

Qlar

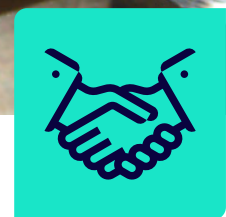
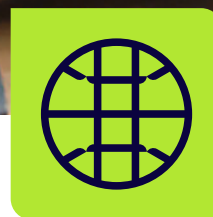
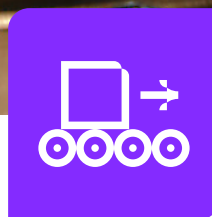


ProDV Dome Valve range Effective and reliable

Material isolation valves
for pneumatic conveying systems
and bulk handling applications

Driving **circular**
transformation

Qlar Pneumatic Conveying UK Ltd. formerly known as Schenck Process UK Ltd. – Your partner worldwide



Acting locally to support your needs Qlar is working where you are.

With a global network of sites and competent partners, the name Qlar formerly known as Schenck Process is synonymous throughout the world with process expertise and well-engineered measuring technology for industrial weighing, feeding, conveying and automation technology.

Our key skills include planning processes, feeding bulk materials, controlling flows of material, recording flows of goods, weighing goods and automating transport processes.

The ProDV Dome Valve range

The most effective and reliable bulk material handling valve in the world.

The highly innovative and well proven ProDV Dome Valve is reputedly one of the most effective fast closing, bulk material handling valves in the world.

The Original Dome Valve was developed by Clyde Materials Handling* in 1974 for use with pneumatic conveying systems and as a standalone product.

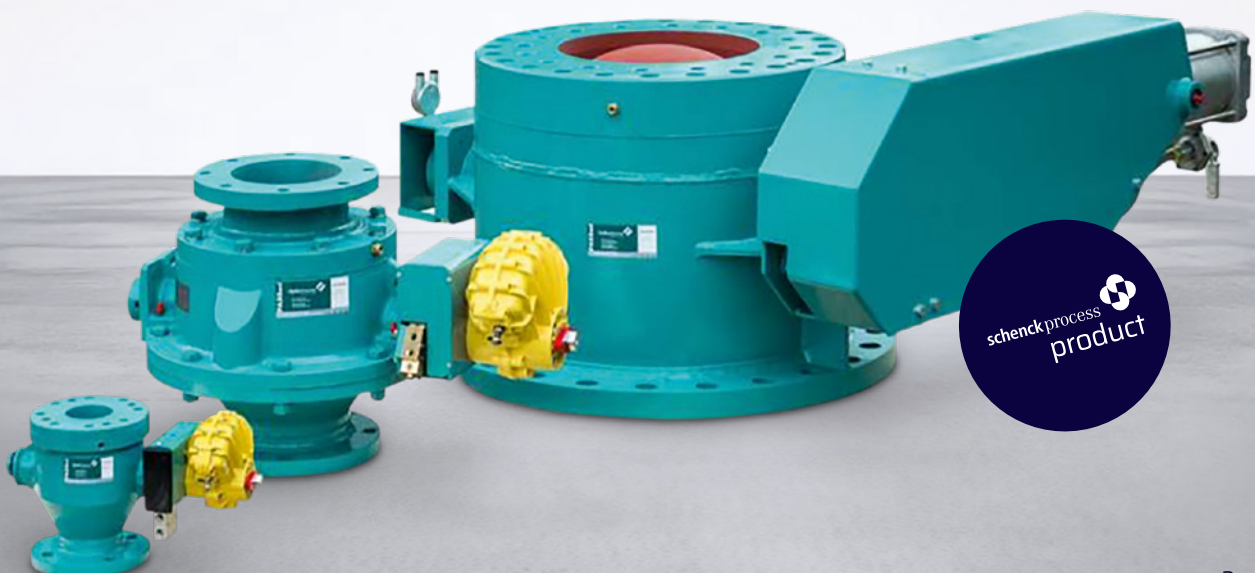
Product advantages

- Full bore unobstructed material flow
- Can cut through moving and some static columns of material
- Designs can be provided for pressures up to 35 bar (507 psi)
- Up to 3,000,000 cycles between major overhauls with most materials/applications
- Fast operating function
- Extremely quick seal replacement
- Long operating life
- Manufactured in accordance with European Pressure Vessel Directive
- 2014/68/EU, BS EN13445, BS EN14460, BS EN1127 and BS EN12516
- The valve's design and construction have been certified, by a Notified Body, for use in potentially explosive atmospheres given in Annex II of Directive 2014/34/EU, ATEX

Comprehensive design features

- Wide range of valve sizes: 50 mm (2") to 750 mm (30")
- 10 bar design pressure as standard
- Can handle material temperatures up to 480 °C (896 °F)
- Forms pressure tight seal when closed
- Inflatable seal leakage detection system to check correct operation every cycle
- Simple, fully proven and reliable design
- Low maintenance
- Suitable for vacuum applications

* Clyde Materials Handling Ltd. was purchased by Schenck Process now known as Qlar Pneumatic Conveying UK Ltd.





Wide range of process applications

Industry applications

The ProDV Dome Valve is suitable for a wide range of applications. Capable of cutting through flowing material and some static columns, the valve handles abrasive, cohesive, fine and dry products with equal ease.

High reliability with minimal maintenance

The ProDV Dome Valve has a world-wide reputation for reliability. This results from its simple, cavity-free construction which is designed to minimise the possibility of material build-up within the valve body. The same, simple design philosophy also eases the task of preventative routine maintenance and makes any parts replacement a quick and simple task.

Typical applications include

- Pressure vessel: inlet valve, outlet valve, vent valve
- Precipitator dust collection outlet valve
- Blast furnace dust collection outlet 'dustcatcher' valves
- Conveying pipe: isolation valve
- Diverter pipe: line switching valve
- Outlet to screw feeders
- Outlet to silos
- Isolating valve to reactor vessels
- Lock hopper system valves



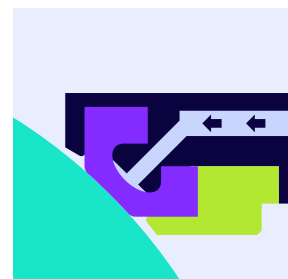
Seal Operating Sequence

The range of materials that can be handled include

- Detergents
- Minerals
- Ores
- Chemicals
- Fly ash
- Granules
- Powders
- Sand
- Additives
- Electronic scrap
- Dusts
- Pulverised coal / granular coal
- Cement
- Gypsum

Dome closed, seal inflated

The seal automatically inflates only when the dome is fully closed.



Dome closing, seal deflated

The seal automatically deflates during opening and closing, thereby avoiding contact with the dome and eliminating unnecessary wear.

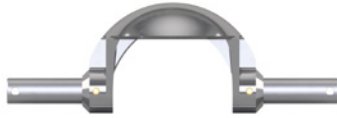


Extensive range of ProDV

Product options

Chrome or ENP

For sticky and abrasive materials



Epoxy resin

For corrosive materials



Tungsten carbide or ENP

For abrasive materials



Choice of 'dome' finishes to handle a wide range of materials

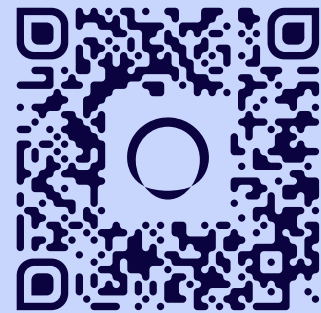
These coatings can also be extended to the internal surfaces of the valve body and the adaptors. Materials from fine abrasive powders to a very

cohesive substances may require different 'dome' finishes in terms of raw material or surface coatings.

The dome is usually produced from SG iron or stainless steel, but other materials and designs can be considered on application.

Need any support?

If you have any enquiries or need any assistance, please contact us on gb.enquiries@qlar.com or scan the QR code on the right side to contact us.



Save time and order online!

ProDV Dome Valves can be configured and spares can be ordered on our Qlar webshop. Scan the QR code on the right side to register or log in.





ProDV Bypass Valves and Terminal Boxes

ProDV Bypass Valves are used where a number of hoppers positioned in series require selective feeding. They have two operating conditions, 'straight through' and 'dump'. In the straight through condition, a self-inflating easily replaceable seal closes off the respective hopper inlet, allowing the material to be conveyed 'straight through' to the next available reception point.



ProDV Diverter Valves

These types of valves are used for diverting flow in any pneumatic conveying lines or hopper discharge applications and are particularly suitable for abrasive materials. They can also be supplied if operating pressures and temperatures are high. ProDV Diverter Valves are fitted with two ProDV Dome Valves for line isolation and can be provided with multiple discharges or inlets.



Constant discharge lock hoppers

Lock hoppers provide constant discharge from collection vessels. They are mainly used if the product is abrasive or when operating temperatures and pressures are high. Since the assembly is normally pressure balanced with the up and downstream equipment, valve wear is negligible.

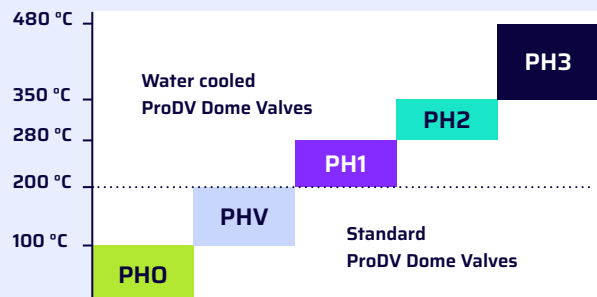
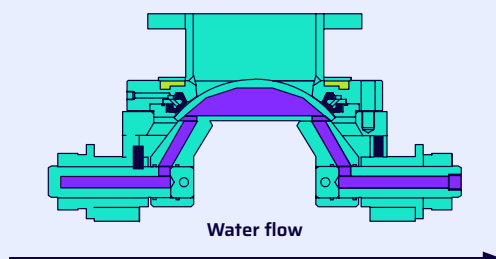


Water cooled ball valve

Water cooled ball valve and clamp valve suitable for products at temperatures between 480 °C and 750 °C. Units fitted with replaceable inlet liner. Commonly used for the handling of hot DRI pellets.

Water cooled ProDV Dome Valve options

Water cooling is recommended for applications involving temperatures in excess of 200 °C. Water cooled valves are available in three options in selective sizes throughout the range.



- PH1: water cooled top plate only
- PH2: as PH1 but including a water cooled dome
- PH3: as PH2 but including a water cooled body

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Still questions? Contact us:
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12.24 · All information is given without obligation.
All specifications are subject to change.

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