



AirBOSS® **Mobile Pneumatic Cylinders**

Reliable Actuation for Demanding Applications



Maximize Uptime

Designed for long service life, reducing downtime and keeping vehicles in operation.

Robust Construction

Withstands road salts, moisture, and contaminants while minimizing air loss to maintain performance over time.

Flexible Configurations

Support a wide range of applications with single-acting, double-acting, and integrated valve/cylinder designs.

Performance You Can Rely On

Alkon AirBOSS® mobile pneumatic cylinders are built for on-road and off-road equipment exposed to harsh environments and extreme temperatures. In high-lift, belly dump, tailgate lock, and tailgate lift applications, they continue to function despite moisture, airline condensation, and temperature variation.

Temperature-rated seals and Teflon-impregnated silicone grease help protect internal components from degradation over time.

Full System Compatibility

Managing multiple suppliers can create inconsistencies in system assembly and the supply chain. Alkon brings AirBOSS® mobile pneumatic cylinders and valves together with DuraLink™ DOT fittings and tubing to deliver a cohesive system solution backed by one trusted partner.

DESIGN SPECIFICATIONS

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

Cap Material
Aluminum

Tube Material
Aluminum or Composite

CYLINDER TYPES



Tailgate Latch Cylinders

Suited for fast, stable tailgate locking and release in applications requiring reliable latch performance



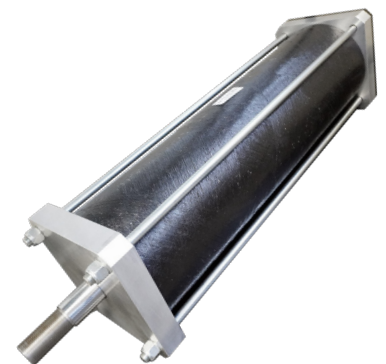
High Lift Cylinders

Ideal for dumping applications requiring increased tailgate clearance, allowing large or heavy material to unload smoothly



Spring Return Tailgate Latch Cylinders

Engineered for automatic return after actuation, helping simplify latch reset and positioning



Belly Dump Cylinders

Designed to open and control bottom gates for quick, precise unloading and spreading of bulk materials

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 ¹	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 ²	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 ¹	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 ³	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 ⁴	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 ⁵	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 ⁵	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 ⁶	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 ⁵	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

¹ No rod clevis or pins, 5/8-18 rod thread

² Act travel is 5.1"

³ No rod clevis, 3/4-16 rod thread

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

⁵ Valve on head

⁶ 1/2" rod clevis pin and 3/8" rear clevis pin

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 ⁷	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 ⁸	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 ⁹	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 ¹⁰	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 ¹¹	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 ¹²	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

*All cylinder dimensions are in inches

⁷ Dual 3.5" bore cylinders

⁸ Rod clevis has 2" mounting bracket clearance

⁹ Rod clevis has 3.5" mounting bracket clearance

¹⁰ Includes flow control in rear port

¹¹ Includes flow control in rear port and breather in rod port

¹² Includes muffler on rod port

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

BELLY DUMP CYLINDERS

Part Number	Description	Type	Bore	Stroke	Retracted Length	Extended Length	Port Size (NPT)	Port Orientation	Clevis Pin Dia.	Rod Dia.	APSCO Cross Reference
B3000-885	TRB 6 X 20 C COMP	Tie Rod	6.00	20.00	34.50	54.50	1/2"	In Line	1.25	1.25	C-9620-C-PK
B3000-890	TRB 8 X 17 C1 COMP	Tie Rod	8.00	17.00	31.40	48.40	1/2"	In Line	1	1.25	C-9817-C-PK-1
B3000-840 ¹	TRB 8 X 26 C1	Tie Rod	8.00	26.00	40.17	66.17	1/2"	In Line	1	1.57	C-9802-PK
B3000-881	TRB 8 X 30 C1 COMP	Tie Rod	8.00	30.00	40.00	70.00	1/2"	In Line	1	1.25	C-9830-C-PK-1
B3000-864	TRB 8 X 36 C1 COMP	Tie Rod	8.00	36.00	50.00	86.00	1/2"	In Line	1	1.25	C-9876-C-PK-1

¹ B3000-840 has an aluminum tube; B3000-877 for composite

CLEVIS KITS

Part Number	Clearance	Clevis Width	Clevis Pin Diameter	Rod Thread
K1100-282	1.24	0.56	0.50	5/8" - 18
K1100-284	3.68	0.67	0.61	5/8" - 18
K1100-286	3.68	0.67	0.50	5/8" - 18

*All cylinder dimensions are in inches

For part number stocking status, visit alkoncorp.com/mobile-cylinder-stocking-status/