



Pneumatic Air Preparation - AF Series Filters



Modular Assembly Example

NITRA® pneumatic particulate and moisture separation air filters are available with 3/8" NPT female port sizes to meet a broad range of pneumatic air supply filtration applications. Available with either a manual, semi-automatic, or automatic drain. All-metal bowls with sight gauge are available on all sizes. Polycarbonate bowls are available on 3xx size, with metal bowl guards included on 3xx size. Replaceable 40-micron filter elements are standard. An optional 5-micron filter element (purchased separately and customer installable) is available when stricter filtration is required. Provided with a mounting bracket for stand-alone applications, the modular design also enables easy field assembly for combining with NITRA pneumatic regulators and lubricators (using modular assembly brackets purchased separately).

Features

- 3/8" NPT female port sizes
- 40-micron replaceable filter element standard; for stricter filtration an optional 5-micron filter element purchased separately is easily customer installable
- All-metal bowls with sight gauge available on all sizes. Polycarbonate bowls available on 3xx size, with metal bowl guards included on 3xx size.
- Manual, semi-automatic and automatic drains available
- Mounting bracket provided for stand-alone applications
- Modular design enables easy field assembly for combining with NITRA regulators and lubricators
- 2-year warranty



Mounting bracket included.



Air Filter



See www.AutomationDirect.com for a wide variety of fitting options

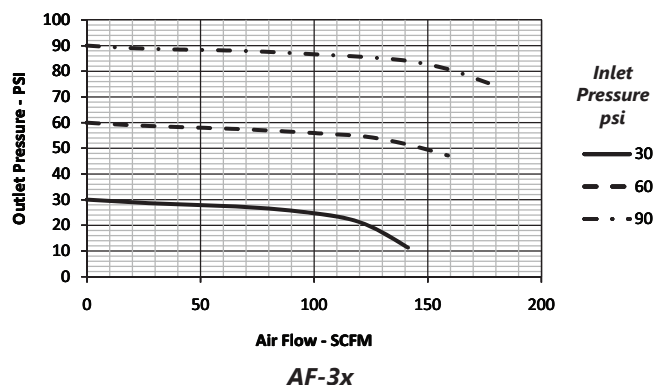


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AF Series Filters Cont.

Part No.	Price	Weight (lbs)	Port Size (FNPT)	Drain Bowl	Drain Type	Fluid	Temperature	Filtering Grade	Operating Pressure	Maximum Pressure	Proof Pressure
<u>AF-333-MD</u>		1.0	3/8"	40cc Metal with sight gauge	Manual	Air	23~140°F (-4~60°C)	40μ (5μ element can be ordered separately and field installed)	20~130psi (0.14~0.90MPa) (1.4~9.0 bar)	130psi (0.90MPa) (9.0 bar)	215psi (1.5MPa) (15 bar)

Performance Charts



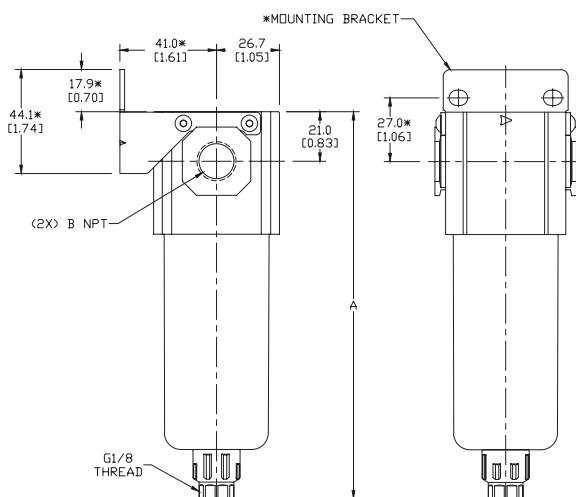
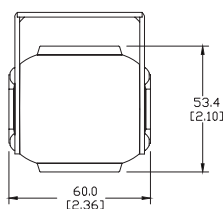
Dimensions

mm [inches]

AF-3x

*MOUNTING BRACKET INSTALLATION OPTIONAL

PART NO.	DIM A	B NPT
AF-323-A	164.0 [6.46]	
AF-323-AD	162.8 [6.41]	
AF-323-D	162.8 [6.41]	1/4
AF-323-M	164.0 [6.46]	
AF-323-MD	162.8 [6.41]	
AF-333-MD	162.8 [6.41]	3/8



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

See our Web site 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)
ADB-21		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
ADB-22		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
ADB-32		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
ADB-33		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
ADB-44		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
AB-2T		NITRA modular T-bracket, for use with Ax-2 series air prep components.	0.2
AB-2L		NITRA modular L-bracket, for use with Ax-2 series air prep components.	0.2
AB-2U		NITRA modular U-bracket, for use with Ax-2 series air prep components.	0.1
AB-3T		NITRA modular T-bracket, for use with Ax-3 series air prep components.	0.3
AB-3L		NITRA modular L-bracket, for use with Ax-3 series air prep components.	0.3
AB-3U		NITRA modular U-bracket, for use with Ax-3 series air prep components.	0.2
AB-4T		NITRA modular T-bracket, for use with Ax-4 series air prep components.	0.5
AB-4L		NITRA modular L-bracket, for use with Ax-4 series air prep components.	0.5
AB-4U		NITRA modular U-bracket, for use with Ax-4 series air prep components.	0.4
AB-6T		NITRA modular T-bracket, for use with Ax-6 series air prep components.	1.3
AB-6L		NITRA modular L-bracket, for use with Ax-6 series air prep components.	1.2
AB-6U		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)
NITRA Gen 2 Particulate Filters			
<u>AFE2-23</u>		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
<u>AFE2-33</u>		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
<u>AFE2-43</u>		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
<u>AFE2-63</u>		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
<u>AFE2-21</u>		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
<u>AFE2-31</u>		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
<u>AFE2-41</u>		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
<u>AFE2-61</u>		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
NITRA Coalescing Filters			
<u>AFE-24</u>		NITRA coalescing oil removal filter element, replacement, 0.3 micron particles, borosilicate glass microfiber. For use with AC-2 series coalescing filters.	0.05
<u>AFE-34</u>		NITRA coalescing oil removal filter element, replacement, 0.3 micron particles, borosilicate glass microfiber. For use with AC-3 series coalescing filters.	0.05
<u>AFE-44</u>		NITRA coalescing oil removal filter element, replacement, 0.3 micron particles, borosilicate glass microfiber. For use with AC-4 series coalescing filters.	0.1
<u>AFE-25</u>		NITRA coalescing oil removal filter element, replacement, 0.01 micron particles, borosilicate glass microfiber. For use with AC-2 series coalescing filters.	0.04
<u>AFE-35</u>		NITRA coalescing oil removal filter element, replacement, 0.01 micron particles, borosilicate glass microfiber. For use with AC-3 series coalescing filters.	0.05
<u>AFE-45</u>		NITRA coalescing oil removal filter element, replacement, 0.01 micron particles, borosilicate glass microfiber. For use with AC-4 series coalescing filters.	0.1



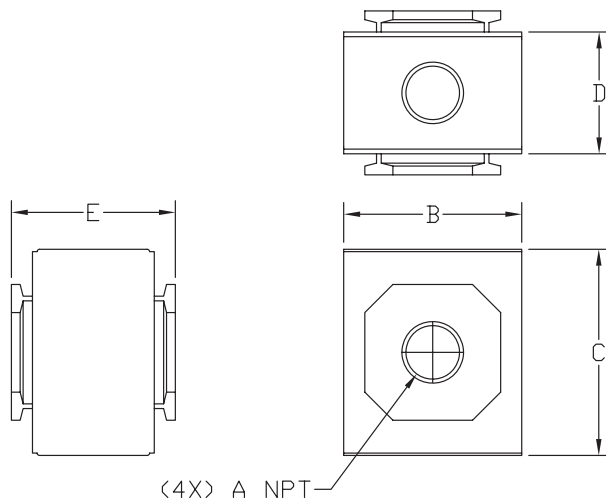
Pneumatic Air Preparation Accessories

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]



See our Web site www.AutomationDirect.com for complete Engineering drawings.



Pneumatic Air Preparation Accessories

Dimensions

mm [inches]

AB-xT

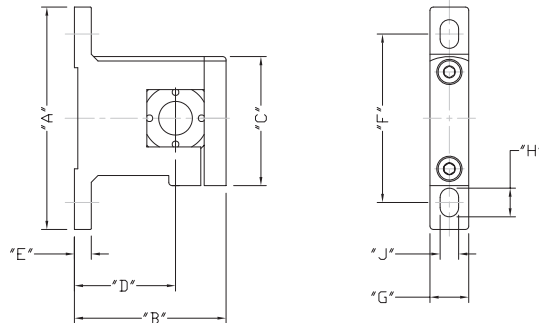


TABLE 1

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

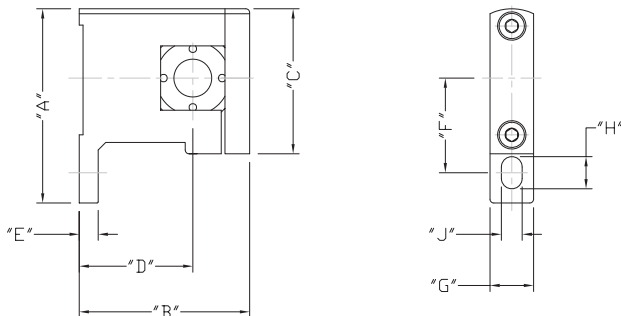


TABLE 1

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]

See our Web site www.AutomationDirect.com for complete Engineering drawings.



Pneumatic Air Preparation Accessories

Dimensions

mm [inches]

AB-xU

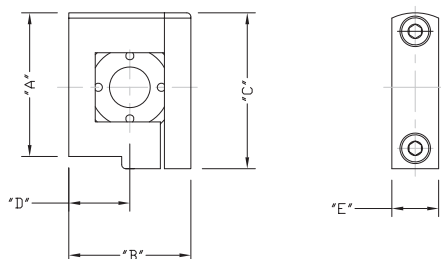


TABLE 1

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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