



**EXPECT
LONG-LASTING
QUALITY**



Expect... **AVK**

AVK VALVES

SUSTAINABILITY

IN EUROPE COUNTRIES:

European countries have been adopting sustainable practices in the valve industry for years. AVK International has completed numerous valve refurbishment projects over the years, helping industries extend the lifespan of their valve systems while promoting sustainability.



In Germany:

In September 2016, AVK Armaturen refurbished six double eccentric butterfly valves series 756 in dimensions DN1000 and DN800 for the supply line from the water reservoirs to the clean water pump stations of the Walddörfer Waterworks in Hamburg.

In Scotland:

In October 2016, Glenfield Valves Limited began work on two projects for Scottish Water at the Glenhove and Gowanbank drinking water pumping stations, which supply water to Cumbernauld and Falkirk. The work was set for completion in August 2017. The project involved removing, refurbishing, and reinstalling submerged discharge valves installed in 1969.



108 years old AVK Valves Sustainability in Scotland:



Original valve sketch during 1923

In year 2015, AVK Glenfield provided the exact replacement components and secured the order to carry out the refurbishment of the first two pressure relief valves.

The valves in question were installed in the Kinlochleven Hydropower Plant during its original construction between 1907 and 1910 when the company was owned by the British Aluminum Co. Glenfield



Original cast body after shot blasting



Refurbished valve

WHAT IS THE R3 PROGRAM?



Reengineering

All valves undergo an in-depth reengineering process conducted by qualified in-house engineers, ensuring quality through genuine AVK components and parts.



Restoration

Valves are meticulously restored to achieve full functionality, extending their operational life.



Recertification

Post-restoration, valves are certified with an option for an extended warranty of up to 10 years.



Project Background:

Many old valves have minor defects and not in optimal condition operationally.

Replacing these old valves with new ones may not be the best option, as they can be restored to near-new condition via **R3 Program**.

The Valves Restoration Recertification Program (R3) aim to provide a full-service solution to restore old valves to near-new condition, with comprehensive reengineering, restoration, and recertification.

This program will help extending operational life those valves that have been in service for 10 years or more. For AVK-branded valves, we provide an *Extended Warranty* option on the newly refurbished valves.



TYPE & BENEFITS R3 PROGRAM?

The R3 Package:

The R3 Program offers two options — Basic and Comprehensive — allowing customers to choose based on their preferences and requirements.

Basic:

- 100% inspection
- Replacement of damaged component with genuine AVK components and parts
- Factory Acceptance Test (FAT)



Comprehensive:

- Complete restoration of the valve with genuine AVK components and parts.
- Factory Acceptance Test (FAT)
- Recertification with Extended Warranty



The comparison between refurbished valves and brand new valves highlights significant advantages in both delivery time and cost.

Refurbished valves can be delivered on-site within 1 to 2 months, whereas brand new valves typically require 4 to 6 months for delivery. This means refurbished valves offer up to three times faster delivery, helping to minimize project downtime.

In terms of cost, refurbished valves are priced around RM40,000 to RM60,000, while brand new valves exceed RM100,000, offering potential savings of up to 40%. These benefits make refurbished valves a cost-effective and time-efficient solution for customers seeking reliable alternatives without compromising on quality.

The time required for the valve to be delivered on-site



Saves up to 200% of time cost

The price cost required for the valve



Saves up to 40% of price cost



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