

## TRAILER CONTROL SYSTEMS

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## Height Control Valves

Trailer air suspension systems require precise air flow management. Using an Advanced Shear-Seal® design to ensure accurate air flow, Hendrickson Height Control Valves (HCV) deliver superior performance and durability.

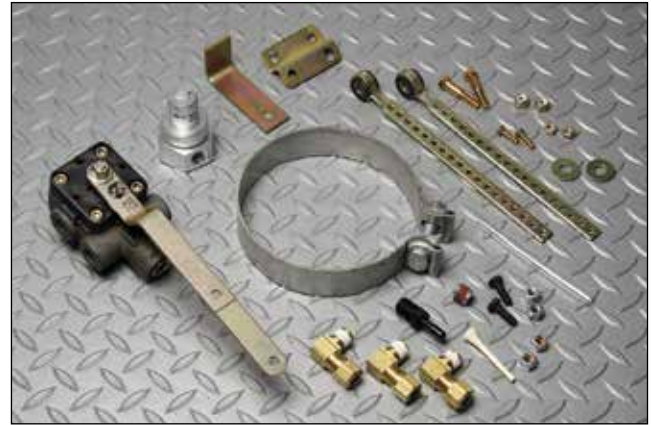
- ◆ Precise, highly repeatable dead band
- ◆ High air flow and a proportional response
- ◆ Prolongs air spring and shock absorber life
- ◆ Specifically designed and tested for optimum performance with Hendrickson air suspensions

### Height Control Valves — Drum Brake

Product Family	Suspension Model	Axle Diameter	Dump Feature		No PPV	No 90-degree Brass Fittings	Part Number
			Without	With			
INTRAAX®	AANT 23K	5 inch / 5.75 inch LDA™	X				AKH0270-3
			X		X		AKH0270B-3
				X			AKHD0270-3
				X	X		AKHD0270B-3
				X		X	AKHD0270F-3
	AAT 23K AAT 25K AAT 30K	5 inch / 5.75 inch LDA	X				AKH-238-3
			X		X		AKH-238B-3
				X			AKHD-238-3
				X		X	AKHD-238F-3
	AAEDT 30K	5 inch	X				AKH-235-3
			X		X		AKH-235B-3
				X			AKHD-235-3
	AANLS 20K	5 inch	X				AKH0275-3
				X			AKHD0275-3
	AANL 23K	5.75 inch LDA	X				AKH0292-3
			X		X		AKH0292B-3
				X			AKHD0292-3
				X		X	AKHD0292F-3
	AAL 23K AAL 25K AAL 30K AAEDL 30K	5 inch	X				AKH-235-3
			X		X		AKH-235B-3
				X			AKHD-235-3
	AAL 23K AAL 25K AAL 30K	5.75 inch LDA	X				AKH0306-3
			X		X		AKH0306B-3
				X			AKHD0306-3
			X		X	AKHD0306F-3	
CONNEX™	CXU 23K CXU 25K	5 inch	X				AKH-236-3
			X		X		AKH-236B-3
				X			AKHD-236-3
				X		X	AKHD-236F-3
HT™ Series	HT190T / HT190U HT230 HT250T / HT250U HT300T / HT300U HTHCR	5 inch	X				AKH-134-3
			X		X		AKH-134B-3
				X			AKHD-195-3
			X		X		AKH-179-2
	HT250US HT300US	5 inch	X				AKH-236-3
			X		X		AKH-236B-3
			X			X	AKH-236F-3
				X			AKHD-236-3
	X		X	AKHD-236F-3			
T Series	All Models	5 inch	X				AKH-239-3
				X			AKHD-239-3



**AKH-181-3**



**AKHD-235-3**

Product Family	Suspension Model	Axle Diameter	Dump Feature		No PPV	No 90-degree Brass Fittings	Part Number
			Without	With			
<b>VANTRAAX®</b>	HKANT 23K HKANT 40K HKANT 46K HKAT 50K HKAT 69K23 HKAT 69K25 HKANT 69K23	5 inch / 5.75 inch LDA™	X				AKH-181-3
				X			AKHD-203-3
	HKAL 46K HKARL 46K	5 inch	X				AKH-235-3
			X		X		AKH-235B-3
				X			AKHD-235-3
	HKANL 23K HKAL 46K HKARL 46K	5.75 inch LDA	X				AKH0306-3
			X		X		AKH0306B-3
				X			AKHD0306-3
				X		X	AKHD0306F-3
	<b>HK™ Series</b>	HK190 HK230	5 inch	X			
				X			AKHD-205-3
<b>INTRAAX®-SP</b>	AAZNT 23K AAZNT 46K AAZNT 69K	5 inch / 5.75 inch LDA	X				AKH0270-3
			X		X		AKH0270B-3
				X			AKHD0270-3
				X	X		AKHD0270B-3
				X		X	AKHD0270F-3
	AAZL 23K AAZL 46K	5 inch	X				AKH-235-3
			X		X		AKH-235B-3
				X			AKHD-235-3
	AAZL 23K AAZL 46K	5.75 inch LDA	X				AKH0306-3
			X		X		AKH0306B-3
				X			AKHD0306-3
				X		X	AKHD0306F-3

Kits listed include height control valve, mounting brackets, 3/8-inch tube fittings and bolted link assembly.

## Bulk Height Control Valves — Drum Brake

Suspension Model	Kit Description	Part Number
AAL, AAEDL, AAEDT, CXU, HT250US, HT300US, HKAL, AAZL	Height Control Valve, Bulk 50 (includes A-24508 long arm)	AKH0249 <sup>1</sup>
AANT, AAT, AANL, AANLS, HT, HKANT, HKAT, HK, HTHKR, HKARL, HS, AAZNT	Height Control Valve, Bulk 50 (includes A-24642 short arm)	AKH0250
AAL, AAEDL, AAEDT, CXU, HT250US, HT300US, HKAL, AAZL	Integral Dump Height Control Valve, Bulk 35 (includes A-29391 long arm)	AKHD0249
AANT, AAT, AANL, AANLS, HT, HKANT, HKAT, HK, HTHKR, HKARL, HS, AAZNT	Integral Dump Height Control Valve, Bulk 35 (includes A-29393 short arm)	AKHD0250

<sup>1</sup> The long arm HCV can be used on short arm HCV applications. However, the installer must remove the end of the arm and use the bolt hole in the arm that is closest to the valve body.

## Height Control Valve Hardware Kits — Drum Brake

Suspension Model	Axle Diameter	Fasteners	Mounting Brackets	Fittings	Bolted Link Assembly	Part Number
AAT	5 inch / 5.75 inch LDA™	X	X	X	X	AKH0252
		X	X		X	AKH0252F
		X	X			AKH0252-1
AAL, AAEDL, AAEDT, HKAL, HKARL, AAZL	5 inch	X	X	X	X	AKH0253
		X	X			AKH0253-1
AAL, HKAL, HKARL, AAZL	5.75 inch LDA	X	X	X	X	AKH0309
		X	X			AKH0309-1
HKANT, HKAT	5 inch / 5.75 inch LDA	X	X	X	X	AKH0256
		X	X			AKH0256-1
AANT, AAZNT	5 inch / 5.75 inch LDA	X	X	X	X	AKH0262
		X	X			AKH0262-1
AANL	5.75 inch LDA	X	X	X	X	AKH0289
		X	X			AKH0289-1
AANLS	5 inch	X	X	X	X	AKH0290
		X	X			AKH0290-1

## Specialty Height Control Valves — Drum and Disc Brake

Product Family	Suspension Model	Brake Type	Dump Feature		No PPV	No 90-degree Brass Fittings	Kit Description	Part Number
			Without	With				
INTRAAX®	AAT at 14 inch RH	Drum	X		X		Tube fittings not included; supplied with fixed bolt link	AKH-244B
	AANLS 20K	Drum	X				Includes a U-bolt for mounting the HCV	AKH0266-3
			X		X			AKH0266B-3
				X				AKHD0266-3
		Disc	X		X	X		AKH0311-3
				X				AKHD0311-3
			X	X	X	X		AKHD0311B-3
HT™ Series	HT250US/HT300US at 6.5 inch RH	Drum	X		X			Tube fittings not included; supplied with fixed bolt link
VANTRAAX®	HRRNT 40K	Drum	X				Tube fittings not included	AKH0261
INTRAAX®-SP	AAZL (5 inch)	Drum	X				Includes a valve to raise the trailer for slider positioning	AKH0267-3
			X		X			AKH0267B-3
	AAZL (5.75 inch LDA)	Drum	X					AKH0310-3

**Height Control Valves — Disc Brake**

Product Family	Suspension Model	Axle Diameter	Dump Feature		No PPV	No 90-degree Brass Fittings	Part Number
			Without	With			
<b>INTRAAX®</b>	AANLS 20K	5 inch	X				AKH0312-3
				X			AKHD0312-3
	AANT 23K	5 inch	X				AKH0281-3
				X			AKHD0281-3
	AANT 23K AANL 23K	5.75 inch LDA™	X				AKH0282-3
			X		X		AKH0282B-3
			X			X	AKH0282F-3
				X			AKHD0282-3
				X	X		AKHD0282B-3
				X		X	AKHD0282F-3
	AAT 23K AAT 25K AAT 30K AAL 23K AAL 25K AAL 30K AAEDL 30K AAEDT 30K	5 inch	X				AKH-235-3
			X		X		AKH-235B-3
				X			AKHD-235-3
	AAL 23K AAL 25K AAL 30K	5.75 inch LDA	X				AKH0306-3
			X		X		AKH0306B-3
				X			AKHD0306-3
				X		X	AKHD0306F-3
	AAT 23K AAT 25K AAT 30K	5.75 inch LDA	X				AKH0288-3
			X		X		AKH0288B-3
				X			AKHD0288-3
			X	X		AKHD0288B-3	
<b>VANTRAAX®</b>	HKAT 50K HKAT 69K25	5 inch	X				AKH0283-3
				X			AKHD0283-3
	HKANT 23K HKANT 40K HKANT 46K HKAT 50K HKANT 69K23	5.75 inch LDA	X				AKH0284-3
				X			AKHD0284-3
	HKARL 46K	5.75 inch LDA	X				AKH0306-3
			X		X		AKH0306B-3
				X			AKHD0306-3
				X		X	AKHD0306F-3
<b>INTRAAX®-SP</b>	AANLS 20K	5 inch	X				AKH0281-3
				X			AKHD0281-3
	AAZNT 23K AAZNT 46K AAZNT 69K	5.75 inch LDA	X				AKH0282-3
			X		X		AKH0282B-3
			X			X	AKH0282F-3
				X			AKHD0282-3
				X	X		AKHD0282B-3
				X		X	AKHD0282F-3

Kits listed include height control valve, mounting brackets, 3/8-inch tube fittings and bolted link assembly.

## Aftermarket

Description	Suspension Model	Ride Height	Dump Feature		Fitting Style	Part Number
			Without	With		
Replacement Height Control Valve	INTRAAX® CONNEX™ HT™ Series T Series VANTRAAX® HK™ Series INTRAAX®-SP	All	X		N/A	VS-227 <sup>1</sup>
				X	N/A	VS-228 <sup>1</sup>
	ULTRAA-K®	16"	X		N/A	VS-33704-3 <sup>2</sup>
				X	N/A	VS-33705-3 <sup>2</sup>
Replacement DST® Valve (Height Control Differential Dump Valve)	VANTRAAX®	All		X	N/A	VS-27116 <sup>1</sup>
	ULTRAA-K®	16"		X	Compression	VS-33703-3 <sup>2</sup>
					PTC	VS-33703-4 <sup>2</sup>

<sup>1</sup> Kits listed do not include fittings, pressure protection valve or link assembly.

<sup>2</sup> Kits listed include fittings. They do not include pressure protection valve or link assembly.



**VS-227**



**VS-228**

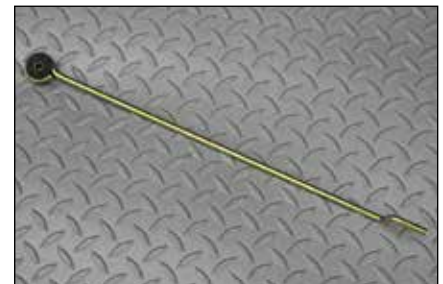
Description	Suspension Model	Ride Height	HCV Model	Part Number
Pressure Protection Valve	All	N/A	N/A	VS-1128
Bolted Link Assembly	INTRAAX® CONNEX™ HT™ Series T Series VANTRAAX® HK™ Series INTRAAX®-SP	All	VS-227 and VS-228	S-14187
Fixed Link Assembly	ULTRAA-K®	16"	VS-33703-3, VS-33704-3 and VS-33705-3	VS-33702-1



**VS-1128**



**S-14187**

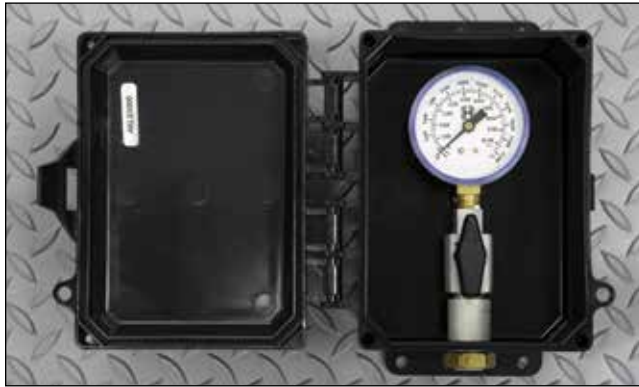


**VS-33702-1**

## Load Scales

Hendrickson Load Scale kits provide an easy solution to quickly determine the approximate suspension load. Each contains a gauge that measures air pressure and a method for converting pressure to suspension load. Depending on the load scale model, the gauge provides a reading of suspension weight or a reading of air spring pressure with a conversion table.

- ◆ Compact enclosure size and external mounting tabs provided for convenient installation
- ◆ Integrated valve body reduces fittings and potential leak points
- ◆ Anodized aluminum valve body for light weight and high corrosion resistance
- ◆ Teflon seals ensure a wide operating temperature range and high chemical resistance
- ◆ Polycarbonate enclosure for cold impact resistance includes molded-in hinge and latch



**AKLS1005**



**AKLS1006**

## Load Scale Decals — Liquid Filled Gauges

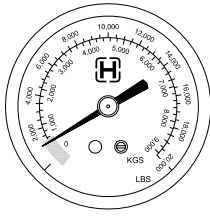
Product Family	Suspension Model	Part Number
<b>INTRAAX®</b>	AANLS 20K	L912
	AAL, AAT, AANL, AANT 23K (Low Pressure Air Spring)	L912
	AAL, AAT, AANL, AANT 23K	L911
	AAEDL, AAEDT 30K	L927
	AAL, AAT 25K	L912
	AAL, AAT 30K	L913
<b>INTRAAX®-SP</b>	AAZNT, AAZL 23K	L911
	AAZNT, AAZL 46K	
	AAZNT 69K	
<b>HT™ Series</b>	HT190	L905
	HT190U	L903
	HT230	L914
	HT250T	L904
	HT250U at 9-inch Ride Height (Air Spring C-13122)	T90001
	HT250U at 15-inch Ride Height (Air Spring C-13122)	T90002
	HT250U, HT250US (Air Spring C-20124)	L904
	HT250U, HT250US (Air Spring C-20127)	L906
	HT300	L909
	HT300U	L908
	HT300US	T90004

Product Family	Suspension Model	Part Number
<b>CONNEX™</b>	CXU 23K	T90006
	CXU 25K	T90007
<b>VANTRAAX®</b>	HKANT 23K, 46K, 69K23	L911
	HKANT 40K	L1045 <sup>1</sup>
		L911 <sup>2</sup>
	HKANT 40K with ZMD®	T90003
	HKAT 50K, 69K25	L912
	HKANL 23K	L911
HKAL, HKARL 46K	L911	
<b>ULTRAA-K®</b>	UTKNT 40K	T90003
<b>HK™ Series</b>	HK190T	L907
	HK230T	L910
	HTHKR	L910

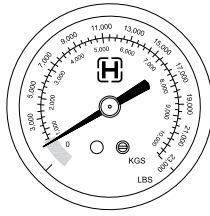
<sup>1</sup> For HKANT 40K built in 2008 or later.

<sup>2</sup> For HKANT 40K built prior to 2008 or HKANT 40K with SMARTLIFT® option.

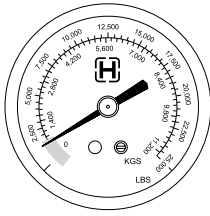
**NOTE:** The load scale decal is not included with the load scale kit. Determine the appropriate load scale kit for the suspension model specified and order the corresponding decal separately.



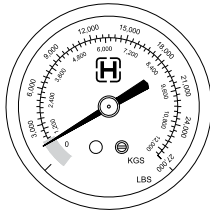
**A**



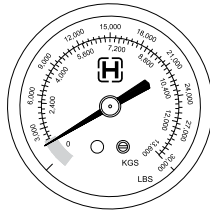
**B**



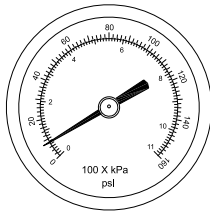
**C**



**D**



**E**



**F**

## Load Scales — Polycarbonate Box

Product Family	Suspension Model	Gauge Type	Gauge Range	Gauge Face	Part Number	
					Without Dump (AKLS1005)	With Dump (AKLS1006)
<b>INTRAAX®</b>	AANLS 20K	Dry	0 - 25,000	C	-4	-4
	AAL, AAT, AANL, AANT 23K (Standard Air Spring)	Dry	0 - 23,000	B	-3	-3
	AAL, AAT, AANL, AANT 23K (Low Pressure Air Spring)	Dry	0 - 25,000	C	-4	-4
	AAL 25K, AAT 25K	Dry	0 - 25,000	C	-4	-4
	AAL 30K, AAT 30K	Dry	0 - 30,000	E	-6	-6
	AAEDL 30K, AAEDT 30K	Dry	0 - 30,000	E	-6	-6
<b>INTRAAX®-SP</b>	AAZNT 23K, AAZNT 46K, AAZNT 69K	Dry	0 - 23,000	B	-3	-3
	AAZL 23K, AAZL 46K	Dry	0 - 23,000	B	-3	-3
<b>HK™ Series</b>	HK190T	Dry	0 - 23,000	B	-3	-3
	HK230T	Dry	0 - 23,000	B	-3	-3
<b>VANTRAAX®</b>	HKANT 23K, HKANT 46K	Dry	0 - 23,000	B	-3	-3
	HKANT 40K	Dry	0 - 20,000	A	-2	-2
	HKAT 50K, HKAT 69K25	Dry	0 - 25,000	C	-4	-4
	HKANT 69K23	Dry	0 - 23,000	B	-3	-3
	HKAT 69K23	Dry	0 - 23,000	B	-3	-3
	HKARL 46K	Dry	0 - 23,000	B	-3	-3
	HKANL 23K	Dry	0 - 23,000	B	-3	-3
	HKAL 46K	Dry	0 - 23,000	B	-3	-3
<b>ULTRAA-K®</b>	UTKNT 40K	Dry	0 - 20,000	A	-2	-2
<b>CONNEX™</b>	CXU 23K	Dry	0 - 23,000	B	-3	-3
	CXU 25K	Dry	0 - 25,000	C	-4	-4
<b>HT™ Series</b>	HTHKR	Dry	0 - 23,000	B	-3	-3
	HT190	Dry	0 - 20,000	A	-2	-2
	HT190U	Dry	0 - 23,000	B	-3	-3
	HT230	Dry	0 - 23,000	B	-3	-3
	HT250T	Dry	0 - 25,000	C	-4	-4
	HT250U (Air Spring C-2 0124)	Dry	0 - 25,000	C	-4	-4
	HT250U (Air Spring C-20127)	Dry	0 - 30,000	E	-6	-6
	HT250U (Air Spring C-13122, 9 inch Ride Height)	Dry	0 - 30,000	E	-6	-6
	HT250U (Air Spring C-13122, 15 inch Ride Height)	Dry	0 - 27,000	D	-5	-5
	HT250US (Air Spring C-20124)	Dry	0 - 25,000	C	-4	-4
	HT250US (Air Spring C-20127)	Dry	0 - 30,000	E	-6	-6
	HT300	Dry	0 - 30,000	E	-6	-6
	HT300U	Dry	0 - 30,000	E	-6	-6
HT300US	Dry	0 - 30,000	E	-6	-6	
<b>T Series</b>	T-6-068	Dry	0 - 25,000	C	-4	-4
	T-6-252	Dry	0 - 27,000	D	-5	-5
	T-RL	Dry	0 - 30,000	E	-6	-6
<b>All</b>	All Models	Liquid	0 - 160 psi	F	-1	-1

## Load Scales — Stainless Steel Box

Product Family	Suspension Model	Gauge Type	Gauge Range	Gauge Face	Part Number	
					Without Dump (AKLS2005)	With Dump (AKLS2006)
<b>INTRAAX®</b>	AANLS 20K	Dry	0 - 25,000	C	-4	-4
	AAL, AAT, AANL, AANT 23K (Standard Air Spring)	Dry	0 - 23,000	B	-3	-3
	AAL, AAT, AANL, AANT 23K (Low Pressure Air Spring)	Dry	0 - 25,000	C	-4	-4
	AAL 25K, AAT 25K	Dry	0 - 25,000	C	-4	-4
	AAL 30K, AAT 30K	Dry	0 - 30,000	E	-6	-6
	AAEDL 30K, AAEDT 30K	Dry	0 - 30,000	E	-6	-6
<b>INTRAAX®-SP</b>	AAZNT 23K, AAZNT 46K, AAZNT 69K	Dry	0 - 23,000	B	-3	-3
	AAZL 23K, AAZL 46K	Dry	0 - 23,000	B	-3	-3
<b>HK™ Series</b>	HK190T	Dry	0 - 23,000	B	-3	-3
	HK230T	Dry	0 - 23,000	B	-3	-3
<b>VANTRAAX®</b>	HKANT 23K, HKANT 46K	Dry	0 - 23,000	B	-3	-3
	HKANT 40K	Dry	0 - 20,000	A	-2	-2
	HKAT 50K, HKAT 69K25	Dry	0 - 25,000	C	-4	-4
	HKANT 69K23, HKAT 69K23	Dry	0 - 23,000	B	-3	-3
	HKARL 46K	Dry	0 - 23,000	B	-3	-3
	HKANL 23K	Dry	0 - 23,000	B	-3	-3
	HKAL 46K	Dry	0 - 23,000	B	-3	-3
<b>ULTRAA-K®</b>	UTKNT 40K	Dry	0 - 20,000	A	-2	-2
<b>CONNEX™</b>	CXU 23K	Dry	0 - 23,000	B	-3	-3
	CXU 25K	Dry	0 - 25,000	C	-4	-4
<b>HT™ Series</b>	HTHKR	Dry	0 - 23,000	B	-3	-3
	HT190	Dry	0 - 20,000	A	-2	-2
	HT190U	Dry	0 - 23,000	B	-3	-3
	HT230	Dry	0 - 23,000	B	-3	-3
	HT250T	Dry	0 - 25,000	C	-4	-4
	HT250U (Air Spring C-20124)	Dry	0 - 25,000	C	-4	-4
	HT250U (Air Spring C-20127)	Dry	0 - 30,000	E	-6	-6
	HT250U (Air Spring C-13122, 9 inch Ride Height)	Dry	0 - 30,000	E	-6	-6
	HT250U (Air Spring C-13122, 15 inch Ride Height)	Dry	0 - 27,000	D	-5	-5
	HT250US (Air Spring C-20124)	Dry	0 - 25,000	C	-4	-4
	HT250US (Air Spring C-20127)	Dry	0 - 30,000	E	-6	-6
	HT300	Dry	0 - 30,000	E	-6	-6
	HT300U	Dry	0 - 30,000	E	-6	-6
HT300US	Dry	0 - 30,000	E	-6	-6	
<b>T Series</b>	T-6-068	Dry	0 - 25,000	C	-4	-4
	T-6-252	Dry	0 - 27,000	D	-5	-5
	T-RL	Dry	0 - 30,000	E	-6	-6
<b>All</b>	All Models	Liquid	0 - 160 psi	F	-1	-1

## Aftermarket

Description	Load Scale Model	Part Number
Replacement Polycarbonate Enclosure	AKLS1005	VS-31845-3
Replacement Polycarbonate Enclosure	AKLS1006	VS-31845-2
Replacement Stainless Steel Enclosure	AKLS2005, AKLS2006	VS-32312
Replacement Liquid-Filled Gauge	All -1 Models with Liquid Gauge	VS-24120
Replacement Dry Gauge	All -2 Models with Dry Gauge	VS-22534-1
	All -3 Models with Dry Gauge	VS-22534-2
	All -4 Models with Dry Gauge	VS-22534-3
	All -5 Models with Dry Gauge	VS-22534-4
	All -6 Models with Dry Gauge	VS-22534-5

# Lift Axle Controls

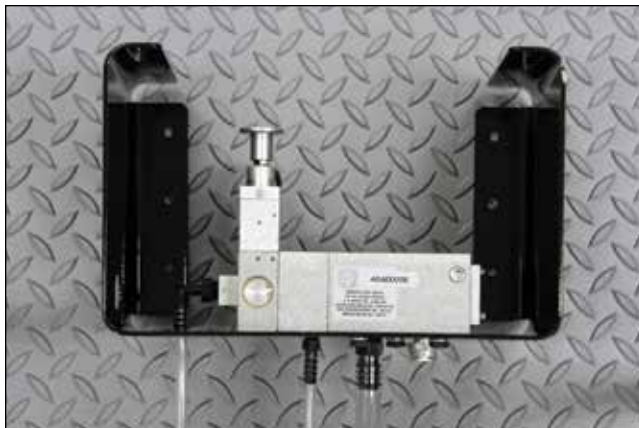
## Electric / Manual Lift Controls

Specify Hendrickson's popular line of electric/manual lift axle controls to simplify trailer plumbing. The compact design incorporates an electric solenoid, manual operator, lift bag valve and ride bag valve into one integrated body. For regulated versions, the regulator and gauge are incorporated into the main valve body to eliminate the need for external plumbing and fittings.

- ◆ Modular, high flow design is available in regulated and equalizing versions
- ◆ Designed to survive harsh trailer environment with or without an enclosure
- ◆ Fail mode is field configurable from "normally down" to "normally up"

Mounting Option		Valve Configuration		Brake Isolation		Part Number
Stainless Steel Enclosure	Mounting Bracket	Regulating	Equalizing	Without	With	
	X		X	X		AKAD0008-1
	X		X		X	AKAD0008-2 <sup>1</sup>
	X	X		X		AKAD0009-1
	X	X			X	AKAD0009-2 <sup>1</sup>
X			X	X		AKAD2010-1
X			X		X	AKAD2010-2 <sup>1</sup>
X		X		X		AKAD2011-1
X		X			X	AKAD2011-2 <sup>1</sup>

<sup>1</sup> The brake isolation feature requires a brake relay (not available from Hendrickson). When plumbed, the brake relay controls the pressure to the liftable suspension brakes independently of the primary suspension brakes.



**AKAD0008**



**AKAD2011**

## Aftermarket

Description	Lift Axle Model	Part Number
Replacement Mounting Bracket	AKAD0008-1, AKAD0008-2 AKAD0009-1, AKAD0009-2	VS-31531
Replacement Stainless Steel Enclosure	AKAD2010-1, AKAD2010-2 AKAD2011-1, AKAD2011-2	VS-31557

## Reverse Lift Axle Control

- ◆ For use with liftable/steerable trailer axles
- ◆ Moving in reverse 3 feet automatically keys lifting of axle
- ◆ Moving forward 80 feet automatically triggers lowering of axle
- ◆ To be used in conjunction with electro-pneumatic lift controls: AKAD0008, AKAD0009, AKAD2010 and AKAD2011

Description	Brake Type	Part Number
Automatic Lift Axle Control Kit	Drum	EKAD0001
	Disc	EKAD0001-1



**EKAD0001**

## Manual Lift Controls

- ◆ Available in regulating and equalizing versions
- ◆ The Dial-A-Ride control utilizes a convenient mounting panel

Description	Valve Configuration	Part Number
Manual Dial-A-Ride	Regulating	VS-1314-C
Manual	Equalizing	AKAM0001



**VS-1314-C**



**AKAM0001**

# Dump Valves

*Hendrickson offers a wide variety of dump valve kits. Dump valves are typically used to exhaust the air from the suspension during loading and unloading. Exhausting the suspension helps prevent trailer walk, provides increased stability and lowers the trailer deck height.*

## Manual Dump Valves

- ◆ Rated for -40° F to 180° F
- ◆ Highly tolerant to contamination and chemicals
- ◆ Anodized aluminum construction for superior corrosion resistance and strength
- ◆ Stainless steel shaft for better wear and corrosion resistance
- ◆ Protected vent prevents contamination from entering the valve

Box Type			Auto Reset		Liquid Gauge		Part Number
None	Polycarbonate	Stainless Steel	Without	With	Without	With	
	X		X		X		AKEM1007-1
	X		X			X	AKEM1007-2
	X			X	X		AKER1004-1
	X			X		X	AKER1004-2
		X	X		X		AKEM2006-1
		X	X			X	AKEM2006-2
		X		X	X		AKER2003-1
		X		X		X	AKER2003-2
X			X	X	X		AKEM0005-1 <sup>1</sup>
X			X	X	X		AKEM0005-2 <sup>1,2</sup> (Includes auto dump)

<sup>1</sup> Can be used as an auto-reset valve by removing the vent protector.

<sup>2</sup> Provides a manual dump control and a remote auto reset dump that is activated by the trailer parking brakes.

## Manual Dump Valves



**AKEM0005-1**



**AKER1004-2**



**AKEM2006-2**



**AKER2003-1**

## Automatic / Specialty Dump Valves

Description	Box Type		Valve Type			Auto Reset		Compatible with SURELOK®		Part Number
	None	Polycarbonate	Manual	Electric	Auto	Without	With	Yes	No	
Ball Valve	X		X			X			X	AK-147-1
Ball Valve		X	X			X			X	AKEM1008
Solenoid Valve	X			X		X			X	AK-53
Auto Dump	X				X		X		X	AK-54
Integral Auto Dump	X				X		X		X	AKHD-XXX <sup>1</sup>

<sup>1</sup> Automatic dump feature is integrated into the height control valve. Reference the Height Control Valve section for specific kit numbers.



**AK-53**



**AK-54**



**AK-147-1**

## Aftermarket

Description	Dump Valve Model	Part Number
Replacement Polycarbonate Enclosure	AKEM1007-1, AKEM1007-2	VS-31335
Replacement Polycarbonate Enclosure	AKER1004-1, AKER1004-2	VS-31325
Replacement Stainless Steel Enclosure	AKEM2006-1, AKEM2006-2 AKER2003-1, AKER2003-2	VS-31320
Replacement Mounting Bracket	AKEM0005-1, AKEM0005-2	VS-30427

## QUIK-DRAW® Pneumatic Pin-Pull Mechanism

Hendrickson's VANTRAAX® and INTRAAX®-SP air suspension slider systems come standard with the QUIK-DRAW pneumatic pin-pull mechanism. Triggered with a simple pull of a knob, it applies continuous pressure until the pins release. Pins automatically reset with the release of the emergency brake. For instances when additional features are required and an enclosure is preferred, a variety of QUIK-DRAW kits are also available.

- ◆ Only completely pneumatic pin-pull mechanism on the market
- ◆ Enhanced driver productivity and satisfaction
- ◆ Tested to meet stringent durability and environmental conditions — operating in temperatures to -40 degrees.

### QUIK-DRAW Valves

Box Type		Auto Reset		Dump Feature		Liquid Gauge		SURELOK® Bypass	Part Number
Polycarbonate	Stainless Steel	Without	With	Without	With	Without	With		
X			X	X		X			AKQD1008
X			X <sup>1</sup>		X	X			AKQD1009 <sup>1</sup>
X			X <sup>1</sup>		X		X		AKQD1010 <sup>1</sup>
X			X <sup>1</sup>		X	X		X	AKQD1011 <sup>1</sup>
	X		X <sup>1</sup>		X	X			AKQD2006 <sup>1</sup>

<sup>1</sup> Auto reset function resets the QUIK-DRAW valve only, not the manual dump.



**AKQD1008**



**AKQD1011**

Aftermarket

Description	Product Family	Part Number
3-way Auto Reset Valve, No Fittings	VANTRAAX®, ULTRAA-K®, INTRAAX®-SP	VS-25223
3-way Auto Reset Valve, Straight Fittings	VANTRAAX, ULTRAA-K, INTRAAX-SP	VS-25224
3-way Auto Reset Valve, Straight and Tee Fittings	VANTRAAX	VS-29866
	ULTRAA-K	VS-34932
Replacement Polycarbonate Enclosure	AKQD1008, AKQD1009, AKQD1010	VS-31845-4
	AKQD1011	VS-31845-6



**VS-25223**



**VS-25224**



**VS-29866**

## SURELOK®

Hendrickson's SURELOK features locking legs that provide maximum engagement with the suspension beam. Designed for the customer who must maintain ride height during loading and unloading, SURELOK automatically engages when the trailer's parking brakes are set. SURELOK is an available option on VANTRAAX® air suspension slider systems or can be purchased separately for use in a variety of other Hendrickson suspensions. For instances when additional features are required and an enclosure is preferred, a variety of SURELOK controls are also available.

- ◆ Maintains ride height during loading/unloading for efficient trailer dock operations
- ◆ Eliminates trailer walk by limiting vertical and horizontal movement

### SURELOK Controls

Polycarbonate Box	Auto Reset		Dump Feature		Liquid Gauge		SURELOK Bypass	Part Number
	Without	With	Without	With	Without	With		
X	X		X		X		X	AKSL1002
X	X			X	X		X	AKSL1003
X		X		X	X		X	AKSL1004
X		X		X		X	X	AKSL1004-1



**AKSL1002**



**AKSL1004-1**

### Aftermarket

Description	SURELOK Model	Part Number
Replacement Polycarbonate Enclosure	AKSL1002	VS-31845-7
	AKSL1003	VS-31845-2
	AKSL1004	VS-31845-8
	AKSL1004-1	VS-31845-9

## Single Axle Dump System

Hendrickson's single axle dump system gives operators an effective solution to improve low speed maneuverability. Under certain conditions, it will allow the operator to exhaust the air from one suspension. The system automatically monitors trailer speed and only activates at speeds less than 10 mph. Requires upgraded ABS valve ECU with applicable software. (Supplied by ABS manufacturer.)

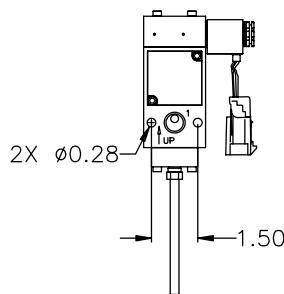
- ◆ Provides fast exhaust without the need for an additional relay valve — dumps in less than 2 seconds
- ◆ Consumes less air than other relay valve systems
- ◆ Utilizes Hendrickson's patented speed-control reset
- ◆ Successfully passed rigorous environmental testing and operates effectively at -40 degrees
- ◆ Effectively exhausts air springs under all loading conditions including lightly loaded trailers with low air spring pressures
- ◆ Hendrickson approved — speed limiting feature maintains Hendrickson's suspension and wheel-end warranty

### Single Axle Dump System

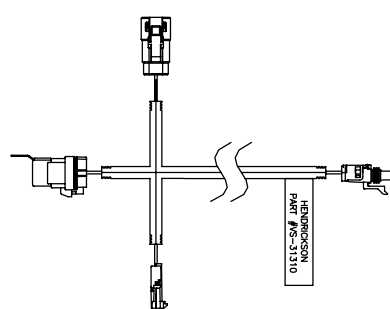


**Single Axle Dump Valve**

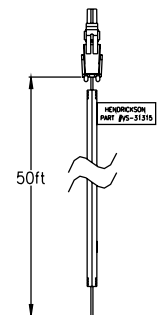
ABS Compatibility	Part Number
Wabco	AKES0001
Bendix	AKES0002
Haldex	AKES0003



**Rear Axle Dump Valve**



**System Harness**



**Actuation Harness**

**NOTE:** Requires application approval from Hendrickson.







*Actual product performance may vary depending upon vehicle configuration, operation, service and other factors.  
 All applications must comply with applicable Hendrickson specifications and must be approved by the respective vehicle manufacturer with the vehicle in its original, as-built configuration.  
 Contact Hendrickson for additional details regarding specifications, applications, capacities, and operation, service and maintenance instructions.*

**Call Hendrickson at 330.489.0045 or 866.RIDEAIR (743.3247) for additional information.**



[www.hendrickson-intl.com](http://www.hendrickson-intl.com)

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