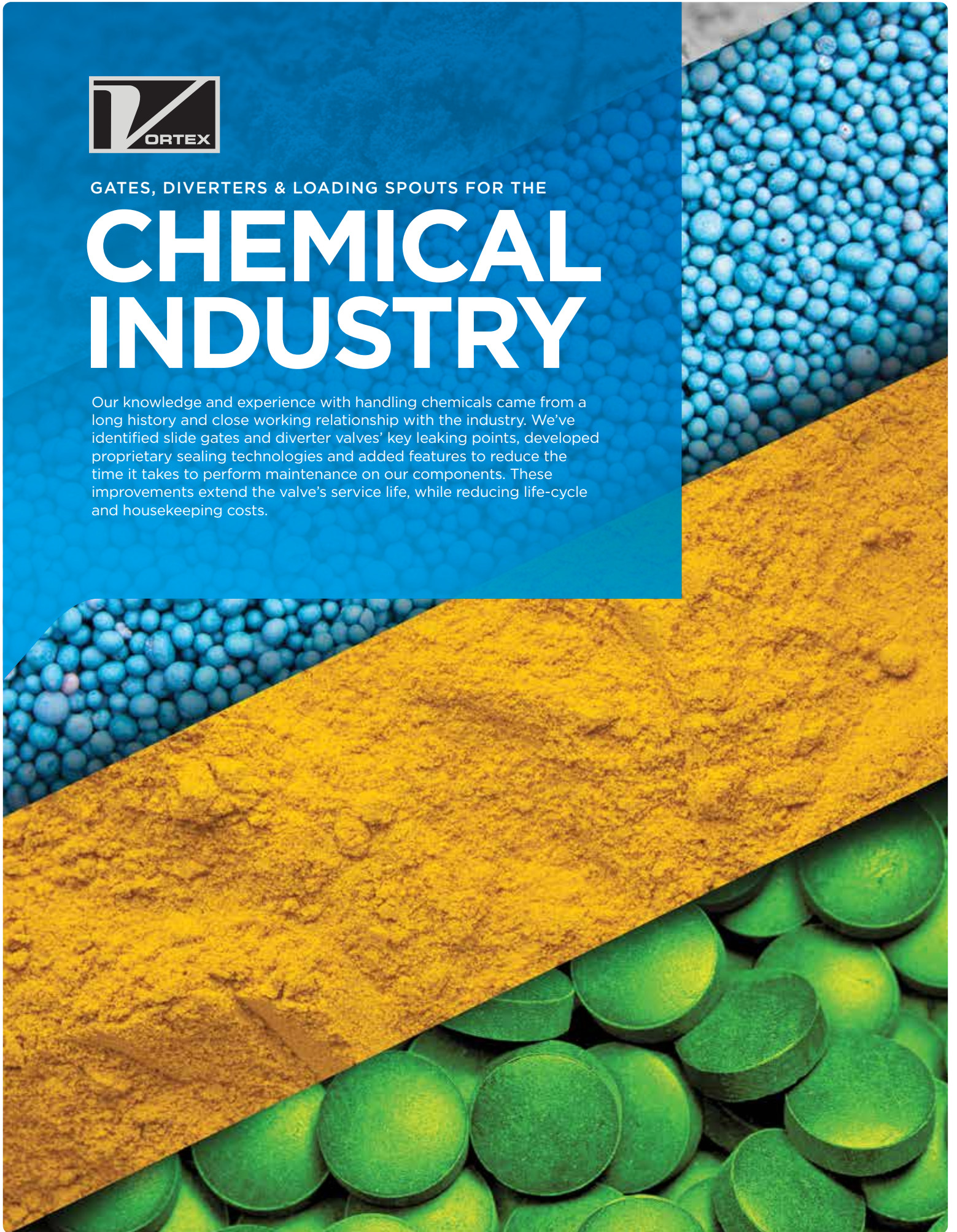




GATES, DIVERTERS & LOADING SPOUTS FOR THE

CHEMICAL INDUSTRY

Our knowledge and experience with handling chemicals came from a long history and close working relationship with the industry. We've identified slide gates and diverter valves' key leaking points, developed proprietary sealing technologies and added features to reduce the time it takes to perform maintenance on our components. These improvements extend the valve's service life, while reducing life-cycle and housekeeping costs.



Wye Line Diverter

DUST TIGHT SEAL

Positive seal of dust and fine powders through closed leg

DIVERTS AND CONVERGES

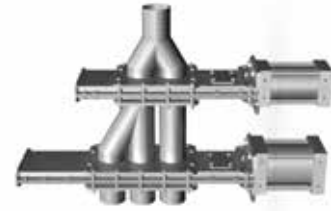
Diverts and converges material flow in pneumatic applications

IN-LINE MAINTENANCE

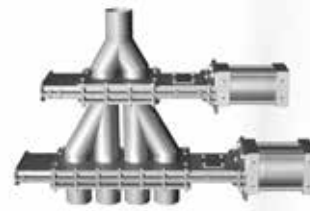
Serviceable while in-line



2-WAY CONFIGURATION



3-WAY CONFIGURATION



4-WAY CONFIGURATION

Multi-Port Diverter

MULTI SOURCE & MULTI DESTINATION CONVEYING

May be configured to accommodate customer requirements in handling the pneumatic flow of material from a specific number of sources to a specific number of destinations.



Seal Tite Diverter

UNIQUE FLOW DESIGN

Leading edge of blade protected from the material flow stream

INTEGRAL SHAFT SEAL

Shaft seal replaces area where material packing normally occurs

IN-LINE MAINTENANCE

Removeable access door for internal inspection, cleaning, or maintenance



Orifice Gate

SELF-CLEANING

Mechanically self-cleans on opening stroke

UNOBSTRUCTED OPENING

Seals protected from blast abrasion and material flow

IN-LINE MAINTENANCE

Serviceable while in-line



TYPES OF CHEMICALS VORTEX HANDLES:

- ADDITIVES
- AUTOMOTIVE
- COSMETICS
- FERTILIZERS
- PHARMACEUTICALS
- WATER TREATMENT
- PETROCHEMICALS
- TEXTILES

For 40 years, Vortex has designed components capable of handling dry bulk solids of varying characteristics. Whether it's corrosive or of the finest granular grade, Vortex slide gates, diverters, and loading solutions will improve process efficiency, establish long-term reliability, and ensure dust-free environments - regardless of chemical properties.

Above is only a sample of the many chemicals and petrochemicals handled by Vortex components each day. As you can see, from the water we drink to the clothing on our backs, Vortex is assisting companies worldwide to handle vital chemicals that enrich our quality of life.

CONSTRUCTION OPTIONS

304 & 316L stainless steel options are available for construction of the valve body and material contact areas. These alloys are more reliable for their resistance to corrosion and oxidation from chemical reactions. Air cylinders may also be epoxy-coated for added protection in corrosive environments.

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Gravity Vee Diverter

INDEPENDANT FLOW CONTROL

Two independant actuators allow material to be shut off at the diverter as well as material flow to either destination, or both destinations at once.



Roller Gate

DUST TIGHT SEAL

Positive seal of dust and fine powders

IN-LINE MAINTENANCE

Serviceable while in-line

SAFE OPERATION

Valve has no pinch points or exposed moving parts



Flex Tube Diverter

ELIMINATE CROSS CONTAMINATION

Unique tube design isolates material to the off leg

2 OR 3-WAY CONFIGURATIONS

Diverts or converges material flow

SEALS PROTECTED FROM WEAR

Seals are not exposed to material stream

NO PINCH POINTS

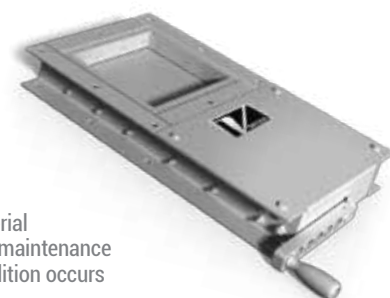
Enclosed housing protects workers from internal moving parts



Maintenance Gate

MANUAL SHUT OFF

Gate stops the flow of material when downstream product maintenance is required or an upset condition occurs



Loading Spout

DUST FREE LOADING

Designed to reduce fugitive dust

4 CABLE LIFTING DESIGN

Offers maximum stability

3 PIECE, CNC MACHINED PULLEYS

Reduces cable wear - 10 year cable warranty

CONE & SLEEVE CONSTRUCTION OPTIONS

To address wear and chemical variability



Spout Filtration System

DUST FREE LOADING

Engineered to capture the fugitive dust emitted during loading and deposit it back into the material flow. The dust becomes part of the load and is sold rather than re-routed and thrown away.



Spout Positioner

AVAILABLE IN SINGLE & DUAL AXIS

Expedites loading process. Spout may be easily positioned - eliminating the need to reposition vehicles

MAINTENANCE FRIENDLY DESIGN

Hopper seals may be replaced without having to remove loading spout or hopper to access





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