



# Pneumatic Air Preparation - ARV Series Manual Shut-off Pressure Relief Valves



**ARV-21**

**ARV-32**

**ARV-44**

NITRA® pneumatic manual shut-off pressure relief valves are available with 1/8", 1/4", 3/8" or 1/2" female port sizes to meet a broad range of pneumatic air supply applications. The three-way, two-position (3 threaded ports) design is used to shut off upstream pressure and relieve downstream pressure. The manually rotated knob can be locked out with the included padlock.

Provided with a mounting bracket for stand-alone applications, the modular design also enables easy field assembly with NITRA pneumatic filters, regulators and lubricators (using modular assembly brackets purchased separately).

## Features

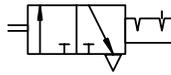
- 1/8", 1/4", 3/8", and 1/2" NPT female port sizes
- Three-way, two-position (3 threaded ports) design is used to shut off upstream pressure and relieve down-stream pressure
- Manually rotated knob can be locked out with the provided padlock
- Mounting bracket provided for stand-alone applications
- Modular design enables easy field assembly with NITRA filters, regulators, lubricators and combination filter regulators
- 2 year warranty



Mounting bracket included.



Modular Assembly Example



Manual Shut-off Relief Valve



See [www.AutomationDirect.com](http://www.AutomationDirect.com) for a wide variety of fitting options

ARV Series Valves											
Part No.	Price	Weight (lbs)	Port Size	Fluid	Acting Type	Valve Type	Temperature	Operating Pressure	Maximum Pressure	Proof Pressure	Operation Angle
ARV-21	\$38.50	0.6	1/8"	Air	Manual	3 way 2 position (3 threaded ports)	-5~60°C (23~140°F)	20~130psi (0.15~0.90 MPa) (1.5~9.0 bar)	130psi (0.90MPa) (9.0 bar)	215psi (1.5MPa) (15 bar)	90°
ARV-22	\$38.50	0.6	1/4"								
ARV-32	\$43.50	1.3	1/4"								
ARV-33	\$43.50	1.3	3/8"								
ARV-44	\$57.00	2.1	1/2"								

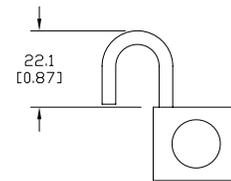
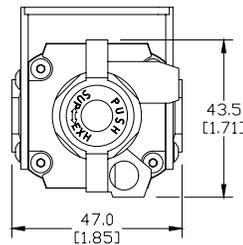
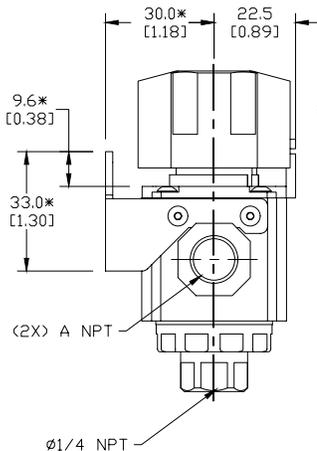
\*MOUNTING BRACKET INSTALLATION OPTIONAL

## Dimensions

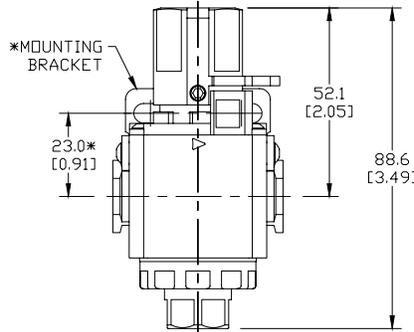
mm [inches]

ARV-2x

PART NO.	A NPT
ARV-21	1/8
ARV-22	1/4



Note: lock included with valve



Note: Unit dimensions are the same for listed models, port NPT varies based on model.

See our Web site [www.AutomationDirect.com](http://www.AutomationDirect.com) for complete Engineering drawings.



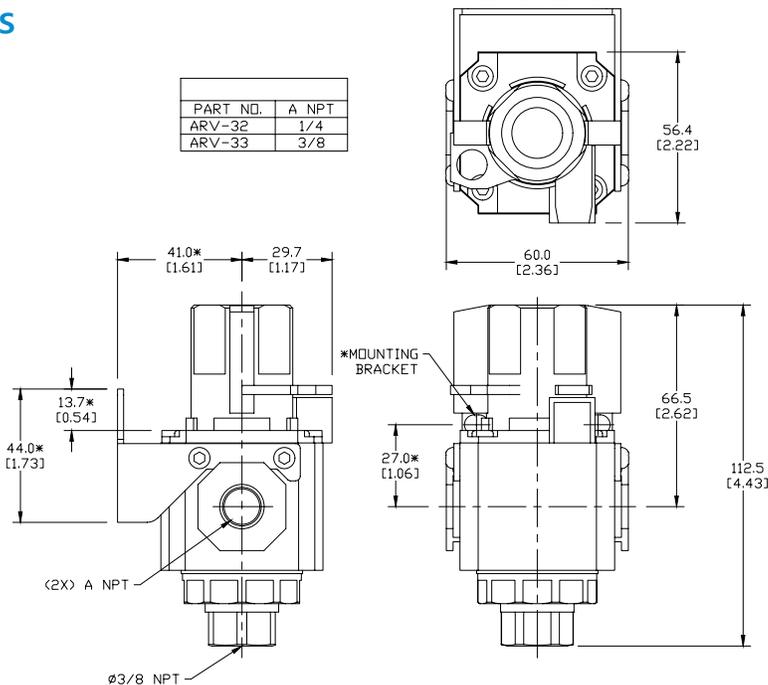
# Pneumatic Air Preparation - ARV Series Manual Shut-off Pressure Relief Valves

## Dimensions

mm [inches]

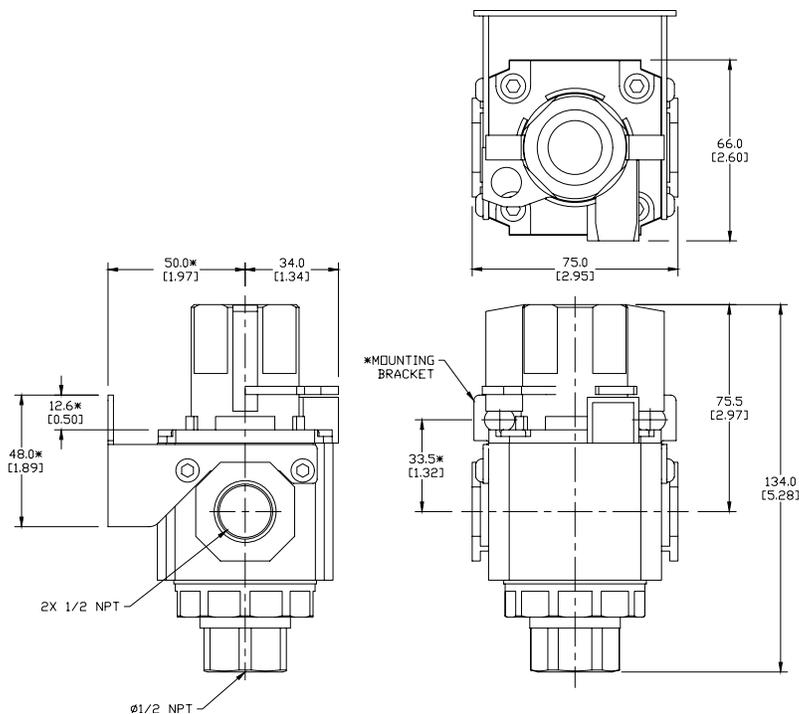
### ARV-3x

\*MOUNTING BRACKET INSTALLATION OPTIONAL



### ARV-4x

\*MOUNTING BRACKET INSTALLATION OPTIONAL



*Note: Unit dimensions are the same for listed models, port NPT varies based on model. See our Web site [www.AutomationDirect.com](http://www.AutomationDirect.com) for complete Engineering drawings.*



# Pneumatic Air Preparation Accessories



**Part No. ADB-21**



**Part No. AB-4T**



**Part No. AB-4L**



**Part No. AB-4U**

Pneumatic Air Preparation Accessories			
Part No.	Price	Description	Weight (lbs)
<b><u>ADB-21</u></b>	\$19.50	NITRA pneumatic distribution block, 1/8in female NPT inlet(s), (3) 1/8in female NPT outlet(s). For use with Ax-21 series air prep components.	0.1
<b><u>ADB-22</u></b>	\$19.50	NITRA pneumatic distribution block, 1/4in female NPT inlet(s), (3) 1/4in female NPT outlet(s). For use with Ax-22 series air prep components.	0.1
<b><u>ADB-32</u></b>	\$28.00	NITRA pneumatic distribution block, 1/4in female NPT inlet(s), (3) 1/4in female NPT outlet(s). For use with Ax-32 series air prep components.	0.2
<b><u>ADB-33</u></b>	\$28.00	NITRA pneumatic distribution block, 3/8in female NPT inlet(s), (3) 3/8in female NPT outlet(s). For use with Ax-33 series air prep components.	0.2
<b><u>ADB-44</u></b>	\$29.50	NITRA pneumatic distribution block, 1/2in female NPT inlet(s), (3) 1/2in female NPT outlet(s). For use with Ax-44 series air prep components.	0.4
<b><u>AB-2T</u></b>	\$18.00	NITRA modular T-bracket, for use with Ax-2 series air prep components.	0.2
<b><u>AB-2L</u></b>	\$18.00	NITRA modular L-bracket, for use with Ax-2 series air prep components.	0.2
<b><u>AB-2U</u></b>	\$18.00	NITRA modular U-bracket, for use with Ax-2 series air prep components.	0.1
<b><u>AB-3T</u></b>	\$19.50	NITRA modular T-bracket, for use with Ax-3 series air prep components.	0.3
<b><u>AB-3L</u></b>	\$19.50	NITRA modular L-bracket, for use with Ax-3 series air prep components.	0.3
<b><u>AB-3U</u></b>	\$19.50	NITRA modular U-bracket, for use with Ax-3 series air prep components.	0.2
<b><u>AB-4T</u></b>	\$24.00	NITRA modular T-bracket, for use with Ax-4 series air prep components.	0.5
<b><u>AB-4L</u></b>	\$24.00	NITRA modular L-bracket, for use with Ax-4 series air prep components.	0.5
<b><u>AB-4U</u></b>	\$24.00	NITRA modular U-bracket, for use with Ax-4 series air prep components.	0.4
<b><u>AB-6T</u></b>	\$35.00	NITRA modular T-bracket, for use with Ax-6 series air prep components.	1.3
<b><u>AB-6L</u></b>	\$33.00	NITRA modular L-bracket, for use with Ax-6 series air prep components.	1.2
<b><u>AB-6U</u></b>	\$31.00	NITRA modular U-bracket, for use with Ax-6 series air prep components.	0.8



# Pneumatic Air Preparation Accessories



Part No. [AFE2-43](#)



Part No. [AFE2-41](#)



Part No. [AFE-24](#)



Part No. [AFE-35](#)

Pneumatic Air Preparation Accessories			
Part No.	Price	Description	Weight (lbs)
<b>NITRA Gen 2 Particulate Filters</b>			
<a href="#"><u>AFE2-23</u></a>	\$1.75	NITRA particulate filter element, replacement, 40 micron particles, high-density polyethylene (HDPE). For use with AF-2 series filters or AFR-2 series filter regulators.	0.01
<a href="#"><u>AFE2-33</u></a>	\$3.25	NITRA particulate filter element, replacement, 40 micron particles, high-density polyethylene (HDPE). For use with AF-3 series filters or AFR-3 series filter regulators.	0.01
<a href="#"><u>AFE2-43</u></a>	\$4.75	NITRA particulate filter element, replacement, 40 micron particles, high-density polyethylene (HDPE). For use with AF-4 series filters or AFR-4 series filter regulators.	0.01
<a href="#"><u>AFE2-63</u></a>	\$12.00	NITRA particulate filter element, replacement, 40 micron particles, high-density polyethylene (HDPE). For use with AF-6 series filters or AFR-6 series filter regulators.	0.04
<a href="#"><u>AFE2-21</u></a>	\$1.75	NITRA particulate filter element, replacement, 5 micron particles, high-density polyethylene (HDPE). For use with AF-2 series filters or AFR-2 series filter regulators.	0.01
<a href="#"><u>AFE2-31</u></a>	\$3.25	NITRA particulate filter element, replacement, 5 micron particles, high-density polyethylene (HDPE). For use with AF-3 series filters or AFR-3 series filter regulators.	0.01
<a href="#"><u>AFE2-41</u></a>	\$4.75	NITRA particulate filter element, replacement, 5 micron particles, high-density polyethylene (HDPE). For use with AF-4 series filters or AFR-4 series filter regulators.	0.01
<a href="#"><u>AFE2-61</u></a>	\$12.00	NITRA particulate filter element, replacement, 5 micron particles, high-density polyethylene (HDPE). For use with AF-6 series filters or AFR-6 series filter regulators.	0.04
<b>NITRA Coalescing Filters</b>			
<a href="#"><u>AFE-24</u></a>	\$22.50	NITRA coalescing oil removal filter element, replacement, 0.3 micron particles, borosilicate glass microfiber. For use with AC-2 series coalescing filters.	0.05
<a href="#"><u>AFE-34</u></a>	\$28.00	NITRA coalescing oil removal filter element, replacement, 0.3 micron particles, borosilicate glass microfiber. For use with AC-3 series coalescing filters.	0.05
<a href="#"><u>AFE-44</u></a>	\$44.50	NITRA coalescing oil removal filter element, replacement, 0.3 micron particles, borosilicate glass microfiber. For use with AC-4 series coalescing filters.	0.1
<a href="#"><u>AFE-25</u></a>	\$22.50	NITRA coalescing oil removal filter element, replacement, 0.01 micron particles, borosilicate glass microfiber. For use with AC-2 series coalescing filters.	0.04
<a href="#"><u>AFE-35</u></a>	\$28.00	NITRA coalescing oil removal filter element, replacement, 0.01 micron particles, borosilicate glass microfiber. For use with AC-3 series coalescing filters.	0.05
<a href="#"><u>AFE-45</u></a>	\$44.50	NITRA coalescing oil removal filter element, replacement, 0.01 micron particles, borosilicate glass microfiber. For use with AC-4 series coalescing filters.	0.1



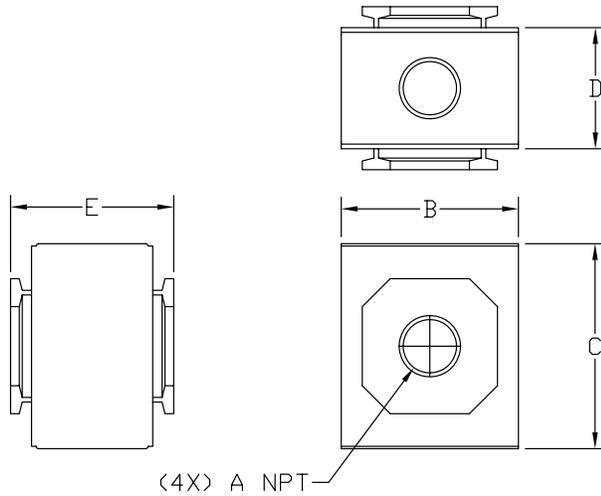
# Pneumatic Air Preparation Accessories

## Dimensions

mm [inches]

**ADB-x**

PART NO.	A NPT	DIM B	DIM C	DIM D	DIM E
ADB-21	1/8	30.0 [1.18]	36.0 [1.42]	19.5 [0.77]	28.5 [1.12]
ADB-22	1/4	30.0 [1.18]	36.0 [1.42]	19.5 [0.77]	28.5 [1.12]
ADB-32	1/4	38.0 [1.50]	44.0 [1.73]	26.0 [1.02]	35.0 [1.38]
ADB-33	3/8	38.0 [1.50]	44.0 [1.73]	26.0 [1.02]	35.0 [1.38]
ADB-44	1/2	52.0 [2.05]	52.0 [2.05]	30.0 [1.18]	42.0 [1.65]



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