

Fig. 33  
Bronze



### FEATURES & BENEFITS

The Fig. 33 incorporates a robust and high quality bronze body with integral seating surfaces for excellent corrosion resistance and reliability in building services applications.

- Non-rising stem design to minimise installation height
- Full bore design to ensure minimal pressure drop
- Adjustable gland packing for ease of maintenance
- Material selection results in superior dezincification (DZR) and corrosion resistance properties
- Body, bonnet and disc are made from low lead content bronze, typically 4-6%

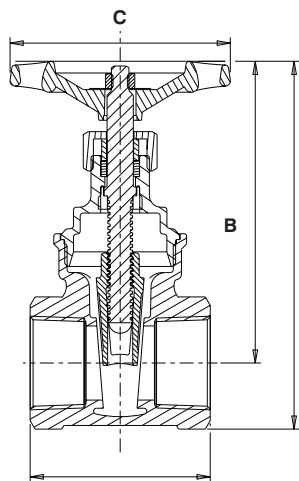


### MATERIAL SPECIFICATION

Component	Material	Specification	Sizes
Body	Bronze	BS EN 1982 (CC491K)	ALL
Bonnet	Bronze	BS EN 1982 (CC491K)	ALL
Stem	DZR Brass	BS EN 12164 CW602N	ALL
Disc	Bronze	BS EN 1982 (CC491K)	ALL
Stem Retainer	DZR Brass	BS EN 12164 CW602N	1/2 - 2
Stuffing Box	DZR Brass	BS EN 12164 CW602N	1/4 - 3/8
Gland	Brass	BS EN 12164 CW614N	1 - 2
Packing Nut	Brass	BS EN 12164 CW614N	1/2 - 2
Packing Ring	PTFE	-	ALL
Handwheel	Aluminium	-	ALL
Handwheel Nut	Brass	BS EN 12164 CW614N	ALL
Identification Plate	Aluminium	-	ALL

Please note: the photograph & dimensional drawing denotes sizes 1/2" - 2" only.

### DIMENSIONAL DRAWING



### PRESSURE/ TEMPERATURE RATING

BS EN 12288 PN32 Series B  
14 bar at 198°C  
32 bar from -10 to 100°C

### TEST PRESSURES (HYDRAULIC)

Shell: 48 bar  
Seat: 35.2 bar

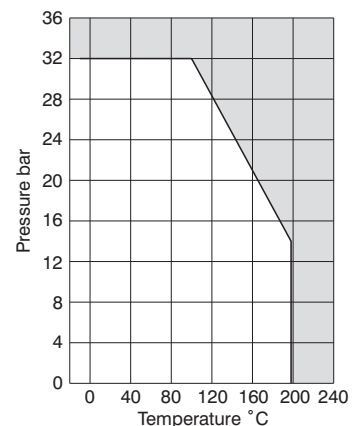
### SPECIFICATION

The valve body, bonnet and disc shall be of Bronze to BS EN 1982 CC491K. The stem shall be of DZR Brass to BS EN 12164 CW602N. Operation shall be by hand wheel. Ends to be threaded to BS EN 10226-2. The valve is to be rated at PN32 and manufactured in accordance with BS EN 12288: 2010. Available with NPT thread: Fig. 33AT - 1/2 to 2".

The Non-Rising Stem Gate Valves are unsuitable for use on Group 1 gases or unstable fluids, as defined by the Pressure Equipment Directive 2014/68/EU.

### DIMENSIONS & WEIGHTS

Nom Size	in	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
A	mm	46	46	50	54	62	71	77.5	87.5
B	mm	78	78	74	85	106	115	132	155
C	mm	60	60	56.8	69.2	75.5	81.3	93.9	100
D	mm	89.7	89.7	89	104	128	143	165	193
Kv	mm	-	-	21	39	66	116	162	281
Weight	kg	0.36	0.36	0.3	0.4	0.6	0.9	1.3	2.1



Every effort has been made to ensure that the information contained in this publication is accurate at the time of publishing. Hattersley Ltd assumes no responsibility or liability for typographical errors or omissions or for any misinterpretation of the information within the publication and reserves the right to change without notice.

131119