



TITAN™ EQ

Swing Disc Valve

The United Conveyor Corporation (UCC) TITAN™ EQ Swing Disc Valve is the next generation vent valve designed for conveying in diverse applications, such as low-pressure dilute phase and high-pressure dense phase conveying systems. Its modular design accommodates various vent line sizes, therefore eliminating the need for multiple-sized valves. The TITAN EQ features UCC's latest self-adjusting, spring-mounted ball pivot, removing the need for manual adjustments and reduces overall maintenance costs. This valve ships fully assembled with adapters to reduce field assembly and installation costs.

TITAN™ EQ Field Installation



UCC Ball Pivot Design



FEATURES

- Body Material: Ductile Iron
- Inlet Size: DN50, DN65, DN80
- Maximum Operating Pressure: 5.2 bar
- Maximum Rated Pressure: 9 bar
- Air Cylinder Operating Pressure: 5.5 - 7 bar
- Maximum Operating Temperature: 260 °C

ADVANTAGES

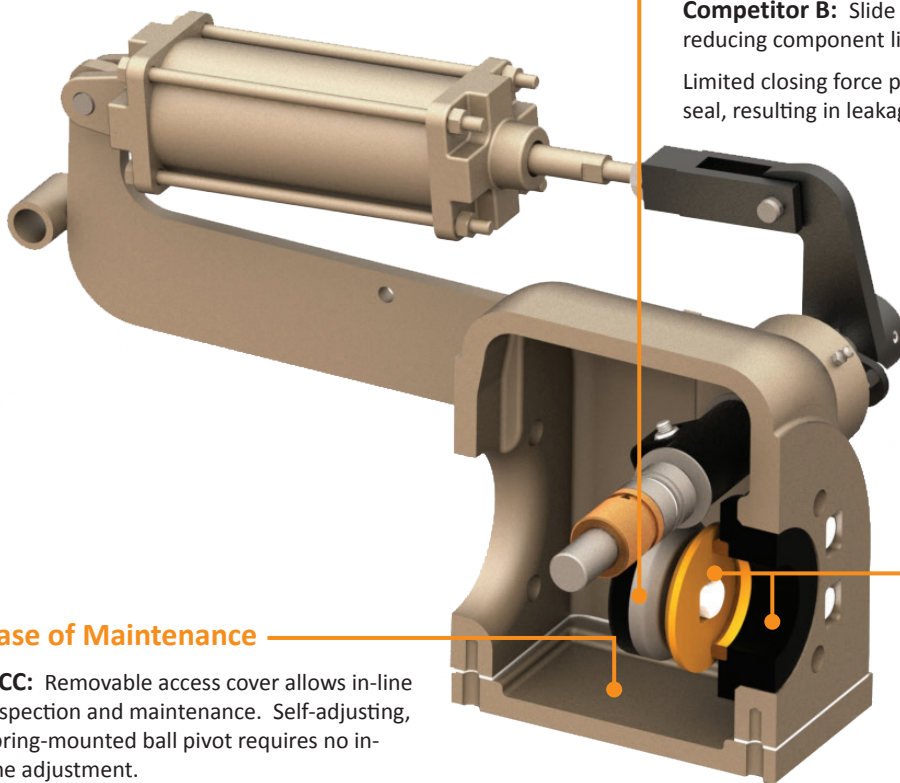
- **Universal Design**
 - › Versatile design can be used in multiple conveying applications (dilute and dense phase)
 - › Modular throat design accommodates multiple sized vent lines including DN50, DN65 and DN80
 - › Pipe adapters accommodate pre-existing conditions allowing plug-in-play operation
- **Superior Sealing Performance**
 - › Standard Tungsten Carbide seat and disc provide superior wear resistance for extended service life
 - › Spring-loaded packing design maintains uniform pressure and seal during operation to prevent leakage and extend the life of the shaft and packing
 - › Self-adjusting, spring-mounted ball pivot provides reliable sealing performance, eliminating the need of manual adjustments
- **Easy Maintenance**
 - › Access cover allows for easy in-line adjustments and maintenance

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Technical Data Sheet
TDS17-404

UCC COMPETITIVE ADVANTAGES



Ease of Maintenance

UCC: Removable access cover allows in-line inspection and maintenance. Self-adjusting, spring-mounted ball pivot requires no in-line adjustment.

Competitor A: Valve must be removed for inspection and maintenance.

Competitor B: Vent line must be disassembled and valve setting must be reset each time maintenance is performed.

Sealing Style

UCC: Proven UCC swing-disc technology provides ten times the closing force compared to slide gate style valves and maintains tight seal tolerances. The seat shape minimizes surface area for optimal sealing.

Competitor A: Inflatable seal designs fails frequently in high velocity/high abrasive applications.

Competitor B: Slide gate design generates sliding abrasion and wear, reducing component life.

Limited closing force prevents the valve from creating a pressure tight seal, resulting in leakage and reduced service life.

Materials of Construction

UCC: Replaceable seat and disc made of tungsten carbide is the preferred material for high velocity applications.

Competitor A: Inflatable elastomer seat is a soft material prone to frequent abrasion failures and punctures.

Competitor B: Seat and gate materials are made of Ni-Hard, which is a softer material compared to tungsten carbide and is less suitable in applications where frequent pressurizing and/or equalizing is required.

ORDERING INFORMATION

Please reference UCC Drawing #5-1952-97 for current product information.

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