

BRONZE GATE VALVES

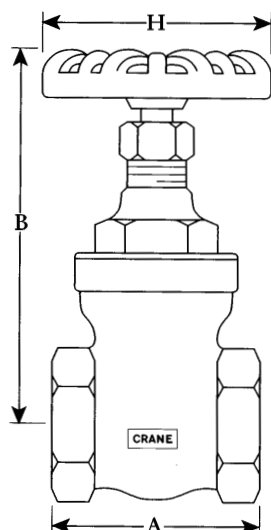
D159

PN32 BS 5154/B
Class 200 BS 1952
Screwed BS 21



D159

Solid wedge disk
Non-rising stem
Screwed bonnet
Handwheel



CRANE

Applications - only suitable for installations in which shock is either negligible or absent. Pressure increase attributable to shock is dependant solely on the flow velocity. Rapid closure of valves in liquid lines should be avoided. These valves are only recommended for infrequent on/off usage in water, steam, oil and gas piping systems. D159 offers excellent resistance to dezincification-type corrosion from aggressive water conditions.

Specification - BS 1400 LG2 is an 85/5/5/5 bronze which is resistant to wear, corrosion, seizing and galling caused by the rubbing contact of moving parts. Good flow and pressure drop characteristics are a feature of the full flow design. Conformity to BS 5154 PN32/B is the prime consideration. Valves are also suitable for Class 200 Imperial systems viz 400psi CWP; 200psi at 388° Fahrenheit. Threaded BS 21 taper (ISO 7).

P/T ratings

| Temperature °Celsius | -10° to +100° | 120° | 130° | 140° | 150° | 160° | 170° | 180° | 190° | 198° |
|----------------------|---------------|------|------|------|------|------|------|------|------|------|
| Pressure bar | 32,0 | 28,3 | 26,5 | 24,6 | 22,8 | 21,0 | 19,2 | 17,4 | 15,5 | 14,0 |

Materials

| Part | Material | BS | ASTM |
|---------------|------------------|--------------|------------|
| Body | No. 4 bronze | BS 1400-LG2 | B62-C83600 |
| Bonnet | No. 4 bronze | BS 1400-LG2 | B62-C83600 |
| Disk | No. 4 bronze | BS 1400-LG2 | B62-C83600 |
| Stem DN8-DN15 | Aluminium bronze | NES 834 Pt.2 | - |
| DN20-DN80 | No. 4 bronze | BS 1400-LG2 | B62-C83600 |

Note - aluminium silicon bronze – NES (Naval Engineering Standard) 834 Pt.2 – contains approximately 6% aluminium. This high quality bronze bar has exceptional corrosion resistance and high tensile strength (525Nm²). Useful for high pressure/temperature applications.

Testing - each valve individually tested to BS 5154.

Dimensions mm / Weights

| DN | in | A | B | H | kg |
|----|-------|----|-----|----|------|
| 15 | 1/2 | 53 | 85 | 44 | 0,47 |
| 20 | 3/4 | 57 | 105 | 52 | 0,60 |
| 25 | 1 | 65 | 116 | 65 | 0,92 |
| 32 | 1 1/4 | 72 | 145 | 70 | 1,41 |
| 40 | 1 1/2 | 77 | 165 | 78 | 1,92 |
| 50 | 2 | 84 | 189 | 92 | 2,72 |

Options - ends threaded ANSI B1.20.1; open/shut indicator (DN15 to DN80 only); locking device; gland packings for special services; sizes DN8, DN10, DN65 and DN80.

