

# Pressure Air Recirculating Valves

## Protect your blower against excessive back pressure

A range of pressure air recirculating valves, designed to protect your blower against excessive back pressure, which can cause overheating, reduced performance and service life.

Prolonged periods operating at over 1 bar (15 psi), for example due to a downstream blockage in a pneumatic conveying system, can lead to overheating of the blower, leading to accelerated rotor wear and in some cases catastrophic failure. Our new valve range has been redesigned

to be compact, and uses fewer components for improved reliability and cost efficiency. They are available with factory pre-set relief pressures (see below), but we can provide valves set to your specification if required. Valves are normally available from stock.



### Sizes and Connections

Nominal Diameter	Connection*	Typical Capacity M <sup>3</sup> /HR at 500mbg	Typical Capacity M <sup>3</sup> /HR at 1000mbg	Blower Application
80mm	3" BSP	850	1100	HRBV, HR Size 10 & 11
100mm	4" BSP	1300	1700	HR Size 12, 13, 20 & 21
125mm	5" BSP	2000	2700	HR Size 22, 23 & 31
150mm	6" BSP	2900	3800	HR Size 32, 33, 41, 42 & 43

\*Optional BS404: NP10 flange connection available to order.

### Valves for HRBV truck mount blowers

We supply the 80 mm valve for our HRBV blowers with a factory pre-set relief pressure of up to 1240 mbar, to your specification. A 3" to 2" BSP adaptor may also be required for this application.

### Valves for HR Rotary blowers

The valve size required will vary with the blower size (see table above). Factory pre-set relief pressures of up to 1140 mbar are available, as required.

### Vacuum relief valves

**Coming soon:** We will soon be able to supply relief valves for use with our high vacuum range of blowers.

### Materials

- Aluminium tube casing
- Brass valve bell
- Stainless steel spindle
- Zinc plated mild steel spring

For accurate performance characteristics please contact HR Blowers