

Transportation

Height control valves

Aftermarket
Replacement
Catalog

Control
every move



GENUINE
Barksdale
CONTROL PRODUCTS

Barksdale
CONTROL PRODUCTS

CRANE Barksdale, Inc./Barksdale GmbH
A Subsidiary of Crane Co.

Barksdale

The Shear-Seal® advantage



In 1992 the industry expectation for commercial vehicle air suspension height control valves was limited. Available HCV designs were based on seals that wore rapidly, requiring frequent replacement. As the seals failed, height control performance deteriorated and air consumption increased. Valve replacement and downtime costs were rising with trucking demand.

Barksdale Controls identified the need for a solution and developed a series of height control valves based on its patented Shear-Seal® technology. Today Barksdale supplies Original Equipment valves to some of the most prestigious commercial vehicle manufacturers in the world. Our success continues to be driven by our ability to combine high value customized solutions with best in class customer support.

Barksdale invented the **Shear-Seal®** principle, and since 1949 has used the technology in our valves with great success in demanding applications such as steel and paper mills, oil exploration and processing, and defense. Utilization of Shear-Seal® technology in air suspension height control valve applications yielded breakthrough improvements in durability and performance. The **Shear-Seal®** principle is based on the sliding of two precisely machined metal sealing surfaces across each other, creating a zero-leak* seal. Contaminants cannot score the seals because flow is through the **Shear-Seal®** rather than across the sealing surface. Precision engineering and manufacturing combine for unmatched performance and reliability.



Bringing zero-leakage, long life **Shear-Seal®** technology to commercial vehicle ride control applications changed the industry and made Barksdale Controls the leader in suspension control technology.

*Less than 4 cc per minute.



Height control valves

ORIGINAL EQUIPMENT QUALITY AND PRECISION FOR
AFTERMARKET CAB AND CHASSIS SUSPENSION APPLICATIONS

General Product Information

- ▶ Direct replacement height control valves for all makes of cab air suspension and chassis applications.
- ▶ Bolt in installation. No drilling is required.
- ▶ Manufactured by the largest supplier of air suspension height control valves to the US truck industry.
- ▶ Designed and produced by an ISO 9001: 2000 certified facility to OE specifications.



Features and Benefits

- ▶ **Shear-Seal® Design** wears in, not out. Hardened valve components resist wear from air system contaminants.
- ▶ **Dual Air Bag Ports** for ease of installation.
- ▶ **Zinc Plated, Anodized Aluminum, and Engineered Plastics** combine for superior corrosion resistance.
- ▶ **Proportional Response** controls air flow for precise ride control.
- ▶ **100% Tested at Factory** to ensure reliable performance.
- ▶ **Integral Dump Valve** with air pilot activation saves space and simplifies installation.

Warranty

Barksdale Height Control Valves are backed by a one-year unlimited mileage warranty.

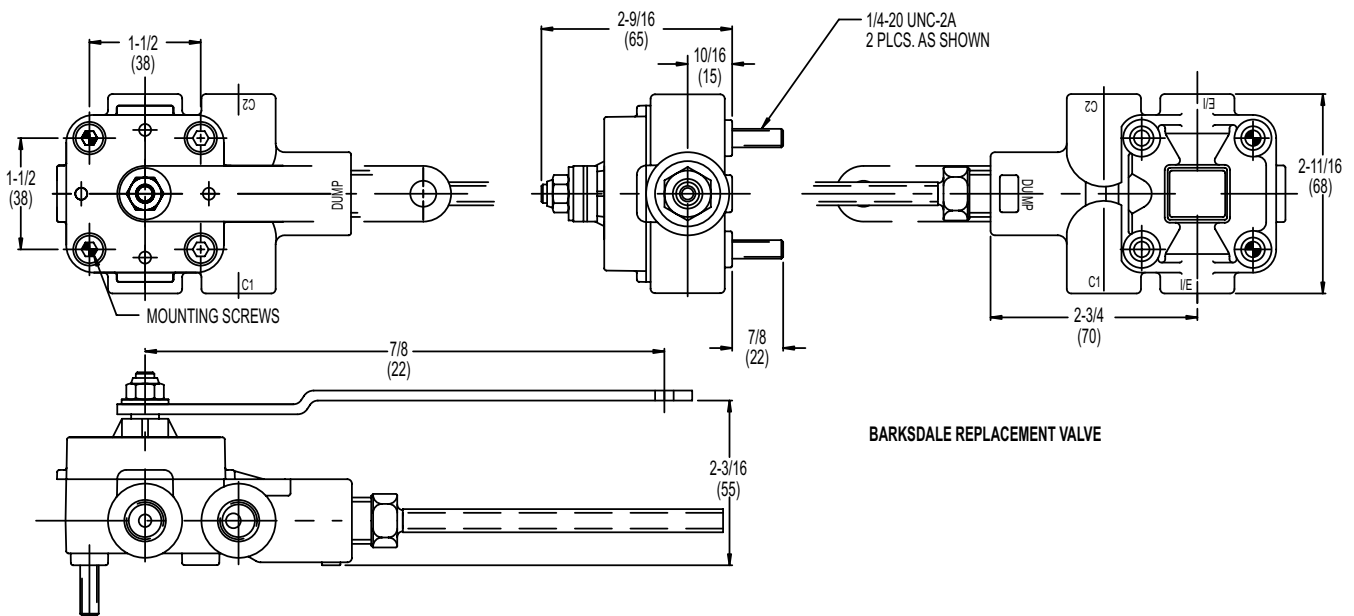
Barksdale Part	Replaces Part Number
KD2360	International 2506169C91 Hadley HAD500NS
KD2356	WABCO S464 002 443-0 Midland KN 27000
KD2358	Hadley H00500RS
KD2357	Haldex/Neway 90054007
KD2355	WABCO S464 007 004-0
KD2359	WABCO 464 008 115-0
KD2373	Delco/King of the Road 12C-1 (KOR 5549705) & 12-6-2 (KOR 5549706)
KD2374	Haldex PR 90554950 & 90554945
KD2375	Hadley H00450CE

Height control valves

**KD2360 Replaces: International 2506169C91
Hadley HAD500NS**



- ▶ Chassis Air Ride Applications
- ▶ Integral Dump Feature
- ▶ 1/4" NPT Ports
- ▶ Bolt-in installation
- ▶ No drilling required



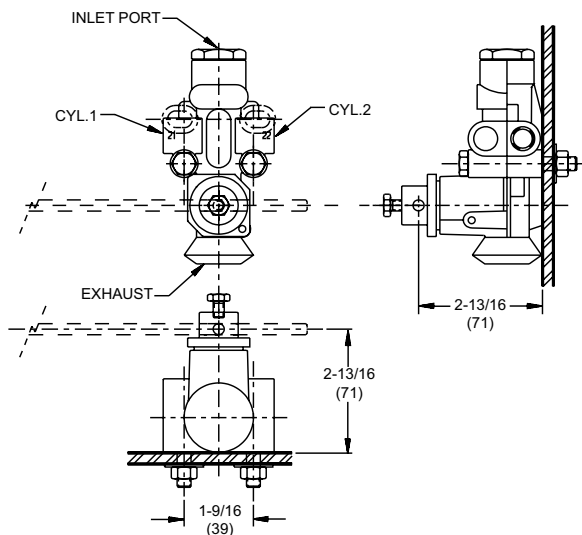
Height control valves

**KD2356 Replaces: WABCO S464 002 443-0
Midland KN 27000**



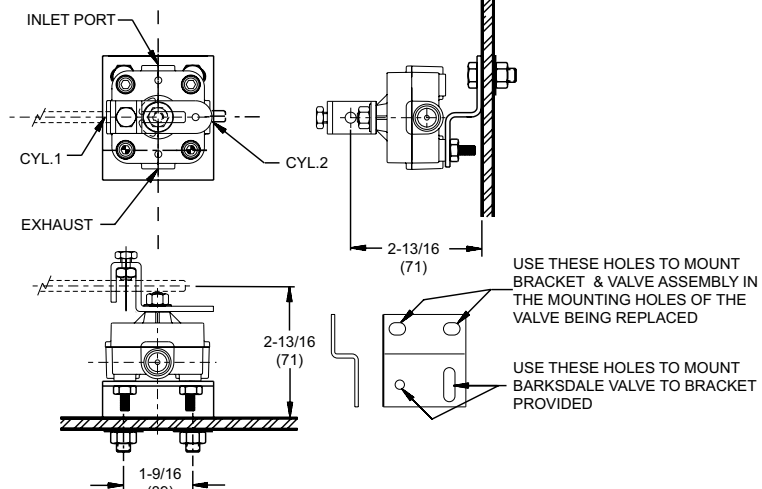
- ▶ Chassis Air Ride Applications
- ▶ 1/4" NPT Ports
- ▶ Bolt-in installation
- ▶ No drilling required

WABCO OR MIDLAND VALVE



BARKSDALE REPLACEMENT VALVE

BRACKET INTERCHANGEABLE WITH WABCO/MIDLAND VALVES



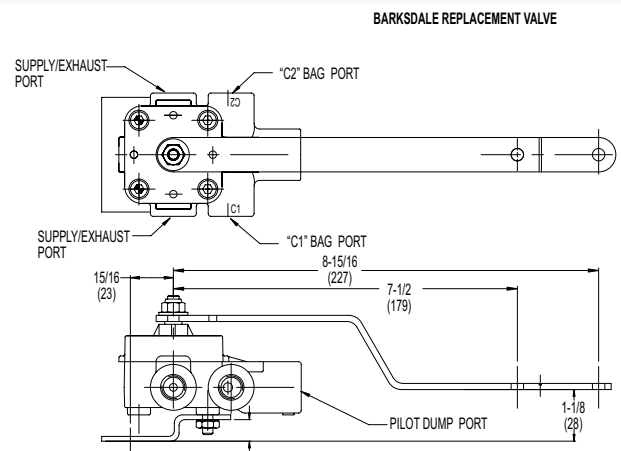
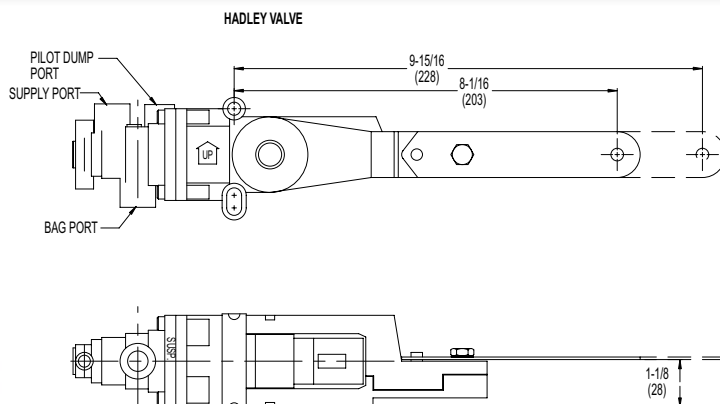
VIEW FROM THE REAR OF THE TRUCK LOOKING FORWARD

Height control valves

KD2358 Replaces: Hadley H00500RS



- ▶ Chassis Air Ride Applications
- ▶ Integral Dump Feature
- ▶ 1/4" NPT Ports
- ▶ Compression Fittings Included
- ▶ Bolt-in installation
- ▶ No drilling required

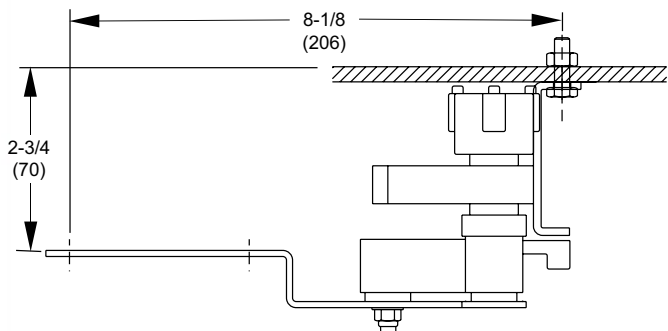


Height control valves

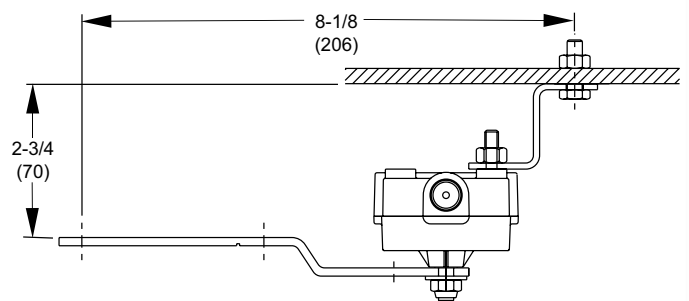
KD2357 Replaces: Haldex/Neway 90054007



- ▶ Chassis Air Ride Applications
- ▶ 1/4" NPT Ports
- ▶ Bolt-in installation
- ▶ No drilling required



NEWAY VALVE

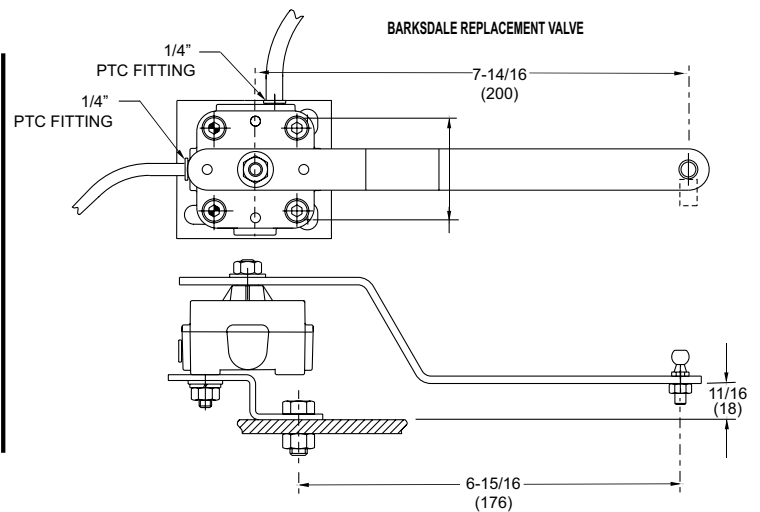
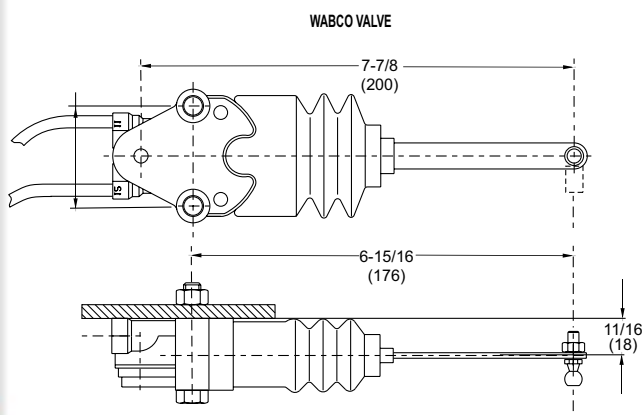


BARKSDALE REPLACEMENT VALVE

Height control valves

KD2355 Replaces: WABCO S464 007 004-0

- ▶ Cab Air Ride Applications
- ▶ Integral 1/4" Push to Connect Fittings
- ▶ Bolt-in installation
- ▶ No drilling required

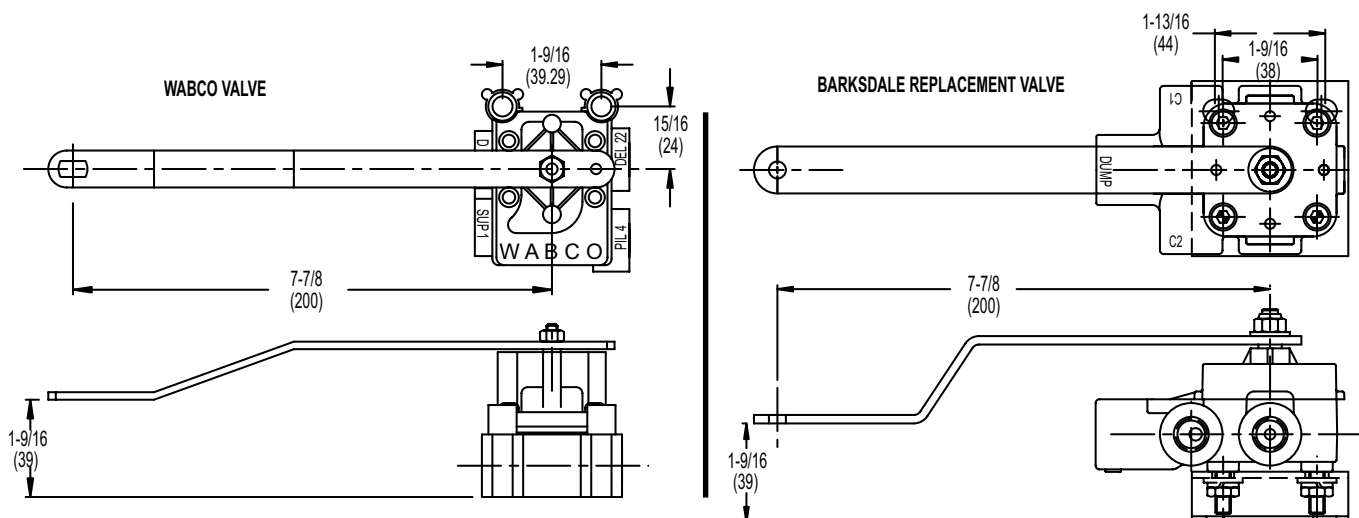


Height control valves

KD2359 Replaces: WABCO 464 008 115-0



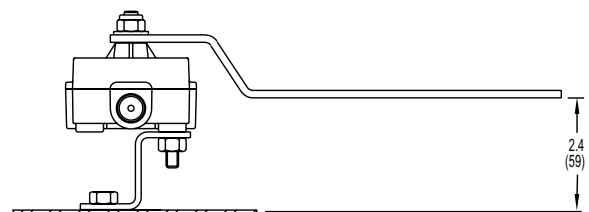
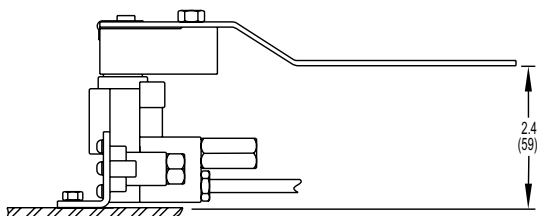
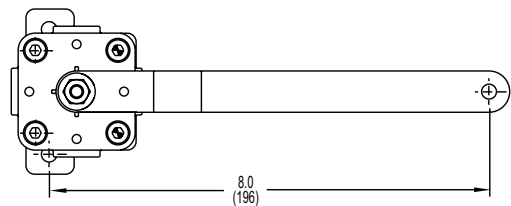
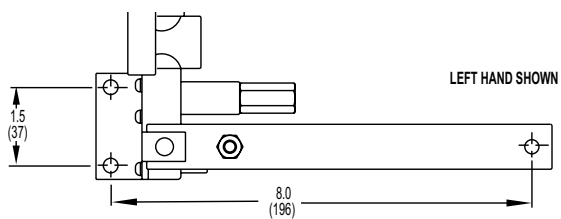
- ▶ Chassis Air Ride Applications
- ▶ Integral Dump Feature
- ▶ 1/4" NPT Ports
- ▶ Bolt-in installation
- ▶ No drilling required



Height control valves

**KD2373 Replaces: Delco/King of the Road
12C-1 (KOR 5549705) &
12-6-2 (KOR 5549706)**

- ▶ Chassis Air Ride Applications
- ▶ 1/4" NPT Ports
- ▶ 1/4" Compression Fittings
- ▶ Bolt-in installation
- ▶ No drilling required



Height control valves

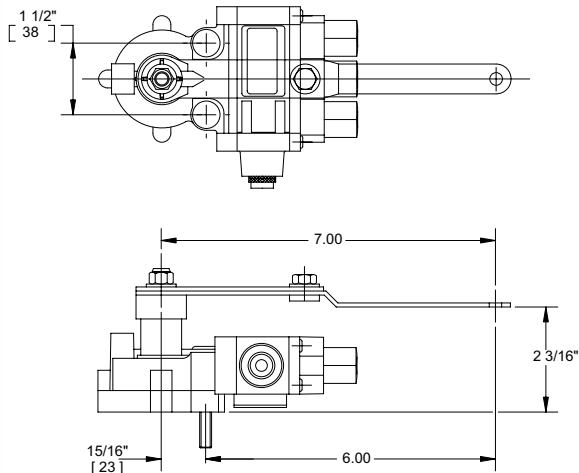
KD2374 Replaces: Haldex PR 90554950 & 90554945



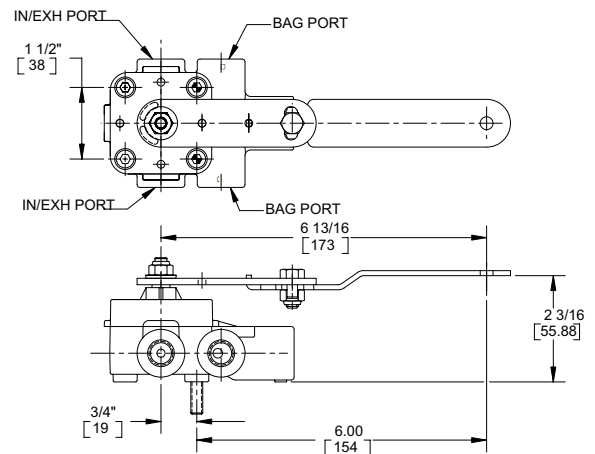
- ▶ Chassis Air Ride Applications
- ▶ Integral Dump Feature (normally closed)
- ▶ 1/4" NPT Ports
- ▶ Bolt-in installation
- ▶ No drilling required



HALDEX VALVE



HALDEX REPLACEMENT VALVE

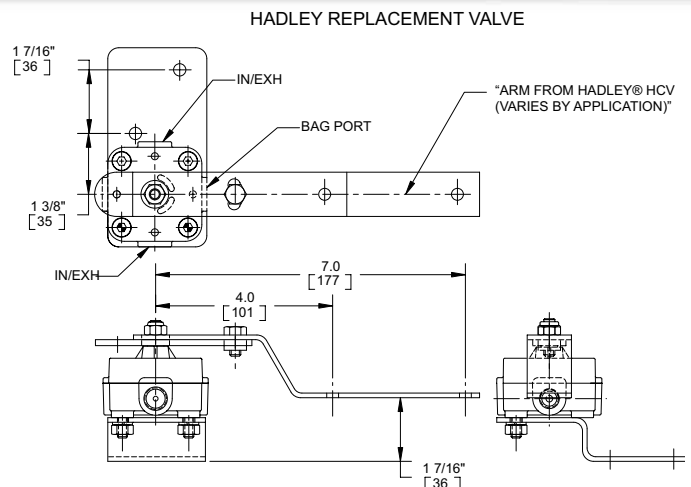
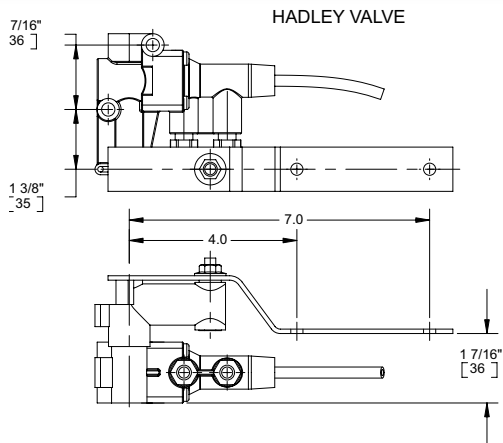


Height control valves

KD2375 Replaces: Hadley H00450CE



- ▶ Cab & Chassis Air Ride Applications
- ▶ Requires re-use of the Hadley® HCV arm
- ▶ 1/4" NPT Ports
- ▶ Bolt-in installation
- ▶ No drilling required



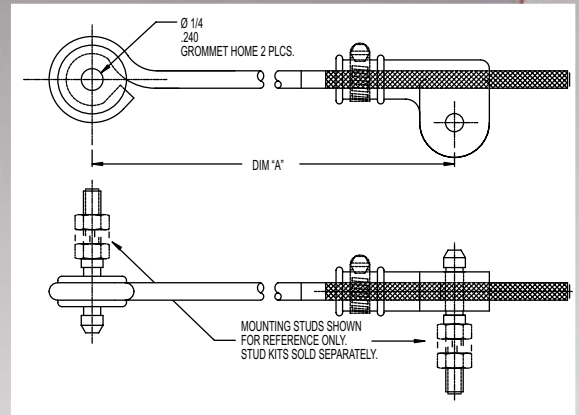
Universal Linkage Assembly

Universal Linkage Assembly

Adjustable Linkage



Universal Linkage Kit	Dimension "A" Adjustment Range (inch/mm)	Description
320138	6.9 - 9.6 / 175 - 244	Adjustable Linkage
320139	9.8 - 11.5 / 250 - 292	Adjustable Linkage
320140	10.9 - 13.6 / 277 - 345	Adjustable Linkage
320141	12.8 - 19.0 / 325 - 482	Adjustable Linkage



- ▶ Zinc-Plated Steel Rod
- ▶ Elastomer Ends



- ▶ Adjusts from 8 3/4" (220 mm) to 14 1/2" (370 mm)
- ▶ 1/4" Diameter mounting bolts

Linkage Hardware



Linkage Hardware 5/16-18
KD2370



Linkage Hardware 1/4-20
KD2371



Linkage Hardware(metric) 8 mm
KD2372

Universal Hardware Kit	Replaces	Description
KD2370	Best Fit	Mounting Hardware / 5/16-18 Thread
KD2371	Best Fit	Mounting Hardware / 1/4-20 Thread
KD2372	Best Fit	Mounting Hardware / 8 mm Coarse Thread

Installation guides

General Installation Instructions

Valve Removal

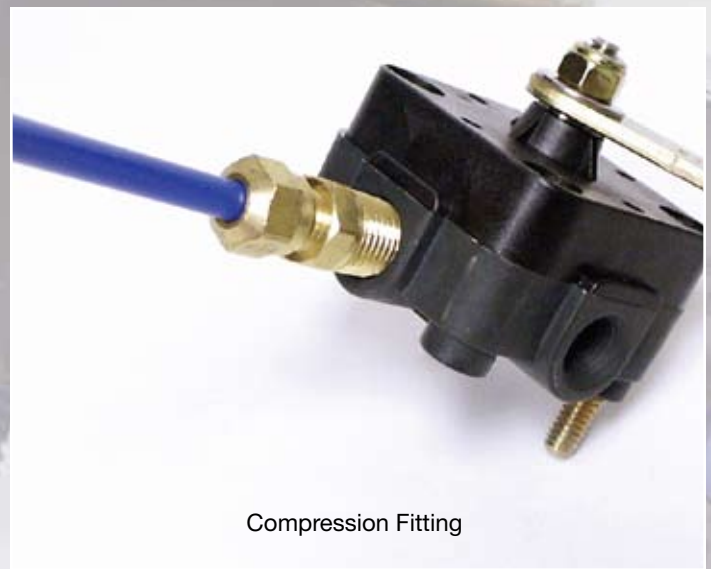
Shut-off air flow to Height Control Valve.

Disconnect the Linkage from control arm.

Disconnect air lines to the Height Control Valve.

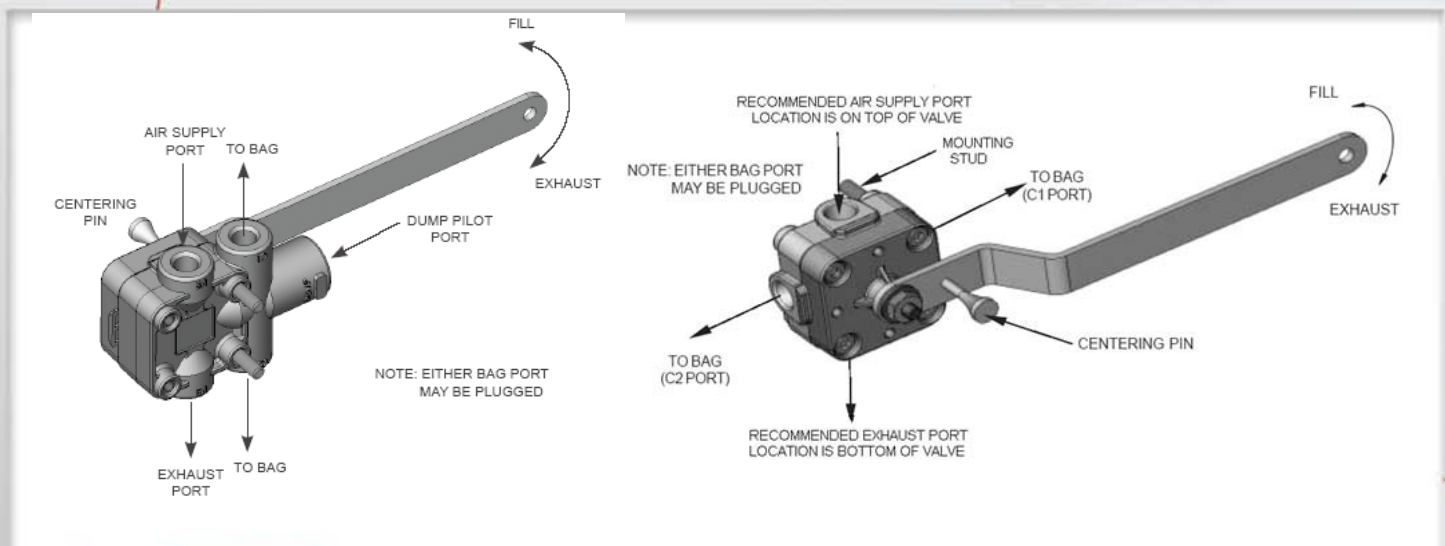
Caution: Air lines are under pressure and air may blow debris.

- ▶ For Push-To-Connect Fittings, depress the manual push button then pull the tube out.
 - ▶ For Compression Fittings, loosen compression nut and pull tube from compression seat.
- Remove valve from frame.



Compression Fitting

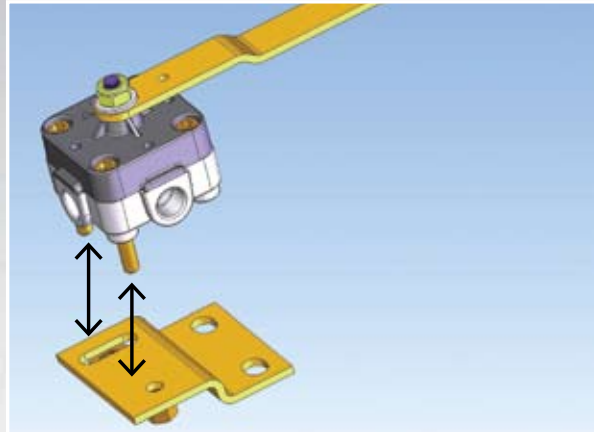
Typical Barksdale Height Control Valve



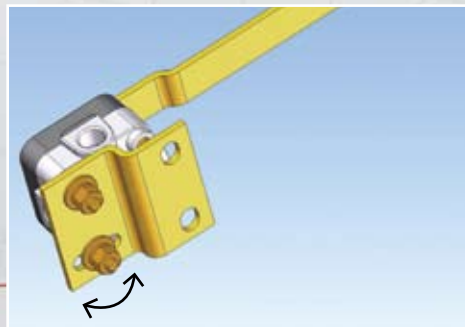
Installation guide

General Installation Instructions

1. Apply thread sealant to either the new fittings provided or existing fittings removed from previous valve.
2. Install fittings according to air line size into Height Control Valve.
3. Attach bracket to the mounting screws of the Height Control Valve.



4. Mount Height Control Valve, with attached bracket, to the frame.
5. Hand tighten nuts.
6. Connect air lines to fittings of Height Control Valve. Inlet port is identified as port orientated up.
 - ▶ For Push-To-Connect Fittings:
 - Cut tubing using tube cutter to achieve square cut of tube.
 - Pull on tubing to verify gripping action. (Tubing should not slip out)
 - ▶ For Compression Fittings
 - Remove compression nut and compression ring from fitting.
 - Slide compression nut followed by compression ring over tubing.
 - Push tubing into compression seat and tighten compression nut.(The compression ring will compress against tubing as nut is tightened.)
7. Adjust ride height by rotating the handle to the Fill/Exhaust position, allowing air to enter/exit the air bags.
If installing Height Control Valve with Integral Dump proceed as following: Note: 3-way pilot valve is required.
 - ▶ Connect air line from pilot valve to Dump Port of Height Control Valve.
 - ▶ Apply 65 psi of air pressure to the Dump Port of the Height Control Valve activating the piston, allowing air to be "dumped " from the air bags.
8. When the desired ride height, as specified by the vehicle manufacturer, is achieved rotate the handle to the neutral position. Install Centering Pin through handle hole and into the valve body.
9. Adjust Height Control Valve with mounting bracket to achieve final ride height according to the Truck Manufacturers recommended height.
10. Tighten all nuts and torque to 45 in/lb.
11. Remove Centering Pin.





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