



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

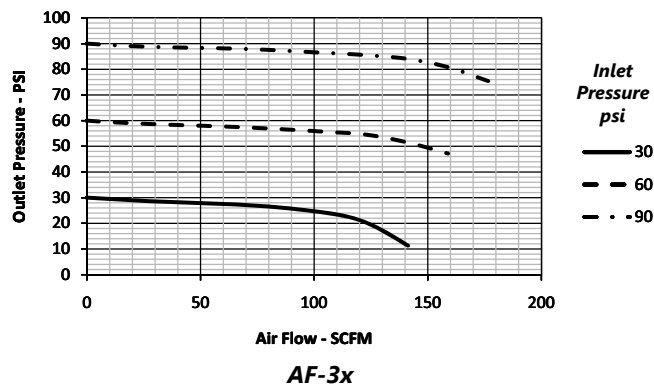


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AF Series Filters Cont.

| Part No. | Price | Weight (lbs) | Port Size (FNPT) | Drain Bowl | Drain Type | Fluid | Temperature | Filtering Grade | Operating Pressure | Maximum Pressure | Proof Pressure |
|------------------|---------|--------------|------------------|-----------------------------|------------|-------|--------------------|--|--|----------------------------|--------------------------|
| AF-333-MD | Retired | 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



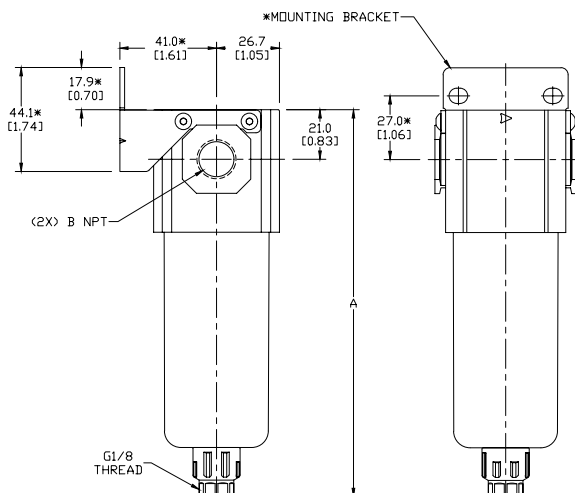
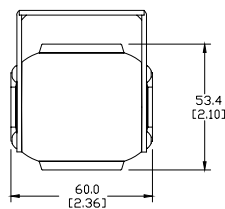
Dimensions

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 | \$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 |
| ADB-22 | \$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 |
| ADB-32 | \$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 |
| ADB-33 | \$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 |
| ADB-44 | \$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 |
| AB-2T | \$17.50 | NITRA modular T-bracket, for use with Ax-2 series air prep components. | 0.2 |
| AB-2L | \$17.50 | NITRA modular L-bracket, for use with Ax-2 series air prep components. | 0.2 |
| AB-2U | \$17.50 | NITRA modular U-bracket, for use with Ax-2 series air prep components. | 0.1 |
| AB-3T | \$19.00 | NITRA modular T-bracket, for use with Ax-3 series air prep components. | 0.3 |
| AB-3L | \$19.00 | NITRA modular L-bracket, for use with Ax-3 series air prep components. | 0.3 |
| AB-3U | \$19.00 | NITRA modular U-bracket, for use with Ax-3 series air prep components. | 0.2 |
| AB-4T | \$23.00 | NITRA modular T-bracket, for use with Ax-4 series air prep components. | 0.5 |
| AB-4L | \$23.00 | NITRA modular L-bracket, for use with Ax-4 series air prep components. | 0.5 |
| AB-4U | \$23.00 | NITRA modular U-bracket, for use with Ax-4 series air prep components. | 0.4 |
| AB-6T | \$33.50 | NITRA modular T-bracket, for use with Ax-6 series air prep components. | 1.3 |
| AB-6L | \$31.50 | NITRA modular L-bracket, for use with Ax-6 series air prep components. | 1.2 |
| AB-6U | \$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](#)

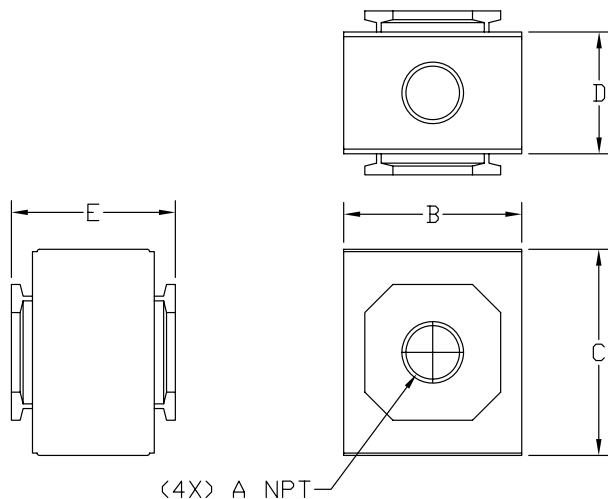


Part No. [AFE-35](#)

| Pneumatic Air Preparation Accessories | | | |
|--|---------|---|--------------|
| Part No. | Price | Description | Weight (lbs) |
| NITRA Gen 2 Particulate Filters | | | |
| AFE2-23 | \$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 |
| AFE2-33 | \$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 |
| AFE2-43 | \$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 |
| AFE2-63 | \$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 |
| AFE2-21 | \$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 |
| AFE2-31 | \$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 |
| AFE2-41 | \$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 |
| AFE2-61 | \$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 |
| NITRA Coalescing Filters | | | |
| AFE-24 | \$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 |
| AFE-34 | \$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 |
| AFE-44 | \$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 |
| AFE-25 | \$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 |
| AFE-35 | \$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 |
| AFE-45 | \$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 |

mm [inches]

| 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] |



Pneumatics - Air Prep tNAP-53



Pneumatic Air Preparation Accessories

Dimensions

mm [inches]

AB-xT

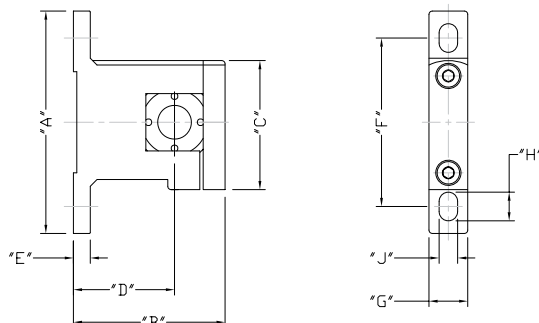


TABLE 1

| 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

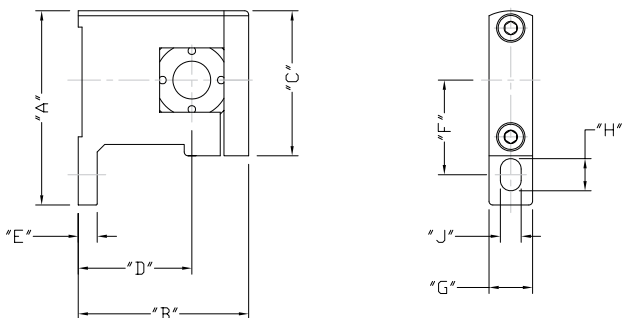


TABLE 1

| 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

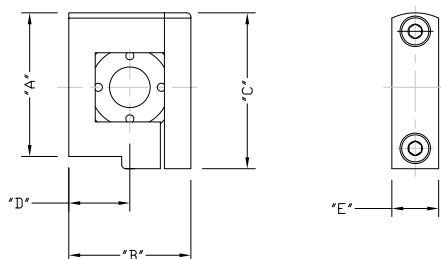


TABLE 1

| 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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