



# Pneumatic Air Preparation - AR2 Series Regulators



Modular Assembly Example



AR2-663



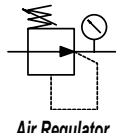
AR2-323



AR2-213



Mounting bracket included.



Air Regulator

NITRA® pneumatic air pressure regulators are available with 1/8", 1/4", 3/8", 1/2", 3/4" or 1" NPT female port sizes and adjustable pressure ranges of 7-130 psi or 7-60 psi to meet a broad range of pneumatic air supply pressure regulation applications. These regulators feature a locking pressure adjustment knob and integral pressure gauge. The regulators will relieve downstream pressure if the setpoint is reduced.

Regulators are provided with a mounting bracket for stand-alone applications. The modular design also enables easy field assembly for combining with NITRA pneumatic filters and lubricators (using modular assembly brackets purchased separately). The standard mounting orientation is with the adjustment knob up, however, they can be mounted with the adjustment knob down by moving the pressure gauge to the opposite side to maintain left-to-right flow direction.

## Features

- 1/8", 1/4", 3/8", 1/2", 3/4" and 1" NPT female port sizes
- Adjustable ranges of 7-130 psi or 7-60 psi
- Locking pressure adjustment knob
- Integral pressure gauge
- Mounting bracket provided for stand-alone applications
- Modular design enables easy field assembly for combining with NITRA filters and lubricators
- 2 year warranty



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

AR2 Series Regulators									
Part No.	Price	Weight (lbs)	Port Size (FNPT)	Fluid	Temperature	Operating Pressure	Maximum Pressure	Proof Pressure	Drawing Link
<a href="#">AR2-212</a>	\$39.50	0.53	1/8"	Air	-20°C to 70°C (-4°F to 158°F)	7~60psi (0.05~0.41MPa) (0.5~4.1 bar)	60psi (0.41MPa) (4.1 bar)	215psi (1.5MPa) (15 bar)	<a href="#">PDF</a>
<a href="#">AR2-213</a>	\$39.50	0.54				7~130psi (0.05~0.90MPa) (0.5~9.0 bar)	130psi (0.90MPa) (9.0 bar)		<a href="#">PDF</a>
<a href="#">AR2-222</a>	\$39.50	0.53	1/4"			7~60psi (0.05~0.41MPa) (0.5~4.1 bar)	60psi (0.41MPa) (4.1 bar)		<a href="#">PDF</a>
<a href="#">AR2-223</a>	\$39.50	0.53				7~130psi (0.05~0.90MPa) (0.5~9.0 bar)	130psi (0.90MPa) (9.0 bar)		<a href="#">PDF</a>
<a href="#">AR2-322</a>	\$48.50	0.84				7~60psi (0.05~0.41MPa) (0.5~4.1 bar)	60psi (0.41MPa) (4.1 bar)		<a href="#">PDF</a>
<a href="#">AR2-323</a>	\$48.50	0.85				7~130psi (0.05~0.90MPa) (0.5~9.0 bar)	130psi (0.90MPa) (9.0 bar)		<a href="#">PDF</a>
<a href="#">AR2-332</a>	\$48.50	0.81				7~60psi (0.05~0.41MPa) (0.5~4.1 bar)	60psi (0.41MPa) (4.1 bar)		<a href="#">PDF</a>
<a href="#">AR2-333</a>	\$48.50	0.83	3/8"			7~130psi (0.05~0.90MPa) (0.5~9.0 bar)	130psi (0.90MPa) (9.0 bar)		<a href="#">PDF</a>
<a href="#">AR2-443</a>	\$69.00	1.58							1/2"
<a href="#">AR2-663</a>	\$113.00	4.13	3/4"						<a href="#">PDF</a>
<a href="#">AR2-683</a>	\$113.00	4.07	1"						<a href="#">PDF</a>

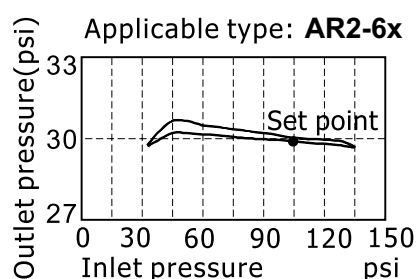
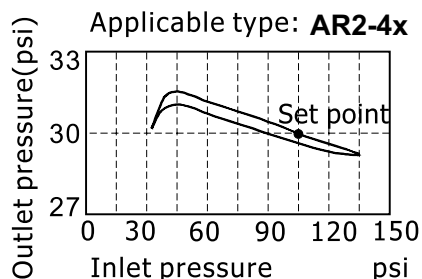
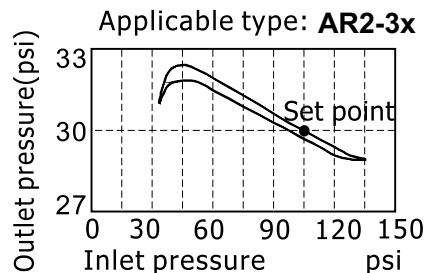
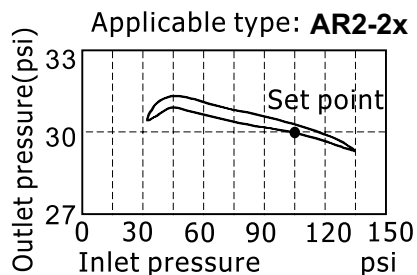
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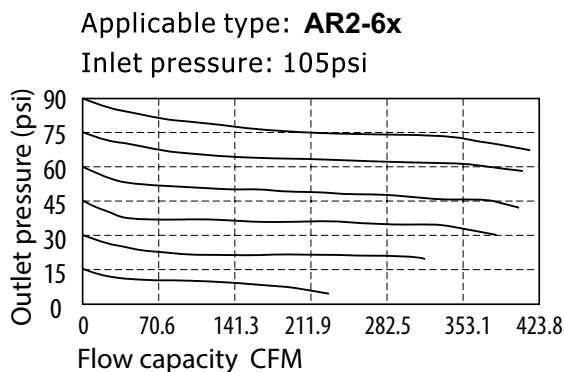
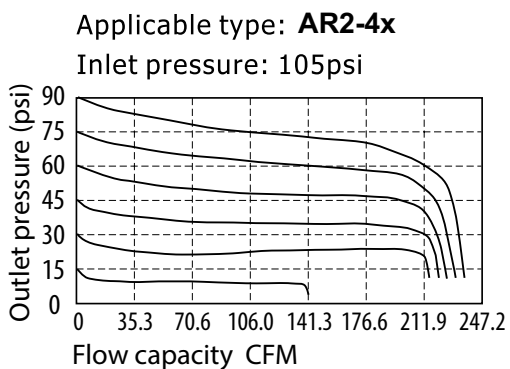
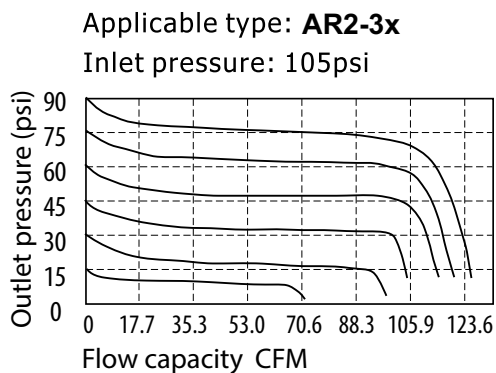
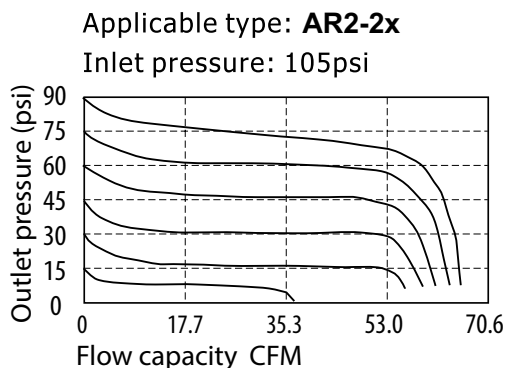
# Pneumatic Air Preparation - AR2 Series Regulators

## Performance Charts

### Pressure chart



### Flow chart





# GEN 2 Pneumatic Air Prep Accessories



**Part No. [AGP2-21](#)**



**Part No. [AGP2-31](#)**



**Part No. [AGP2-42](#)**

GEN 2 Pneumatic Air Preparation Accessories				
Part No.	Price	Description	Weight (lbs)	Drawing Link
<a href="#">AGP2-21</a>	\$5.50	NITRA pneumatic gauge port adapter plate, 1/8in female NPT connection(s), aluminum. For use with Ax-2 series air prep components. (3) o-rings included.	0.02	<a href="#">PDF</a>
<a href="#">AGP2-31</a>	\$7.00	NITRA pneumatic gauge port adapter plate, 1/8in female NPT connection(s), aluminum. For use with Ax-3 series air prep components. (3) o-rings included.	0.04	<a href="#">PDF</a>
<a href="#">AGP2-42</a>	\$7.75	NITRA pneumatic gauge port adapter plate, 1/4in female NPT connection(s), aluminum. For use with Ax-4 and Ax-6 series air prep components. (3) o-rings included.	0.04	<a href="#">PDF</a>



# 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)
<a href="#">ADB-21</a>	\$19.00	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
<a href="#">ADB-22</a>	\$19.00	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
<a href="#">ADB-32</a>	\$26.50	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
<a href="#">ADB-33</a>	\$26.50	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
<a href="#">ADB-44</a>	\$28.50	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
<a href="#">AB-2T</a>	\$17.50	NITRA modular T-bracket, for use with Ax-2 series air prep components.	0.2
<a href="#">AB-2L</a>	\$17.50	NITRA modular L-bracket, for use with Ax-2 series air prep components.	0.2
<a href="#">AB-2U</a>	\$17.50	NITRA modular U-bracket, for use with Ax-2 series air prep components.	0.1
<a href="#">AB-3T</a>	\$19.00	NITRA modular T-bracket, for use with Ax-3 series air prep components.	0.3
<a href="#">AB-3L</a>	\$19.00	NITRA modular L-bracket, for use with Ax-3 series air prep components.	0.3
<a href="#">AB-3U</a>	\$19.00	NITRA modular U-bracket, for use with Ax-3 series air prep components.	0.2
<a href="#">AB-4T</a>	\$23.00	NITRA modular T-bracket, for use with Ax-4 series air prep components.	0.5
<a href="#">AB-4L</a>	\$23.00	NITRA modular L-bracket, for use with Ax-4 series air prep components.	0.5
<a href="#">AB-4U</a>	\$23.00	NITRA modular U-bracket, for use with Ax-4 series air prep components.	0.4
<a href="#">AB-6T</a>	\$33.50	NITRA modular T-bracket, for use with Ax-6 series air prep components.	1.3
<a href="#">AB-6L</a>	\$31.50	NITRA modular L-bracket, for use with Ax-6 series air prep components.	1.2
<a href="#">AB-6U</a>	\$30.00	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="#">AFE2-23</a>	\$1.50	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="#">AFE2-33</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="#">AFE2-43</a>	\$4.50	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="#">AFE2-63</a>	\$11.50	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="#">AFE2-21</a>	\$1.50	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="#">AFE2-31</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="#">AFE2-41</a>	\$4.50	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="#">AFE2-61</a>	\$11.50	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="#">AFE-24</a>	\$21.50	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="#">AFE-34</a>	\$26.50	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="#">AFE-44</a>	\$42.50	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="#">AFE-25</a>	\$21.50	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="#">AFE-35</a>	\$26.50	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="#">AFE-45</a>	\$42.50	NITRA coalescing oil removal filter element, replacement, 0.01 micron particles, borosilicate glass microfiber. For use with AC-4 series coalescing filters.	0.1



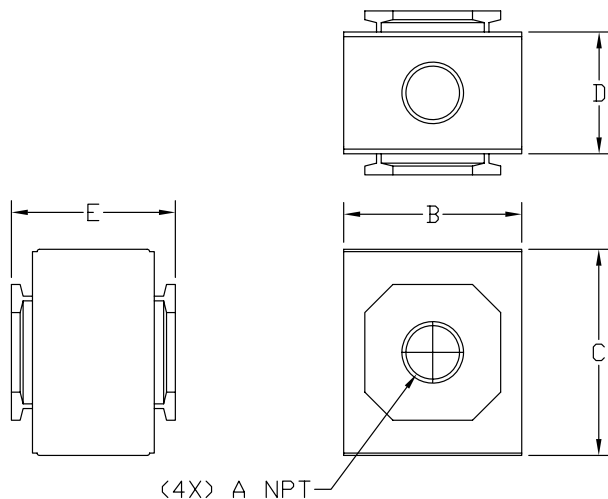
# Pneumatic Air Preparation Accessories

## 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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# Pneumatic Air Preparation Accessories

## Dimensions

mm [inches]

### AB-xT

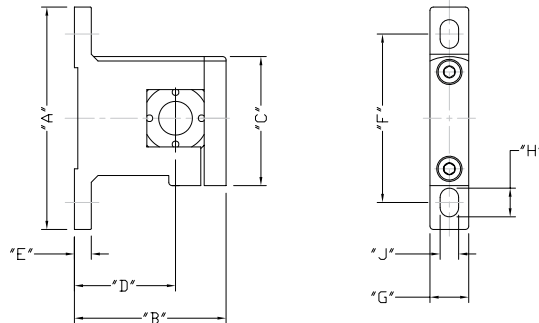


TABLE 1

PART NUMBER	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"	DIM "F"	DIM "G"	DIM "H"	DIM "J"
AB-2T	66.0 [2.60]	45.0 [1.77]	38.3 [1.51]	30.0 [1.18]	5.0 [0.20]	50.0 [1.97]	11.5 [0.45]	8.5 [0.33]	5.5 [0.22]
AB-3T	88.0 [3.46]	60.5 [2.38]	49.3 [1.94]	41.5 [1.63]	7.0 [0.28]	70.0 [2.76]	12.5 [0.49]	9.0 [0.35]	6.5 [0.26]
AB-4T	104.0 [4.09]	76.0 [2.99]	58.5 [2.30]	50.0 [1.97]	7.0 [0.28]	80.0 [3.15]	15.5 [0.61]	12.0 [0.47]	8.6 [0.34]
AB-6T	128.0 [5.04]	104.0 [4.09]	79.5 [3.13]	70.0 [2.76]	10.0 [0.39]	100.0 [3.94]	19.5 [0.77]	16.0 [0.63]	11.0 [0.43]

### AB-xL

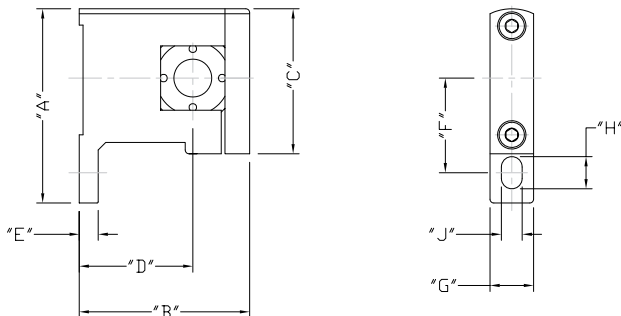


TABLE 1

PART NUMBER	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"	DIM "F"	DIM "G"	DIM "H"	DIM "J"
AB-2L	51.3 [2.02]	45.0 [1.77]	38.3 [1.51]	30.0 [1.18]	5.0 [0.20]	25.0 [0.98]	11.5 [0.45]	8.5 [0.33]	5.5 [0.22]
AB-3L	68.6 [2.70]	60.5 [2.38]	49.3 [1.94]	41.5 [1.63]	7.0 [0.28]	35.0 [1.38]	12.5 [0.49]	9.0 [0.35]	6.5 [0.26]
AB-4L	79.5 [3.13]	76.0 [2.99]	58.5 [2.30]	50.0 [1.97]	7.0 [0.28]	40.0 [1.57]	15.5 [0.61]	12.0 [0.47]	8.6 [0.34]
AB-6L	103.5 [4.07]	104.0 [4.09]	79.5 [3.13]	70.0 [2.76]	10.0 [0.39]	50.0 [1.97]	19.5 [0.77]	16.0 [0.63]	11.0 [0.43]

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# Pneumatic Air Preparation Accessories

## Dimensions

mm [inches]

**AB-xU**

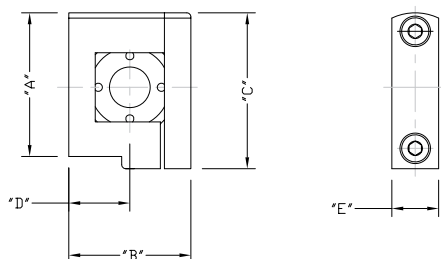


TABLE 1

PART NUMBER	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"
AB-2U	35.5 [1.39]	30.0 [1.18]	38.3 [1.51]	15.0 [0.59]	11.5 [0.45]
AB-3U	43.8 [1.72]	38.0 [1.50]	49.3 [1.94]	19.5 [0.75]	12.5 [0.49]
AB-4U	52.5 [2.07]	52.0 [2.05]	58.5 [2.30]	26.0 [1.02]	15.5 [0.61]
AB-6U	76.5 [3.01]	68.0 [2.68]	79.5 [3.13]	34.0 [1.34]	19.5 [0.77]

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