

# TRISTOP™ D IBV

SPRING BRAKE CHAMBERS WITH INTERNAL BREATHING VALVE



**WABCO**

## PREMIUM PERFORMANCE AND LONG LIFE

For over 150 years, WABCO has supplied the commercial vehicle segment with cutting edge technology designed to enhance safety and lower costs. Our ever expanding brake chamber business has produced 40 million units with 15 million currently in service around the world. Our expertise in manufacturing, research and development has been invested into our latest spring brake chamber product: the TRISTOP D with Internal Breathing Valve for heavy and medium duty applications.

### INTERNAL BREATHING VALVE (IBV)

IBV allows the brake chamber to breathe using clean air from the service side of the chamber. Most competitor chambers breathe with external holes in the rear housing (Open-Hole Technology). These holes allow for contaminants like dirt and salt to enter the spring cavity and decay the parking spring. Protecting the parking spring is the best way to extend the life of the brake chamber and WABCO's IBV does exactly that, allowing for a fully sealed parking spring.

### FEATURES OF THE TRISTOP™ DOUBLE DIAPHRAGM SPRING BRAKE CHAMBER

#### Sealing

- Redundant in driving position
- Extra protection against dirt and dust impact

#### Parking spring

- Powder-coated
- Low relaxation
- Coil-clash free design
- Barrel-shaped parking spring with coil-clash free design for installation in a wide range of applications

#### Internal Breathing Valve (IBV)

- Provides clean and dry air
- Extended service life of the device

#### Spring room

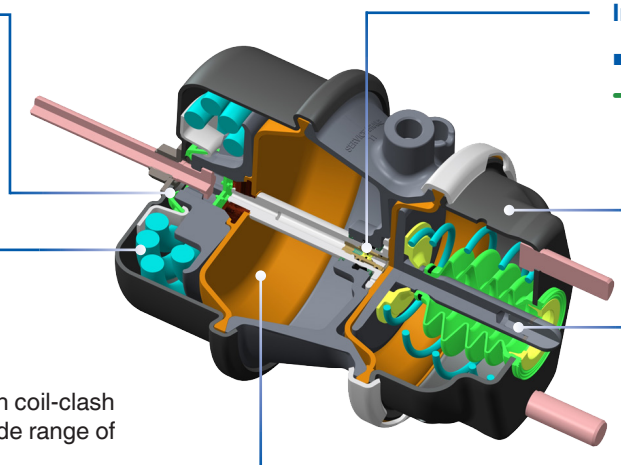
- Completely powder-coated
- High corrosion resistance ensuring longer service life and lower Total Cost of Ownership

#### Vulcanized diaphragm

- Long service life

#### Longer push rod

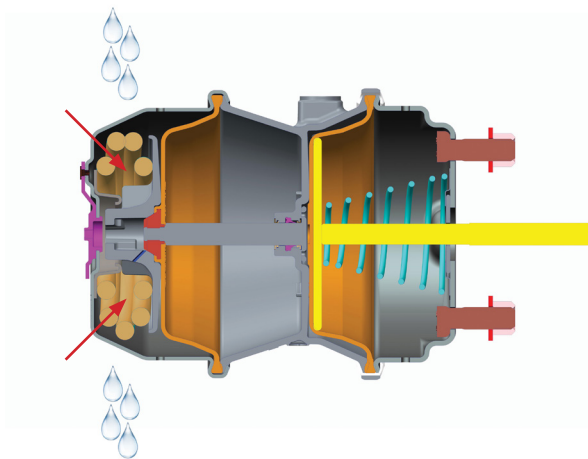
- For universal applications



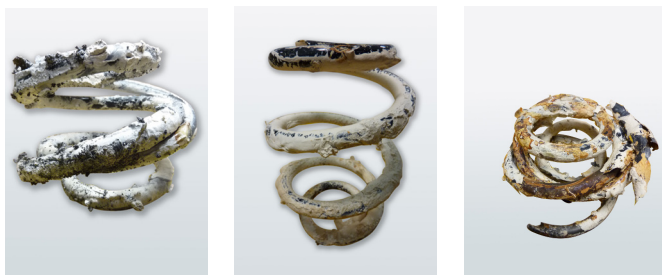
TRISTOP D IBV  
comes with a **6 year** or  
with a **600,000 mile**  
warranty guaranteed

Maintaining high vehicle safety standards and lowering total cost of ownership (TCO) are significant challenges for fleet managers. WABCO's IBV technology and coil clash-free parking spring design maximize spring brake chamber life. This higher life expectancy provides significant maintenance cost savings by optimizing uptime. The conventional open-hole design chambers allow external road contaminants to reach the parking brake parts that accelerate wear and tear.

## OPEN-HOLE TECHNOLOGY



Contamination enters and corrosion occurs resulting in a broken parking spring



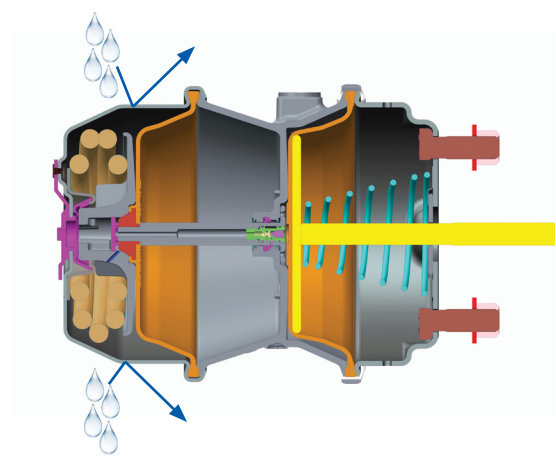
Competitors' parking springs after corrosive slurry/mud test\*

Broken parking springs lead to reduced or even lost braking performance and leakages resulting in hot running brakes. WABCO's IBV technology extends the life of the spring brake chamber.

TRISTOP D spring brake chambers are available in multiple sizes covering the needs of North American fleets.

\*Duration of 5 weeks in an accelerated corrosive environment

## WABCO IBV TECHNOLOGY



Only dry and clean air is used in the spring room of the parking brake, so the parking spring remains protected from exterior contaminants



WABCO's parking spring after corrosive slurry/mud test\*

## THE WABCO DIFFERENCE

- Longer service intervals keep the truck on the road and out of the garage
- Lower total cost of ownership



## OWNERSHIP SUPPORT

WABCO's extensive air disc brake aftermarket product line consists of carriers, calipers, chambers, brake pads, pad shields, rotors, rotor shields, repair kits and pressure plates. WABCO is committed to maximizing your uptime with a comprehensive aftersales support network of more than 1,500 distribution points. Our growing distribution network ensures you get the parts you need, when you need them.

**For further product details contact your distributor or the WABCO  
Customer Care Center at 855-228-3203.**

**WABCO** (NYSE: WBC) is the leading global supplier of braking control systems and other advanced technologies that improve the safety, efficiency and connectivity of commercial vehicles. Originating from the Westinghouse Air Brake Company founded nearly 150 years ago, WABCO is powerfully “Mobilizing Vehicle Intelligence” to support the increasingly autonomous, connected and electric future of the commercial vehicle industry. WABCO continues to pioneer innovations to address key technology milestones in autonomous mobility and apply its extensive expertise to integrate the complex control and fail-safe systems required to efficiently and safely govern vehicle dynamics at every stage of a vehicle’s journey – on the highway, in the city and at the depot. Today, leading truck, bus and trailer brands worldwide rely on WABCO’s differentiating technologies. Powered by its vision for accident-free driving and greener transportation solutions, WABCO is also at the forefront of advanced fleet management systems and digital services that contribute to commercial fleet efficiency. In 2018, WABCO reported sales of over \$3.8 billion and has more than 16,000 employees in 40 countries. For more information, visit:

**[www.wabco-na.com](http://www.wabco-na.com)**