

VACUUM & PRESSURE CONVEYING — COMPONENTS & SYSTEMS

The material drives the system.

A pneumatic conveying system is only as good as its weakest component — and no component can be specified without the material it moves. GQI specs vacuum and pressure conveying from the application backward: material characteristics, density and particle size, how much, how far. From conceptual design to innovative system upgrades, GQI matches airlocks, pick-ups, blower packages, receivers, and valves to that duty.

Every request starts with the material — bulk density, particle size, moisture, temperature, and character — then the duty: rate, horizontal and vertical distance, bends, sources and destinations.



Pneumatic conveying installation

Material characterized first

Bulk density, particle size, moisture & character captured before any component is picked.

One coherent system

Materials of construction specified once and applied across every component in the order.

Combustible-dust screening

DHA status, K_{st} & P_{max} captured up front for combustible dust (NFPA/OSHA).

Component to complete system

Single components, multi-component orders, or full vacuum & pressure systems.

From concept to completion — full life-cycle support, whichever stage you are at.

Conceptual Design

Early scoping while route, rate and material are still open — defining what the system has to do before anything is specified.

Complete System Design

Detailed design of the full vacuum or pressure system: components, line sizing and site utilities scoped as one package.

Upgrades & Optimization

Legacy systems assessed on site — throughput shortfalls, wear and blockages traced to cause, then corrected with the fewest changes.

Start-up & Commissioning

On site for first material through the line, verified against the design intent, with your operators trained on it.

Preventive Maintenance Plans

Scheduled inspection and wear-part programs built around your run hours, so replacement is planned rather than reactive.

Aftermarket Field Service

Parts, repairs and troubleshooting for the life of the system — one call, and people who know the equipment.

Match every component to the material.

Innovative Solutions. Reliable Support. Always a Step Ahead.

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THE COMPONENTS

Every component, matched to the duty.

Six component families

Airlocks & Rotary Valves

Drop-through and blow-through valves metering product into the line — rotor styles from open-end to scalloped for sticky products, hardened builds for abrasives, high-temperature and sanitary quick-clean executions.

10-bar explosion-pressure-shock rated option

Slide Gates & Diverters

Positive shutoff above and below equipment — orifice / blade or manual handslide — plus 2-, 3-, and 4-way diverters in wye-line, tunnel, pivoting-chute, and lined wear-resistant types — with air-purge seals for powders.

Pneumatic, manual, electric & hydraulic actuation

Cyclones, Filter Receivers & Bin Vents

Air-material separation — filter receivers and bin vents sized by airflow and air-to-cloth ratio with polyester, PTFE-membrane, cartridge or FDA media; cyclones specified to throughput and cut size.

Explosion protection & sanitary options

Screw Pumps & Augers

High-capacity screw pumps and augers feeding pressure conveying lines — specified by capacity, discharge pressure, seal type and drive; sanitary / food-grade builds available.

Packing, mechanical-seal & air-purge sealing

Vacuum Pick-ups & Inlet Filters

Wands, lances, and hopper attachments for loading product into a vacuum line — optional agitator, integral filter and ergonomic handle — plus inlet filters protecting the air mover.

Conductive builds for hazardous dust

Blower Packages

The air movers behind the system — pressure or vacuum, sized to your airflow and motor power, with silencer / acoustic enclosure, inlet filtration, and packaged-skid options.

Pressure & vacuum duties

Convey-line accessories. Bends and wear-resistant elbows, couplings and clamps, flexible hose, sight glasses and line supports. Convey lines are specified as pipe or tube with size and schedule — so every component lands on the same bore.

From material to specification

1 Start however you like

Size a system or configure a component online, or contact us directly — your choice.

2 GQI engineers validate

Velocities, line sizes & protection confirmed before anything is quoted.

3 Delivered as one system

Components arrive matched — one material record, one coherent system.



Configure it
configurator.gqind.com

From material to moving system.

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