

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).

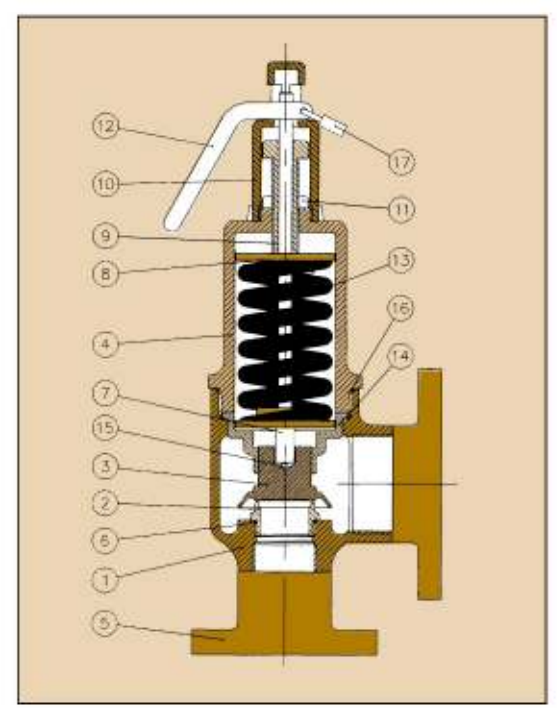
or

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.

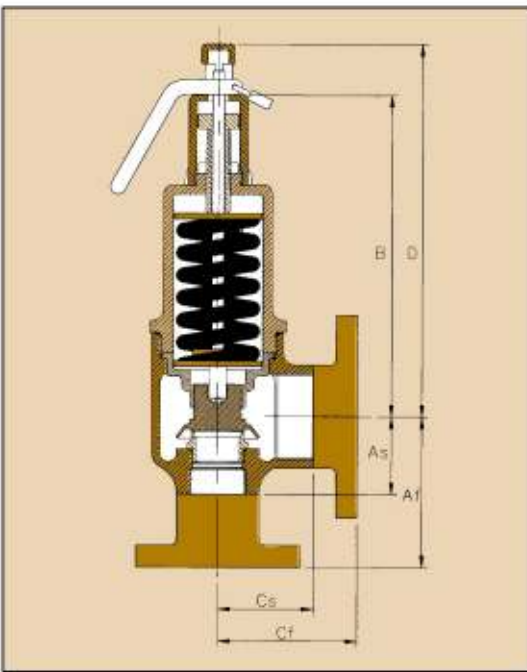
Note! Valve bodies are suitable for a maximum working pressure of 400 psi.g even though higher rated flanges can be provided.



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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