



**Persta Stop Check Valve Protects  
Pulrose Power Station From £1m Repair**

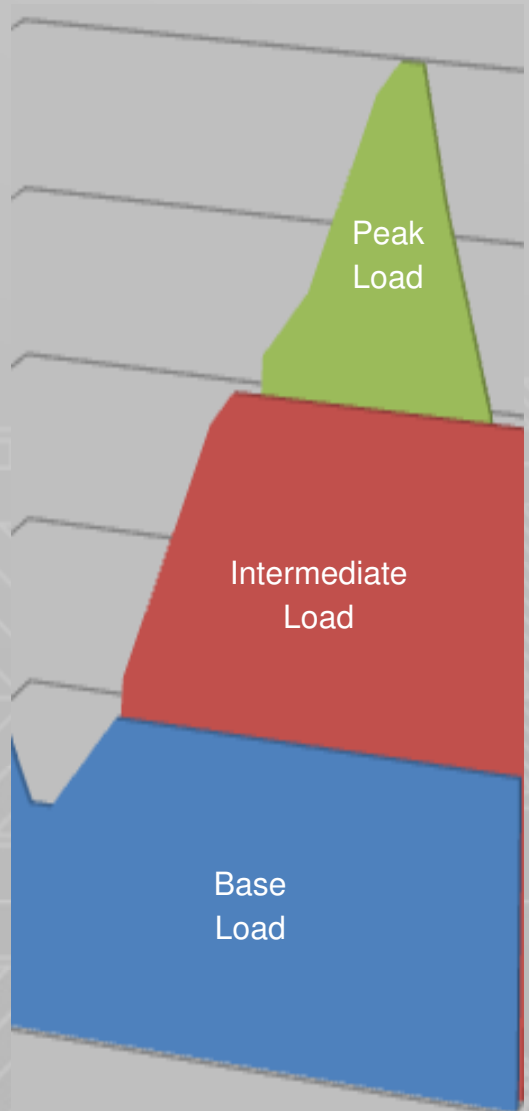
# Persta Stop Check Valve Protects Pulrose Power Station From £1m Repair

## TWO SHIFT WORKING AT PULROSE POWER STATION ON THE ISLE OF MAN

### THE PROBLEM

In common with many power stations built in the early 2000s, Pulrose CCGT plant was designed as a base load plant.

Subsequently the commercial environment forced us to two shift half the plant. Whilst there were a number of engineering problems that had to be addressed initially, some problems emerged after many years of operating the plant in two shifted mode. One of these problem was that the main steam stop valve and non-return steam valves were wearing and leaking allowing steam to leak into the off line boiler, causing condensation and stress corrosion cracking. This damage to the boiler resulted in a £1M repair.



**Matching Electricity Supply to  
Demand During a Typical Day**

# Advanced Valve Solutions At the heart of your business

THE SOLUTION: MANX UTILITIES DECIDED TO USE PERSTA VALVES TO REPLACE A LEAKING NON-RETURN VALVE ON THEIR HP STEAM LINES

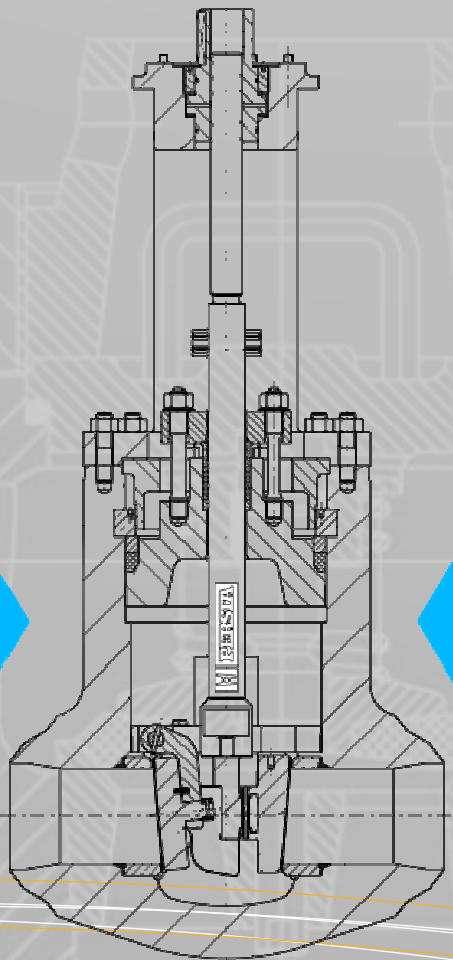
- We needed a high integrity non-return/stop valve that could be driven closed to give a positive seal.
- We also needed a valve that could be manufactured within the 6 month window, that we had available.

**AVS** came to our assistance, helping us to specify the correct valve and actuator arrangement, getting technical assistance from Persta valves, who signed up to our technical and time constraints.

The valves, spares and documentation were manufactured and delivered to schedule and the technical support on the valves has been second to none. In service the valves have been problem free and have eliminated the problem of steam leaking back. They were also stripped and Inspected by Persta after 1 year of operation and found to be in excellent condition.

**AVS** and Persta provide a valve which reliably seals after each operation, can be delivered in a quick timescale and have excellent aftersales technical and spares support.

*Information with kind permission of Mike Newby MSc CEng MIET, Plant Engineering Manager Generation Division, Pulrose.*





**Advanced Valve Solutions (AVS)** was established in 1999 and has since earned an unparalleled reputation for supplying specialist valves and equipment into some of the most demanding industrial applications. Our team of experienced engineers have been delivering tailor made engineered solutions to our customers in the Power, Petrochemical and Oil & Gas markets.

Over the years AVS has gained intimate knowledge in the specification and selection of complete valve packages including control valves, isolation valves and made to measure process solutions.

AVS represents a number of carefully selected long established quality manufacturers. Good communications and relationships with our principal manufacturers makes it possible to respond quickly and effectively to both your technical needs and delivery requirements.

With our process knowledge and our valve know-how we can optimise different schemes to deliver a bespoke engineered solution for your installation. We believe that this approach is unique within the industry and allows AVS to work in partnership with you, the client

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