

Watts Powerseat®

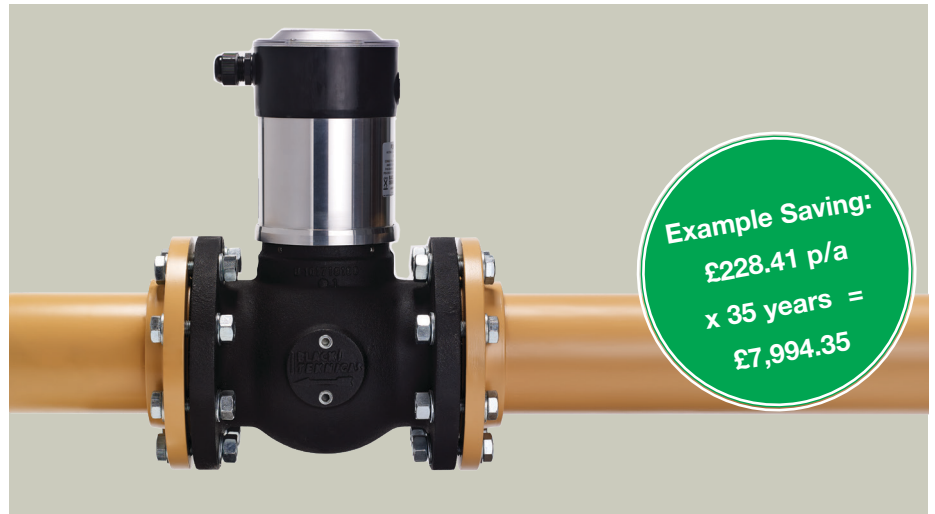
Safe delivery and monitoring of gas supply in a high-rise property

Case Study





Manufactured in the UK, the Powerseat® electro-hydraulic gas shut-off valve allows the control and safety shut-off of low-pressure combustible gases in pipes from 40mm to 250mm.



SCOPE
Gas supply to hire rise

Reduced running costs for over 35 years

Powerseat® was the first safety shut-off valve of its kind and at Watts we estimate that an average Powerseat® shut-off valve to have a lifespan of 15 years. However, in 2020 and 2021 customers contacted us for support with their Powerseat® products that had been installed, and in working order, for over 35 years.

Powerseat® uses a fraction of the energy required by permanently energised magnetic solenoid valves and it also has a smaller carbon footprint than a comparable valve too. This means that during its lifetime, this product has been delivering the control and safety shut-off of low-pressure combustion gases whilst being energy efficient and environmentally friendly for over three decades. This means that over the lifetime of the product's long service, it will have saved the customer almost £8,000 in costs.

Our internal research indicated that the valve was manufactured in the UK in the mid-80s and has been in service in a high rise apartment building in Sutton, London ever since. This high-rise building is Council-owned and home to many residents. Powerseat® is ideal for this environment because when an issue detected in the system, such as an electrical malfunction or a drop in pressure, the power is automatically cut to the valve. Removal of power causes the relief valve to open, and the safety shut off valve to snap shut, and the gas is prevented from reaching the malfunction, therefore protecting the gas source and keeping residents safe.

James Turner, National Key Account Manager for Watts explains: "We are often asked how long our customers can expect their Powerseat® product to be in service and we are always delighted to learn that we have Powerseat® products installed that are far exceeding their predicted 15-year operational lifespan.

For this customer, we quickly found the replacement product they needed as safe gas supply is particularly essential to high rise, multiple occupant properties such as this."

- **WHO**
South London High Rise
- **WHAT**
Save delivery and monitoring of gas supply in a high-rise property
- **HOW**
Powerseat®
- **WHERE**
Sutton
- **WHEN**
Originally installed 1980s, replaced in 2021



Powerseat® Benefits

The Powerseat® delivers reduced electricity running costs by using just a fraction of the energy of permanently energized magnetic solenoid valves, around 6%. This means that the associated carbon emissions are around 768kg less than with a comparable magnetic solenoid valve.

Manufactured in the UK, Powerseat® comes with a three-year warranty and meets the IP54 standard.

Operational Savings

Based on a 4" Powerseat® using 26 watts
 0.026 KW @ average 18.1p per KW/H = 11p per day
 £40.15 per year based on running 24 hours, 365 days a year

Equivalent 4" Electro Solenoid using 170 watts
 0.17kw @ average 18.1p per KW/H = 73p per day
 £269.45 per year based on running 24 hours, 365 days a year



Powerseat® Saving - £228.31

Powerseat® Systems



Powerseat® Eco Electro Hydraulic Gas Safety Shut Off Valve
Aluminium Body - Screwed Connections



Powerseat® Eco Electro Hydraulic Gas Safety Shut Off Valve
Cast iron Body - Flanged Connections



Powerseat® Electro Hydraulic Valves - Spare Parts



Powerseat® Replacement Actuators

About Watts

At Watts we have one of the widest product ranges in the industry and our products improve comfort, safety and the quality of life for people around the world.

Our range encompasses several well-known brands that form a key part of our product offer. Our experienced team can supply everything you need for your project whether it's plumbing or flow control solutions, water quality and conditioning or HVAC you'll find a Watts product that meets your needs with full support available across the entire product range.

For more information about Powerseat® or any of our gas safety products, please call 01480 407074 or email us on wattsuk@wattswater.com



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