



AirBOSS® Control Box

Integrated Air Control for OEM Trailer Systems



Quick, Simple Installation • Unmatched Configuration • Factory-Tested Reliability



Your Partner in Trusted Performance.

HOW IT WORKS

The Alkon AirBOSS® Control Box is engineered and manufactured as a ready-to-install pneumatic assembly. Valve arrangement and plumbing are configured to match your build, then validated through two stages of factory testing. Components are tested individually, followed by the assembled box to verify proper operation.

Color-coded plumbing makes connections easier to identify during installation and service. A rugged composite enclosure with a stainless-steel latch comes standard to protect the pneumatic components, with additional material options available.

WHY IT WORKS

Traditional air system installation requires multiple components to be mounted, plumbed, connected, and checked individually. The Alkon AirBOSS® Control Box replaces that fragmented process with one integrated assembly. For more involved setups, a conventional installation can take up to 6 hours, compared with as little as 45 minutes using the Alkon AirBOSS® system.

Fewer connections create fewer opportunities for leaks and downstream pneumatic issues. A streamlined assembly process also lowers labor demands and rework. The result is greater consistency across production and a finished product that reinforces the quality and reputation of your brand.

Quick, Simple Installation

The pre-assembled box consolidates components into one unit, while centralized connections reduce potential leak paths and simplify installation.

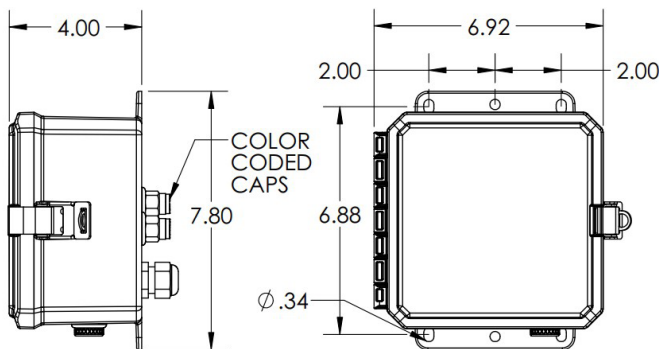
Unmatched Configuration

Flexible valve layouts and enclosure options make it easier to tailor the Alkon AirBOSS® Control Box to your specific trailer application.

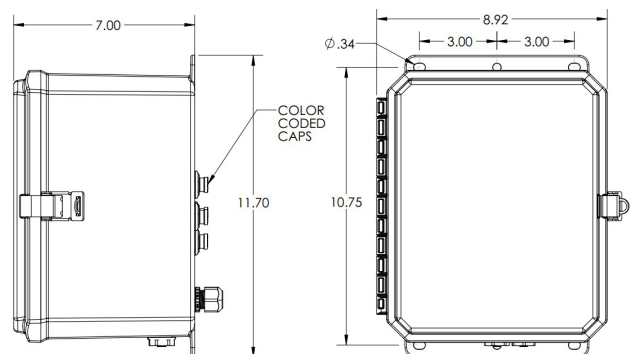
Factory-Tested Reliability

Each unit is factory tested, with DOT-compliant valves supporting reliable performance and the quality your customers expect.

DIMENSIONAL INFORMATION



Single-Valve Box Dimensions



Multi-Valve Box Dimensions

DESIGN SPECIFICATIONS

Operating Temperature	-40 to +180° F
Operating Pressures*	0 to 150 PSI
DOT Fitting Size	3/8" Tube
Gauge Range	0 to 160 PSI

*Minimum of 60 PSI tank pressure required

Cap Color	To/From	Cap Color	To/From
Red	Supply / Tank	Yellow	Tailgate Cylinder
Green	HCV / Suspension	Black	Air Cab Control
Violet	Ride Bags, Equalized	Orange	Slider / Dolly Lock
Gray	Lift Bags	Blue	Brake Release

PART NUMBER COLOR KEY

VALVE TYPE

Valve Code	Valve	Options	Notes
D	Dump	1 from: #1	1st valve station only
L	Lift	1 from each: #1, #2 & #3	
T	Tailgate Lock	1 from: #1	NO or NC
R	Slider Lock	1 from: #1	NO or NC
K	Dolly Lock	1 from: #1	NO or NC
TO	Tailgate Open	1 from each: #1 & #3	NO or NC
BR	Brake Release	1 from each: #1 & #3	NO or NC

OPTION #1: VALVE OPERATOR

Operator Code	Type	Notes
P	Manual Push/Pull	Z only for Option #3
S	Solenoid w/ Manual Override	
B	Blocked	
A	Air w/ Manual Override	
H	Auto	Dump valve only

OPTION #2: SUSPENSION TYPE

Suspension Code	Type
E	Equalized
R	Regulated

OPTION #3: VALVE FORMAT

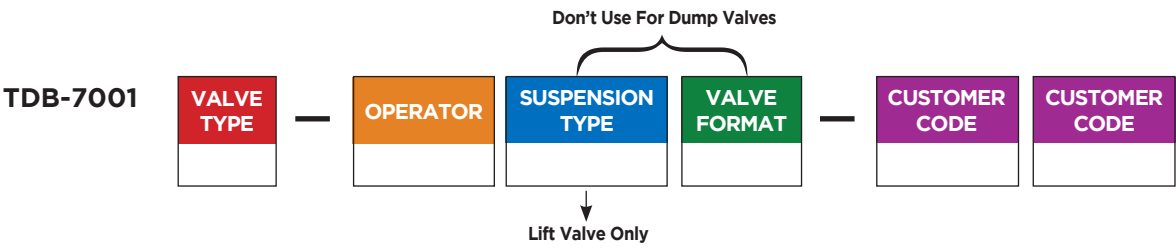
Format Code	Format	Energized State	Notes
U	Axle Normally Up	Energized to Lower	For lift axles only
D	Axle Normally Down	Energized to Lift	For lift axles only
Z	Choose for P Option		
NO	Normally Open		Only for valve type T, R, K, TO, or BR
NC	Normally Closed		Only for valve type T, R, K, TO, or BR

CUSTOMER CODE

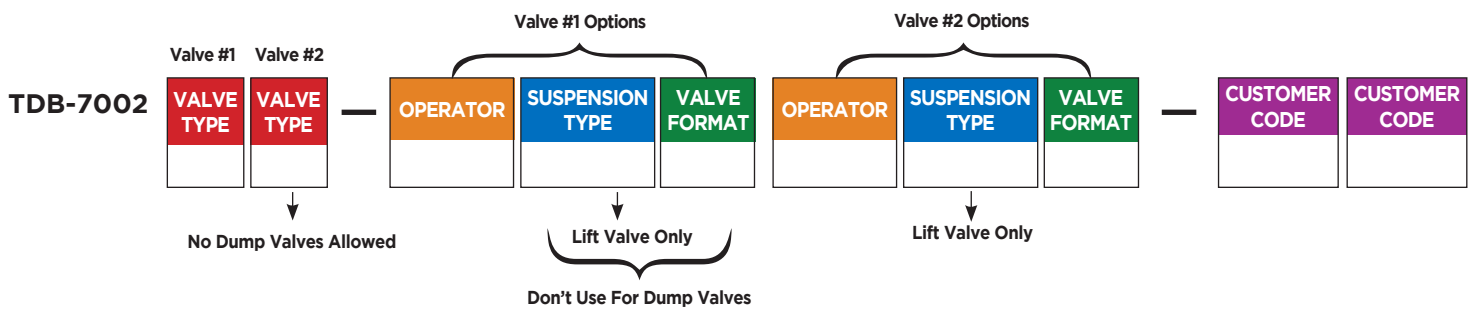
Notes
Only for custom labeling, assigned by factory

CHOOSE YOUR BOX CONFIGURATION

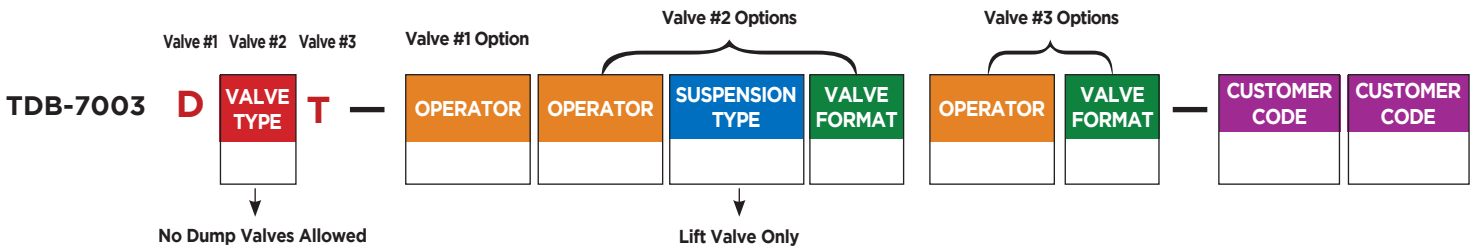
TDB-7001: Single-Valve Box



TDB-7002: Dual-Valve Box

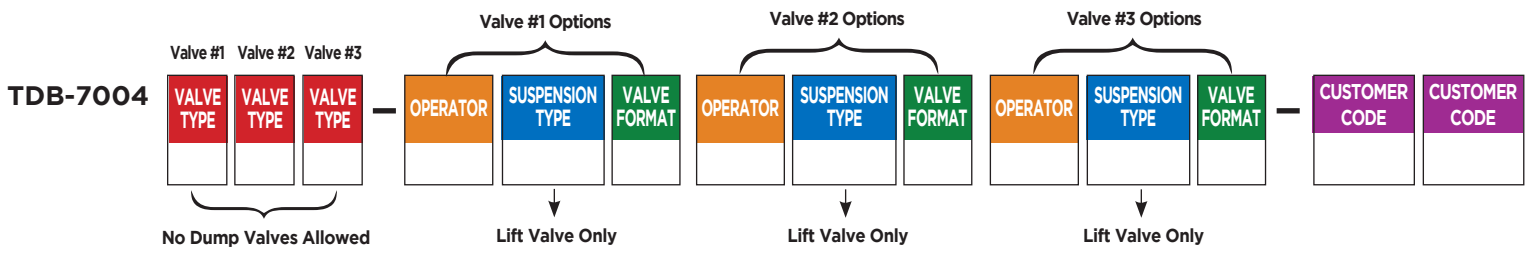


TDB-7003: Three-Valve Box (Dump Valve in 1st Station & Tailgate Lock Valve in 3rd Station)



*If no "Valve Format" is identified for Valve #3, this will be NC/U

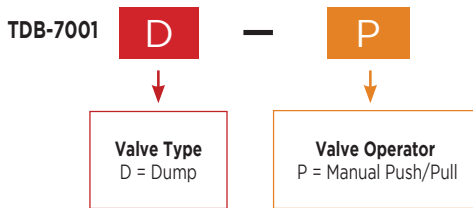
TDB-7004: Three-Valve Box



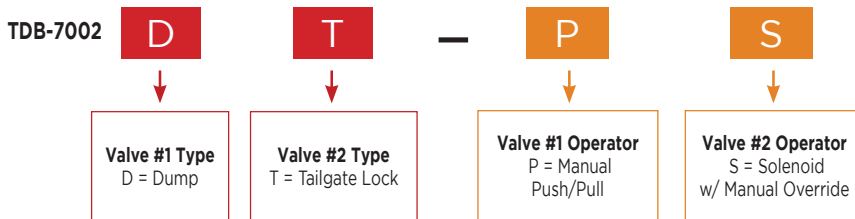
UNDERSTANDING YOUR PART NUMBER

Each part number is built from a series of option codes.
The examples below show how the code is structured.

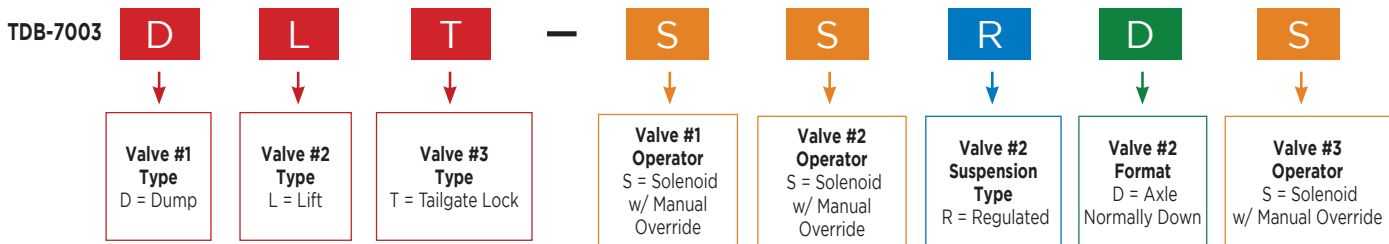
TDB-7001: Single-Valve Box Example



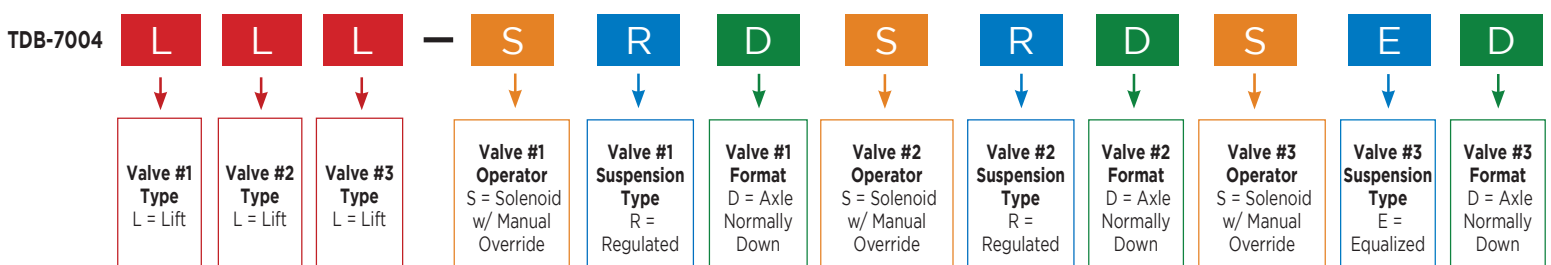
TDB-7002: Dual-Valve Box Example



TDB-7003: Three-Valve Box Example (Dump Valve in 1st Station & Tailgate Lock Valve in 3rd Station)



TDB-7004: Three-Valve Box Example





Why Choose Alkon

U.S. MANUFACTURED: No port, no problems. Our products are manufactured at our facilities in Michigan and Ohio, protecting you from global supply chain disruptions.

COLLABORATION: Our experts work alongside you at every stage, from initial design through post-production support.

COMMITMENT: From answering your call to providing on-site troubleshooting, we respond with urgency and follow through on our commitments.

CUSTOMER FOCUS: We look beyond individual components to understand your application and deliver complete pneumatic solutions that address your specific performance and operational needs.

Simplify Your Trailer Air System

Discover how the Alkon AirBOSS® Control Box streamlines installation, improves reliability, and supports flexible configurations. Contact us today to gain your competitive advantage.



Your Partner in Trusted Performance.