

# ARV® Series

## Auto Release Venturi with Manual Override

Destaco has improved upon their already extremely successful ARV® by adding the manual override feature to allow easy fine tune adjustment of vacuum cup position.

ARV® - the original, patented Auto-Release Venturi offers users the fastest vacuum and blow-off in the industry with single line operation, integrated blow-off and built-in exhaust silencer. Mounting options include right or left hand apple core mounting or no apple core mount for use with Destacos’ spring cup mounts.

The ARV® Series is also available in a block style for remote mounting and each mount can be ordered with Imperial or Metric ports.



**ARV®**

### Product Highlights/Options












- Single air line operation
- No air needed for blow-off
- Comprehensive mount offering
- Integrated silencer
- Maintenance free operation



PICK AND PLACE

US PAT No: 7,540,309 - 7,681,603 - 7,950,422

### Features, Markets and Applications

 SPEED	<ul style="list-style-type: none"><li>• 75% faster than the standard venturi blow-off</li><li>• 150 plus cycles per minute</li><li>• Increased line speeds and parts per hour</li></ul>	 TRANSPORTATION	 PRESSROOM
 PERFORMANCE	<ul style="list-style-type: none"><li>• 60% less air consumption</li><li>• Only need ½ the air lines and fittings</li><li>• Quiet operation, Less than 70dB</li></ul>	 INDUSTRIAL	 ASSEMBLY
 INTERCHANGEABLE	<ul style="list-style-type: none"><li>• Adaptable to existing product</li><li>• Designed for easy “INSTALLATION”</li><li>• Configurations accommodate any cup location</li></ul>	 AEROSPACE	 WELDING
		 CONSUMER GOODS	 FIXTURE/TESTING

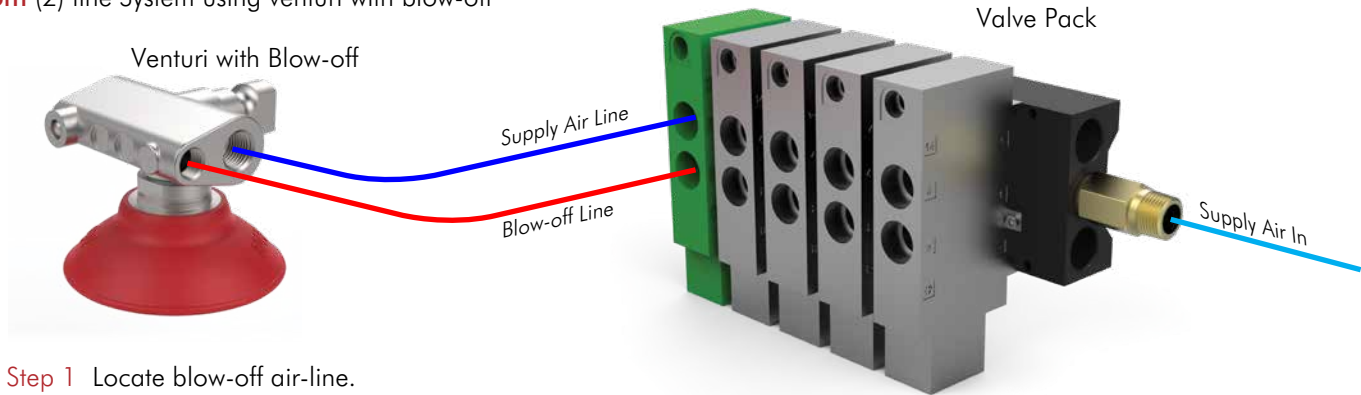
# ARV® SERIES

Auto Release Venturi with Manual Override



## 5 Easy Steps to Convert from Existing Vacuum Systems

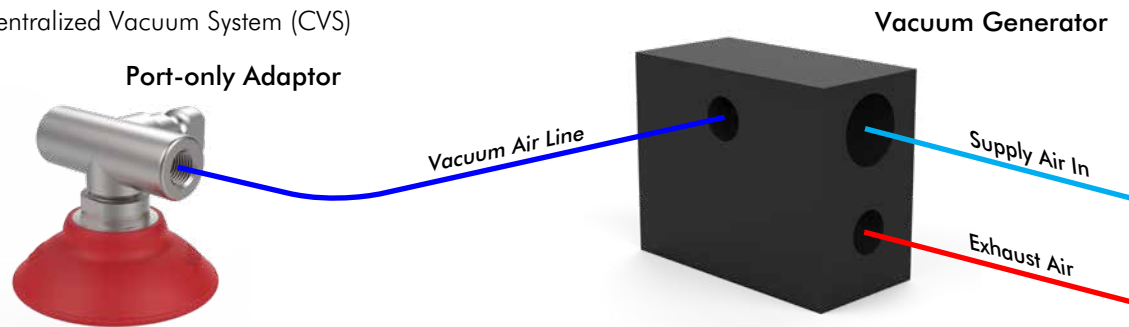
**From** (2) line System using venturi with blow-off



- Step 1 Locate blow-off air-line.
- Step 2 Disconnect/remove air line and plug blow-off port.
- Step 3 Disconnect/remove existing venturi and replace with ARV®.
- Step 4 Reconnect air line to ARV®.
- Step 5 Verify operation.

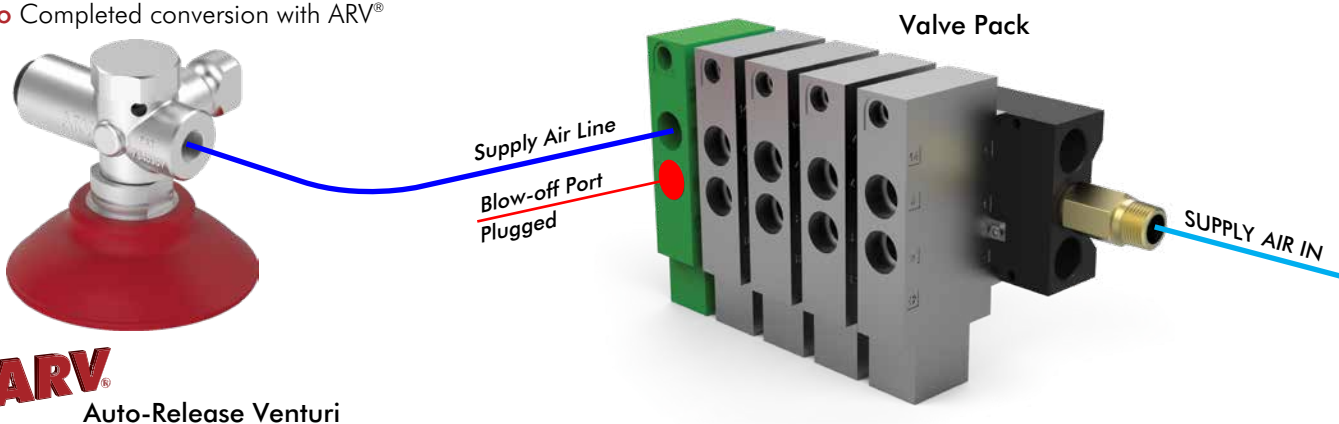
OR

**From** Centralized Vacuum System (CVS)



- Step 1 Locate CVS/vacuum generator and remove from system
- Step 2 Install (2) Position Valve, connect to air supply and plug blow-off port
- Step 3 Disconnect/remove existing port-only adaptor and replace with ARV®
- Step 4 Reconnect air line to ARV®
- Step 5 Verify operation

**To** Completed conversion with ARV®



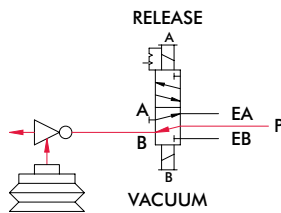
**ARV®**

Auto-Release Venturi



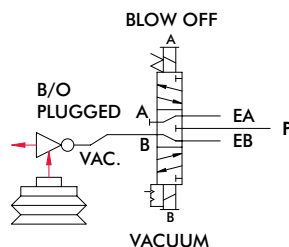
### Operation for New Installations

#### For use with Vacuum Switch



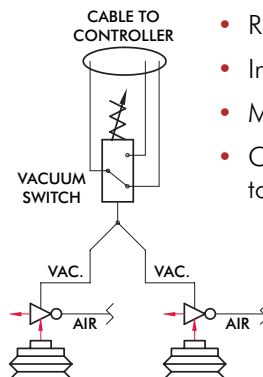
- Valves: (2) Position, Double Solenoid, Detented.  
(CV rating of at least 1 recommended)
- Airline: (1) Line for Vacuum and Release
- Operations: Energize Sol B: Air in vacuum port. Generates vacuum.  
(Holds position in case of power loss)  
Energize Sol A: Air off. Release panel instantly

#### For use with Vacuum Switch



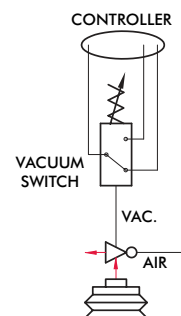
- Valves: (3) Position, Open Center, Double Solenoid,  
Side B: Detented, Side A: Spring Return
- Airline: (1) Line for Vacuum (ARV: Vacuum and Release)  
(1) Line for Blow-Off (Plug with ARV®)
- Connection: Port A: Plugged\*  
Port B: Air in (to Venturi)
- Operations: Energize Sol B: Air in (Venturi port), Generates vacuum  
(Holds position in case of power loss)  
Energize Sol A: Air stopped, Release panel instantly  
De-Energize Sol A: All air off, Valve Centers  
(\*)For ARV®: plug port A line on tool side of Quick Disconnect

#### Sensor Mounted Remotely



- Remove M5 Plug
- Install air fitting in M5 port
- Mount sensor to automation
- Connect vacuum line from M5 fitting to sensor

#### Sensor Mounted to ARV®



- Remove M5 Plug
- Install sensor in M5 port
- Connect Electric cable to controller



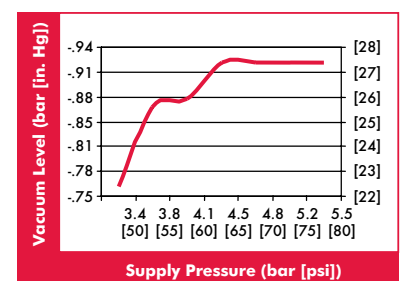
Remove plug for Vacuum Switch user

#### Notes

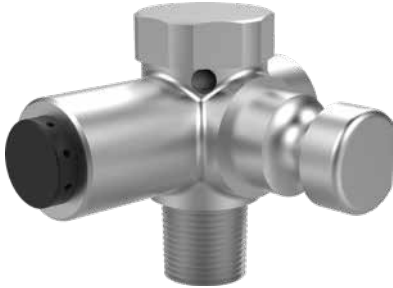
- When sensing from (2) ARV® to a single sensor, both vacuum lines should be equal in length.
- Smaller Diameter/Shorter Length vacuum lines give faster response.
- Choose the cup location(s) that could best determine part present/not present
- Maximum (2) cups per vacuum sensor

#### ARV® Series Specifications:

Specifications @ 4 bar [60psi]:  
Speed to Vacuum: **0.2-0.3 seconds**  
Speed to Release: **0.02 seconds**  
Air Consumption:  
Vacuum: **40 l/m [1.4 scfm]**  
Blow-off: **0**  
Noise Level (At one meter): **68dBA**  
Material: **Aluminum**



**ARV® Auto-Release-Venturi Available Models**



Left Hand Apple Core  
CPI-VSA-ARVL-750-(X)  
114g [0.25lb]



Right Hand Apple Core  
CPI-VSA-ARVR-750-(X)  
114g [0.25lb]



Without Apple Core  
CPI-VSA-ARVR-000-(X)  
86g [0.19lb]



RH/LH Spherical Ball  
CPI-VSA-ARV(R/L)-B112-(X)  
126g [0.28lb]  
CPI-VSA-ARV(R/L)-B32-(X)  
134g [0.30lb]



Block Style  
CPI-VSA-ARVR-312-(X)  
104g [0.23lb]



SCARA Block Style  
CPI-VSA-ARVS-5-U18  
98g [0.22lb]  
Also compatible with  
**DIRECTCONNECT™**

US PAT No: 7,540,309 - 7,681,603 - 7,950,422



(X)  
**Mounting/Vacuum Thread**  
**U38** = 3/8" NPT Male  
**G38** = 3/8" G Male



**Vacuum Sensor  
Option**  
Add "-VS" to end of  
"ARV" order code



Dimensions and technical information are subject to change without notice.

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