



Pneumatic Air Preparation - AL2 Series Lubricators



Modular Assembly Example



AL2-66-D



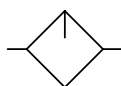
AL2-44-N



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 | \$33.00 | 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 | \$42.00 | 0.66 | | 36cc die-cast aluminum bowl w/ sight | | | | | | | PDF |
| AL2-21 | \$33.00 | 0.65 | | 36cc polycarbonate with metal bowl guard | | | | | | | PDF |
| AL2-22-N | \$33.00 | 0.63 | 1/4" | 36cc nylon with metal bowl guard | | | | | | | PDF |
| AL2-22-D | \$42.00 | 0.65 | | 36cc die-cast aluminum bowl w/ sight | | | | | | | PDF |
| AL2-22 | \$33.00 | 0.64 | | 36cc polycarbonate with metal bowl guard | | | | | | | PDF |
| AL2-32-N | \$51.00 | 1.08 | | 98cc nylon with metal bowl guard | | | | | | | PDF |
| AL2-32-D | \$42.00 | 1.12 | | 98cc die-cast aluminum bowl w/ sight | | | | | | | PDF |
| AL2-32 | \$51.00 | 1.1 | | 98cc polycarbonate with metal bowl guard | | | | | | | PDF |
| AL2-33-N | \$51.00 | 1.08 | 3/8" | 98cc nylon with metal bowl guard | | | | | | | PDF |
| AL2-33-D | \$42.00 | 1.12 | | 98cc die-cast aluminum bowl w/ sight | | | | | | | PDF |
| AL2-33 | \$49.50 | 1.09 | | 98cc polycarbonate with metal bowl guard | | | | | | | PDF |

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



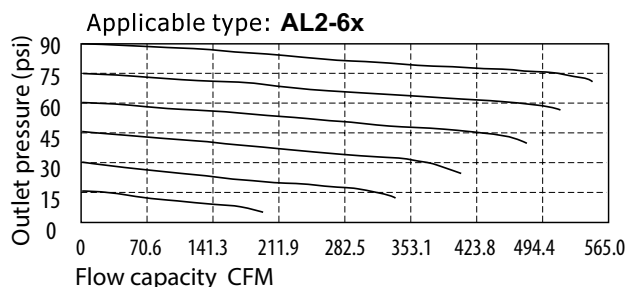
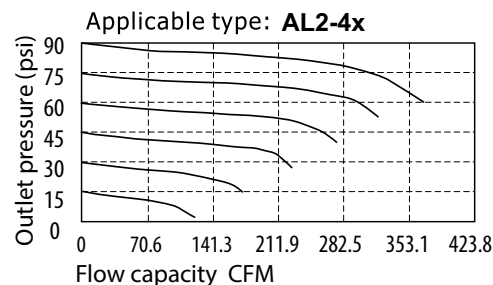
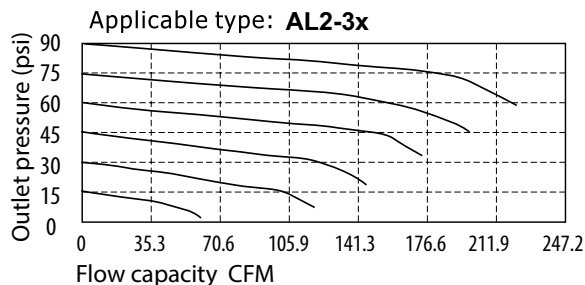
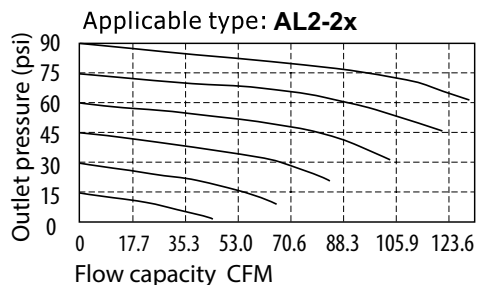
Pneumatic Air Preparation - AL2 Series Lubricators

| 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 | \$64.00 | 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 | \$67.00 | 1.83 | | 185cc die-cast aluminum bowl w/ sight | | | | | | | PDF |
| AL2-44 | \$72.00 | 1.82 | | 185cc polycarbonate with metal bowl guard | | | | | | | PDF |
| AL2-66-D | \$117.00 | 3.31 | 3/4" | 410cc die-cast aluminum bowl w/ sight | | | | | | | PDF |
| AL2-68-D | \$117.00 | 3.27 | 1" | 410cc die-cast aluminum bowl w/ sight | | | | | | | PDF |

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

Performance Charts

Flow chart





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 |



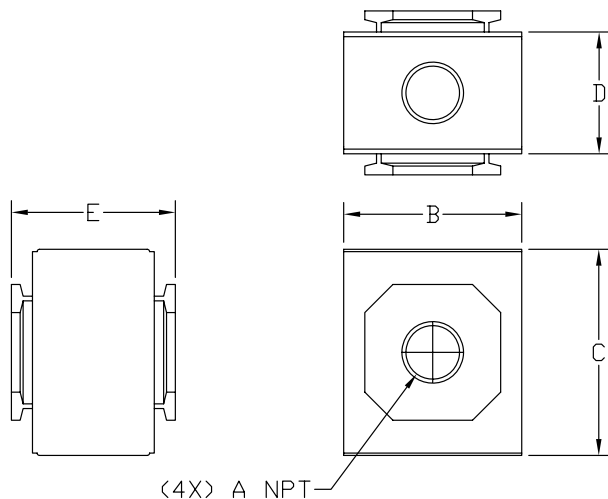
Pneumatic Air Preparation Accessories

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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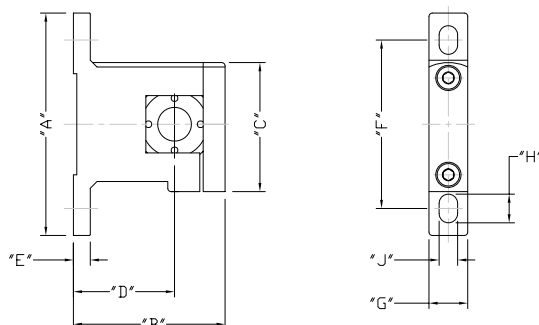


Pneumatic Air Preparation Accessories

Dimensions

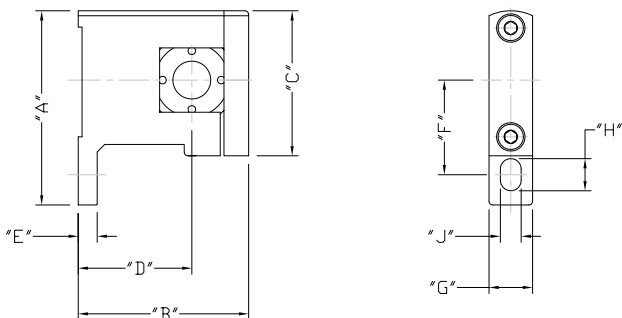
mm [inches]

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

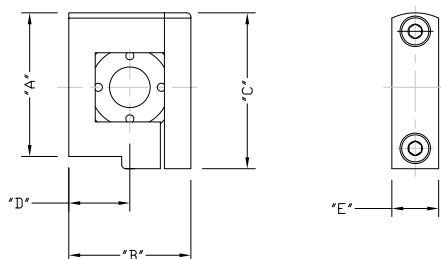


TABLE 1

| 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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