



DUMP TRUCK APPLICATION GUIDE

Pneumatic DOT Solutions



AirBOSS® Cylinders
AirBOSS® Valves
DuraLink™ Fittings
DuraLink™ Tubing
In-Cab Controls

YOUR PARTNER IN TRUSTED PERFORMANCE

Build Like Your Brand's Success Depends On It

A SYSTEM APPROACH STARTS WITH THE RIGHT PARTNER

A pneumatic system is more than a collection of individual components. The way those components work together directly affects the reliability of the larger application, making system-level thinking just as important as the individual parts selected.

Alkon manufactures cylinders, valves, fittings, tubing, and controls for dump truck applications, bringing key elements of the pneumatic system together through one source. Each solution reflects a commitment to quality and is built for rugged, reliable performance in demanding environments, helping protect uptime and equipment life.

This full-system approach simplifies sourcing, improves compatibility across components, and gives you greater confidence in the system you are building. When standard products do not meet the needs of the application, Alkon combines engineering expertise with industry knowledge to adapt proven designs or develop solutions around specific operating requirements.

With operations across North America, Alkon supports consistent quality, supply chain stability, shorter lead times, and dependable delivery. A responsive, customer-first team provides practical guidance and takes ownership when questions, changes, or challenges arise.

Choosing Alkon means more than sourcing the next part. It means working with a partner equipped to support the complete pneumatic system, from product selection and engineering through delivery and operation.

HOW THE SYSTEM COMES TOGETHER

From operator command to final movement, each stage of the pneumatic path plays a distinct role in delivering the intended action. The products in this guide support that progression across four key areas: command, control, connection, and movement.

COMMAND

In-cab switches, panels, and manual controls give the operator access to pneumatic functions.

CONTROL

Alkon AirBOSS® mobile valves direct, regulate, release, and protect airflow throughout the pneumatic system.

CONNECT

Alkon DuraLink™ DOT fittings and tubing route compressed air throughout the system with confidence at every connection.

MOVE

Alkon AirBOSS® mobile cylinders create the motion behind high lift, tailgate latch, and other dump truck applications.

The pages that follow provide specifications, part numbers, and schematics for each product category.

ALKON AIRBOSS® CYLINDERS

HIGH LIFT, TAILGATE LATCH & SPECIALTY MOBILE APPLICATIONS

Alkon AirBOSS mobile pneumatic cylinders are designed to provide consistent actuation across dump truck systems. Rugged construction supports reliable performance in demanding mobile environments exposed to vibration, moisture, road debris, and temperature fluctuations.

Beyond standard cylinder configurations, Alkon engineers solutions for specific equipment requirements. The Alkon AirBOSS portfolio also includes air shifters that use compressed air to shift a hydraulic pump spool and control hydraulic system functions.

- **Seal Operating Temperature:** -40°F to 180°F
- **Lubrication Operating Temperature:** -75°F to 225°F
- **Rod Construction:** Heavy-duty steel or stainless-steel rods with protective finishes
- **Body Materials:** Anodized bar stock aluminum and stainless-steel components



HIGH LIFT CYLINDERS

Part Number	Description	Type	Bore	Stroke	Retracted Length	Extended Length	Port Size (NPT)	Port Orientation	Clevis Pin Dia.	Rod Dia.	Cross Reference
B3000-870 ¹	TRB 3.5 X 24 C TWIN CYL	Tie Rod	3.50	24.00	36.75	60.75	1/4"	In Line	3/4	0.79	C-6224-PK-M
B3000-860	RCB 4 X 16 C1	Round	4.00	16.00	25.97	41.97	3/8"	In Line	1	1.25	C-0416-PK-1
B3000-896	TRB 4 X 20 C	Tie Rod	4.00	20.00	29.55	49.55	1/4"	In Line	3/4	1	C-7402-PK
B3000-906	TRB 4 X 20 C	Tie Rod	4.00	20.00	29.55	49.55	3/8"	In Line	3/4	1.25	C-7421-PK
RCB4.00X24.00-C1	RCB 4 X 24 C1	Round	4.00	24.00	34.50	58.50	3/8"	In Line	1	1	100424
B3000-905	TRB 4 X 24 C	Tie Rod	4.00	24.00	34.70	58.70	3/8"	In Line	3/4	1.25	C-7424-PK
B3000-892	TRB 4 X 24 C	Tie Rod	4.00	24.00	35.20	59.20	1/4"	In Line	3/4	1	C-7404-PK
B3000-899	TRB 4 X 26.25 C	Tie Rod	4.00	26.25	36.70	62.95	3/8"	In Line	3/4	1.25	C-7426-PK
B3000-897 ²	RCB 4 X 26.25 C1	Round	4.00	26.25	37.50	63.73	3/8"	In Line	1	1.25	C-0426-PK-1
B3000-898 ³	RCB 4 X 26.25 C1	Round	4.00	26.25	37.50	63.75	3/8"	In Line	1	1.25	C-0427-PK-1
B3000-919 ⁴	RCB 4 X 28 C FC	Round	4.00	28.00	39.18	67.18	3/8"	In Line	3/4	1.25	C-0428-FC
B3000-814 ⁵	RCB 4 X 29 C1 FC BR	Round	4.00	29.00	39.50	68.50	3/8"	In Line	1	1.25	C-0429-FC-PK-1
B3000-916	TRB 4 X 30 C	Tie Rod	4.00	30.00	39.75	69.75	3/8"	In Line	3/4	1.25	C-7403-PK
RCB5.00X18.00-C1	RCB 5 X 18 C1	Round	5.00	18.00	29.50	47.50	3/8"	In Line	1	1	
B3000-868	TRB 5 X 20 C	Tie Rod	5.00	20.00	30.00	50.00	3/8"	In Line	3/4	1.25	C-8020-A-PK
B3000-917	TRB 5 X 20 C	Tie Rod	5.00	20.00	30.00	50.00	3/8"	In Line	3/4	1.25	C-8120-PK
B3000-883 ⁶	TRB 5 X 24 C M	Tie Rod	5.00	24.00	35.59	59.59	3/8"	In Line	3/4	1.25	C-8024

¹ Dual 3.5" bore cylinders

² Rod clevis has 2" mounting bracket clearance

³ Rod clevis has 3.5" mounting bracket clearance

⁴ Includes flow control in rear port

⁵ Includes flow control in rear port and breather in rod port

⁶ Includes muffler on rod port

TAILGATE LATCH CYLINDERS

Part Number	Description	Type	Bore	Stroke	Retracted Length	Extended Length	Port Size (NPT)	Port Orientation	Clevis Pin Dia.	Rod Dia.	APSCO Cross Reference
B3000-844	TRB 2.5 X 6 C	Tie Rod	2.50	6.00	12.63	18.63	1/4"	In Line	1/2	0.62	C-5026-PK
B3000-857 ⁷	TRB 2.5 X 6 SR	Tie Rod	2.50	6.00	13.83	19.83	1/4"	In Line		0.62	C-5063
B3000-931 ⁸	TRB 2.5 X 6 SE C	Tie Rod	2.50	6.00	14.43	19.53	1/4"	In Line	1/2	0.63	C-5097-SE-PK
B3000-846	TRB 2.5 X 7.5 C	Tie Rod	2.50	7.50	13.28	20.78	1/4"	90 Degrees	1/2	0.63	C-5075-PK
B3000-920	TRB 2.5 X 8 C	Tie Rod	2.50	8.00	13.93	21.93	1/4"	In Line	1/2	0.63	C-5070-PK
B3000-858 ⁷	TRB 2.5 X 8	Tie Rod	2.50	8.00	13.33	21.33	1/4"	In Line		0.63	C-5070S
B3000-859	TRB 2.5 X 10 C	Tie Rod	2.50	10.00	15.50	25.50	1/4"	In Line	1/2	0.62	C-5180S-PK
B3000-856	TRB 2.5 X 14 C	Tie Rod	2.50	14.00	20.83	34.83	1/4"	In Line	1/2	0.63	C-5331-PK
B3000-903	TRB 3.5 X 4 C	Tie Rod	3.50	4.00	13.00	17.00	1/4"	90 Degrees	3/4	1	C-6103-PK
B3000-835 ⁹	TRB 3.5 X 6	Tie Rod	3.50	6.00	13.96	19.96	1/4"	In Line	3/4	1	C-6102-P
B3000-837	TRB 3.5 X 6 C	Tie Rod	3.50	6.00	15.70	21.70	1/4"	90 Degrees	1/2	3/4	C-6057-PK
B3000-918 ¹⁰	TRB 3.5 X 8	Tie Rod	3.50	8.00	15.50	23.50	1/4"	90 Degrees		1	C-6004
B3000-836	TRB 3.5 X 8 C	Tie Rod	3.50	8.00	15.50	23.50	1/4"	90 Degrees	1/2	0.79	C-6023-PK
B3000-912	TRB 3.5 X 8 C	Tie Rod	3.50	8.00	15.90	23.90	1/4"	90 Degrees	1/2	0.79	C-6059-PK
B3000-886 ¹¹	TRB 3.5 X 8 C VOH	Tie Rod	3.50	8.00	15.95	24.00	1/4"	90 Degrees	1/2	0.79	C-6059-E-PK
B3000-838	TRB 3.5 X 8 C	Tie Rod	3.50	8.00	16.28	24.28	1/4"	In Line	1/2	0.79	C-6011-PK
B3000-845	TRB 3.5 X 8 C	Tie Rod	3.50	8.00	17.50	25.50	1/4"	90 Degrees	1/2	0.79	C-6009-PK
B3000-908 ¹¹	TRB 3.5 X 8 C VOH	Tie Rod	3.50	8.00	17.75	25.75	1/4"	90 Degrees	1/2	0.79	C-6089-ES-PK
B3000-909	TRB 3.5 X 8 C	Tie Rod	3.50	8.00	17.75	25.75	1/4"	In Line	1/2	0.79	C-6093-PK
B3000-913 ¹²	TRB 3.5 X 8 C	Tie Rod	3.50	8.00	17.88	25.88	1/4"	In Line	1/2 & 3/4	0.79	C-6090-PK
B3000-957 ¹¹	TRB 3.5 X 8 C VOH	Tie Rod	3.50	8.00	18.90	26.90	1/4"	90 Degrees	1/2	0.79	C-6107-ESM-PK
B3000-915	TRB 3.5 X 8 C1	Tie Rod	3.50	8.00	20.18	28.18	1/4"	90 Degrees	1	1	C-6081-PK

⁷ No rod clevis or pins, 5/8-18 rod thread

⁸ Act travel is 5.1"

⁹ No rod clevis, 3/4-16 rod thread

¹⁰ No rod clevis, 3/4-10 rod thread, rear block mount

¹¹ Valve on head

¹² 1/2" rod clevis pin and 3/8" rear clevis pin

*All cylinder dimensions are in inches

ALKON AIRBOSS® CYLINDERS

SPRING RETURN TAILGATE LATCH CYLINDERS

Part Number	Description	Bore	Stroke	Rear Mount	Rear Mount / Clevis Width	Rod End Mount	Rod Dia.	Port Size (NPT)	Cross Reference
B3000-876	TG 4 X 4.6 w/ 9" THREAD	4.00	4.60	Side Trunnion	N/A	3/4"-16 UNF w/ 15" ext	3/4"	3/8"	C-0410-SR, C-0410-SR-SSR-9
B3000-259-H-5	TG 6 X 3 5 EXT, CTR BRACKET	6.00	3.00	Center Mount Bracket	5/8" Stud x2; 4.75" on center	Stem - 5/8"-18 UNC w/ 5.0" ext	5/8"	1/4"	
B3000-259-H-6.5	TG 6 X 3 6.5 EXT, CTR BRACKET	6.00	3.00	Center Mount Bracket	5/8" Stud x2; 4.75" on center	Stem - 5/8"-18 UNC w/ 6.5" ext	5/8"	1/4"	100603
B3000-379	TG 6 X 4.38 12.0 EXT, SIDE BRK	6.00	4.38	Side Mount Bracket	1/2" Hole x2; 2.16" on center	Stem - 5/8"-18 UNC w/ Long Rod	3/4"	1/4"	
B3000-301	TG 6 X 4.38 12.1 EXT, SIDE BRK	6.00	4.38	Side Mount Bracket	1/2" Hole x2; 2.16" on center	Stem - 5/8"-18 UNC w/ Long Rod	5/8"	1/4"	100613

AIR SHIFTERS

- **Operating Temperature:** -40°F to 180°F
- **Operating Pressure:** 75 PSI to 150 PSI
- **Material:** Aluminum



Part Number	Port Size (NPT)	Spring Load @ Installed Height (lb.)	Spring Load @ Compressed (lb.)	Min. Retraction Force @ 100 PSI (lb.)	Min. Extension Force @ 100 PSI (lb.)	Cross Reference
SPC-2000-AM	1/8"	~50	~70	90	190	C-3505-DM, 997-01888
SPC-2002-AM	1/8"	~30	~60	71.6	131	C-3503-DM, 997-01905

*All cylinder dimensions are in inches
For part number stocking status, visit alkoncorp.com/mobile-cylinder-stocking-status/

TAILGATE, HIGH LIFT, LATCH & LIFT AXLE CONTROL VALVES

Dump truck pneumatic systems rely on precise airflow, pressure control, and component protection to keep tailgate, high lift, latch, and lift axle functions operating reliably. Alkon AirBOSS valves and accessories are built for repeated cycling, harsh road conditions, moisture, and daily use across mobile applications.

The Lightning[®] Lift-Axle Valve (LLV) combines ride bag pressure regulation and lift axle control in a compact, all-in-one design for commercial vehicle applications. Engineered for fast response and accurate pressure control, the LLV raises and lowers lift axles in seconds. By lifting axles during tight maneuvers, the LLV reduces tire wear. Its streamlined design simplifies installation and supports long-term performance.

DOT VALVES

SOLENOID VALVES

- **Operating Temperature:** -40°F to 180°F
- **Operating Pressure:** 40 PSI to 150 PSI
- **Material:** Anodized aluminum
- **Mounting:** Inline or Thru hole mount



Part Number	Function	Voltage	Port Size (NPT)	Valve Format	Actuation Type	Application
TD-4242	3-Way Single Solenoid, Spring Return	12 VDC w/ 18" leads	1/4"	Normally Closed	Single Acting	Tailgate High Lift & Latch
TD-4242M ¹	3-Way Single Solenoid, Spring Return	12 VDC w/ 18" leads	1/4"	Normally Closed	Single Acting	Tailgate High Lift & Latch
TD-4262	3-Way Single Solenoid, Spring Return w/ Manual Lock Override	12 VDC w/ 18" leads	1/4"	Normally Closed	Single Acting	Tailgate High Lift & Latch
TD-4342	4-Way Single Solenoid, Spring Return	12 VDC w/ 18" leads	1/4"	Normally Closed	Double Acting	Tailgate High Lift & Latch, Lift Axle
TD-4362	4-Way Single Solenoid, Spring Return w/ Manual Lock Override	12 VDC w/ 18" leads	1/4"	Normally Closed	Double Acting	Tailgate High Lift & Latch, Lift Axle
TD-6242	3-Way Single Solenoid, Spring Return	12 VDC w/ 18" leads	3/8"	Normally Closed	Single Acting	Tailgate High Lift & Latch
TD-6262	3-Way Single Solenoid, Spring Return w/ Manual Lock Override	12 VDC w/ 18" leads	3/8"	Normally Closed	Single Acting	Tailgate High Lift & Latch
TD-6342	4-Way Single Solenoid, Spring Return	12 VDC w/ 18" leads	3/8"	Normally Closed	Double Acting	Tailgate High Lift & Latch, Lift Axle
TD-6362	4-Way Single Solenoid, Spring Return w/ Manual Lock Override	12 VDC w/ 18" leads	3/8"	Normally Closed	Double Acting	Tailgate High Lift & Latch, Lift Axle

¹M = Miniature

PUSH/PULL VALVES

- **Operating Temperature:** -40°F to 180°F
- **Maximum Pressure Supply:** 200 PSI
- **Material:** Anodized aluminum, urethane seals
- **Mounting:** Panel mount, Inline, or Thru hole mount



Part Number	Function	Port Size (NPT)	Flow
TD-4200	3/2 Push/Pull, Detented	1/4"	1.0 (48 scfm fully open)
TD-4300	5/2 Push/Pull, Detented	1/4"	1.0 (48 scfm fully open)
TD-4400	5/3 "B" Spool 3 POS Push/Pull	1/4"	1.0 (48 scfm fully open)
TD-6200	3/2 Push/Pull, Detented	3/8"	2.0 (96 scfm fully open)
TD-6300	5/2 Push/Pull, Detented	3/8"	2.0 (96 scfm fully open)

ALKON AIRBOSS® VALVES

QUICK RELEASE VALVES

- Operating Temperature: -40°F to 180°F
- Operating Pressure: 5 PSI to 150 PSI
- Material: Anodized aluminum
- Mounting: Line or body mount

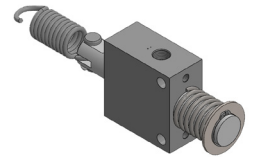
Part Number	Port Size	Application
QR2	1/4"	Suspension Dump, Lift Axle
QR3	3/8"	Suspension Dump, Lift Axle



3/2 LIMIT PULL VALVE

- Operating Temperature: -40°F to 200°F
- Maximum Pressure Supply: 150 PSI
- Material: Anodized aluminum

Part Number	Port Size (NPT)
SP-3577	1/4"



PRESSURE PROTECTION VALVES

- Operating Temperature: -40°F to 200°F
- Maximum Pressure Supply: 150 PSI
- Material: Anodized aluminum

Part Number	Opens @ (PSI)	Closes @ (PSI)	Port Size (NPT)
B2400-B80	75	70	1/4"
B2400-B81	75	70	3/8"



LIGHTNING® LIFT-AXLE VALVES

- Operating Temperature: -40°F to 180°F
- Operating Ride Pressure: 10 to 150 PSI
- Operating Lift Pressure: 50 to 150 PSI
- Ride Bag Regulatory Accuracy: ±3%, down to 10 PSI



Part Number	Control	Axle Normal Position	Coil Voltage	Option	Cross-Reference Norgren LACM Valve
LLV-8100	Air Pilot	Normally Down			5040-111-01C
LLV-8200	Air Pilot	Normally Up			5040-111-01C
LLV-8310	Solenoid	Normally Down	12 VDC		5040-811-01
LLV-8311	Solenoid	Normally Down	12 VDC	W/ Deutsch DT04 Connector	5040-211-01C
LLV-8312	Solenoid	Normally Down	12 VDC	Air Pilot Solenoid Override	5040-811-01
LLV-8410	Solenoid	Normally Up	12 VDC		5040-711-03
LLV-8411	Solenoid	Normally Up	12 VDC	W/ Deutsch DT04 Connector	5040-311-01C
LLV-8412	Solenoid	Normally Up	12 VDC	Air Pilot Solenoid Override	5040-711-03

ACCESSORIES

PORT PROTECTORS

- Retainer Material: Brass
- Diaphragm Material: Nitrile
- Spring Material: Stainless steel

Part Number	Size (NPT)
PP-14	1/4"
PP-38	3/8"
PP-38PTC	3/8"



SHUTTLE VALVE

- Operating Temperature: -40°F to 180°F
- Maximum Pressure Supply: 200 PSI
- Material: Anodized aluminum
- Mounting: Inline or Thru hole mount

Part Number	Port Size (NPT)
SV-25	1/4"



EXTERNAL REGULATOR

- Operating Temperature: -40°F to 180°F
- Operating Pressure: 0 PSI to 160 PSI
- Material: Anodized aluminum
- Mounting: Inline or Thru hole mount

Part Number	Size (NPT)	Mounting Hole Size
AR02-1A	1/8"	1.25"



KNOB

- Grip Style: Round
- Color: Black with white font

Part Number	Thread	Head Width
30A01072K	5/16"-18	1.81



MANIFOLDS

- Operating Temperature: -40°F to 200°F
- Maximum Pressure Supply: 150 PSI
- Material: Anodized aluminum

Part Number	Type	Outlet (NPT)	Inlet (NPT)
13A01739	4-Station	1/4"	3/8"



ALKON DURALINK™ DOT BRASS PUSH-TO-CONNECT FITTINGS

SPECIFICATIONS:

Temperature Range
-40°F to 220°F

Pressure Rating
150 PSI Maximum

Body Material
Brass – CA360 & CA377

O-Ring Material
NBR

Thread Sealant Type
LOCTITE® 516

Standard Compliance
SAE J2494-3 and FMVSS
49 CFR 571.106

OPTIONS:

High-temperature O-ring
White thread sealant (ST-3®)



AQ54-DOT 45° MALE ELBOW		
Part Number	Tube O.D.	Pipe
AQ54-DOT-4X2	1/4	1/8
AQ54-DOT-4X4	1/4	1/4
AQ54-DOT-6X2	3/8	1/8
AQ54-DOT-6X4	3/8	1/4
AQ54-DOT-6X6	3/8	3/8
AQ54-DOT-6X8	3/8	1/2
AQ54-DOT-8X4	1/2	1/4
AQ54-DOT-8X6	1/2	3/8
AQ54-DOT-8X8	1/2	1/2
AQ54-DOT-10X6*	5/8	3/8
AQ54-DOT-10X8	5/8	1/2
AQ54-DOT-12X8*	3/4	1/2
AQ54-DOT-12X12*	3/4	3/4



AQ54-DOTS SWIVEL 45° MALE ELBOW		
Part Number	Tube O.D.	Pipe
AQ54-DOTS-4X2	1/4	1/8
AQ54-DOTS-4X4	1/4	1/4
AQ54-DOTS-6X2	3/8	1/8
AQ54-DOTS-6X4	3/8	1/4
AQ54-DOTS-6X6	3/8	3/8
AQ54-DOTS-6X8	3/8	1/2
AQ54-DOTS-8X4*	1/2	1/4
AQ54-DOTS-8X6	1/2	3/8
AQ54-DOTS-8X8	1/2	1/2
AQ54-DOTS-10X6	5/8	3/8
AQ54-DOTS-10X8	5/8	1/2
AQ54-DOTS-12X12*	3/4	3/4



AQ59 NYLON PLUG	
Part Number	Tube O.D.
AQ59-P-5/32	5/32
AQ59-P-4	1/4
AQ59-P-6	3/8
AQ59-P-8	1/2



AQ62-DOT UNION CONNECTOR	
Part Number	Tube O.D.
AQ62-DOT-5/32	5/32
AQ62-DOT-3	3/16
AQ62-DOT-4	1/4
AQ62-DOT-5	5/16
AQ62-DOT-6	3/8
AQ62-DOT-8	1/2
AQ62-DOT-10	5/8
AQ62-DOT-12	3/4



AQ64-DOT UNION TEE	
Part Number	Tube O.D.
AQ64-DOT-4	1/4
AQ64-DOT-6	3/8
AQ64-DOT-8	1/2
AQ64-DOT-10	5/8
AQ64-DOT-12*	3/4



AQ65-DOT UNION ELBOW	
Part Number	Tube O.D.
AQ65-DOT-4	1/4
AQ65-DOT-6	3/8
AQ65-DOT-8	1/2



AQ68-DOT MALE CONNECTOR		
Part Number	Tube O.D.	Pipe
AQ68-DOT-5/32X1	5/32	1/16
AQ68-DOT-5/32X2	5/32	1/8
AQ68-DOT-5/32X4	5/32	1/4
AQ68-DOT-3X0	3/16	10/32
AQ68-DOT-3X1	3/16	1/16
AQ68-DOT-3X2	3/16	1/8
AQ68-DOT-3X4	3/16	1/4
AQ68-DOT-4XM16	1/4	M16
AQ68-DOT-4X1	1/4	1/16
AQ68-DOT-4X2	1/4	1/8
AQ68-DOT-4X4	1/4	1/4
AQ68-DOT-4X6*	1/4	3/8
AQ68-DOT-6X2	3/8	1/8
AQ68-DOT-6X4	3/8	1/4
AQ68-DOT-6X6	3/8	3/8
AQ68-DOT-6X8	3/8	1/2
AQ68-DOT-6XM12	3/8	M12
AQ68-DOT-6XM16	3/8	M16
AQ68-DOT-8X4	1/2	1/4
AQ68-DOT-8X6	1/2	3/8
AQ68-DOT-8X8	1/2	1/2
AQ68-DOT-8X12	1/2	3/4
AQ68-DOT-8XM16	1/2	M16
AQ68-DOT-8XM22	1/2	M22
AQ68-DOT-10X6	5/8	3/8
AQ68-DOT-10X8	5/8	1/2
AQ68-DOT-10X12	5/8	3/4
AQ68-DOT-10XM22	5/8	M22
AQ68-DOT-12X8	3/4	1/2
AQ68-DOT-12X12	3/4	3/4



AQ69-DOT MALE ELBOW		
Part Number	Tube O.D.	Pipe
AQ69-DOT-5/32X1	5/32	1/16
AQ69-DOT-5/32X2	5/32	1/8
AQ69-DOT-3X2	3/16	1/8
AQ69-DOT-4X2	1/4	1/8
AQ69-DOT-4X4	1/4	1/4
AQ69-DOT-4X6	1/4	3/8
AQ69-DOT-6X2	3/8	1/8
AQ69-DOT-6X4	3/8	1/4
AQ69-DOT-6X6	3/8	3/8
AQ69-DOT-6X8	3/8	1/2
AQ69-DOT-8X4	1/2	1/4
AQ69-DOT-8X6	1/2	3/8
AQ69-DOT-8X8	1/2	1/2
AQ69-DOT-10X6	5/8	3/8
AQ69-DOT-10X8	5/8	1/2
AQ69-DOT-12X8	3/4	1/2
AQ69-DOT-12X12	3/4	3/4

*Made to Order – consult factory for price and availability.



AQ69-DOTS SWIVEL MALE ELBOW			
Part Number	Tube O.D.	Pipe	
AQ69-DOTS-5/32X2	5/32	1/8	
AQ69-DOTS-5/32X4*	5/32	1/4	
AQ69-DOTS-3X2	3/16	1/8	
AQ69-DOTS-4X0	1/4	10/32	
AQ69-DOTS-4X2	1/4	1/8	
AQ69-DOTS-4X4	1/4	1/4	
AQ69-DOTS-4X6	1/4	3/8	
AQ69-DOTS-4XM12	1/4	M12	
AQ69-DOTS-6X2	3/8	1/8	
AQ69-DOTS-6X4	3/8	1/4	
AQ69-DOTS-6X6	3/8	3/8	
AQ69-DOTS-6X8	3/8	1/2	
AQ69-DOTS-6X12	3/8	3/4	
AQ69-DOTS-6XM12	3/8	M12	
AQ69-DOTS-6XM16	3/8	M16	
AQ69-DOTS-6XM22	3/8	M22	
AQ69-DOTS-8X4	1/2	1/4	
AQ69-DOTS-8X6	1/2	3/8	
AQ69-DOTS-8X8	1/2	1/2	
AQ69-DOTS-8X12	1/2	3/4	
AQ69-DOTS-8XM22	1/2	M22	
AQ69-DOTS-10X6	5/8	3/8	
AQ69-DOTS-10X8	5/8	1/2	
AQ69-DOTS-10X12	5/8	3/4	
AQ69-DOTS-10XM22	5/8	M22	
AQ69-DOTS-12X6	3/4	3/8	
AQ69-DOTS-12X8	3/4	1/2	
AQ69-DOTS-12X12	3/4	3/4	



AQ72-DOTS SWIVEL MALE BRANCH TEE		
Part Number	Tube O.D.	Pipe
AQ72-DOTS-3X2	3/16	1/8
AQ72-DOTS-4X2	1/4	1/8
AQ72-DOTS-4X4	1/4	1/4
AQ72-DOTS-6X2	3/8	1/8
AQ72-DOTS-6X4	3/8	1/4
AQ72-DOTS-6X6	3/8	3/8
AQ72-DOTS-6X8	3/8	1/2
AQ72-DOTS-6XM12	3/8	M12
AQ72-DOTS-6XM16	3/8	M16
AQ72-DOTS-6XM22	3/8	M22
AQ72-DOTS-8X4	1/2	1/4
AQ72-DOTS-8X6	1/2	3/8
AQ72-DOTS-8X8	1/2	1/2
AQ72-DOTS-10X8	5/8	1/2



AQ79-DOT UNION REDUCING TEE		
Part Number	Tube O.D. 1	Tube O.D. 2
AQ79-DOT-4X6	1/4	3/8
AQ79-DOT-6X5/32	3/8	5/32
AQ79-DOT-6X2	3/8	1/8
AQ79-DOT-6X4	3/8	1/4



AQ71-DOT MALE RUN TEE		
Part Number	Tube O.D.	Pipe
AQ71-DOT-4X2	1/4	1/8
AQ71-DOT-4X4	1/4	1/4
AQ71-DOT-4X6	1/4	3/8
AQ71-DOT-6X4	3/8	1/4
AQ71-DOT-6X6	3/8	3/8
AQ71-DOT-8X6*	1/2	3/8



AQ82-DOT BULKHEAD UNION	
Part Number	Tube O.D. 1
AQ82-DOT-4	1/4
AQ82-DOT-6	3/8
AQ82-DOT-8	1/2
AQ82-DOT-10	5/8



AQ71-DOTS SWIVEL MALE RUN TEE		
Part Number	Tube O.D.	Pipe
AQ71-DOTS-4X2	1/4	1/8
AQ71-DOTS-4X4	1/4	1/4
AQ71-DOTS-6X4	3/8	1/4
AQ71-DOTS-6X6	3/8	3/8
AQ71-DOTS-8X6	1/2	3/8
AQ71-DOTS-8X8	1/2	1/2



AQ83-DOT GLADHAND MALE BULKHEAD CONNECTOR		
Part Number	Tube O.D. 1	Male Pipe
AQ83-DOT-6X8*	3/8	1/2
AQ83-DOT-8X8	1/2	1/2
AQ83-DOT-10X8	5/8	1/2



AQ72-DOT MALE BRANCH TEE		
Part Number	Tube O.D.	Pipe
AQ72-DOT-4X2	1/4	1/8
AQ72-DOT-4X4	1/4	1/4
AQ72-DOT-6X2	3/8	1/8
AQ72-DOT-6X4	3/8	1/4
AQ72-DOT-6X6	3/8	3/8
AQ72-DOT-8X4*	1/2	1/4
AQ72-DOT-8X6	1/2	3/8



AQ86-DOT FEMALE BULKHEAD UNION		
Part Number	Tube O.D.	Female Pipe
AQ86-DOT-4X2	1/4	1/8
AQ86-DOT-4X4	1/4	1/4
AQ86-DOT-6X4	3/8	1/4
AQ86-DOT-6X6	3/8	3/8
AQ86-DOT-8X6	1/2	3/8

ALKON DURALINK™ BRASS PIPE FITTINGS

SPECIFICATIONS:

Temperature Range
-40°F to 250°F

Pressure Rating
1000 PSI Max

Material
Extruded and
Forged Brass

Standard Compliance
Meets functional
requirements of SAE
J530 and SAE J531

OPTIONS:

**Add the following
code at the end of the
part number for:**

T = Pre-Applied Loctite
Vibra-Seal 516 (Red) on
all Male Threads

W = Pre-Applied ND
Industries ST-3 Sealant
(White) on all Male
Threads

N = Nickel Plated
(Bulk Plated, Cosmetic
Appearance)

Series 200 Pipe
fittings are not usable
in potable water
applications.

All threads are English
NPT, except for
Bulkhead through
wall thread.



200A 90° UNION FEMALE ELBOW		
ALKON PN	Thread	Weight, lb. ea.
200A-2	1/8	0.04
200A-4	1/4	0.10
200A-6	3/8	0.12
200A-8	1/2	0.21



201A UNION FEMALE TEE		
ALKON PN	Thread	Weight, lb. ea.
201A-2	1/8	0.06
201A-4	1/4	0.13
201A-6	3/8	0.16
201A-8	1/2	0.26



202A FEMALE CROSS		
ALKON PN	Thread	Weight, lb. ea.
202A-2	1/8	0.08
202A-4	1/4	0.18
202A-6	3/8	0.23
202A-8	1/2	0.50



203A FEMALE COUPLING		
ALKON PN	Thread	Weight, lb. ea.
203A-2	1/8	0.03
203A-4	1/4	0.09
203A-6	3/8	0.10
203A-8	1/2	0.19



204A FEMALE UNION		
ALKON PN	Thread	Weight, lb. ea.
204A-2	1/8	0.12
204A-4	1/4	0.17
204A-6	3/8	0.35



206A 90° MALE ELBOW		
ALKON PN	Thread	Weight, lb. ea.
206A-2	1/8	0.04
206A-4	1/4	0.06
206A-6	3/8	0.10
206A-8	1/2	0.17



207A BRANCH TEE		
ALKON PN	Thread	Weight, lb. ea.
207A-2	1/8	0.06
207A-4	1/4	0.08
207A-6	3/8	0.16
207A-8	1/2	0.22



208A FEMALE CAP		
ALKON PN	Thread	Weight, lb. ea.
208A-2	1/8	0.026
208A-4	1/4	0.040
208A-6	3/8	0.054
208A-8	1/2	0.114



209A SQUARE-HEAD MALE PLUG		
ALKON PN	Thread	Weight, lb. ea.
209A-2	1/8	0.02
209A-4	1/4	0.04
209A-6	3/8	0.06
209A-8	1/2	0.12



209AL COUNTERSUNK SOCKET-HEAD MALE PLUG		
ALKON PN	Thread	Weight, lb. ea.
209AL-2	1/8	0.01
209AL-4	1/4	0.02
209AL-6	3/8	0.03
209AL-8	1/2	0.07



210A REDUCING BUSHING			
ALKON PN	Thread 1 Male	Thread 2 Female	Weight, lb. ea.
210A-4X2	1/4M	1/8F	0.03
210A-6X2	3/8M	1/8F	0.05
210A-6X4	3/8M	1/4F	0.04
210A-8X2	1/2M	1/8F	0.08
210A-8X4	1/2M	1/4F	0.09
210A-8X6	1/2M	3/8F	0.06
210A-12X4	3/4M	1/4F	0.15
210A-12X6	3/4M	3/8F	0.13
210A-12X8	3/4M	1/2F	0.11



211A LOCK NUT		
ALKON PN	Thread	Weight, lb. ea.
211A-2	1/8	0.02
211A-4	1/4	0.03
211A-6	3/8	0.05
211A-8	1/2	0.07



212A CLOSE NIPPLE		
ALKON PN	Thread	Weight, lb. ea.
212A-2	1/8	0.01
212A-4	1/4	0.02
212A-6	3/8	0.03
212A-8	1/2	0.05
212A-12	3/4	0.13

213A LONG NIPPLE			
ALKON PN	Thread	Length	Weight, lb. ea.
213A-2X20	1/8	1-1/4	0.02
213A-2X24	1/8	1-1/2	0.02
213A-2X32	1/8	2	0.04
213A-2X40	1/8	2-1/2	0.05
213A-2X48	1/8	3	0.06
213A-2X56	1/8	3-1/2	0.05
213A-4X24	1/4	1-1/2	0.04
213A-4X32	1/4	2	0.06
213A-4X40	1/4	2-1/2	0.08
213A-4X48	1/4	3	0.10
213A-4X56	1/4	3-1/2	0.06
213A-4X64	1/4	4	0.08
213A-6X24	3/8	1-1/2	0.06
213A-6X32	3/8	2	0.08
213A-6X40	3/8	2-1/2	0.10
213A-6X48	3/8	3	0.13
213A-6X56	3/8	3-1/2	0.08
213A-8X24	1/2	1-1/2	0.08
213A-8X32	1/2	2	0.13
213A-8X40	1/2	2-1/2	0.16
213A-8X48	1/2	3	0.08
213A-8X56	1/2	3-1/2	0.13

216A 90° STREET ELBOW			
ALKON PN	Thread Male	Thread Female	Weight, lb. ea.
216A-2X2	1/8M	1/8F	0.04
216A-4X2	1/4M	1/8F	0.06
216A-4X4	1/4M	1/4F	0.07
216A-6X6	3/8M	3/8F	0.13
216A-8X8	1/2M	1/2F	0.20

217A SLOTTED HEAD MALE PLUG		
ALKON PN	Thread	Weight, lb. ea.
217A-2	1/8	0.01
217A-4	1/4	0.02

219A REDUCING FEMALE ADAPTER			
ALKON PN	Thread 1	Thread 2	Weight, lb. ea.
219A-4X2	1/4	1/8	0.07
219A-6X4	3/8	1/4	0.10
219A-8X4	1/2	1/4	0.17
219A-8X6	1/2	3/8	0.17
219A-12X8	3/4	1/2	0.26

220A ADAPTER			
ALKON PN	Thread Male	Thread Female	Weight, lb. ea.
220A-2X2	1/8M	1/8F	0.04
220A-4X2	1/4M	1/8F	0.07
220A-4X4	1/4M	1/4F	0.09
220A-6X2	3/8M	1/8F	0.12
220A-6X4	3/8M	1/4F	0.10
220A-6X6	3/8M	3/8F	0.12
220A-8X6	1/2M	3/8F	0.17
220A-8X8	1/2M	1/2F	0.21

221A HEX HEAD MALE PLUG		
ALKON PN	Thread	Weight, lb. ea.
221A-2	1/8	0.02
221A-4	1/4	0.03
221A-6	3/8	0.05
221A-8	1/2	0.10
221A-12	3/4	0.16

222A HEX MALE NIPPLE			
ALKON PN	Thread 1	Thread 2	Weight, lb. ea.
222A-2X2	1/8	1/8	0.03
222A-4X2	1/4	1/8	0.05
222A-4X4	1/4	1/4	0.05
222A-6X4	3/8	1/4	0.07
222A-6X6	3/8	3/8	0.08
222A-8X4	1/2	1/4	0.10
222A-8X6	1/2	3/8	0.11
222A-8X8	1/2	1/2	0.15
222A-12X8	3/4	1/2	
222A-12X12	3/4	3/4	

224A 45° STREET ELBOW		
ALKON PN	Thread	Weight, lb. ea.
224A-2X2	1/8	0.04
224A-4X4	1/4	0.09
224A-6X6	3/8	0.11
224A-8X8	1/2	0.23

227A STREET TEE		
ALKON PN	Thread	Weight, lb. ea.
227A-2	1/8	0.07
227A-4	1/4	0.15
227A-6	3/8	0.19
227A-8	1/2	0.39

229A BULKHEAD ADAPTER			
ALKON PN	Female Thread	Length	Weight, lb. ea.
229A-2X24	1/8	1-1/2	0.12
229A-4X15	1/4	15/16	0.18
229A-4X24	1/4	1-1/2	0.18
229A-6X21	3/8	1-1/8	0.28
229A-8X24	1/2	1-1/2	0.34

ALKON DURALINK™ DOT TUBING



Validated beyond SAE J844 and FMVSS requirements, Alkon DuraLink™ DOT tubing delivers exceptional bend integrity, tensile strength, and elongation when paired with Alkon DOT push-to-connect fittings. Alkon DuraLink tubing can also be paired with competitor fittings, enhancing overall capability.

DESIGN SPECIFICATIONS

- **Tubing Material:** Nylon
- **Operating Temperature:** -40°F to 200°F
- **Maximum Working Pressure:** 145 PSI
- **Compliance Standards:** SAE J844 and FMVSS 49 CFR 571.106
- **Environmental Resistance:** Withstands extreme temperatures and road conditions

ORDERING INFORMATION

SIZE

Tube Size Code	Tube O.D.
5/32	5/32"
04	1/4"
06	3/8"
08	1/2"
10	5/8"
12	3/4"

COLOR

Tube Color Code	Color
BL	Black
BLU	Blue
GN	Green
GY	Grey
O	Orange
PU	Purple
R	Red
WH	White
Y	Yellow

LENGTH

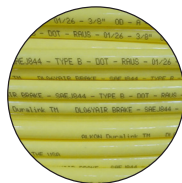
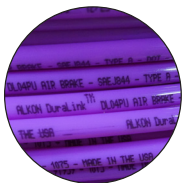
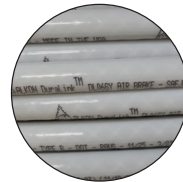
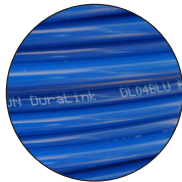
Tube Length Code	Length
250	250 Feet
500	500 Feet
1000	1000 Feet

ALKON DURALINK™ DOT TUBING



PART NUMBER INFORMATION

Tube Size O.D.					
5/32"	1/4"	3/8"	1/2"	5/8"	3/4"
DL5/32BL1000	DL04BL1000	DL06BL500	DL08BL500	DL10BL250	DL12BL250
	DL04BLU1000	DL06BLU500	DL08BLU500	DL10GN250	DL12BLU250
	DL04GN1000	DL06GN500	DL08GN500	DL10O250	DL12GN250
	DL04GY1000	DL06GY500	DL08O500		
	DL04O1000	DL06O500	DL08R500		
	DL04PU1000	DL06PU500	DL08Y500		
	DL04R1000	DL06R500			
	DL04WH1000	DL06WH500			
	DL04Y1000	DL06Y500			



IN-CAB CONTROLS

GAUGES, PANEL ASSEMBLIES, & SWITCHES

From lift axle operation to work lights, in-cab controls give drivers direct command over key truck functions. Pressure gauges, panel assemblies, and rocker switches are available for a wide range of dump truck configurations.

PRESSURE GAUGES

- **Liquid:** Silicone-filled
- **Gauge Material:** Stainless steel

Part Number	Style	Thread
SP-2109	0-100 PSI Flange Mount Gauge Assy	1/4"
48A01121P	0-160 PSI Panel Mount Gauge Assy	1/4"



PANEL ASSEMBLIES

- **Operating Temperature:** -40°F to 180°F
- **Operating Pressure:** 60 PSI to 150 PSI
- **Ride Pressure:** Regulated air supply to the lift axle
- **System Setup:** Pre-plumbed, plug-and-play design
- **Pressure Monitoring:** Gauge monitors ride pressure



Part Number	Function	Mounting Style
B2400-B03	Air Control Kit for Lift Axle with Regulated Ride. Non-steerable Inside Mounted (NSI)	Inside Bracket Mount
B2400-B04	Air Control Kit for Lift Axle with Regulated Ride. Steerable Inside Mounted (SSI)	Inside Bracket Mount

ROCKER SWITCHES

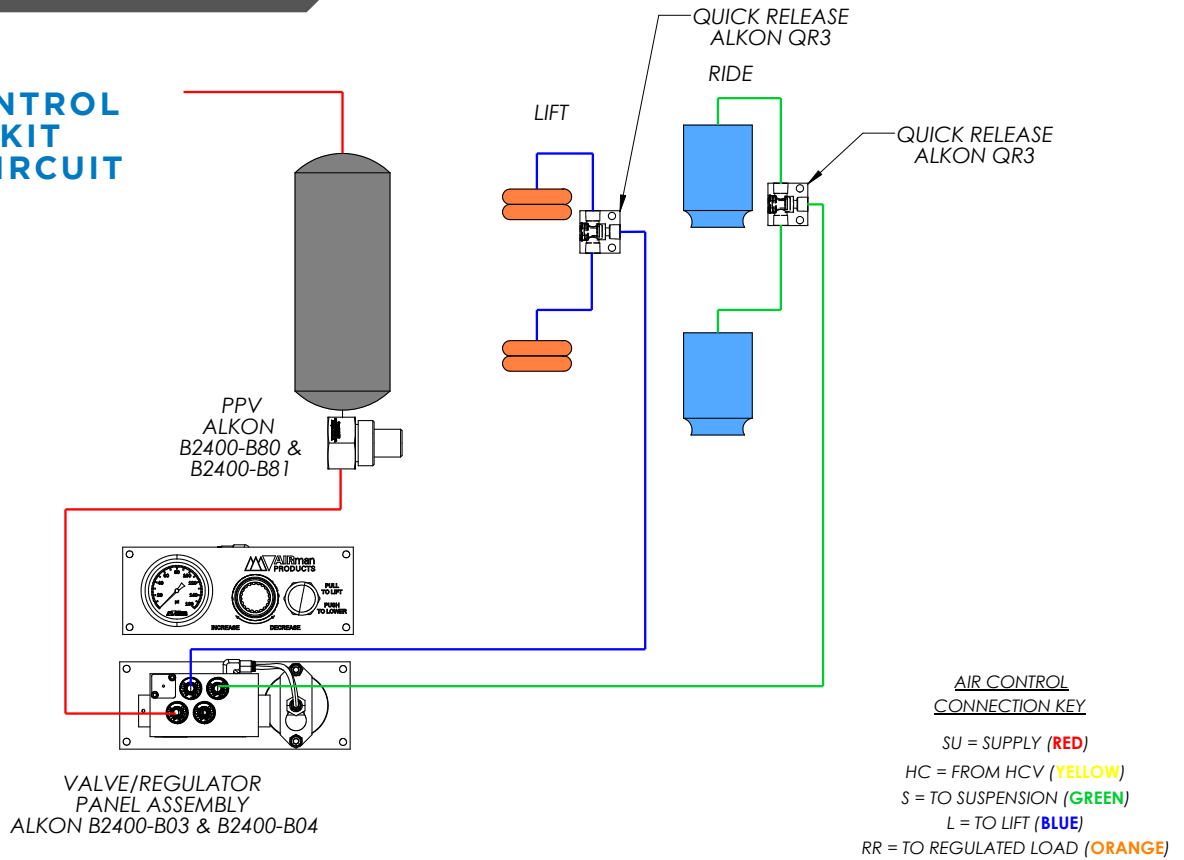
- **Operating Temperature:** -40°F to 185°F
- **Contact Rating:** 20 amps, 4-14VDC
- **Hole Size:** 1.45" x 0.83"
- **Life:** Up to 100,000 cycles, circuit and load dependent
- **Sealing:** IP66/68, for above-panel components of actual switch only



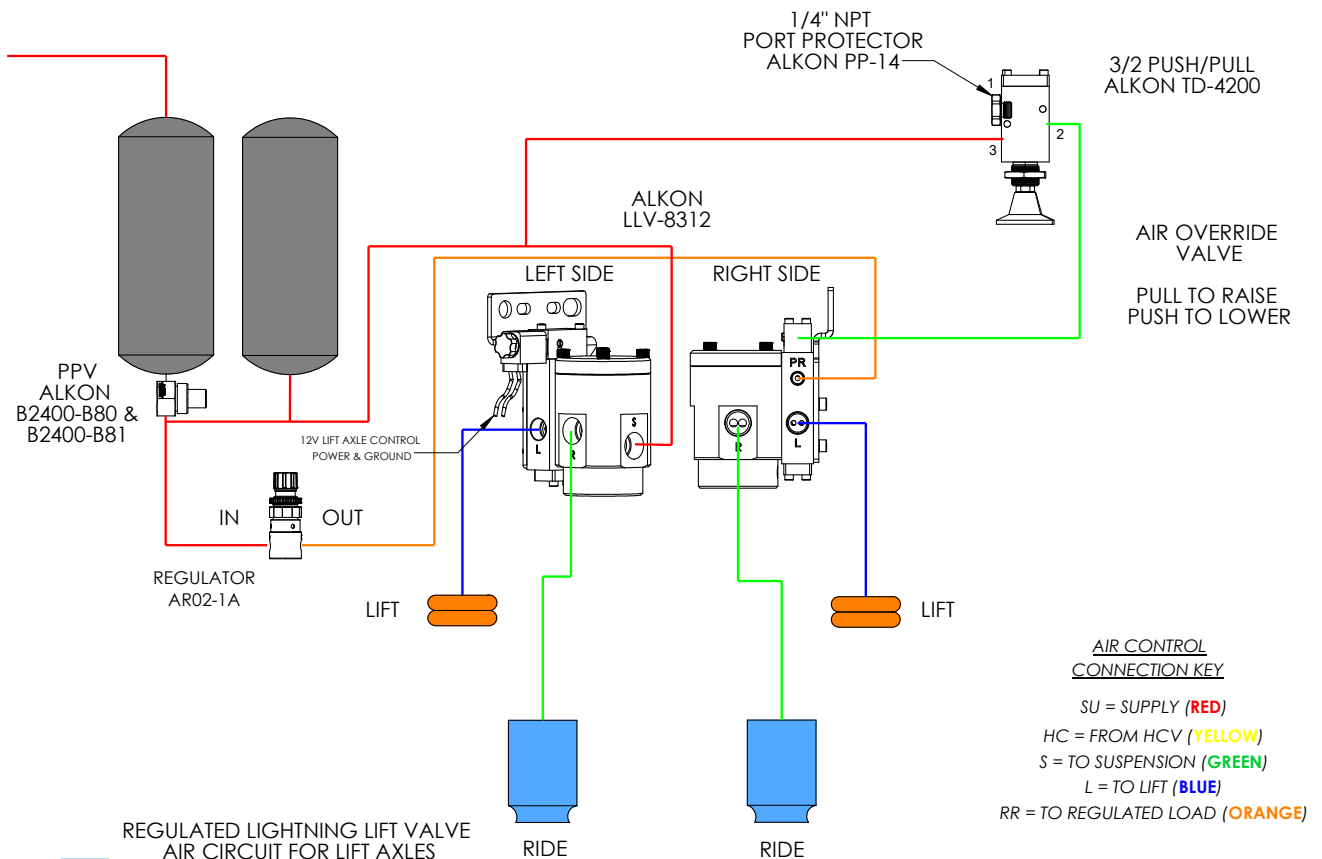
Part Number	Function	Circuit Configuration	Switch Operation
39A01299-ST	Strobe	SPST	ON-OFF
39A01299-BH	Body Heat	SPST	ON-OFF
39A01299-LA	Lift Axle	SPST	ON-OFF
39A01299-V	Vibrator	SPST	(ON)OFF
39A01299-TP	Tarp	DPDT	(ON)OFF(ON)
39A01299-LA-1	Lift Axle 1	SPST	ON-OFF
39A01299-LA-2	Lift Axle 2	SPST	ON-OFF
39A01299-DD	Diverter Dump	SPST	ON-OFF
39A01299-LA-3	Lift Axle 3	SPST	ON-OFF
39A01299-ML	Marker Lights	SPST	ON-OFF
39A01299-WL	Work Lights	SPST	ON-OFF
39A01299-LA-4	Lift Axle 4	SPST	ON-OFF
39A01299-FUEL	Fuel Sprayer	SPST	ON-OFF
39A01299-BC	Body Camera	SPST	ON-OFF
39A01299-HL	High Lift	SPST	ON-OFF
39A01299-PTO	PTO	SPST	ON-OFF
39A01299-S	Spreader	SPST	ON-OFF
39A01299-TL	Tailgate Latch	SPST	ON-OFF
39A01299-WP	Water Pump	SPST	ON-OFF

LIFT AXLE CIRCUITS

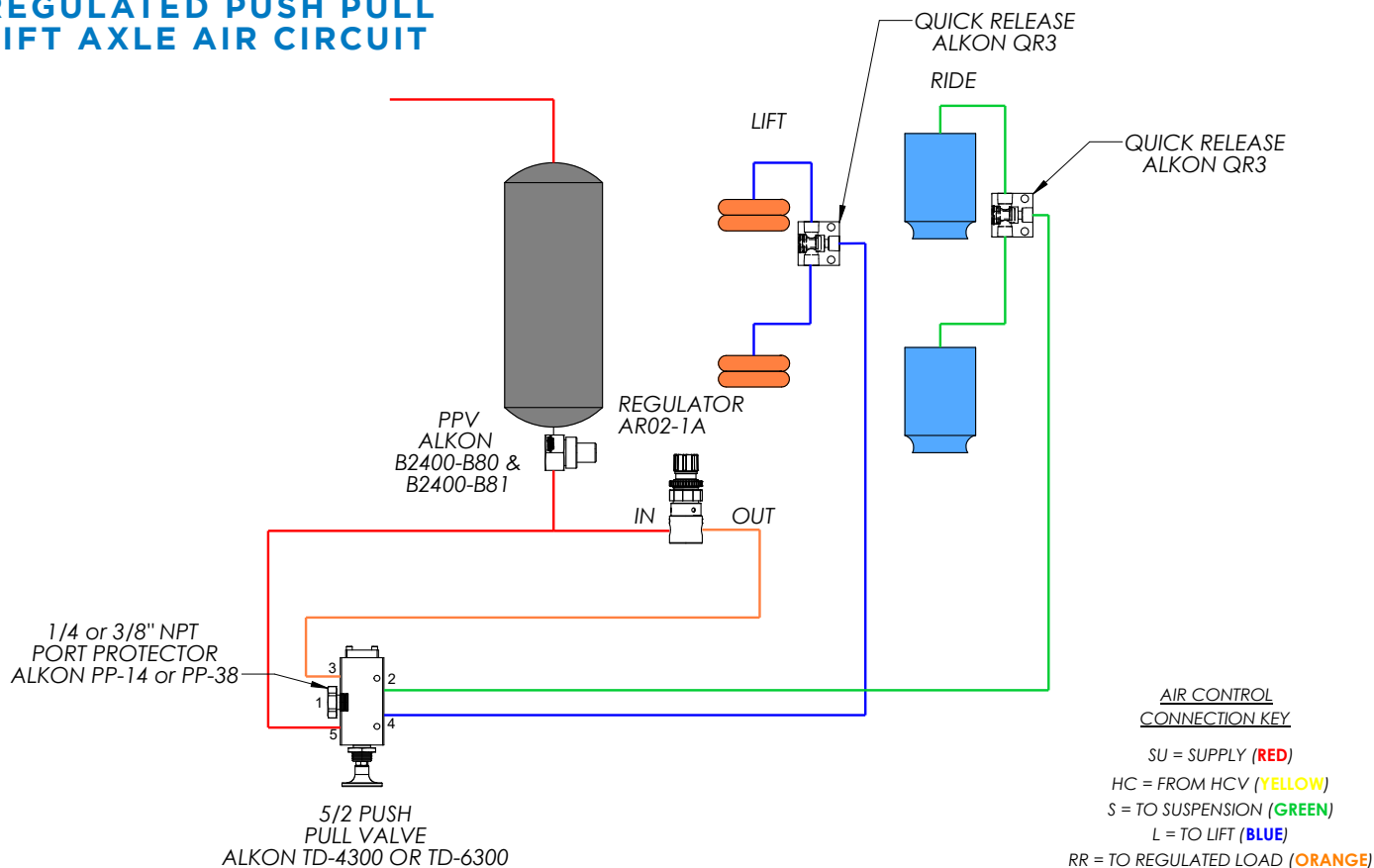
AXLE LIFT CONTROL VALVE PANEL KIT REGULATED CIRCUIT



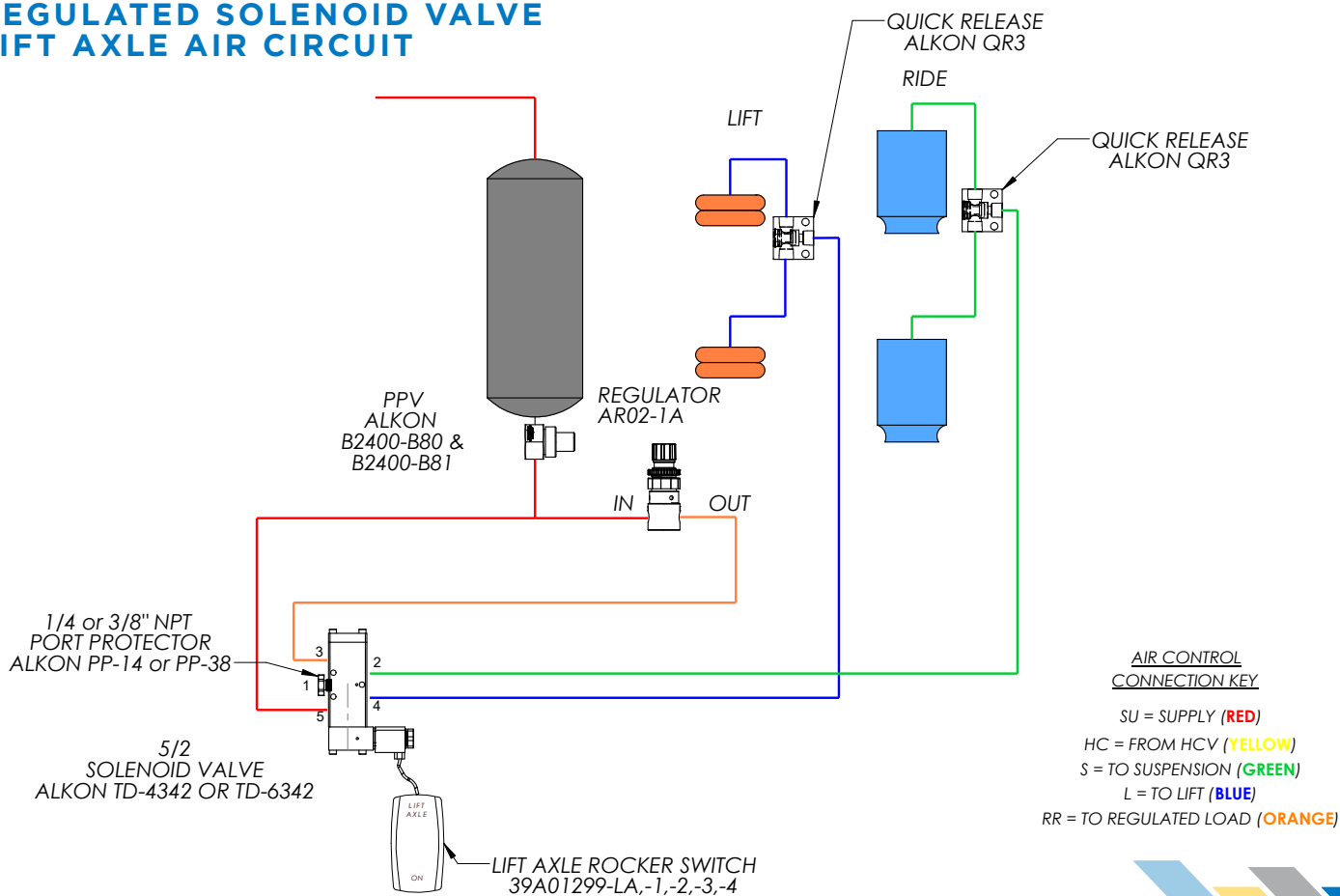
LLV-8312 REGULATED AIR CIRCUIT



REGULATED PUSH PULL LIFT AXLE AIR CIRCUIT



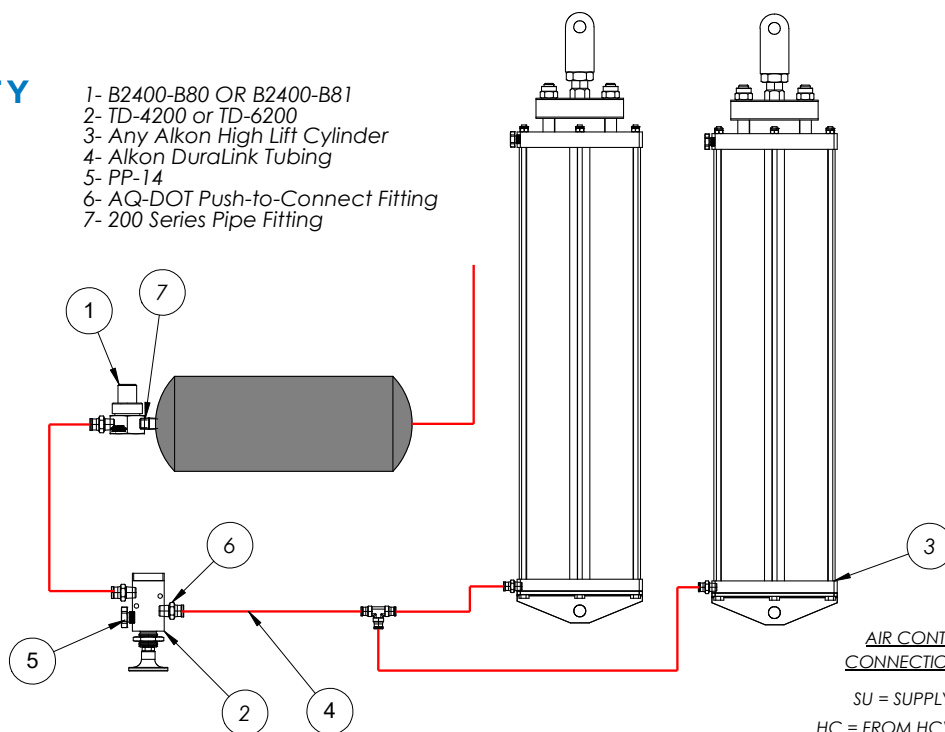
REGULATED SOLENOID VALVE LIFT AXLE AIR CIRCUIT



HIGH LIFT CIRCUITS

HIGH LIFT CIRCUIT PUSH PULL GRAVITY

- 1- B2400-B80 OR B2400-B81
- 2- TD-4200 or TD-6200
- 3- Any Alkon High Lift Cylinder
- 4- Alkon DuraLink Tubing
- 5- PP-14
- 6- AQ-DOT Push-to-Connect Fitting
- 7- 200 Series Pipe Fitting

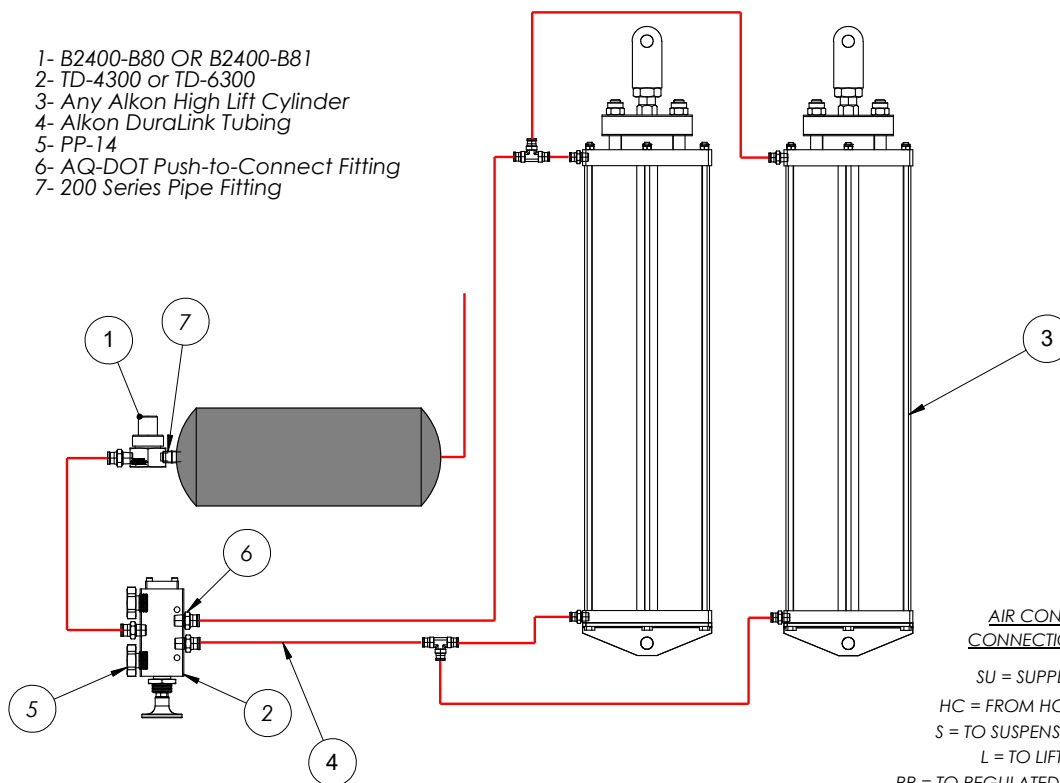


AIR CONTROL CONNECTION KEY

- SU = SUPPLY (RED)
- HC = FROM HCV (YELLOW)
- S = TO SUSPENSION (GREEN)
- L = TO LIFT (BLUE)
- RR = TO REGULATED LOAD (ORANGE)

HIGH LIFT PUSH PULL CIRCUIT

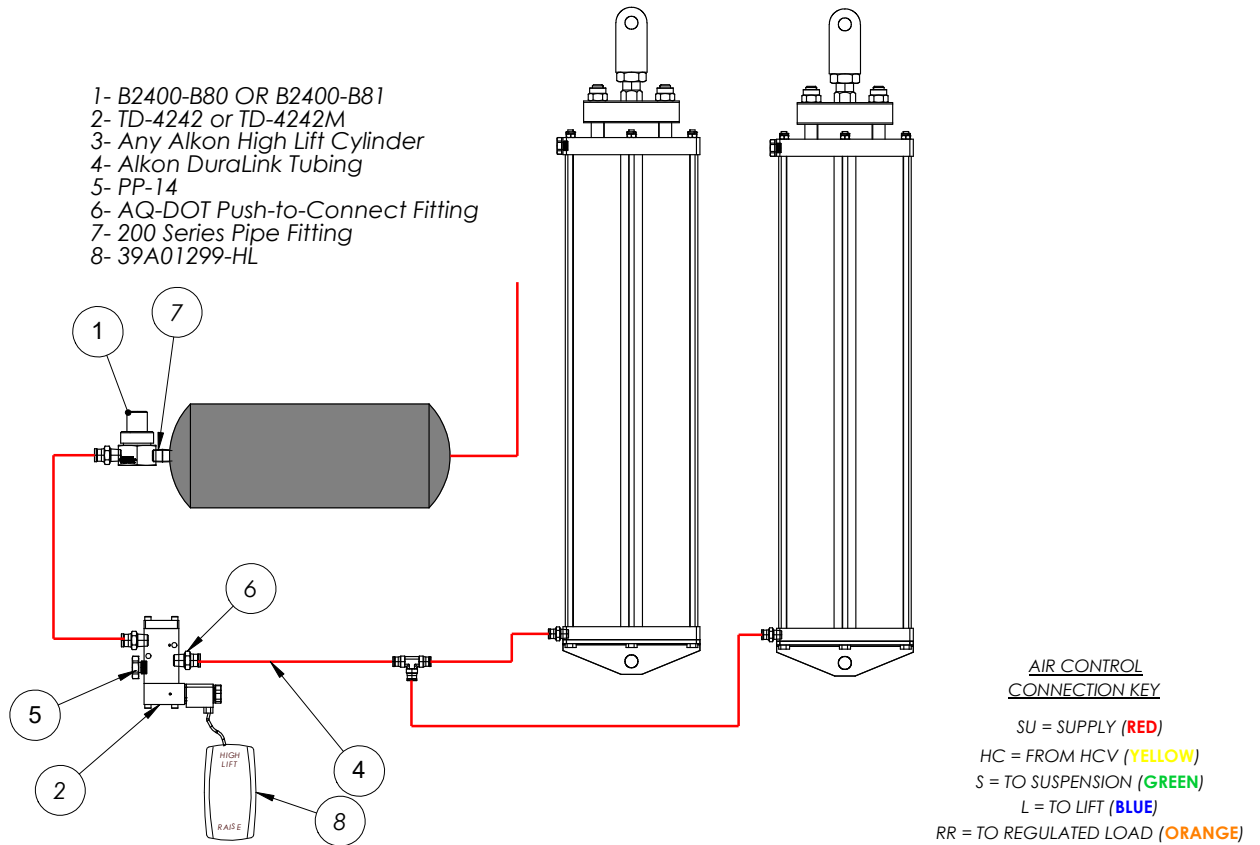
- 1- B2400-B80 OR B2400-B81
- 2- TD-4300 or TD-6300
- 3- Any Alkon High Lift Cylinder
- 4- Alkon DuraLink Tubing
- 5- PP-14
- 6- AQ-DOT Push-to-Connect Fitting
- 7- 200 Series Pipe Fitting



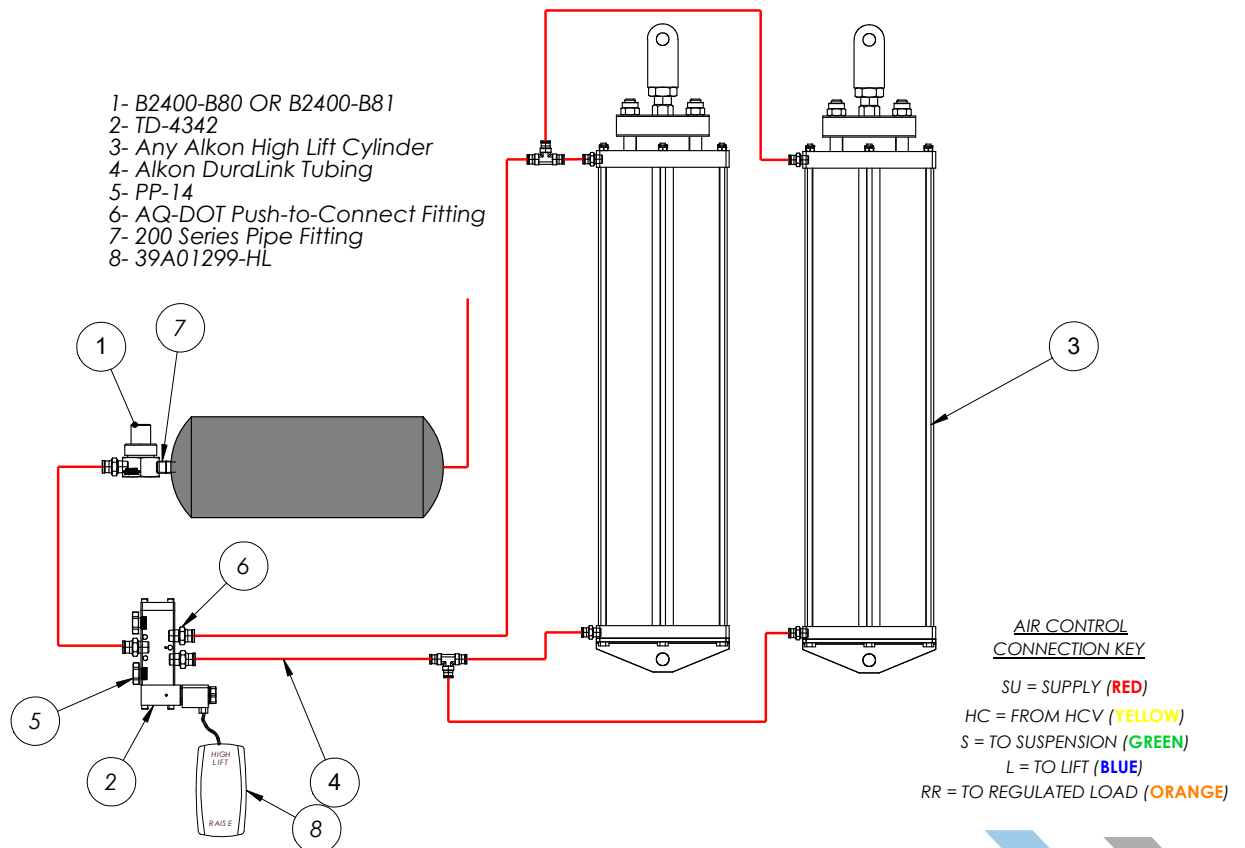
AIR CONTROL CONNECTION KEY

- SU = SUPPLY (RED)
- HC = FROM HCV (YELLOW)
- S = TO SUSPENSION (GREEN)
- L = TO LIFT (BLUE)
- RR = TO REGULATED LOAD (ORANGE)

HIGH LIFT VALVE & SWITCH GRAVITY CIRCUIT

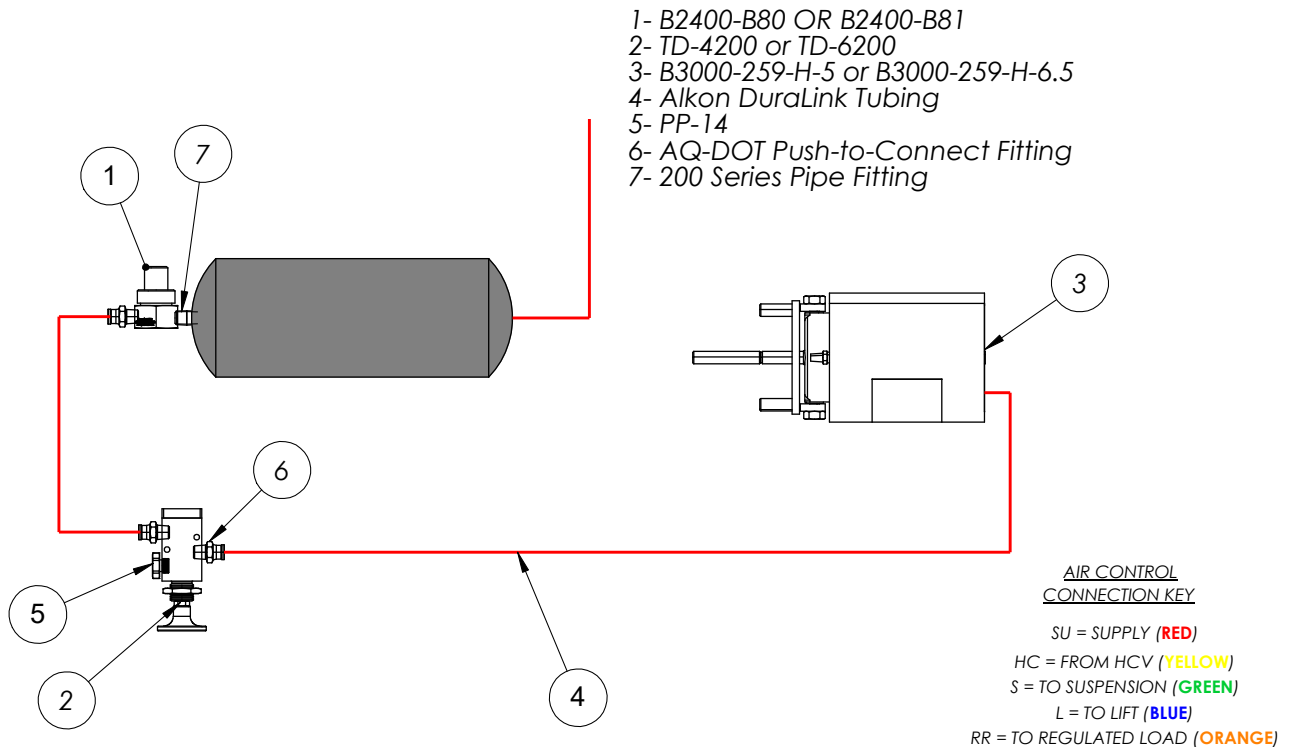


HIGH LIFT VALVE & SWITCH CIRCUIT

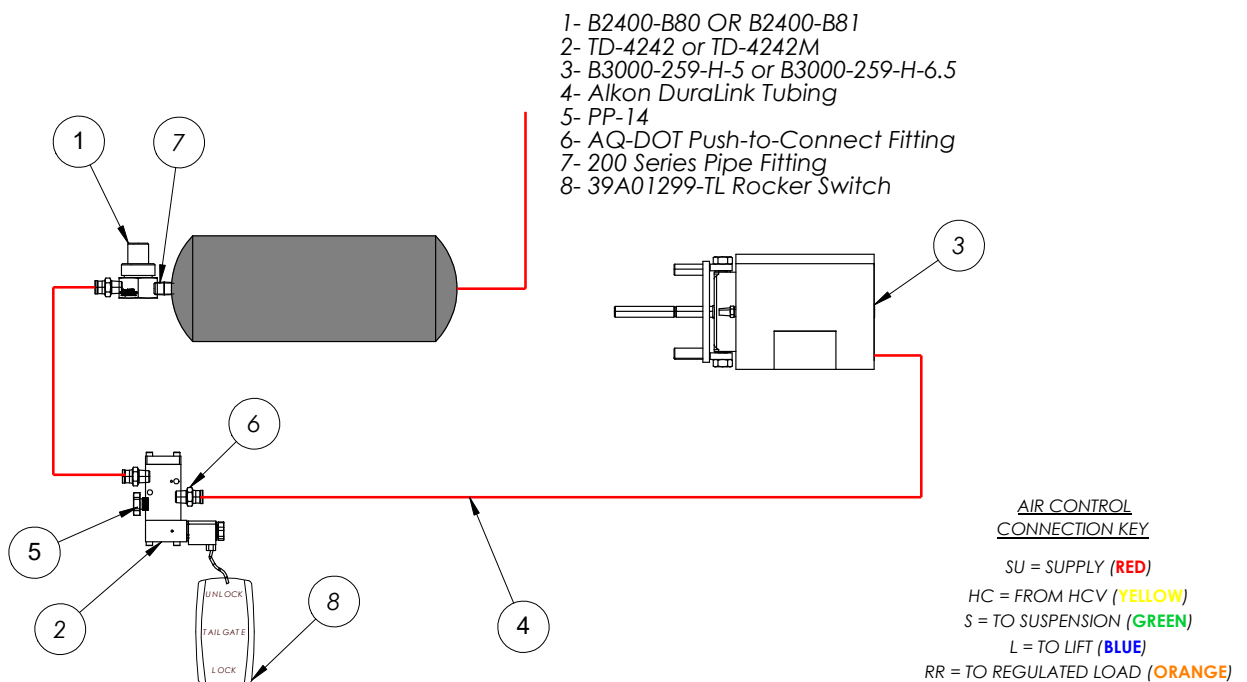


SPRING RETURN TAILGATE LATCH CIRCUITS

TAIL-A-GATOR PUSH PULL LATCH CIRCUIT

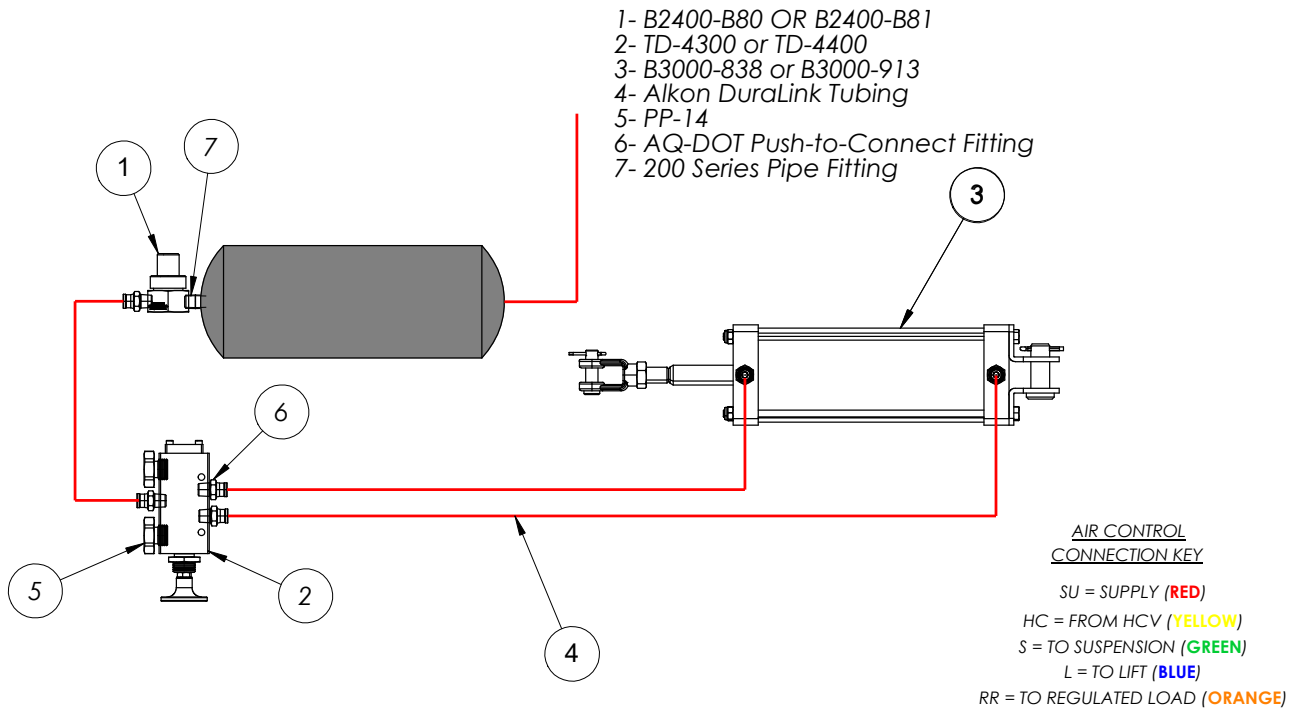


TAIL-A-GATOR VALVE & SWITCH LATCH CIRCUIT

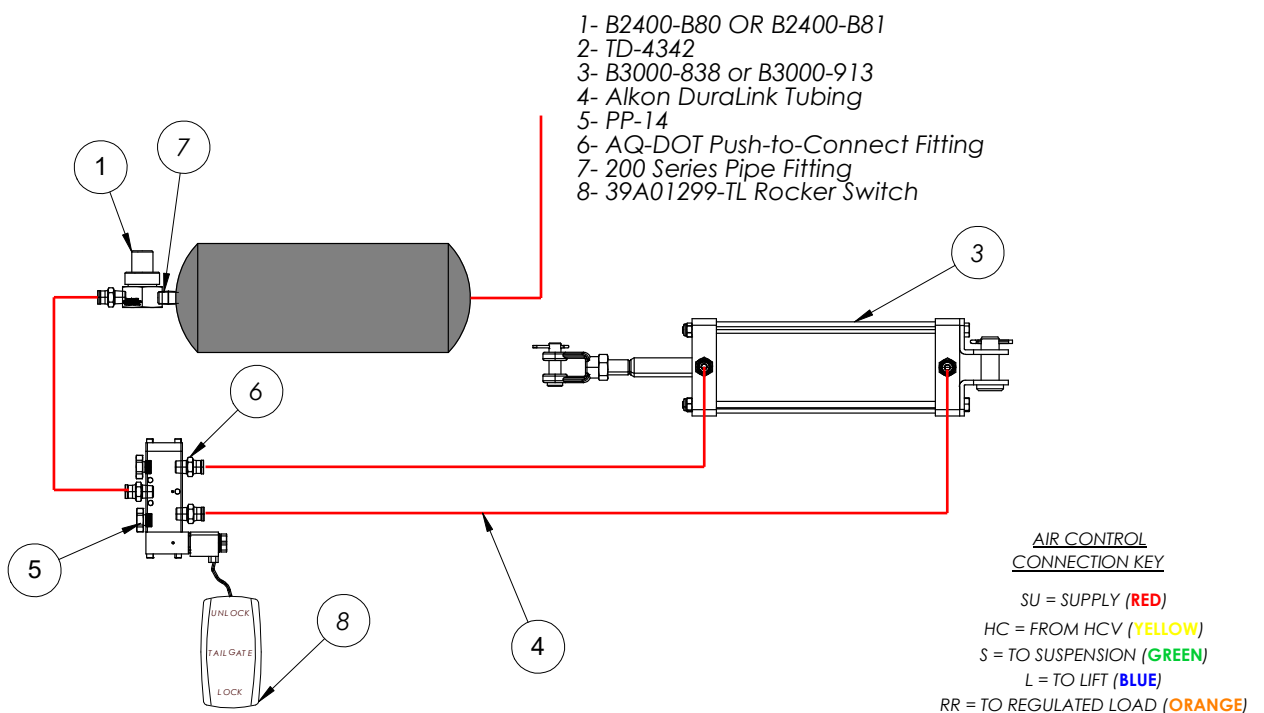


TAILGATE LATCH CIRCUITS

TAILGATE PUSH PULL LATCH CIRCUIT



TAILGATE VALVE & SWITCH LATCH CIRCUIT





Established in 1953 as a pneumatic cylinder company, Alkon has evolved into an industry leader, offering innovative pneumatic solutions for over seven decades.

Today, Alkon operates across the United States and Mexico, with manufacturing facilities in Fremont, OH, Brighton, MI, and Mexico City, MX. As a vertically integrated powerhouse, Alkon prides itself on its North American manufacturing footprint, ensuring available and reliable solutions for customers facing the dynamic challenges of the industrial and mobile markets.

Safety is at the forefront of everything we do. Our relentless commitment to engineering excellence delivers lasting performance across the pneumatic system. Continuous DOT product testing ensures safe and reliable solutions that give drivers peace of mind as they travel, both on and off the road.



Alkon is more than a supplier; we are a partner that is committed to your success. Let our team understand your needs and provide you with the pneumatic solutions that you can rely on to propel your company forward.