

High-Pressure Heavy Lifting Air Bags & Accessories

High Pressure Heavy Lifting Bags for lifting the heaviest loads; up to 74 US tons. Use when maximum lifting force is needed in low clearance situations. Exerts up to 116 pounds per square inch of contact surface. Solid brass and thick Kevlar-cord reinforced rubber pneumatic lifting system minimizes risk, sparks and damage caused by mechanical or hydraulic devices.

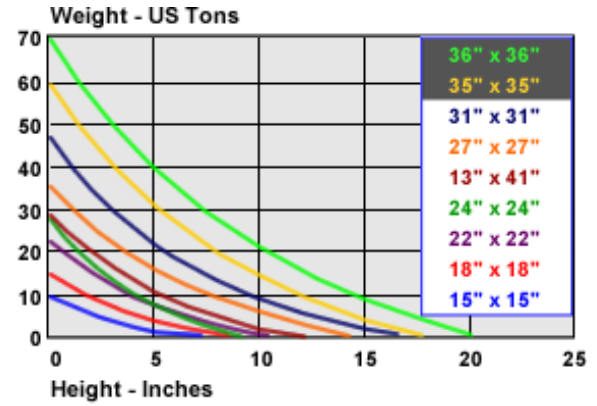
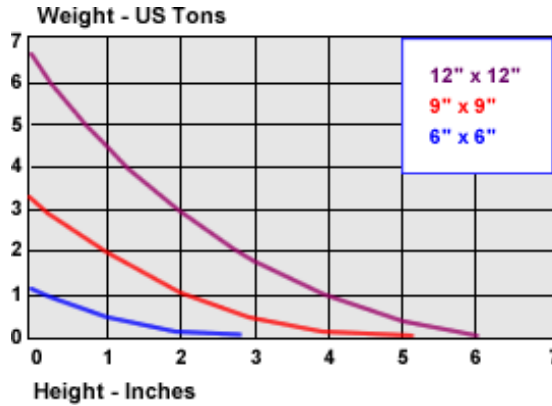
Sava manufactures pneumatic high-pressure heavy lifting air bags for heavy-duty, low profile heavy lifting, emergency rescue, HAZMAT management or industrial use. Heavy lifting bags are thin profile and simple to use. The convex dimpled, interlocking surface and safety straps provides superior gripping power when two lifting bags are stacked on top of each other. Twelve standard sizes are available with lift capacity up to 74 tons. Safety straps minimize shifting hazards and allow bags to be strapped together for safety. Safety straps provide anchorage for attachment of pulling and placement ropes so it is not necessary for personnel to reach under a live, unstable load.

The application range of our standard pneumatic lift bags is further expanded by our heavier industrial lift bags. Custom engineered heavy lifting bags for special purpose applications are also available. Use for heavy load shifting, dunnage, leveling, or padded support up to 74 tons and higher.

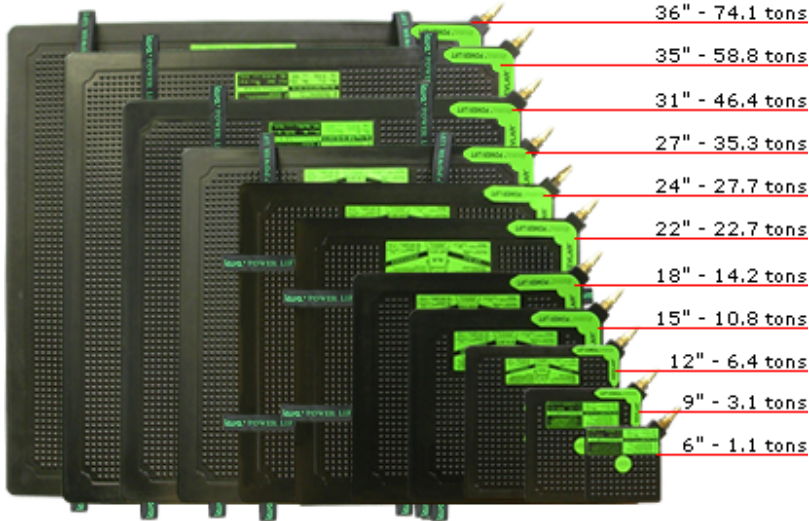
**Note: Selection of the proper air bag depends on the ratio of height vs. weight.*

For instance, you wouldn't use a 30 ton air bag to lift 30 tons.

Max. lift height decreases as the weight increases. Use the graph (RIGHT) to determine the max. height any particular bag will lift a certain weight.

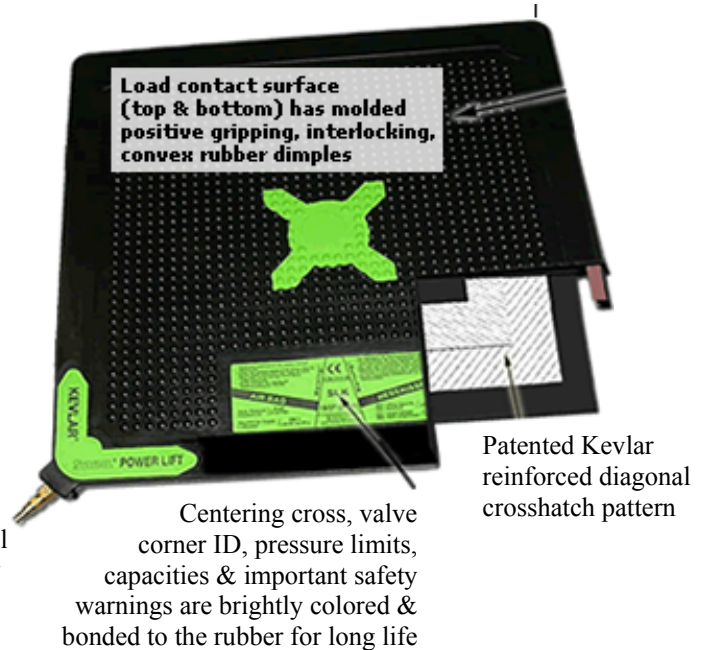


High Pressure Air Bags



Manufacturing Details

Reinforced edge protects the bag where damage often occurs.



Interchangeable couplers that are adaptable with all other types of air

Rectangular High Pressure Air Bags

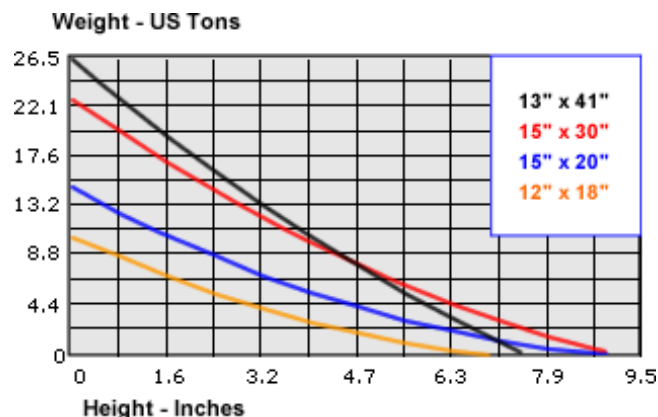


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| Technical data - Heavy Lift Air Bags | | | | | | | | | | | | |
|---|----------------|------------------|---------------|---------------|---------------|----------------|--------------|--------------|--------------|--------------|--------------|--------------|
| USA Specs | | SLK 1, 1/2, 8 | SLK 3, 5/5 | SLK 6, 8/6 | SLK 8, 8/7 | SLK 13, 3/9 | SLK 21/11 | SLK 26/12 | SLK 34/14 | SLK 44/17 | SLK 59/18 | SLK 70/20 |
| Item number | # | 77973 | 77974 | 77975 | 76734 | 76735 | 76736 | 76737 | 76738 | 76739 | 76794 | 76740 |
| Size - deflated | inch | 6X6 | 9X9 | 12X12 | 15X15 | 18X18 | 22X22 | 24X24 | 27X27 | 31X31 | 35X35 | 36X36 |
| Thickness | Inches | 1.1" | 1.1" | 1.1" | 1.1" | 1.1" | 1.1" | 1.2" | 1.2" | 1.2" | 1.2" | 1.2" |
| *Max lift height | Inches | 2.7" | 5.1" | 5.9" | 7.0" | 8.6" | 10.6" | 11.8" | 14.1" | 16.5" | 17.7" | 20.0" |
| *Max Load | US Tons | 1.1 | 3.1 | 6.4 | 10.8 | 14.2 | 22.7 | 27.7 | 35.3 | 46.4 | 58.8 | 74.1 |
| Bag weight | Lbs | 1.32 | 2.8 | 5.3 | 8.8 | 11.6 | 17.8 | 24.6 | 29.3 | 40.1 | 49.6 | 55.8 |
| Max. pressure | PSI | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 |
| Test pressure | PSI | 174 | 174 | 174 | 174 | 174 | 174 | 174 | 174 | 174 | 174 | 174 |
| Burst pressure | PSI | 464 | 464 | 464 | 464 | 464 | 464 | 464 | 464 | 464 | 464 | 348 |
| Volume | cu./ft. | .18 | .53 | 1.48 | 3.04 | 5.37 | 10.45 | 14.7 | 21.9 | 32.5 | 46.8 | 53.1 |

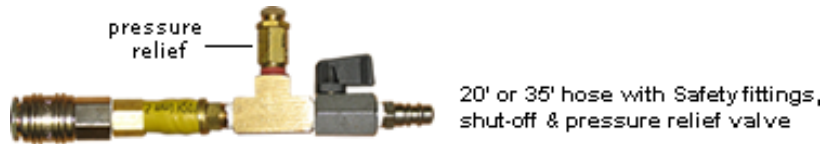
| Rectangular - Heavy Lift Air Bags | | | | | |
|--|----------------|-------------|-------------|-------------|-------------|
| American SAE Specs | | SLK-L 24/8 | SLK-L 9/18 | SLK-L 13/23 | SLK-L 20/23 |
| Item number | # | 77983 | 519833 | 519834 | 519837 |
| Size - deflated | inch | 13X41 | 12x18 | 15x20 | 15x30 |
| Thickness | Inches | 1.1" | 1.1" | 1.1" | 1.1" |
| *Lift height | Inches | 7.9" | 7" | 9" | 9" |
| *Load Capacity | US Tons | 24.2 | 10.5 | 15 | 22.8 |
| Bag weight | Lbs | 19 | 7.7 | 10.8 | 16.3 |
| Max. pressure | PSI | 116 | 116 | 116 | 116 |
| Test pressure | PSI | 174 | 174 | 174 | 174 |
| Burst pressure | PSI | 464 | 464 | 464 | 464 |
| Volume | cu./ft. | 8 | 3.4 | 6 | 9.5 |
| Inflation time | sec | 12 | 6 | 8 | 14 |

High-Pressure Lift Bag Setup & Available Accessories

All Sava controllers come with pressure relief valves built-in.

All hoses shown in the demo below are equipped with safety fittings & inline shut-off with pressure relief valves which will allow the end user to disconnect the hose from the controller and use with an alternative air source without the worry of over-inflating the lift bags.

**Diagrams below show typical air bag setup:
Control Set #5 (left) & Control Set #8 (right) shown.**



Control two additional bags by adding two wye adapters to the same controller....



Part# 528127

Deadman controllers are used for precise inflation and deflation control. The Deadman controller can accurately control one or two bags from a single regulated air source.

Built-in safety relief valves prevent lifting bag over pressurization. Toggles are pressure sensitive. Open a little, slight flow. Open more, more flow. Use color coded hoses for safety. Recommended for Fire and Rescue operations.

Part# 385217EU

Wye adapter in this demo being used with dual deadman controller #528127. Wye adapter shown here with safety fittings: 1 nipple and 2 couplers

Note: Wye adapters that are added to controllers should only be used with hoses equipped with inline shut-off & safety relief valve.

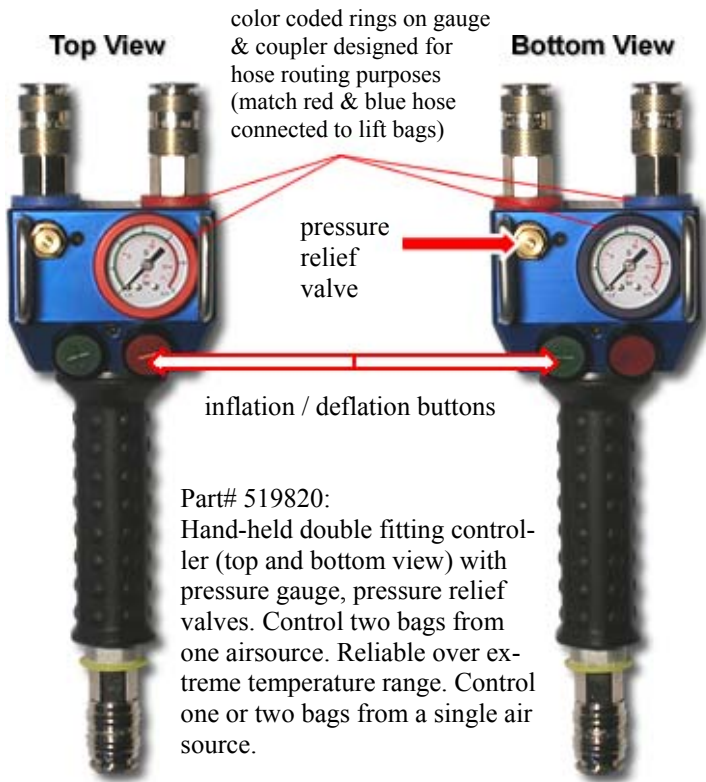
Other Available Controllers:



Part# 528134

Triple deadman controller with built-in pressure relief valves to prevent over-inflation and safety couplers to eliminate accidental hose disconnection. This unit also features color coded inflation ports to make it easier to identify hose routing. Variable pressure control toggle levers precisely control inflation & deflation. Working temperature range: -4°F to 131°F (-20°C to 55°C).





color coded rings on gauge & coupler designed for hose routing purposes (match red & blue hose connected to lift bags)

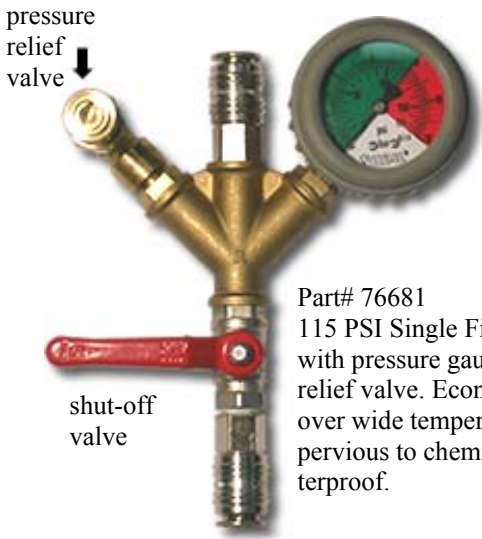
pressure relief valve

inflation / deflation buttons

Part# 519820:
Hand-held double fitting controller (top and bottom view) with pressure gauge, pressure relief valves. Control two bags from one airsource. Reliable over extreme temperature range. Control one or two bags from a single air source.



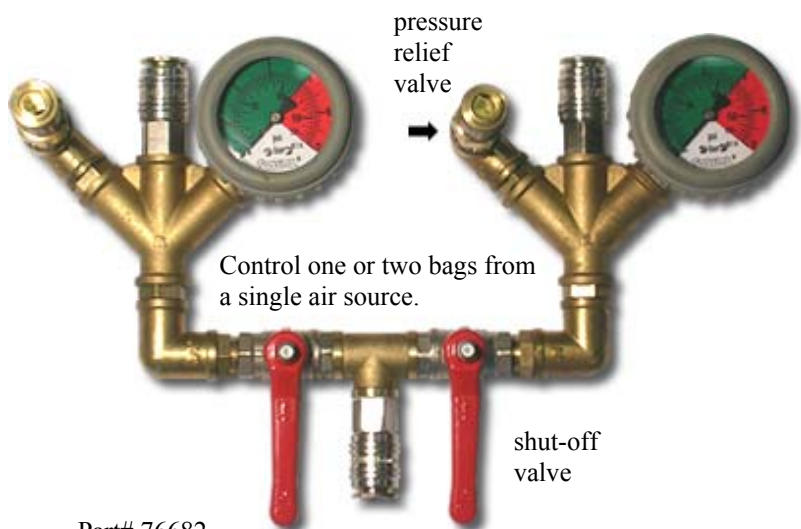
Part# 519819:
Hand-held single fitting controller with pressure gauge, pressure relief valves. Reliable over extreme temperature range.



pressure relief valve

shut-off valve

Part# 76681
115 PSI Single Fitting Controller with pressure gauge, pressure relief valve. Economical, reliable over wide temperature range, impervious to chemical attack, waterproof.

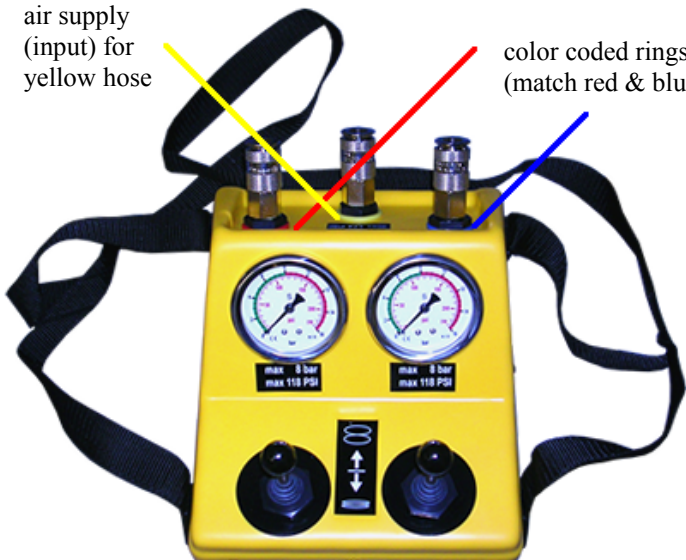


pressure relief valve

Control one or two bags from a single air source.

shut-off valve

Part# 76682
Double Fitting Controller with pressure gauge, pressure relief valves. Economical, reliable over wide temperature range, impervious to chemical attack, waterproof.



air supply (input) for yellow hose

color coded rings on coupler designed for hose routing purposes... (match red & blue hose connected to lift bags)

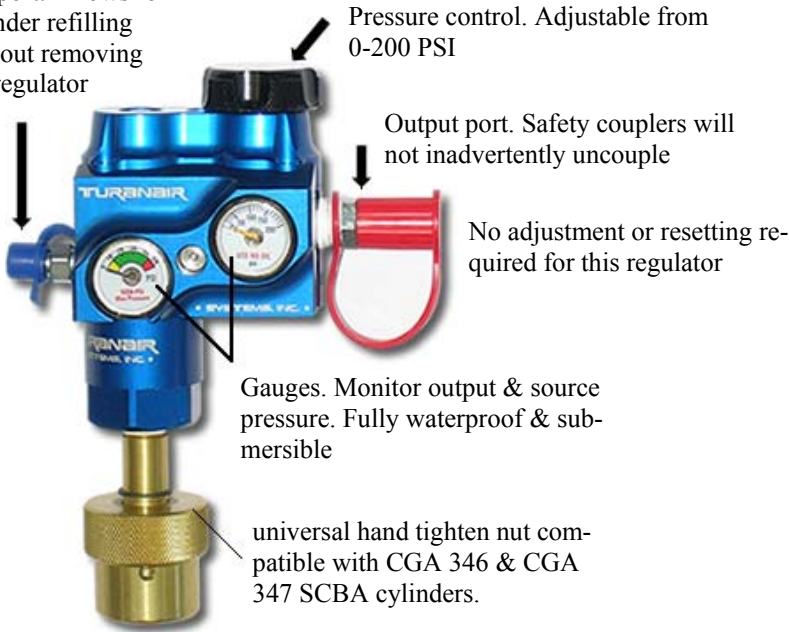
Part# 528127
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Variable control, pressure sensitive control valves

Available Regulators:

Recommended Regulator: (72128-3)

Fill port. Allows for cylinder refilling without removing the regulator



Part# 72128-3

2 stage pressure regulator for high pressure cylinders. Lightweight machined aluminum construction with anodized finish. Designed for lifting bags, inflatables, air tools, cutters, impact tools, nibblers,

Working pressure range: Input: 0-4500 PSI | Output: 0-120 PSI
Working temperature range: -20°F to 180°F (-29°C to 82°C)

Economy Regulator: (72128-1)

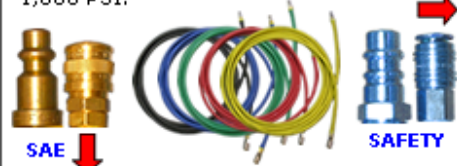


Part# 72128-1

6,000 PSI Diaphragm type single-stage regulators (economical, reliable), 200-6000 PSI input, 0-200 PSI variable output (adjustable).

Available Hoses & Valves:

3/8" ID all-weather inflation hoses. Weather stability from -40F to +212F, also resistant to oil & fuel degradation & remains flexible in low temperatures. Fiber reinforcement braid insures minimum burst pressure of 1,000 PSI.



| Item# | Length | Fittings | Color |
|----------|--------|----------|--------|
| 77682S16 | 16' | SAE | Yellow |
| 77682S32 | 32' | SAE | Yellow |
| 76683S16 | 16' | SAE | Red |
| 76683S32 | 32' | SAE | Red |
| 77679S16 | 16' | SAE | Blue |
| 77679S32 | 32' | SAE | Blue |
| 77680S16 | 16' | SAE | Green |
| 77680S32 | 32' | SAE | Green |
| 77678S16 | 16' | SAE | Black |
| 77678S32 | 32' | SAE | Black |

| Item# | Length | Fittings | Color |
|------------|--------|---------------|--------|
| 77682SC20 | 20' | Safety | Yellow |
| 77682SC35 | 35' | Safety | Yellow |
| 77682SCY20 | 20' | Safety/Relief | Yellow |
| 77682SCY35 | 35' | Safety/Relief | Yellow |
| 76683SC20 | 20' | Safety | Red |
| 76683SC35 | 35' | Safety | Red |
| 76683SCY20 | 20' | Safety/Relief | Red |
| 76683SCY35 | 35' | Safety/Relief | Red |
| 77679SC20 | 20' | Safety | Blue |
| 77679SC35 | 35' | Safety | Blue |
| 77679SCY20 | 20' | Safety/Relief | Blue |
| 77679SCY35 | 35' | Safety/Relief | Blue |
| 77680SC20 | 20' | Safety | Green |
| 77680SC35 | 35' | Safety | Green |
| 77680SCY20 | 20' | Safety/Relief | Green |
| 77680SCY35 | 35' | Safety/Relief | Green |
| 77678SC20 | 20' | Safety | Black |
| 77678SC35 | 35' | Safety | Black |
| 77678SCY20 | 20' | Safety/Relief | Black |
| 77678SCY35 | 35' | Safety/Relief | Black |



Part# DVLB-1SC

Inline control, shut-off valves. Necessary for times when you want to disconnect a hose without deflating the bag. Over-inflation protection is usually not needed if pressure from the source is at or below maximum bag pressure 115PSI (8 bar).



Part# 60844EULRV

Safety pressure relief valves will provide an extra measure of protection against runaway over pressurization caused by a high pressure regulator failure when the ultimate source pressure is higher than 115 PSI.