                 |
|-------------------|--------------------------|--------------------------------|
| Body              | Cast Iron                | IS:210 Gr.FG200                |
| Disc              | S.G. Iron                | IS:1865 Gr.SG400/12            |
| Shaft             | Stainless Steel          | AISI410                        |
| Seat              | Elastomers (Nitrile)     | --                             |
| Gear              | MS                       | --                             |
| Lever / Handwheel | Cast Iron / Carbon Steel | IS:210 Gr.FG200 / IS:2004:1991 |

### DIMENSIONS IN mm

| Nominal Size | Nominal Size (Inches) | F  | C   | D   | LL  | H   | W   |
|--------------|-----------------------|----|-----|-----|-----|-----|-----|
| 40           | 1.1/2                 | 33 | 61  | 82  | 200 | 145 | --  |
| 50           | 2                     | 43 | 65  | 95  | 200 | 150 | --  |
| 65           | 2.1/2                 | 46 | 77  | 106 | 200 | 160 | --  |
| 80           | 3                     | 46 | 85  | 124 | 200 | 170 | --  |
| 100          | 4                     | 52 | 102 | 152 | 260 | 195 | --  |
| 125          | 5                     | 56 | 112 | 173 | 260 | 210 | --  |
| 150          | 6                     | 56 | 132 | 209 | 260 | 235 | --  |
| 200          | 8                     | 60 | 170 | 260 | --  | 335 | 225 |
| 250          | 10                    | 68 | 210 | 315 | --  | 375 | 225 |
| 300          | 12                    | 78 | 240 | 370 | --  | 400 | 225 |



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## Cast Iron Ball Valve

Class 125, Screwed (ISI Marked)

# CI 17

### PRODUCT DESCRIPTION

Product : 'SANT' Cast Iron Ball Valve  
 Product Standard : IS:9890 Class 125  
 Type of Pattern : Straight  
 Body Material cum Standard : Cast Iron IS:210 Gr.FG200  
 Description : Two piece design  
 Type of Seat : Renewable teflon  
 Trim : SS AISI410 Stem Stainless Steel, AISI304 Ball  
 Gland Packing : Teflon Rings  
 End Details : Screwed female BSP Parallel threads to BS 21.



### APPLICATION

- Water
- Oil
- Gas
- Steam

NOTE : Cover will be screwed in type for 50mm valve size & below

### TESTING & CERTIFICATION

Body Test Pressure : 300 Psig. Hyd.  
 Seat Test Pressure : 220 Psig. Hyd., 100 Psig. Air

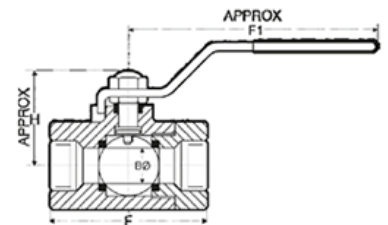
Our Works' Test Certificate is furnished with every supply.

### MATERIALS

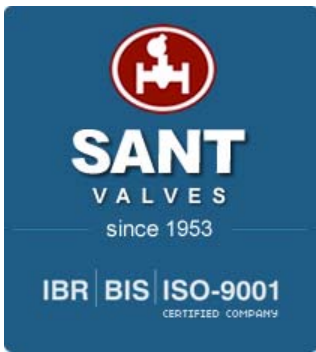
| Components                             | Materials                 | Specifications      |
|--|---------------------------|---------------------|
| Body                                   | Cast Iron                 | IS:210 Gr.FG200     |
| Ball                                   | Stainless Steel           | AISI304             |
| Spindle                                | Stainless Steel           | AISI410             |
| Body Seats & Gland Seals               | Teflon                    | PTFE                |
| Stopper, Gland Nut, Handle & Fasteners | Mild Steel                | IS:2062:1992        |
| Hand Sleeve                            | PVC                       | --                  |
| Gasket                                 | Compressed Asbestos Fibre | IS:2712:1998 Gr.W/1 |

### DIMENSIONS IN mm

| Nominal Size | Nominal Size (Inches) | F (Screwed) | F1  | H   |
|--------------|-----------------------|-------------|-----|-----|
| 15           | 1/2                   | 72          | 135 | 40  |
| 20           | 3/4                   | 87          | 135 | 55  |
| 25           | 1                     | 100         | 160 | 65  |
| 32           | 1.1/4                 | 121         | 160 | 80  |
| 40           | 1.1/2                 | 121         | 195 | 85  |
| 50           | 2                     | 135         | 195 | 95  |
| 65           | 2.1/2                 | 151         | 250 | 110 |
| 80           | 3                     | 172         | 260 | 130 |
| 100          | 4                     | 217         | 325 | 145 |



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## Cast Iron Globe Steam Valve Flanged (IBR Approved)

# IBR CI 1A

### PRODUCT DESCRIPTION

Product : 'SANT' Cast Iron Globe Steam Valve  
 Product Standard : BS:5152 / DIN 86251  
 Type of Pattern : Straight Pattern  
 Pressure / Class / Rating : PN 16  
 Body Material cum Standard : Cast Iron IBR 86 to 93 Gr.A  
 Description : Bolted Bonnet, Outside Screw & Yoke Type Rising Stem  
 Type of Seat : Renewable seat  
 Type of Disc : Renewable disc  
 Trim : SS AISI410  
 Gland Packing : Graphited Asbestos  
 End Details : Flanges as per DIN 2533 RF (PN 16) Undrilled



### APPLICATION

- Water
- Oil
- Gas
- Steam

### TESTING & CERTIFICATION

Valve Size : 150mm & below  
 Rating : PN 16  
 Body Test Pressure : 26Kg/cm<sup>2</sup>g (Hyd.)  
 Seat Test Pressure : 16Kg/cm<sup>2</sup>g (Hyd.)  
 Backseat Pressure : 16Kg/cm<sup>2</sup>g (Hyd.)  
 Working Pressure : Max BOP 13Kg/cm<sup>2</sup>g at 220°C Steam

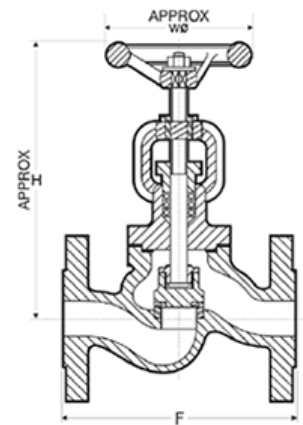
Test Certificate in Form III-C as per IBR is furnished with every supply.

### MATERIALS

| Components   | Materials           | Specifications    |
|--|---------------------|-------------------|
| Body, Bonnet, Valve Disc, Gland & Handwheel                        | Cast Iron           | IBR 86 to 93 Gr.A |
| Body Seat Ring, Valve Disc Ring, Spindle, Yoke<br>Bush & Check Nut | Stainless Steel     | AISI410           |
| Gasket   | Compressed Asbestos | IS:2712 Gr.C      |
| Gland Packing  | Graphited Asbestos  | --                |
| Fasteners  | Mild Steel          | --                |
| Yoke Bush  | Bronze              | --                |

### DIMENSIONS IN mm

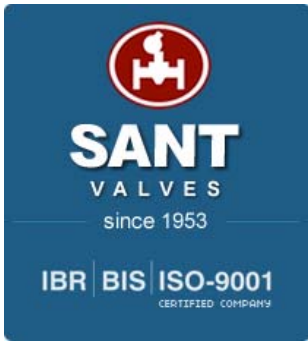
| Nominal Size | Nominal Size (Inches) | F   | H (Open) | W   |
|--------------|-----------------------|-----|----------|-----|
| 15           | 1/2                   | 130 | 180      | 100 |
| 20           | 3/4                   | 150 | 190      | 100 |
| 25           | 1                     | 160 | 210      | 100 |
| 32           | 1.1/4                 | 180 | 240      | 125 |
| 40           | 1.1/2                 | 200 | 260      | 160 |
| 50           | 2                     | 230 | 270      | 160 |
| 65           | 2.1/2                 | 290 | 310      | 200 |
| 80           | 3                     | 310 | 360      | 200 |
| 100          | 4                     | 350 | 425      | 250 |
| 125          | 5                     | 400 | 480      | 250 |
| 150          | 6                     | 480 | 550      | 315 |



" For Guaranteed Trouble Free Service "

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# Cast Steel Globe Valve

PN 40 (IBR Approved)

# CS 1

## PRODUCT DESCRIPTION

Product : 'SANT' Cast Steel Globe Valve  
 Product Standard : BS 5160 / DIN 2401  
 Pressure / Class / Rating : PN 40  
 Body Material cum Standard : CCS (ASTM A216 Gr.WCB)  
 Description : Bolted Bonnet, OS & Yoke Type, Rising Stem  
 Type of Seat : Renewable seat ; Type of Disc : Renewable disc  
 Trim : SS AISI410  
 Gland Packing : Expanded Graphite packing  
 Ends : Flanges as per BS 4504 Part-1 / DIN 2545 RF undrilled



## APPLICATION

- Water
- Oil
- Gas
- Steam

## TESTING & CERTIFICATION

Body Test Pressure : 76 Bar g (1100 Psig) Hyd.  
 Seat & Back Seat Test Pressure : 40 Bar g (580 Psig) Hyd.

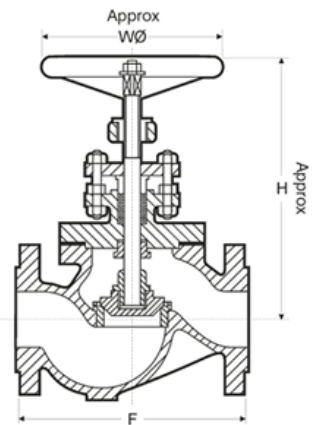
Test Certificate in Form III-C as per IBR is furnished with every supply.

## MATERIALS

| Components  | Materials                 | Specifications   |
|---|---------------------------|------------------|
| Body, Bonnet, Gland Flange  | Cast Carbon Steel         | ASTM A216 Gr.WCB |
| Body Seat Ring, Valve Disc, Disc Stem Nut, Backseat Bush, Stem, Gland | Stainless Steel           | AISI410          |
| Yoke Bush   | Al - Bronze / S.S.        | AISI410          |
| Gasket  | Compressed Asbestos Fibre | IS:2712 Gr.C     |
| Gland Packing   | Expanded Graphite Packing | --               |
| Handwheel   | Cast Iron                 | IS:210 Gr.FG200  |
| Fasteners   | Mild Steel                | --               |

## DIMENSIONS IN mm

| Nominal Size | Nominal Size (Inches) | F   | H   | W   |
|--------------|-----------------------|-----|-----|-----|
| 15           | 1/2                   | 130 | 200 | 125 |
| 20           | 3/4                   | 150 | 205 | 125 |
| 25           | 1                     | 160 | 240 | 160 |
| 32           | 1.1/4                 | 180 | 245 | 160 |
| 40           | 1.1/2                 | 200 | 300 | 200 |
| 50           | 2                     | 230 | 300 | 200 |
| 65           | 2.1/2                 | 290 | 350 | 250 |
| 80           | 3                     | 310 | 360 | 250 |
| 100          | 4                     | 350 | 405 | 315 |
| 125          | 5                     | 400 | 440 | 315 |
| 150          | 6                     | 480 | 580 | 400 |
| 200          | 8                     | 600 | 640 | 400 |



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# Cast Iron Reflux Valve Swing Check Type

Non Return Valve, Straight Type

# CR 31A

## PRODUCT DESCRIPTION

Product : 'SANT' Cast Iron Reflux Valve Swing Check Type (Non Return Valve)  
 Product Standard : IS 5312 Part-1 PN-1.6  
 Type of Pattern : Straight Type  
 Body Material cum Standard : Cast Iron IS:210 Gr.FG200  
 Description : Bolted Cover  
 Type of Seat : Integral / Renewable seat  
 Type of Disc : Renewable disc  
 End Details : Flanges as per IS:1538



## APPLICATION

- Water
- Oil
- Gas
- Steam

## TESTING & CERTIFICATION

Rating : PN 1.6  
 Body Test Pressure : 2.4MPa Hyd.  
 Seat Test Pressure : 1.6MPa Hyd.

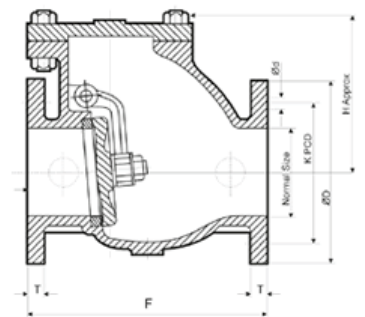
Our Works' Test Certificate is furnished with every supply.

## MATERIALS

| Components               | Materials                     | Specifications                   |
|--------------------------|-------------------------------|----------------------------------|
| Cover, Body, Hinge, Disc | Cast Iron                     | IS:210 Gr.FG200                  |
| Bolts & Nuts             | Carbon Steel                  | IS:1363 PART 1/3                 |
| Gasket                   | Rubber                        | IS:638 Type B                    |
| Hinge Pin                | Stainless Steel               | AISI410                          |
| Disc Ring                | Rubber / Leaded Tin Bronze    | IS:318 Gr.LTB2                   |
| Body Seat Ring           | Cast Iron / Leaded Tin Bronze | IS:210 Gr.FG200 / IS:318 Gr.LTB2 |
| Washer                   | M.S.                          | --                               |
| Stud & Nut               | Carbon Steel                  | --                               |
| Side Plug                | Leaded Tin Bronze             | IS:318 Gr.LTB2                   |

## DIMENSIONS IN mm

| Nominal Size | Nominal Size (Inches) | F     | H   | ØD  | T    | N x ØW  | K   |
|--------------|-----------------------|-------|-----|-----|------|---------|-----|
| 50           | 2                     | 203±2 | 135 | 165 | 16   | 4 x 19  | 125 |
| 65           | 2.1/2                 | 216±2 | 150 | 185 | 16   | 4 x 19  | 145 |
| 80           | 3                     | 241±2 | 170 | 200 | 21   | 4 x 19  | 160 |
| 100          | 4                     | 292±3 | 190 | 220 | 22   | 8 x 19  | 180 |
| 125          | 5                     | 330±3 | 225 | 250 | 22.5 | 8 x 19  | 210 |
| 150          | 6                     | 356±3 | 245 | 285 | 23   | 8 x 23  | 240 |
| 200          | 8                     | 495±3 | 295 | 340 | 24.5 | 8 x 23  | 295 |
| 250          | 10                    | 622±4 | 340 | 395 | 26   | 12 x 23 | 350 |
| 300          | 12                    | 698±4 | 395 | 445 | 27.5 | 12 x 23 | 400 |



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# Cast Iron Sluice Valve

Flanged, PN1.6 / PD Type (ISI Marked)

# CR 32B

## PRODUCT DESCRIPTION

Product : 'SANT' Cast Iron Sluice Valve  
 Product Standard : IS:14846  
 Pressure / Class / Rating : PN 1.6 PD Type  
 Body Material cum Standard : Cast Iron IS:210 Gr.FG200  
 Description : Bolted Bonnet, Inside Screw & Non Rising Stem  
 Type of Seat : Renewable seat  
 Type of Disc : Solid wedge  
 Trim : Cu-Alloy Rings, stem SS (12 Cr.12)  
 Gland Packing : Jute & Hemp / Rubber  
 End Details : Flanges as per IS:1538 FF drilled



## APPLICATION

- Water
- Oil
- Gas
- Steam

## TESTING & CERTIFICATION

Body Test Pressure : PN 1.6  
 Seat Test Pressure : 2.4MPa (Hyd.)  
 1.6MPa (Hyd.)

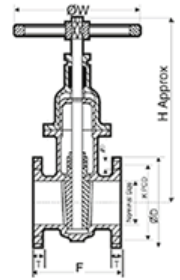
Our Works' Test Certificate is furnished with every supply.

## MATERIALS

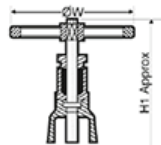
| Components   | Materials            | Specifications       |
|--|----------------------|----------------------|
| Cap, Gland, Bonnet, Thrust Plate, Body, Wedge, Handwheel, Stuffing Box | Cast Iron            | IS:210 Gr.FG200      |
| Screw, Bolts, Nuts   | Carbon Steel         | IS:1363              |
| Stem   | H.T. Brass / S.S.    | IS:6912 FLB / 12cr12 |
| Gland Packing  | Jute & Hemp / Rubber | IS:5414 / IS:638     |
| Body, Seat, Wedge Ring, Wedge Nut                                      | Leaded Tin Bronze    | IS:318 Gr.LTB2       |
| Gasket   | Rubber               | IS:638 Type B        |

## DIMENSIONS IN mm

| Nominal Size | Nominal Size (Inches) | F     | H   | D   | T    | N x d   | K   | W   |
|--------------|-----------------------|-------|-----|-----|------|---------|-----|-----|
| 50           | 2                     | 178±2 | 325 | 165 | 16   | 4 x 19  | 125 | 280 |
| 65           | 2.1/2                 | 190±2 | 360 | 185 | 16   | 4 x 19  | 145 | 280 |
| 80           | 3                     | 203±2 | 400 | 200 | 21   | 4 x 19  | 160 | 280 |
| 100          | 4                     | 229±2 | 450 | 220 | 22   | 8 x 19  | 180 | 360 |
| 125          | 5                     | 254±2 | 485 | 250 | 22.5 | 8 x 19  | 210 | 360 |
| 150          | 6                     | 267±2 | 545 | 285 | 23   | 8 x 23  | 240 | 360 |
| 200          | 8                     | 292±2 | 675 | 340 | 24.5 | 8 x 23  | 295 | 450 |
| 250          | 10                    | 330±3 | 770 | 395 | 26   | 12 x 23 | 350 | 640 |
| 300          | 12                    | 356±3 | 875 | 445 | 27.5 | 12 x 23 | 400 | 640 |



DESIGN FOR SIZE 150MM AND BELOW



DESIGN FOR SIZE 200 MM AND ABOVE

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## S.S. Investment Casting Ball Valve PN 40

# CI 18A

### PRODUCT DESCRIPTION

Product : 'SANT' Investment Casting Ball Valve (CF-8)  
 Product Standard : PN40  
 Body Material cum Standard : SS AISI304 (CF-8)  
 Description : Two piece design  
 Type of Seat : Renewable teflon  
 Trim : Stem, Ball Stainless Steel AISI304  
 Gland Packing : Teflon  
 End Details : Screwed female BSP Parallel threads to BS 21.



### APPLICATION

- Water
- Oil
- Gas
- Steam

### TESTING & CERTIFICATION

Body Test Pressure : 60Kg/cm<sup>2</sup>g Hyd.  
 Seat & Back Seat Test Pressure : 40Kg/cm<sup>2</sup>g Hyd.

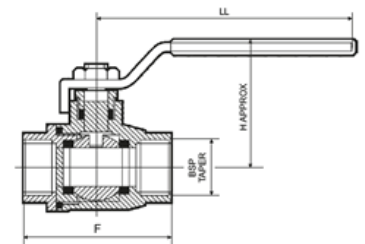
Our Works' Test Certificate is furnished with every supply.

### MATERIALS

| Components                                   | Materials       | Specifications  |
|--|-----------------|-----------------|
| Lever  | Stainless Steel | with PVC Sleeve |
| Nut, Gland, Ball, Stem, Body, Body Connector | Stainless Steel | AISI304 / CF-8  |
| Packing Ring, Seat, Gasket                   | Teflon          | --              |

### DIMENSIONS IN mm

| Nominal Size | Nominal Size (Inches) | F   | H  | LL  |
|--------------|-----------------------|-----|----|-----|
| 15           | 1/2                   | 58  | 52 | 98  |
| 20           | 3/4                   | 66  | 58 | 125 |
| 25           | 1                     | 79  | 68 | 145 |
| 32           | 1.1/4                 | 90  | 75 | 145 |
| 40           | 1.1/2                 | 105 | 88 | 200 |
| 50           | 2                     | 124 | 96 | 200 |

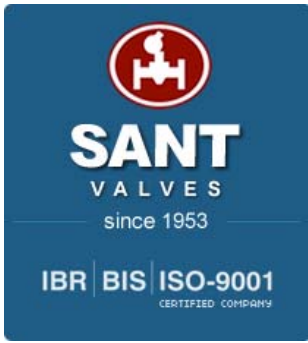


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# Cast Iron Y Type Strainer

Flanged

# CI 16A

## PRODUCT DESCRIPTION

Product : 'SANT' Cast Iron Y Type Strainer  
 Type of Pattern : Y Type  
 Body Material cum Standard : Cast Iron IS:210 Gr.FG200  
 Description : Screwed / Bolted cover  
 Trim : SS AISI304 Screen having 1.2mm perforation  
 End Details : Flanges as per BS 10 Table F undrilled



## APPLICATION

- Water
- Oil
- Gas
- Steam

NOTE : Cover will be screwed in type for 50mm valve size & below

## TESTING & CERTIFICATION

Body Test Pressure : 21.09Kg/cm<sup>2</sup>g (300 Psig.) Hyd.  
 Working Pressure : 10.54Kg/cm<sup>2</sup>g (150 Psig.) Hyd.

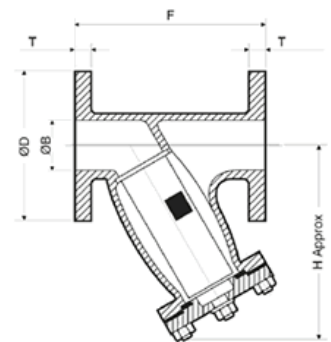
Our Works' Test Certificate is furnished with every supply.

## MATERIALS

| Components  | Materials                 | Specifications  |
|-------------|---------------------------|-----------------|
| Body, Cover | Cast Iron                 | IS:210 Gr.FG200 |
| Screen      | Stainless Steel           | AISI304         |
| Gasket      | Compressed Asbestos Fibre | IS:2712 Gr.C    |
| Fasteners   | Mild Steel                | --              |
| Plug        | Mild Steel / S.S.         | -- / AISI304    |

## DIMENSIONS

| Nominal Size (mm) | Nominal Size (Inches) | F (mm) | H (mm) | D (Inches) | T (Inches) | B (mm) |
|-------------------|-----------------------|--------|--------|------------|------------|--------|
| 25                | 1                     | 150    | 120    | 4.3/4      | 1/2        | 25     |
| 32                | 1.1/4                 | 165    | 128    | 5.1/4      | 5/8        | 35     |
| 40                | 1.1/2                 | 185    | 148    | 5.1/2      | 5/8        | 38     |
| 50                | 2                     | 205    | 180    | 6.1/2      | 3/4        | 50     |
| 65                | 2.1/2                 | 235    | 242    | 7.1/4      | 3/4        | 63.5   |
| 80                | 3                     | 255    | 270    | 8          | 3/4        | 76     |
| 100               | 4                     | 350    | 290    | 9          | 7/8        | 100    |
| 125               | 5                     | 395    | 390    | 11         | 1          | 125    |
| 150               | 6                     | 430    | 420    | 12         | 1          | 150    |
| 200               | 8                     | 475    | 485    | 14.1/2     | 1.1/8      | 200    |
| 250               | 10                    | 560    | 570    | 17         | 1.1/8      | 250    |
| 300               | 12                    | 660    | 660    | 19.1/4     | 1.1/4      | 300    |



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