

SERIES  
**2000**  
BRONZE  
40 & 50 mm

Telford Shell Mouldings Ltd. t/a

**GRESSWELL Valves**

## Series 2000 Full Lift Safety Relief Valves

Bronze Bodies ---

Screwed or Flanged Connections

### THE SERIES 2000 FULL LIFT SAFETY RELIEF VALVES

These valves have side outlet discharges with either leak proof dome covers or test levers. They are used to prevent safe pressures being exceeded in pressurised systems.

Being of the full lift design they provide maximum flow rates and positive shut off through the option of stainless steel or "soft seating".

### SIZE RANGE

inlet connection	DN	40	50
outlet connection	DN	65	80

### PIPE CONNECTIONS

Either - Female Inlet x Female Outlet with threads to BS21 1985 Rp parallel (alternative threading available to order).

or

Inlet and Outlet connections Flanged (Integral with Body). Most flange standards can be accommodated e.g. ANSI, BS4504 etc. Please specify requirements.

or

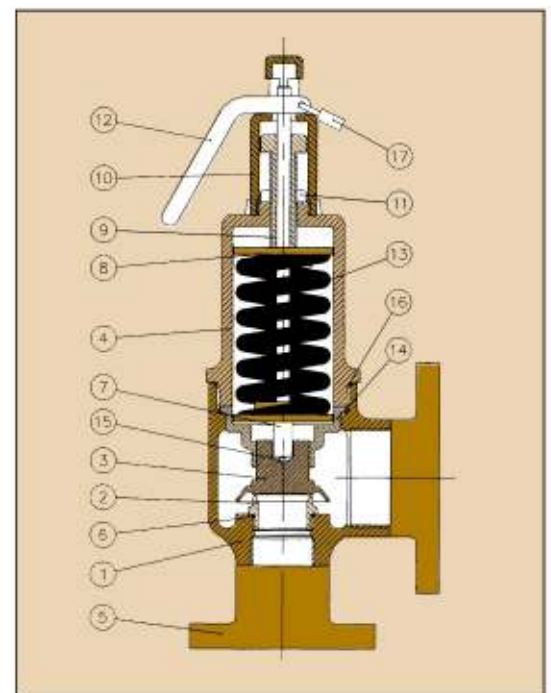
a combination of Threaded and Flanged is available to special order.

Note! Valve bodies are suitable for a maximum working pressure of 400 psi.g even though higher rated flanges can be provided.

### STANDARD SPECIFICATION

No	Component	Material	No	Component	Material
1	Body	Gunmetal BS 1400 LG2	9	Adjusting Screw	Brass BS 2874-CZ121
2	Nozzle	St.St. Type 316	10	Cap	Brass BS 2874-CZ121
3	Disk	St.St. Type 316	11	Nut	Brass BS 2874-CZ121
3a	Disk	St.St. Type 316 + EPDM	12	Lifting Lever	Brass BS 2872-CZ122
3b	Disk	St.St. Type 316 + Viton	13	Spring	St.St. BS 2056 302S26 GR11
4	Bonnet	Gunmetal BS 1400 LG2	14	Guide	Brass BS 2874-CZ121
5	Flanges	Both Integral with Body	15	Ball	Stainless Steel
6	Seat Gasket	PTFE	16	'O' Ring	Viton
7	Stem	Brass BS 2874-CZ114	17	Padlock	Brass or Steel
8	Spring Plates	Brass BS 2874-CZ121			

Other materials available to special order.



## FEATURES & BENEFITS

Gresswell Valves Ltd. are quality assurance approved to BS EN ISO 9002: 1994. Certificate No. 91047.

All Valves are tested before leaving our works to ensure they function correctly.

The Series 2000 are a Full Lift design and as such, the flow-rates are very high when compared to traditional Relief Valves.

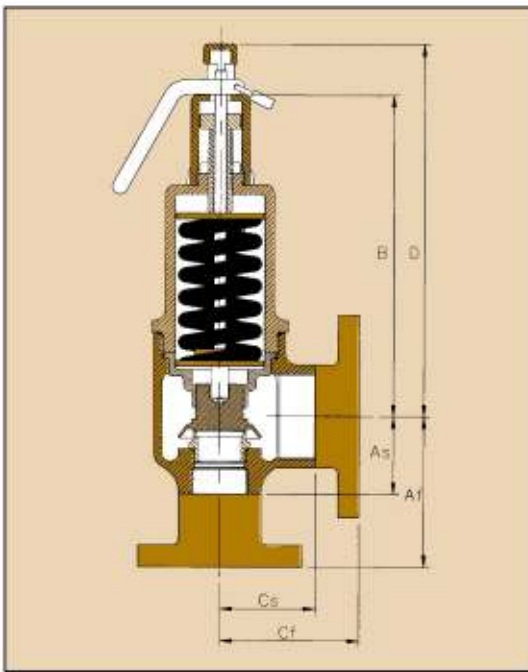
Various combinations are available to meet most applications.

These valves can be dismantled for cleaning without altering the 'set pressure' but if necessary they can be re-set on site by a competent person.

Clear operating and maintenance instructions are supplied with each despatch.

Screwed/Flanged or a combination of both are available.

Because Flanges are integral with the body casting, there is no possibility of leakage at flange joints.



## DIMENSION CHART

	Inlet & Outlet	As	Af	B	Cs	Cf	D	Weight (kgs)	
Sizes - mm	40 x 65	67	130	270	81	118	313	11.4 Screwed	15 Flanged
	50 x 80	80	158	307	96	158	350	17.5 Screwed	22 Flanged

## TESTING

Every Gresswell Valve is tested before leaving the factory to prove successful pressure retention across the valve seat.

Where requested, valves are pre-set to our own procedures and this 'set pressure' is clearly marked.

If required, valves can be pre-set to BS6759 specification (at extra cost) and sealed prior to despatch.

Each valve is given an individual Serial Number and a Letter of Conformity is supplied.

If required, special testing or witness testing can be arranged at extra cost.

Gresswell Valves strive to provide the best possible service and welcome any suggestions which would advance this process. Therefore we reserve the right to change specifications without prior notice.

The company's engineering staff are available to assist in offering advice on further matters regarding SAFE OPERATION of Safety and Relief valves. Information on sizing and selection can be obtained by contacting the GRESSWELL sales desk.

## ORDER REFERENCES & SEAT TYPES - BRONZE BODY SERIES 2000 VALVES

Please quote ..... SS for Threaded Inlet & Outlet and FF for Flanged Inlet & Outlet

Code	Seat	Pressure Range	Temperature Range	Valve Type
200	St. St.	} LP = up to 220 psi (15.17 bar)	-90° to +220°C	Test Lever
201	EPDM		-50° to +180°C	Test Lever
202	Viton*		-30° to +200°C	Test Lever
210	St. St.	} HP = 220 - 400 psi (27.6 bar)	-90° to +220°C	Test Lever
211	EPDM		-50° to +180°C	Test Lever
212	Viton*		-30° to +200°C	Test Lever
220	St. St.	} LP = up to 220 psi (15.17 bar)	-90° to +220°C	Dome Cover
221	EPDM		-50° to +180°C	Dome Cover
222	Viton*		-30° to +200°C	Dome Cover
230	St. St.	} HP = 220 - 400 psi (27.6 bar)	-90° to +220°C	Dome Cover
231	EPDM		-50° to +180°C	Dome Cover
232	Viton*		-30° to +200°C	Dome Cover

\* Viton is not suitable for steam or hot water duty.

Note! Valves in the H.P. pressure range (220-400 psi) have reduced diameter bores. Therefore the Kdr factors are lower and flow-rates are calculated.

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