## CAST IRON SLUICE VALVES

**CLASS 125**

**SPECIFICATIONS**

BOLTED BONNET, INSIDE SCREW & NON RISING STEM, FLANGED ENDS AS PER ANSI.B 16.1 CLASS 125, UNLESS OTHERWISE SPECIFIED IN THE CONTRACT.

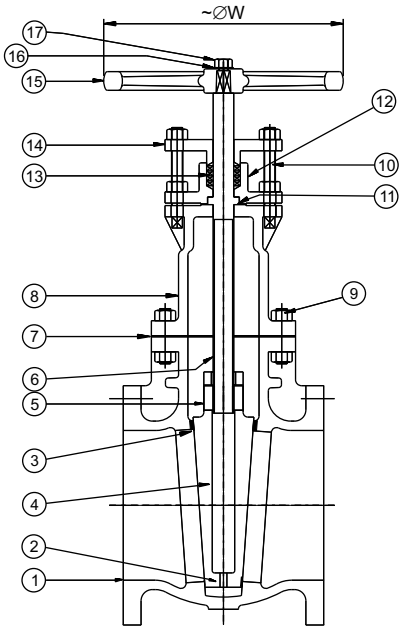
**MAX. PERMISSIBLE WORKING PRESSURE**

**SIZES≤ 300 mm**

13.8 bar FOR WATER SUPPLY UPTO 45°C

**SIZES> 300mm<600mm**

10.3 bar FOR WATER SUPPLY UPTO 45°C

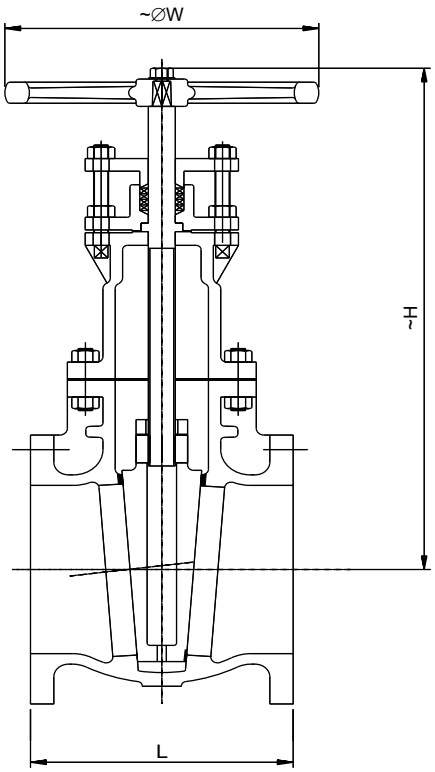



**STANDARD MATERIAL COMBINATION**

| P.NO | QTY. | DESCRIPTION | MATERIALS | |
|---|---|---|---|---|
| | | | Cu. ALLOY TRIM | ALL IRON |
| 1 | 1 | BODY | C.I TO EN 1561 Gr. GJL200 | C.I TO EN 1561 Gr. GJL200 |
| 2 | 2 | BODY SEAT FACING | G.M. TO EN 1982 Gr. CC491K (RENEWABLE) | C.I TO EN 1561 Gr. GJL200 (INTEGRAL) |
| 3 | 1 | WEDGE FACING | G.M. TO EN 1982 Gr. CC491K (RENEWABLE) | C.I TO EN 1561 Gr. GJL200 (INTEGRAL) |
| 4 | 1 | WEDGE | C.I TO EN 1561 Gr. GJL200 | C.I TO EN 1561 Gr. GJL200 |
| 5 | 1 | WEDGE NUT | C.I TO EN 1561 Gr. GJL491K | C.I TO EN 1561 Gr. GJL200 |
| 6 | 1 | STEM | HT. BRASS TO IS 6912 Gr. FHTB1 | CARBON STEEL TO IS 2062 Gr.B |
| 7 | 1 | BONNET GASKET | COMPRESSED FIBRE TO IS 2712 Gr.C | COMPRESSED FIBRE TO IS 2712 Gr. C |
| 8 | 1 | BONNET | C.I TO EN 1561 Gr. GJL200 | C.I TO EN 1561 Gr. GJL200 |
| 9 | TO SUIT | BOLTS<br>NUTS | CARBON STEEL TO BS 916 | CARBON STEEL TO BS 916 |
| 10 | 2<br>4 | T-HEAD BOLTS<br>NUTS | CARBON STEEL (MIN.UTS 392/mm2)<br>CARBON STEEL TO BS 916 | CARBON STEEL (MIN.UTS 392/mm2)<br>CARBON STEEL TO BS 916 |
| 11 | 1 | GASKET | COMPRESSED FIBRE TO IS 2712 Gr.C | COMPRESSED FIBRE TO IS 2712 Gr. C |
| 12 | 1 | STUFFING BOX | C.I TO EN 1561 Gr. GJL200 | C.I TO EN 1561 Gr. GJL200 |
| 13 | - | GLAND PACKING | JUTE & HEMP TO IS 5414<br>OR ASBESTOS TO IS 4687 | JUTE & HEMP TO IS 5414<br>OR ASBESTOS TO IS 4687 |
| 14 | 1 | GLAND | C.I TO EN 1561 Gr. GJL200 | C.I TO EN 1561 Gr. GJL200 |
| 15 | 1 | HAND WHEEL | C.I TO EN 1561 Gr. GJL200 | C.I TO EN 1561 Gr. GJL200 |
| 16 | 1 | WASHER | CARBON STEEL (ANY GRADE) | CARBON STEEL (ANY GRADE) |
| 17 | 1 | SET SCREW OR NUT | CARBON STEEL TO BS 916 | CARBON STEEL TO BS 916 |

NOTE: The above data is subject to change without notice due to our continuing product improvement program.

## CAST IRON SLUICE VALVES — CLASS 125




ALL IRON SLUICE VALVES
FIG. NO.: CI004

SLUICE VALVES WITH Cu-ALLOY TRIM
FIG. NO.: CI006

| CATALOGUE FIG. NOS | | | |
|---|---|---|---|
| ITEM | SIZES | FIG.NO. | END DETAILS |
| ALL IRON SLUICE VALVE -CLASS 125 | ≤300mm | CI-004FF | FLANGED ENDS TO ANSIB 16.1 CLASS 125 |
| SLUICE VALVE WITH Cu-ALLOY TRIM CLASS 125 | ≤300mm | CI-006FF | FLANGED ENDS TO ANSIB 16.1 CLASS 125 |

**DIMENSIONAL DATA**

| DN<br>NPS | | 40<br>1 ½ | 50<br>2 | 65<br>2 ½ | 80<br>3 | 100<br>4 | 125<br>5 | 150<br>6 | 200<br>8 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | | 140 | 143 | 159 | 172 | 194 | 203 | 213 | 248 | | | | |
| H | | 215 | 238 | 270 | 300 | 370 | 420 | 480 | 635 | | | | |
| HW | | 127 | 140 | 140 | 178 | 203 | 229 | 229 | 254 | | | | |
| ITEM CODE NOS. | Aprox. Wt. ⍋ | | | | | | | | | | | | |
| | **ALL IRON** | CI004I | CI004J | CI004K | CI004L | CI004N | CI004O | CI004P | CI004R | | | | |
| | Aprox. Wt. ⍋ | | | | | | | | | | | | |
| | **Cu-ALLO TRIM** | CI006I | CI006J | CI006K | CI006L | CI006N | CI006O | CI006P | CI006R | | | | |

| ITEM | SIZES | TEST PRESSURES | | |
|---|---|---|---|---|
| | | SHELL TEST (HYDROSTATIC) | SEAT TEST (HYDROSTATIC) | STANDARD NO. |
| ALL IRON SLUICE VALVE -CLASS 125 | ≤300mm | 20.7 bar | 15.18 bar | BS 6755 PART-1 |
| SLUICE VALVE WITH Cu-ALLOY TRIM-CLASS 125 | <300mm | 20.7 bar | 15.18 bar | BSEN-12266-1 |

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## CAST IRON SLUICE VALVES-14846:2000

**PN 1, PN 1.6**

**SPECIFICATIONS**

BOLTED BONNET, INSIDE SCREW & NON RISING STEM, FLANGED AS PER TABLE 4 OF IS 14846 (FOR SIZES 50 & 65mm) & IS 1538 (FOR SIZES ABOVE 65mm), UNLESS OTHERWISE SPECIFIED IN THE CONTRACT.

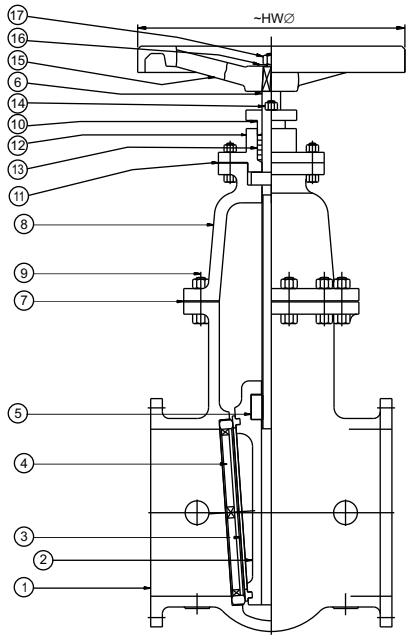
**MAX. PERMISSIBLE WORKING PRESSURE**

**NORMINAL PRESURE PN 1**

1MPa FOR WATER SUPPLY UPTO 45°C

**NOMINAL PRESSURE PN 1.6**

1.6MPa FOR WATER SUPPLY UPTO 45°C




K=PCD
n=No.OF HOLES
Ød=DIA OF HOLES


### STANDARD MATERIAL COMBINATION

| P.No | QTY | DESCRIPTION | MATERIALS | |
|---|---|---|---|---|
| | | | Cu-ALLOY TRIM | S.S TRIM |
| 1 | 1 | BODY | C.I TO IS 210 Gr. FG. 200 | C.i TO IS 210 Gr. FG.200 |
| 2 | 2 | BODY SEAT RING | LEADED TIN BRONZE TO IS318Gr. LTB2 | S.S TO IS 1570 (PART 5) Gr.20Cr. 12 |
| 3 | 2 | WEDGE FACING RING | LEADED TIN BRONZE TO IS318Gr. LTB2 | S.S TO IS 1570 (PART 5) Gr.20Cr. 12 |
| 4 | 1 | WEDGE | C.I TO IS 210 Gr. FG. 200 | C.I TO IS 210 Gr. FG. 200 |
| 5 | 1 | WEDGE NUT | LEADED TIN BRONZE TO IS318Gr. LTB2 | H.T. BRASS TO IS 320Gr.HT2 |
| 6 | 1 | STEM | H.T BRASS TO IS 6912Gr. FHB1 | S.S TO IS 6603 GR. 04 Cr. 18 NI. 10 ASTM 276 TYPE 410 |
| 7 | 1 | BONNET GASKET | COMPRESSED FIBRE TO IS 2712Gr.C OR RUBBER TO IS 638TYPE B | COMPRESSED FIBRE TO IS 2712Gr.C OR RUBBER TO IS 638TYPE B |
| 8 | 1 | BONNET | C.I TO IS 210 Gr. FG. 200 | C.I TO IS 210 Gr. FG. 200 |
| 9 | TO SUIT | BOLTS NUTS | CARBON STEEL TO IS 1363 CLASS 4.6 CARBON STEEL TO IS 638TYPE B | CARBON STEEL TO IS 1363 CLASS 4.6 CARBON STEEL TO IS 638TYPE B |
| 10 | 1 | GLAND NUT | C.I TO IS 210 Gr. FG. 200 | C.I TO IS 210 Gr. FG. 200 |
| 11 | 1 | STUFFING BOX GASKET | COMPRESSED FIBRE TO IS 2712Gr.C OR RUBBER TO IS 638TYPE B | COMPRESSED FIBRE TO IS 2712Gr.C OR RUBBER TO IS 638TYPE B |
| 12 | 1 | STUFFING BOX | C.I TO IS 210 Gr. FG. 200 | C.I TO IS 210 Gr. FG. 200 |
| 13 | 1 | GLAND PACKING | JUTE & HEMP TO IS 5414 OR RUBBER TO IS 638TYPE B | JUTE & HEMP TO IS 5414 OR RUBBER TO IS 638TYPE B |
| 14 | 1 | GLAND | C.I TO IS 210 Gr. FG. 200 | C.I TO IS 210 Gr. FG. 200 |
| 15 | 1 | HAND WHEEL | C.I TO IS 210 Gr. FG. 200 | C.I TO IS 210 Gr. FG. 200 |
| 16 | 1 | WASHER | CARBON STEEL (ANY GRADE) | CARBON STEEL (ANY GRADE) |
| 17 | 1 | SET SCREW OR NUT | C.S TO IS1363 CL. 4.6 OR IS 1363 CL.4 | C.S TO IS1363 CL. 4.6 OR IS 1363 CL.4 |

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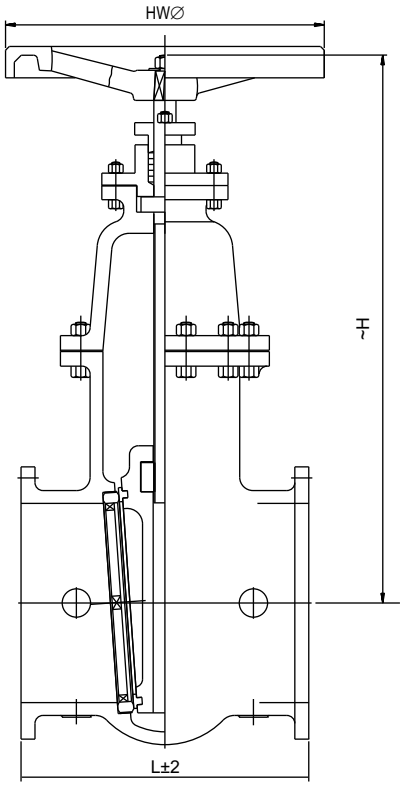
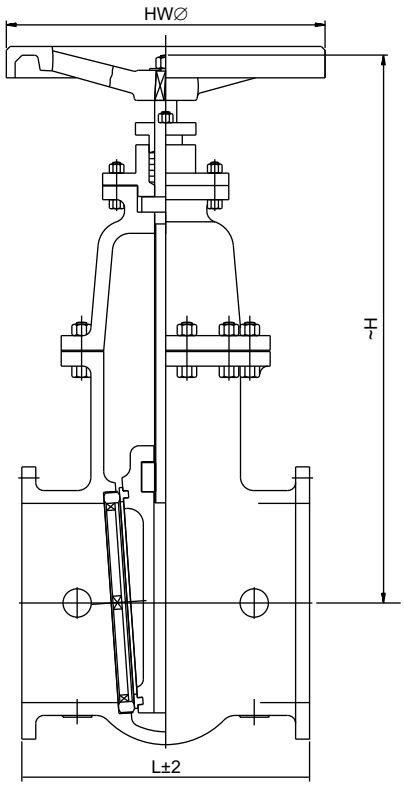
## CAST IRON SLUICE VALVES-14846:2000

**PN 1, PN 1.6**




SLUICE VALVE-PN1
FIG. NO. : CI008




SLUICE VALVE-PN1.6
FIG. NO. : CI043

### CATALOGUE FIG. NOS

| ITEM | FIG. NO | END DETAILS |
|---|---|---|
| CAST IRON SLUCE VALVE-IS 14846 Pn1 (Cu-ALLOY TRIM) | CI-008 FF | FLANGED ENDS TO IS 1538 FF |
| CAST IRON SLUCE VALVE-IS 14846 Pn1.6 (Cu-ALLOY TRIM) | CI-043 FF | FLANGED ENDS TO IS 1538 FF |

### DIMENSIONAL DATA

| DN<br>NPS | | 50<br>2 | 65<br>2 ½ | 80<br>3 | 100<br>4 | 125<br>5 | 150<br>6 | 200<br>8 | 250<br>10 | 300<br>12 |
|---|---|---|---|---|---|---|---|---|---|---|
| L | | 178 | 190 | 203 | 229 | 254 | 267 | 292 | 330 | 356 |
| H (MAXIMUM) | | 365 | 380 | 425 | 470 | 485 | 595 | 725 | 835 | 910 |
| HW PN-1 | | 225 | 225 | 225 | 320 | 320 | 320 | 360 | 400 | 400 |
| HW PN-1.6 | | 280 | 280 | 280 | 360 | 360 | 360 | 450 | 640 | 640 |
| Aprox. Wt. ⍋ | | | | | | | | | | |
| ITEM CODE NOS. | PN-1 | Cl 008 J | Cl 008 K | Cl 008 L | Cl 008 N | Cl 008 O | Cl 008 P | Cl 008 R | Cl 008 S | Cl 008 T |
| | Aprox. Wt. ⍋ | | | | | | | | | |
| | PN-1.6 | Cl 043 J | Cl 043 K | Cl 043 L | Cl 043 N | Cl 043 O | Cl 043 P | Cl 043 R | Cl 043 S | Cl 043 T |

### TEST PRESSURES

| NOMINAL PRESSURE RATING | SHELL TEST (HYDROSTATIC) | SEAT TEST (HYDROSTATIC) | STANDARD NO. |
|---|---|---|---|
| PN1 | 1.5 MPa | 1 Mpa | IS 14846:2000 |
| PN 1.6 | 2.4 MPa | 1.6 Mpa | |

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