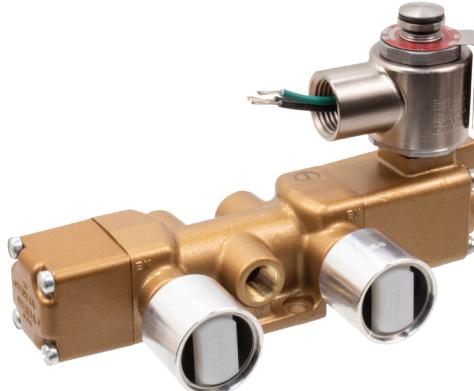


SEALED VALVE OPTIONS

REAL WORLD CHALLENGES

Although good Industrial practices always demand the use of filtered, clean, dry air to ensure a longer life for the internals, often no consideration is given to environmental ingress into the valves.

Many valves are installed with limited protection on the exhaust ports and the solenoid operators. When valves are open to the environment, there is a risk of ingress from the weather, airborne contamination, dust, sand, dirt, and insects. Over time this can shorten the valve's life and impede the top performance you expect.



THE VERSA SOLUTION

VERSA's field-proven option that "seals" the valve has recently been 3rd-party qualified to IP 65. This innovative design of creating a closed-loop internal pressure relief design is unique to Versa. Coupled with dust excluders, this valve is virtually impenetrable to the environmental factors in which it is installed.

Exhaust Protection:

DE – The ideal solution should provide a solid seal against ingress when the exhaust port(s) are inactive while also providing maximum valve flow when exhausting. The dust, dirt, insect, and moisture excluder is fitted onto the exhaust port and only opens when the valve is exhausting.

DG/DD – The Dust Proof option removes the external vent behind the pilot piston and directs the air through a gallery in the valve plunger into the spring cap, thereby creating a closed loop. Removing the vent eliminates any possible dust and/or moisture intrusion.

Solenoid Protection:

PC – Solenoid operators are significantly vulnerable to the effects of unwanted ingress. One option is to pot the solenoid coil in the housing using epoxy resin to ensure moisture protection. The option -PC is available to add this protection to our XX and XN solenoid operators.

The second option is to select a solenoid operator with a sealed housing to achieve ingress protection. The XDB, XV, and XT solenoid operators are rated to IP68, giving complete protection to the electrical components.

D14 & C14 – The D14/ C14 Dust and moisture excluder for the solenoid pilot exhaust port is comprised of a flexible seal sitting in a chamfered groove covering several exhaust drillings. When the solenoid exhausts, the seal flexes to allow the air to pass. Once exhausting is complete, the dust excluder seals off the internals from the environment.

Stepping It Up:

Many of our solenoid operators are already IP-rated to IP68. Combined with the D14/ C14 exhaust port protection and the DG/DD dustproof assembly (with no external venting), we can certify our complete valve with an IP65 rating. This gives total protection against dust and low-pressure water jets from all angles.