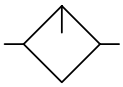
# Pneumatic Air Preparation - AL2 Series Lubricators

*Modular Assembly Example*

**AL2-66-D** **AL2-44-N** **AL2-32**

*Mounting bracket included.*



*Air Lubricator*

NITRA® pneumatic mist type air lubricators are available with 1/8", 1/4", 3/8", 1/2", 3/4" or 1" NPT female port sizes and a lubrication rate adjustment with sight gauge to meet a broad range of pneumatic air supply lubrication applications. All-metal bowls with sight gauge are available in all sizes. Polycarbonate or nylon bowls with metal bowl guards are available in 2x, 3x and 4x sizes.

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

## Features

- 1/8", 1/4", 3/8", 1/2", 3/4" and 1" NPT female port sizes
- All-metal bowls with sight gauge available on all sizes. Polycarbonate or nylon bowls with metal bowl guards available on 2x, 3x and 4x sizes.
- Adjustable lubrication rate
- Mounting bracket provided for stand-alone applications
- Modular design enables easy field assembly for combining with NITRA filters and regulators
- Lubricators can be filled while pressurized
- 2 year warranty

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

**AL2 Series Lubricators**

| Part No. | Price | Weight (lbs) | Port Size (FNPT) | Bowl | Fluid | Temperature | Operating Pressure | Maximum Pressure | Proof Pressure | Recommended Lubricant | Drawing Link |
|---|---|---|---|---|---|---|---|---|---|---|---|
| AL2-21-N | $31.50 | 0.64 | 1/8" | 36cc nylon with metal bowl guard | Air | -5°C to 70°C (23°F to 158°F) | 7~145psi (0.05~1.0MPa) (0.5~10.0 bar) | 145psi (1.0MPa) (10.0 bar) | 215psi (1.5MPa) (15 bar) | ISO VG32 or equivalent | PDF |
| AL2-21-D | $40.00 | 0.66 | | 36cc die-cast aluminum bowl w/ sight | | | | | | | PDF |
| AL2-21 | $31.50 | 0.65 | | 36cc polycarbonate with metal bowl guard | | | | | | | PDF |
| AL2-22-N | $31.50 | 0.63 | 1/4" | 36cc nylon with metal bowl guard | | | | | | | PDF |
| AL2-22-D | $40.00 | 0.65 | | 36cc die-cast aluminum bowl w/ sight | | | | | | | PDF |
| AL2-22 | $31.50 | 0.64 | | 36cc polycarbonate with metal bowl guard | | | | | | | PDF |
| AL2-32-N | $49.00 | 1.08 | | 98cc nylon with metal bowl guard | | | | | | | PDF |
| AL2-32-D | $40.00 | 1.12 | | 98cc die-cast aluminum bowl w/ sight | | | | | | | PDF |
| AL2-32 | $49.00 | 1.1 | | 98cc polycarbonate with metal bowl guard | | | | | | | PDF |
| AL2-33-N | $49.00 | 1.08 | 3/8" | 98cc nylon with metal bowl guard | | | | | | | PDF |
| AL2-33-D | $40.00 | 1.12 | | 98cc die-cast aluminum bowl w/ sight | | | | | | | PDF |
| AL2-33 | $47.50 | 1.09 | | 98cc polycarbonate with metal bowl guard | | | | | | | PDF |

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

# Pneumatic Air Preparation - AL2 Series Lubricators

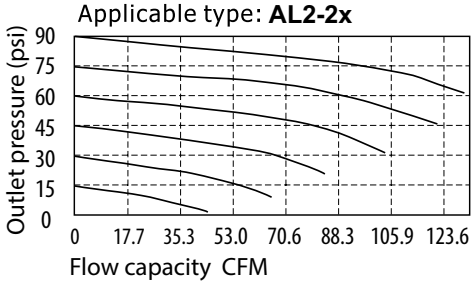
| AL2 Series Lubricators Cont. | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Part No. | Price | Weight (lbs) | Port Size | Bowl | Fluid | Temperature | Operating Pressure | Maximum Pressure | Proof Pressure | Recommended Lubricant | Drawing Link |
| AL2-44-N | $61.00 | 1.8 | 1/2" | 185cc nylon with metal bowl guard | Air | -5°C to 70°C (23°F to 158°F | 7~145psi (0.05~1.0MPa) (0.5~10.0 bar) | 145psi (1.0MPa) (10.0 bar) | 215psi (1.5MPa) (15 bar) | ISO VG32 or equivalent | PDF |
| AL2-44-D | $64.00 | 1.83 | | 185cc die-cast aluminum bowl w/ sight | | | | | | | PDF |
| AL2-44 | $69.00 | 1.82 | | 185cc polycarbonate with metal bowl guard | | | | | | | PDF |
| AL2-66-D | $112.00 | 3.31 | 3/4" | 410cc die-cast aluminum bowl w/ sigh | | | | | | | PDF |
| AL2-68-D | $112.00 | 3.27 | 1" | 410cc die-cast aluminum bowl w/ sigh | | | | | | | PDF |

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

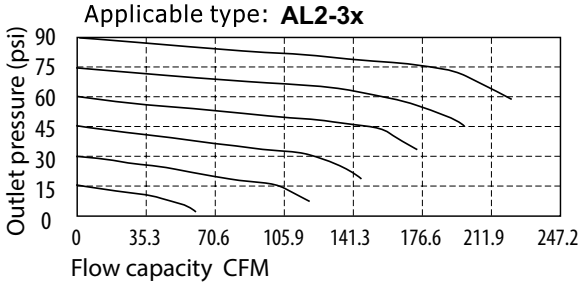
## Performance Charts

### Flow chart

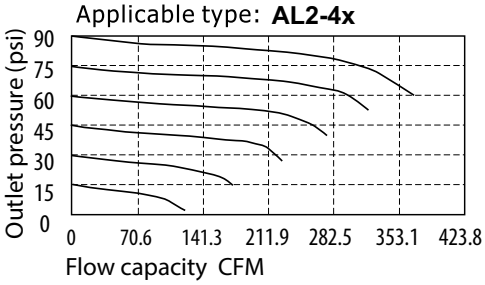
Applicable type: **AL2-2x**



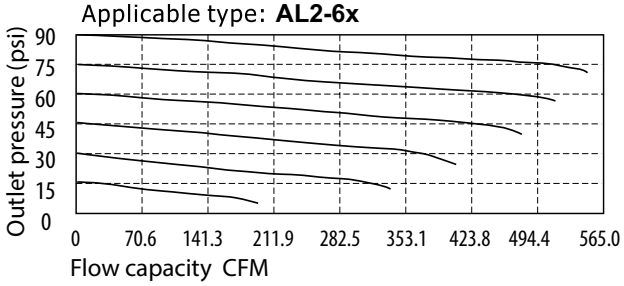

Applicable type: **AL2-3x**




Applicable type: **AL2-4x**




Applicable type: **AL2-6x**

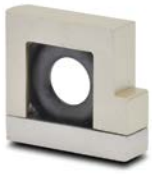


# Pneumatic Air Preparation Accessories

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 | $18.00 | 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 | $18.00 | 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 | $25.50 | 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 | $25.50 | 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 | $27.00 | 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 | $16.50 | NITRA modular T-bracket, for use with Ax-2 series air prep components. | 0.2 |
| AB-2L | $16.50 | NITRA modular L-bracket, for use with Ax-2 series air prep components. | 0.2 |
| AB-2U | $16.50 | NITRA modular U-bracket, for use with Ax-2 series air prep components. | 0.1 |
| AB-3T | $18.00 | NITRA modular T-bracket, for use with Ax-3 series air prep components. | 0.3 |
| AB-3L | $18.00 | NITRA modular L-bracket, for use with Ax-3 series air prep components. | 0.3 |
| AB-3U | $18.00 | NITRA modular U-bracket, for use with Ax-3 series air prep components. | 0.2 |
| AB-4T | $22.00 | NITRA modular T-bracket, for use with Ax-4 series air prep components. | 0.5 |
| AB-4L | $22.00 | NITRA modular L-bracket, for use with Ax-4 series air prep components. | 0.5 |
| AB-4U | $22.00 | NITRA modular U-bracket, for use with Ax-4 series air prep components. | 0.4 |
| AB-6T | $32.00 | NITRA modular T-bracket, for use with Ax-6 series air prep components. | 1.3 |
| AB-6L | $30.00 | NITRA modular L-bracket, for use with Ax-6 series air prep components. | 1.2 |
| AB-6U | $28.50 | 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 | $3.00 | 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 | $4.25 | 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 | $11.00 | 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 |
| 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 | $3.00 | 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 | $4.25 | 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 | $11.00 | 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 |
| ***NITRA Coalescing Filters*** | | | |
| AFE-24 | $20.50 | 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 | $25.50 | 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 | $40.50 | 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 | $20.50 | 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 | $25.50 | 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 | $40.50 | NITRA coalescing oil removal filter element, replacement, 0.01 micron particles, borosilicate glass microfiber. For use with AC-4 series coalescing filters. | 0.1 |

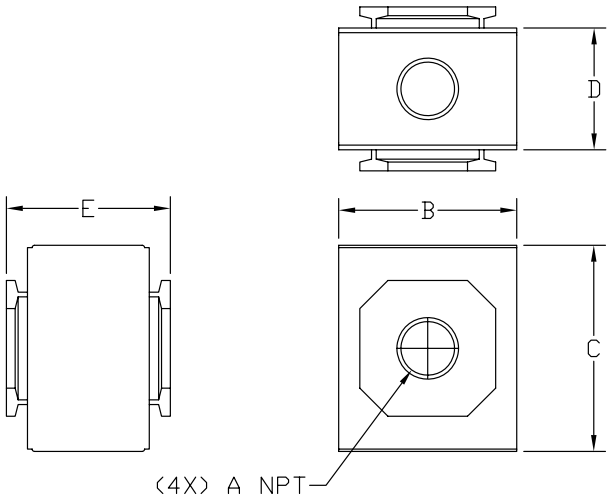
# Pneumatic Air Preparation Accessories

## 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] |



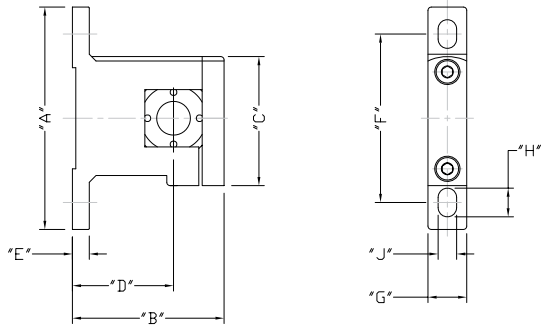

***See our Web site www.AutomationDirect.com for complete Engineering drawings.***

# Pneumatic Air Preparation Accessories

## Dimensions

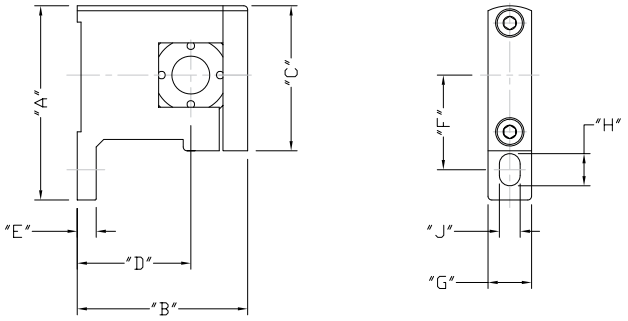
***mm [inches]***

***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***

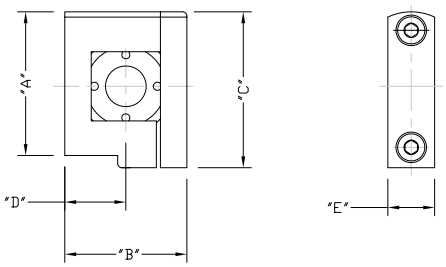



TABLE 1

| 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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