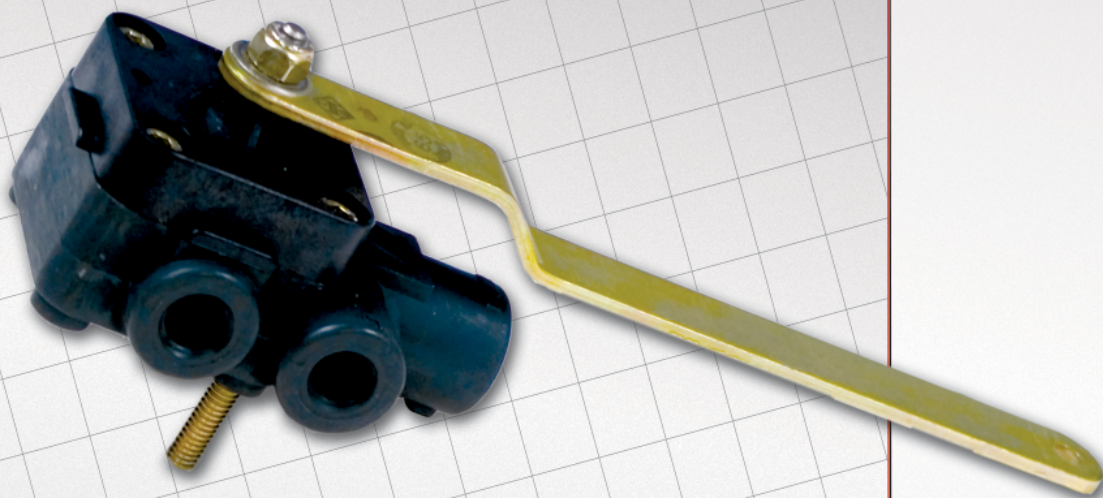


52341 Series

Air Suspension Valve
with Integral Dump



- ▶ Shear-Seal® Technology
- ▶ Accurate Ride Height
- ▶ Integral Dump

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

Air Suspension Valve with Integral Dump

52341 Series

The 52341 Air Suspension Valve utilizes Barksdale's patented Shear-Seal® technology to accurately control suspension height in commercial and recreational vehicle applications. Shear-Seal® has become the industry leader through superior performance and long life, even under the most demanding conditions.

The integral dump feature in the Barksdale 52341 valve brings the ability to quickly exhaust the air bags into one compact package eliminating components and installation labor.

Barksdale height control valves feature proportional response and are available in both low flow and high flow configurations. These features combine to minimize air consumption without the use of inaccurate and failure prone time delay elements found in competing products.

Features

- ▶ Shear-Seal® Technology provides superior performance and durability
- ▶ High Flow Integral Dump for simplified installation
- ▶ Proportional flow reduces vehicle air consumption
- ▶ Precise dead band optimizes ride height control
- ▶ Dual outlet ports with bag cross talk control limits side to side interaction
- ▶ Optional push-to-connect fittings ease installation
- ▶ Compact size and flexible design fits any application

| | |
|----------------------------|---|
| Operating Media | Air |
| Seal Type | Shear-Seal® |
| Operating Pressure | 130 PSI (9 bar) Maximum |
| Operating Temperature | -40°F to +150°F (-40°C to +65°C) |
| Flow Curve | Proportional response |
| Maximum Flow Rate | Low flow: 120 L/Min (4.2 cfm) Standard flow: 350 L/Min (14.2 cfm) |
| Port Size | Standard 1/4" NPT 1/4" Push in tube* 6mm Push in tube* 3/8" Push in tube* *DOT approved |
| Delivery Ports (Bag Ports) | Dual delivery ports |
| Mounting Studs | 1/4-20 UNF |
| Linkage Mounting Hole | 0.25" (6.3 mm) or 0.38" (9.5 mm) |
| Maximum Handle Movement | +/- 75° For fill or exhaust |



Applications

- ▶ Tractor
 - Single Valve Rear Suspension
 - Dual Valve Rear Suspension
- ▶ Trailer
 - Positive and Negative Dump
- ▶ Bus
- ▶ RV

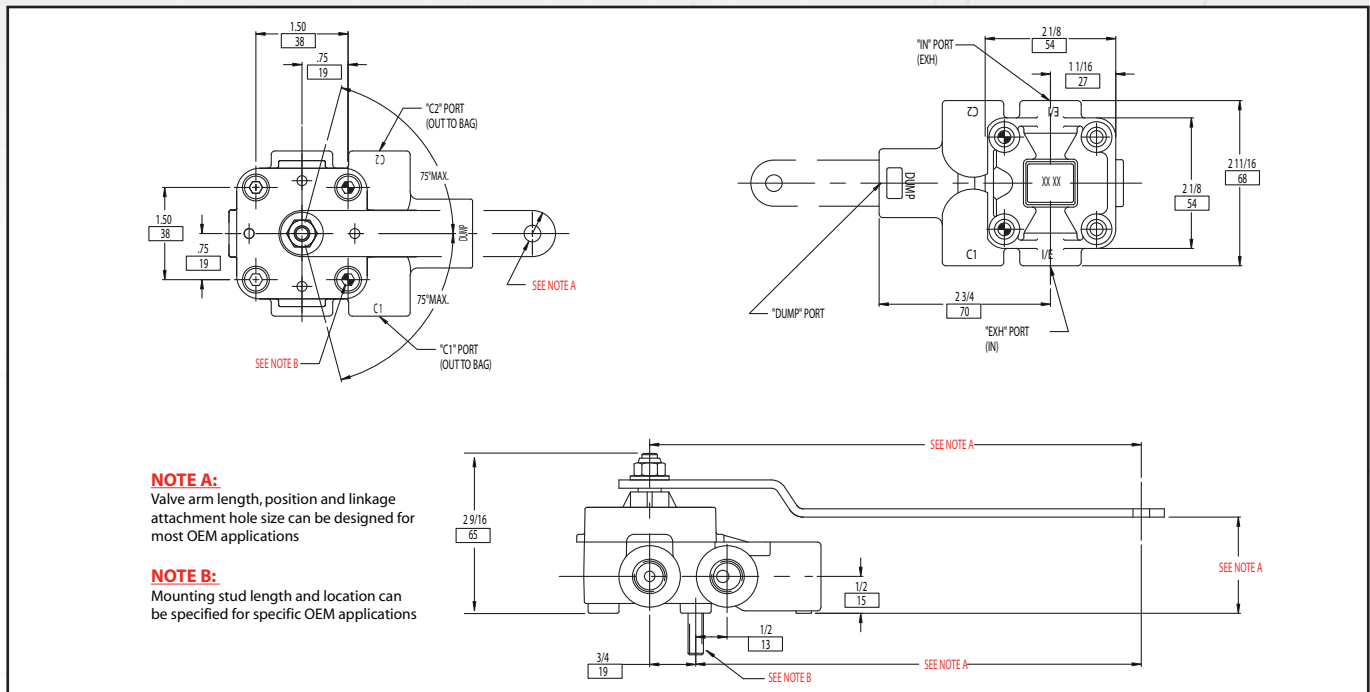
| | |
|-------------------------|----------------------------------|
| Dump Flow Rate | 875 L/min (31 cfm) |
| Dump Port Activation | 70 psi (4.8 bar) minimum |
| Dump Port Configuration | Normally open or normally closed |

| | |
|---------------------------|---|
| Materials Of Construction | Body: Anodize aluminum Housing: Engineered plastics Arm: Zinc plated steel Internal Elements: Stainless steel and hard anodized aluminum Seals: Buna-N |
| Weight (typical) | 1.1 lb (500g) |

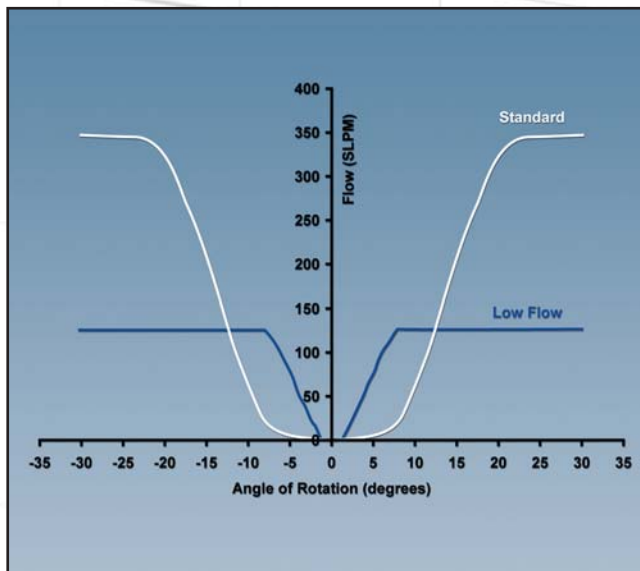
Additional Options Available

- ▶ Arm length
- ▶ Port locations
- ▶ Arm orientation
- ▶ Mounting stud location
- ▶ Mounting stud length
- ▶ Air fittings
- ▶ Mounting brackets

Technical Drawings



Barksdale Valve Flow Curve



Barksdale's patented proportional air flow design optimizes air usage within the vehicle air suspension system. The Barksdale height control valve reacts instantly to large suspension movement, providing maximum rated flow to rapidly restore vehicle ride height. Smaller changes in ride height result in proportional reductions in the volume of air flow to or from the air springs. Air is conserved and ride height overshoot and undershoot are virtually eliminated.

Barksdale's precise and highly repeatable deadband results in exact control of vehicle and cab ride height. This maintains critical driveline geometry while yielding a smooth ride and ensuring years of reliable service.

Engineered Solutions



Barksdale specializes in engineered solutions that exceed customer expectations.

The Barksdale height control valve is highly adaptable, including customized:

- ▶ Actuating arm length, offset, attachment points
- ▶ Mounting stud length, and location, and threads
- ▶ Threaded SAE & metric ports and push to connect fittings
- ▶ Ready to bolt on sub-assemblies with brackets, linkages and fasteners

Barksdale has a solution for every application. Let us find one for you.

Accessory Components



Barksdale Pressure Protection Valves (PPV) optimize the safety of your installation. This critical valve from Barksdale comes with male inlet threads for direct connection into your air reservoir. It is factory calibrated for the exact operating pressure required.



Barksdale offers several linkage options for use with Barksdale Air Suspension valves. Available in both fixed length and adjustable length these linkages provide a reliable connection between the air suspension valve and the suspension.



Global Presence

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