

PRODUCT CONFIGURATION AND CONNECTION DETAILS

Three connected 10 x 5 x 3 ft modules | overall 10 x 15 x 3 ft arrangement

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TOP VIEW / THREE-BAG CONFIGURATION

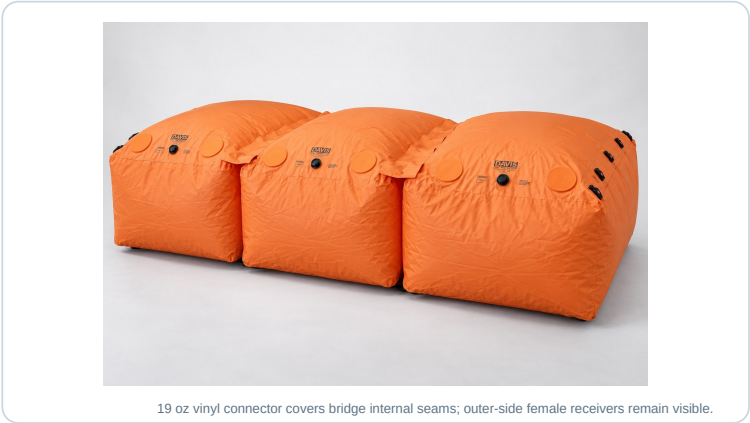
SCHEMATIC - NOT TO SCALE



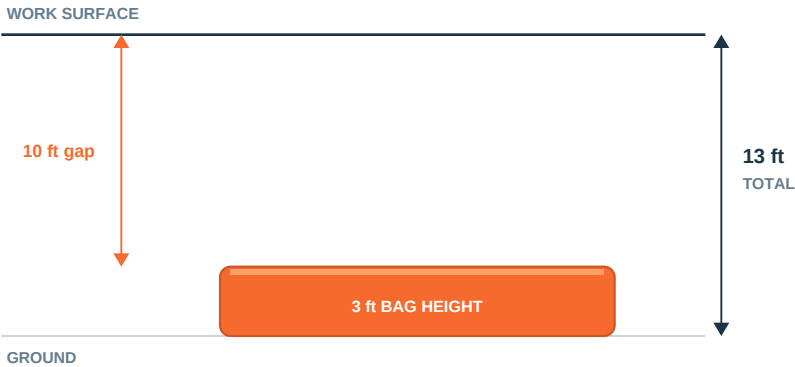
CONFIGURATION SPECIFICATIONS

10 x 15 x 3 ft OVERALL CONFIGURATION	10 x 15 ft TOP CONTACT FOOTPRINT
34 lb PER BAG	102 lb 3-BAG TOTAL (3 x 34 lb)

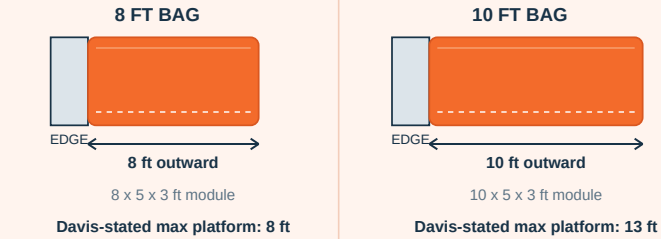
SUPPLIED ASSEMBLY REFERENCE



SIDE ELEVATION / 10 x 5 x 3 FT BAG



BAG OPTIONS / OSHA TABLE GEOMETRY



Assumes level lower floor, 3-ft bag top, and no setback from work edge.
At 8/13-ft platform heights, gap to the bag plane is 5/10 ft; 29 CFR 1926.502(c)(2) calls for 8/10-ft minimum net extension; it does not qualify or approve bags.

Illustrative product configuration only; this sheet is not a test report, fall rating, OSHA/ADOSH approval, or jobsite compliance determination.
Performance evidence and use limits should be reviewed in separate records for the exact tested configuration.

BAG CONNECTIONS AND COMPONENT DETAILS

Connection arrangement and hardware illustrated from the supplied product reference images

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INTERNAL JOINT / VINYL CONNECTOR COVER

Six connector pairs run along each shared 10-ft edge.

BAG FEMALE RECEIVERS + COVER-MOUNTED MALE ENDS



Each bag carries female receivers only.
The separate cover is made from the same durable 19 oz reinforced vinyl as the bags.
It has two opposing male connectors, one at each end, that mate with both adjacent bags.

COVER IN USE



The cover bridges the connected seam and shields the buckle hardware during use.

OUTER 10-FT SIDES / MODULAR EXTENSION

Six female receivers on each outer 10-ft side accept male-ended vinyl covers for extension.



Existing 3-bag row; outlined modules show possible continuation at either end.

PRESSURE-RELEASE VALVE COVER AND FILL CAP



ORANGE COVER

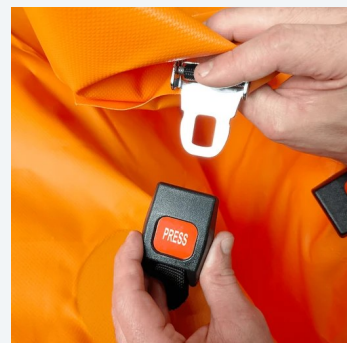
Circular magnetic pressure-release valve cover with a raised rim.

BLACK FILL CAP

Raised round cap with a ridged grip edge, matching the supplied close-up.

Reference image supplied by Davis.

SIDE-RELEASE BUCKLE ATTACHMENT



Reference image supplied by Davis.

BAG FEMALE RECEIVER

Bags carry female receivers only.
Each 19 oz vinyl cover has two opposing male ends that mate with the adjacent bags.

PLACEMENT

Six cover-to-bag pairs run along each shared 10-ft seam. Outer 10-ft sides carry female receivers for module extension.

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MAGNETIC PRESSURE-RELEASE VALVES

Patent-pending assembly | Magnetic release, impact cushioning and gradual lowering

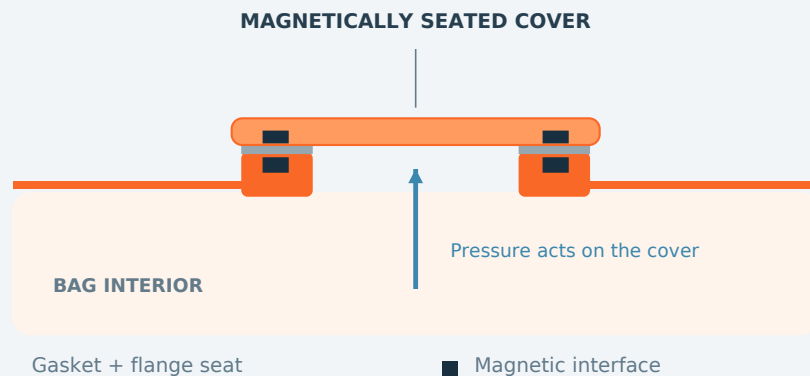
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PRESSURE-RELEASE MECHANISM

Compression applies an outward pressure force to the cover. When that force overcomes magnetic retention, the cover separates from its seat and uncovers the circular vent.

1 COVER SEATED / INFLATED

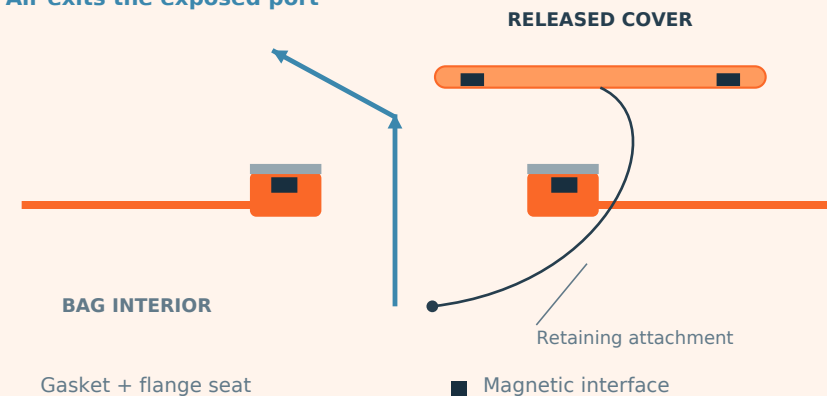
Magnets retain the cap against the gasket during normal inflation.



2 COVER RELEASED / VENT OPEN

The cap moves away from the seat; displaced air can leave the bag.

Air exits the exposed port



FROM IMPACT TO GRADUAL LOWERING

1 Bag compresses

The landing load reduces the bag's air volume. Pressure acts outward on the valve cover.

2 Cover releases

Pressure force overcomes magnetic retention, opening a path for displaced air to escape.

3 Impact cushioning

Air vents through the exposed opening while the bag compresses and supports the landing load.

4 Gradual lowering

Continued venting is designed to slowly lower the supported person toward the ground after initial impact.

CONSTRUCTION AND SERVICE

The supplied drawing identifies CAP-LARGE, FLANGE GASKET, FLANGE-LARGE and **60 magnets total**. Davis describes the cover as internally retained and replaceable if damaged. Follow Davis inspection and reset procedures before reuse.

Simplified sections, not to scale; magnetic symbols do not represent magnet count or spacing. No opening-pressure setpoint, airflow rate or automatic reset is specified in the supplied drawings.

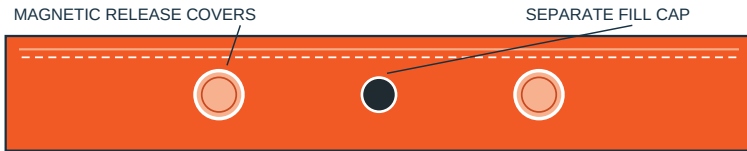
MAGNETIC PRESSURE-RELEASE VALVE CYCLE

How the covers respond to pressure and manage air release during compression

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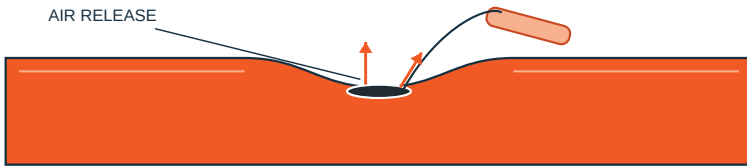
HOW THE VALVE COVERS WORK

Each valve responds to internal pressure as a loaded bag compresses.



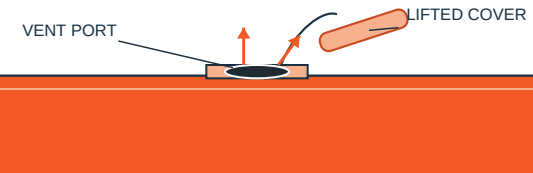
1 COVERS SEAL DURING INFLATION

Magnets hold each orange cover against its gasketed seat. The black fill cap is a separate fitting.



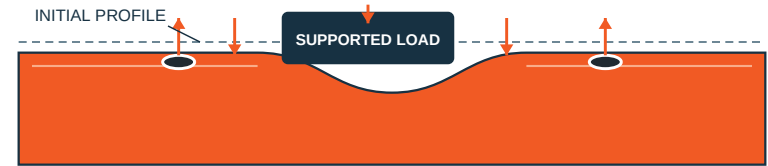
3 AIR DISCHARGES; COVER STAYS ATTACHED

Air escapes through the open port while the retaining attachment keeps the released cover with the bag.



2 PRESSURE OPENS THE VENT

Compression raises internal pressure. When it overcomes magnetic retention, the cover lifts and exposes the vent.



4 CONTINUED VENTING LOWERS THE LOAD

As air continues to leave, the bag compresses and is designed to lower the supported load gradually.

OPERATION NOTE

This schematic explains the intended valve sequence. The supplied assembly drawings do not specify a release-pressure setpoint or airflow rate.

Assembly references: 2025-1 FALL BAG VALVE ASSEMBLY-A and 2025-1 FALL BAG VALVE ASSEMBLY SOLID VIEWS-A.