

OPERATING INSTRUCTIONS

Category II Pressure Accessory
Type 180/180-S



Application

Suitable for compressed air, gas, water and oil service.



Operation

The set pressure can be varied as required by compressing or relaxing the spring using the adjusting screw:

Clockwise turns compress the spring increasing the set pressure.
Anti-clockwise turns relax the spring decreasing the set pressure.



Lifting and Handling

Wooden cases should be lifted using either a Fork Lift Vehicle or a Crane with adequate Safety Approved slings applied to carry the weight, which will be evenly distributed within the case.

Important: All manual handling operations should be carried out in compliance with the Manual Handling Operations Regulations 1992 (SI 1992/2793) (EC Directive 90/269/EEC).



Storage

Valves with Screwed ends shall have plugs fitted in their connections to prevent ingress of dirt etc. Flanged valves shall have their bores blanked off.

We recommend that plugs/blanks be removed immediately prior to installation.



Installation and Commissioning

It is most important that the pipeline be clean and free from dirt, scale, etc.

Fit valve in pipeline with flow direction as indicated by arrow cast on valve body and with adjusting screw directly above pipeline.

It is also advisable to fit a stop valve on high-pressure side of line and a discharge pipe, with bore equal in size to valve, on outlet. If there is a risk of condensate accumulating, a small drain pipe should be led away from the lowest point. A union joint, in discharge pipe, near to valve will enable access/removal.



Safety Warning!

Discharge from outlet may be violent and must not be allowed to create a hazard to persons or property.



Maintenance

Examine annually for signs of defect, damage or deterioration.

Give special attention to contact/seating faces, if damaged these should be re-faced. Discs, seals and springs should be replaced if there is any sign of deterioration.

All parts should move freely in their respective guides.

Note: Quote the unique valve serial number when ordering spare parts.



Safety Warning!

Before dismantling ensure that the valve has been isolated from the pressure and the adjusting screw has been removed.



Dismantling and Reassembly

Dismantling: When the pressure is off: Remove; Cap (1) and 'O' Ring (4); Adjusting Screw (2) and Locknut (3); Nozzle (14) and 'O' Ring (12). Remove internal parts: Lid (10) and Ball (8); Spring (6) and Spring Carriers (5).

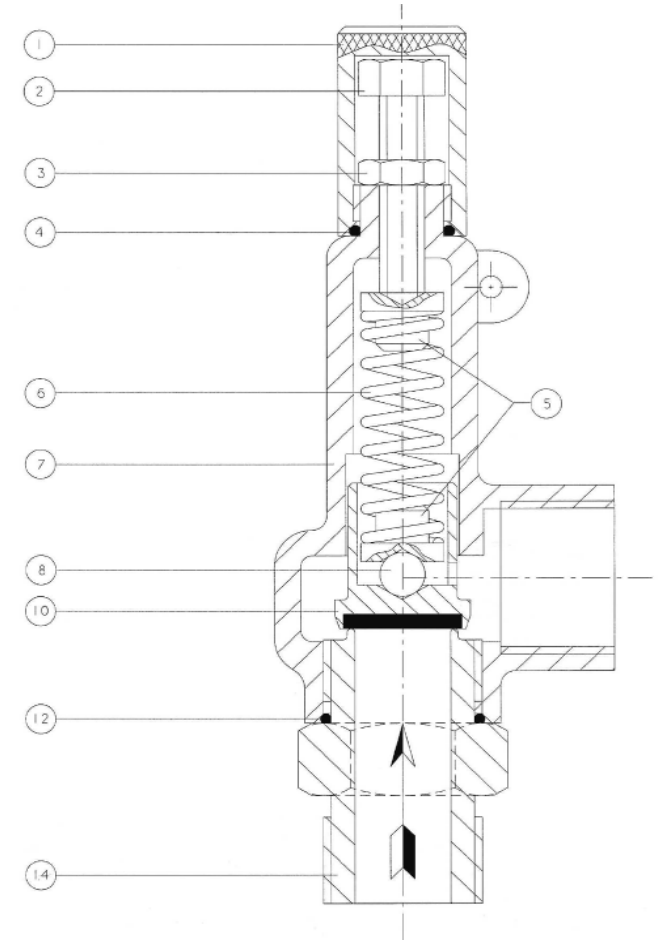
Note: Replace the 'O' Rings that have been removed, with new ones.

Reassembly: Fit Spring Carriers (5) to Spring (6) place together with Ball (8) inside Lid (10), (as illustrated) and carefully insert into Body (7). Fit 'O' Ring (12) and Nozzle (14). Ensure Locknut (3) is fitted to Adjusting Screw (2) locate Adjusting Screw in top of Body and screw down.



Testing

The valve is now ready for pressure setting and should be mounted on a suitable test rig. Test the valve using either clean Compressed Air, Nitrogen or clean Water (whichever is compatible with the line medium). Adjust using Adjusting Screw (2) until desired set pressure is achieved; tighten Locknut (3) and check that set pressure is correct. Fit 'O' Ring (4) and replace Cap (1).



Item	Description	Qty
1	Cap	1
2	Adjusting Screw	1
3	Locknut (Adjusting Screw)	1
✳ 4	'O' Ring (Cap)	1
5	Spring Carriers	2
6	Spring	1
7	Body	1
8	Ball	1
✳ 10	Lid	1
✳ 12	'O' Ring (Nozzle)	1
14	Nozzle	1

✳ Recommended spare parts

EC DECLARATION OF CONFORMITY

Issued in accordance with the

PRESSURE EQUIPMENT DIRECTIVE (PED) 97/23/EC

We hereby declare that, in compliance with the above Directive, the product(s) detailed below, have been manufactured in accordance with conformity assessment module D1 'Full quality assurance (ISO 9001)' as approved by Lloyds Register (Notified Body No. 0038), of Middlemarch Office Village, Siskin Drive, Coventry, CV3 4FJ, UK, under EC Certificate of Conformity RPS 0160389/02.

Product Description – Pressure Accessory

Product Reference – Type 180

Comprising – Not Applicable

Serial Number – Not Applicable

Applicable Standards – None

Other Applicable Directives – None

Signed: A. Derrick
Name: A. J. Derrick
Position: Managing Director
Date: 24th April 2002

