



# Pneumatic Air Preparation - AL Series Lubricators

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 on all sizes. Polycarbonate bowls are available on 2x, 3x and 4x sizes, with metal bowl guards included on 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 bowls available on 2x, 3x and 4x sizes, with metal bowl guards included on 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



**AL-66**



**AL-32**



**AL-21**



**Modular Assembly Example**



**Mounting bracket included.**



**Air Lubricator**



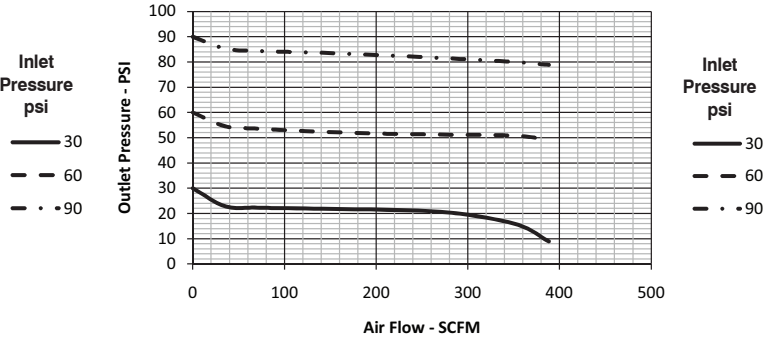
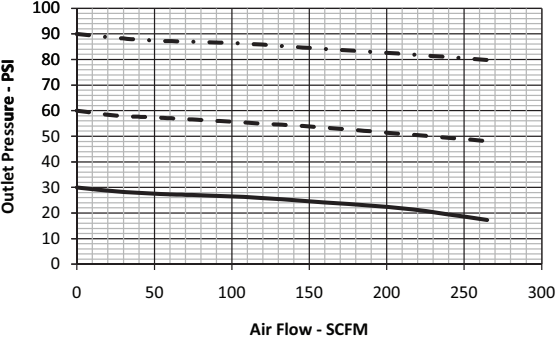
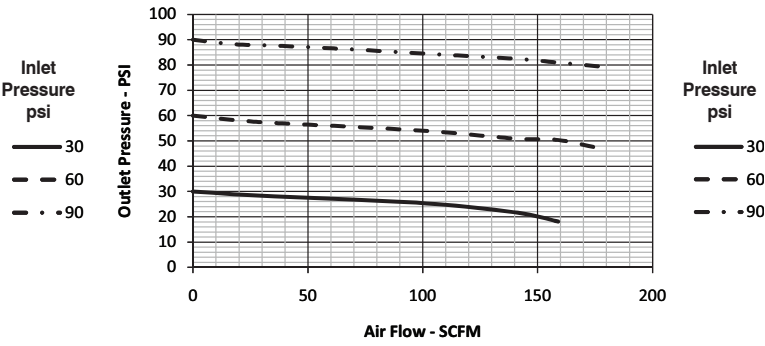
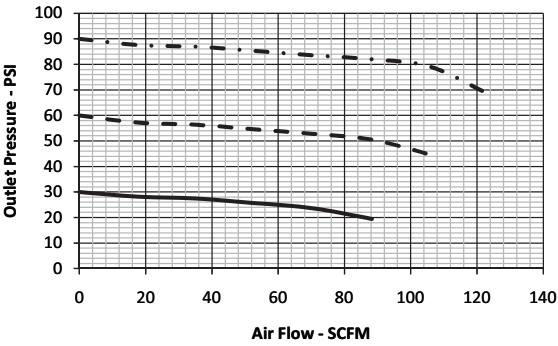
See [www.AutomationDirect.com](http://www.AutomationDirect.com) for a wide variety of fitting options

| AL Series Lubricators |         |              |           |   |       |                       |  |                                  |                                |   |
|-----------------------|---------|--------------|-----------|---|-------|-----------------------|--|----------------------------------|--------------------------------|---|
| Part No.              | Price   | Weight (lbs) | Port Size | Bowl                                      | Fluid | Temperature           | Operating Pressure                           | Maximum Pressure                 | Proof Pressure                 | Recommended Lubricant                             |
| AL-21                 | \$16.00 | 0.4          | 1/8"      | 25cc Polycarbonate                        | Air   | 23-140°F<br>(-5-60°C) | 20-130psi<br>(0.14-0.90MPa)<br>(1.4-9.0 bar) | 130psi<br>(0.90MPa)<br>(9.0 bar) | 215psi<br>(1.5MPa)<br>(15 bar) | Non-Detergent SAE10,<br>ISO VG32 or<br>equivalent |
| AL-22                 | \$16.00 | 0.4          | 1/4"      | 25cc Polycarbonate                        |       |                       |  |                                  |                                |   |
| AL-22-D               | \$18.50 | 0.5          |           | 32cc Metal with sight gauge               |       |                       |  |                                  |                                |   |
| AL-32                 | \$22.50 | 1.0          |           | 75cc Polycarbonate with metal bowl guard  |       |                       |  |                                  |                                |   |
| AL-32-D               | \$34.00 | 1.0          |           | 75cc Metal with sight gauge               |       |                       |  |                                  |                                |   |
| AL-33                 | \$22.50 | 1.0          | 3/8"      | 75cc Polycarbonate with metal bowl guard  |       |                       |  |                                  |                                |   |
| AL-33-D               | \$34.00 | 1.0          |           | 75cc Metal with sight gauge               |       |                       |  |                                  |                                |   |
| AL-44                 | \$31.50 | 1.9          | 1/2"      | 160cc Polycarbonate with metal bowl guard |       |                       |  |                                  |                                |   |
| AL-44-D               | \$50.00 | 1.8          |           | 160cc Metal with sight gauge              |       |                       |  |                                  |                                |   |
| AL-66                 | \$53.00 | 3.5          | 3/4"      | 380cc Metal with sight gauge              |       |                       |  |                                  |                                |   |
| AL-68                 | \$53.00 | 3.8          | 1"        |   |       |                       |  |                                  |                                |   |



# Pneumatic Air Preparation - AL Series Lubricators

## Performance Charts



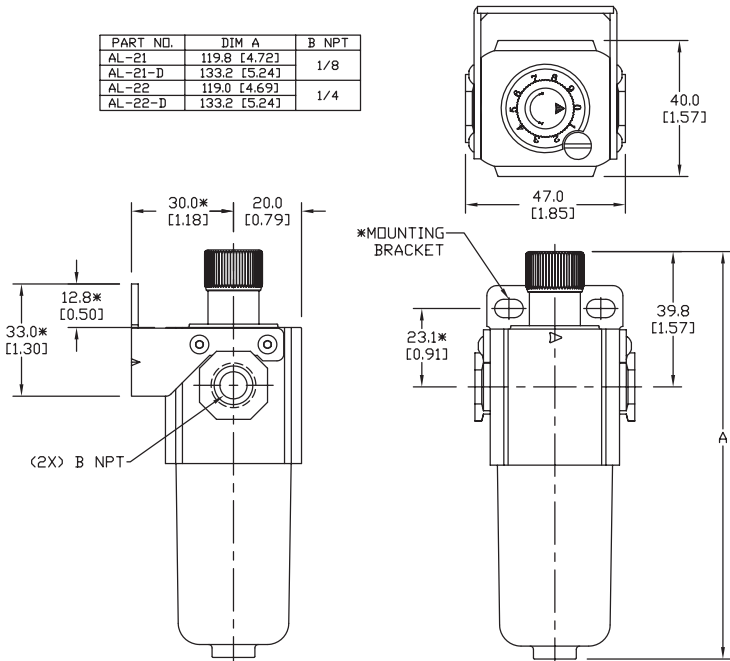
## Dimensions

mm [inches]

\*MOUNTING BRACKET INSTALLATION OPTIONAL

**AL-2x**

| PART NO. | DIM A        | B NPT |
|----------|--------------|-------|
| AL-21    | 119.8 [4.72] | 1/8   |
| AL-21-D  | 133.2 [5.24] | 1/8   |
| AL-22    | 119.0 [4.69] | 1/4   |
| AL-22-D  | 133.2 [5.24] | 1/4   |



See our Web site [www.AutomationDirect.com](http://www.AutomationDirect.com) for complete Engineering drawings.



# Pneumatic Air Preparation - AL Series Lubricators

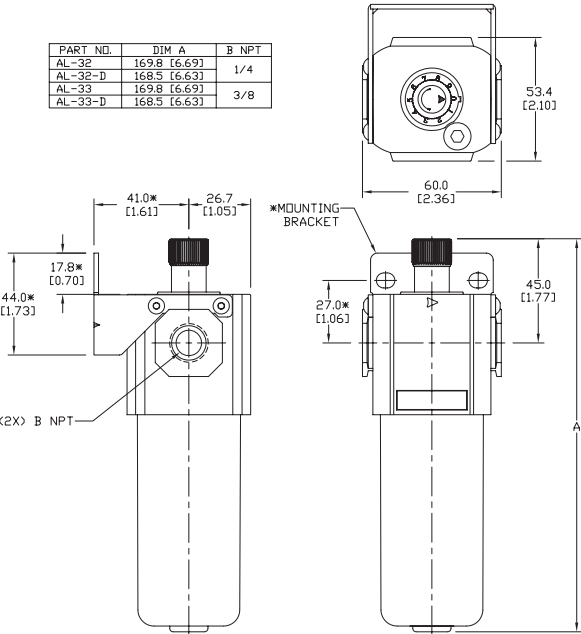
## Dimensions

mm [inches]

### AL-3x

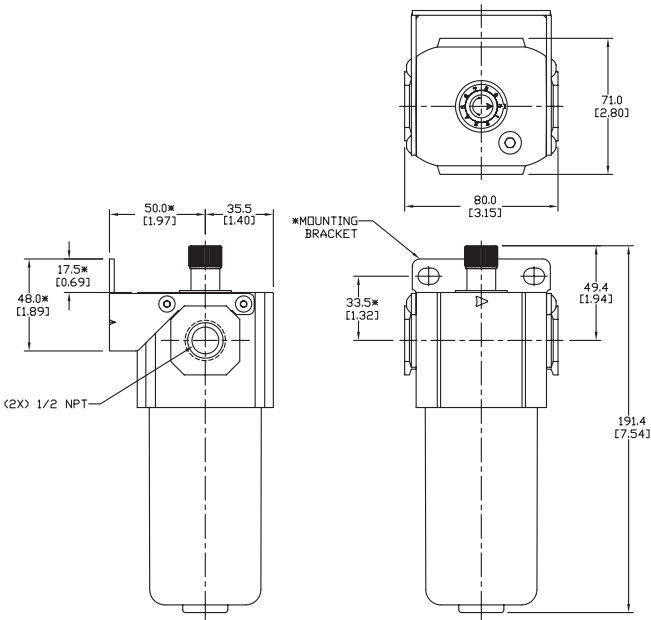
\*MOUNTING BRACKET INSTALLATION OPTIONAL

| PART NO. | DIM A        | B NPT |
|----------|--------------|-------|
| AL-3E    | 169.8 [6.69] | 1/4   |
| AL-3E-D  | 168.5 [6.63] | 1/4   |
| AL-3S    | 169.8 [6.69] | 3/8   |
| AL-3S-D  | 168.5 [6.63] | 3/8   |



### AL-4x

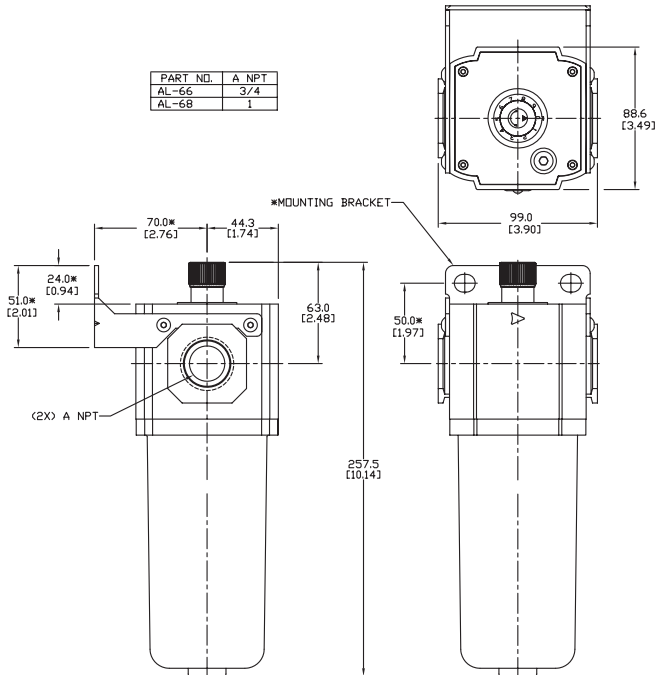
\*MOUNTING BRACKET INSTALLATION OPTIONAL



### AL-6x

\*MOUNTING BRACKET INSTALLATION OPTIONAL

| PART NO. | A NPT |
|----------|-------|
| AL-66    | 3/4   |
| AL-68    | 1     |



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

See our Web site [www.AutomationDirect.com](http://www.AutomationDirect.com) for complete Engineering drawings.



# Pneumatic Air Preparation Accessories



Part No. AGP-21



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) |
| <b>AGP-21</b>                         | \$6.75  | NITRA pneumatic gauge port adapter plate, 1/8 inch NPT female port, with mounting screws. Easy field assembly with NITRA pneumatic AR-2 series regulators and AFR-2 series filter / regulators.  | 0.03         |
| <b>AGP-32</b>                         | \$6.75  | NITRA pneumatic gauge port adapter plate, 1/4 inch NPT female port, with mounting screws. Easy field assembly with NITRA pneumatic AR-3, AR-4 and AR-6 series regulators and AFR-3, AFR-4 and AFR-6 series filter / regulators.                            | 0.04         |
| <b>ADB-21</b>                         | \$13.00 | NITRA pneumatic distribution block with four (4) 1/8 inch NPT female ports. Modular design enables easy field assembly with NITRA pneumatic AF-21 series filters, AR-21 series regulators, AL-21 series lubricators and AFR-21 series filter / regulators. | 0.1          |
| <b>ADB-22</b>                         | \$13.00 | NITRA pneumatic distribution block with four (4) 1/4 inch NPT female ports. Modular design enables easy field assembly with NITRA pneumatic AF-22 series filters, AR-22 series regulators, AL-22 series lubricators and AFR-22 series filter / regulators. | 0.1          |
| <b>ADB-32</b>                         | \$18.00 | NITRA pneumatic distribution block with four (4) 1/4 inch NPT female ports. Modular design enables easy field assembly with NITRA pneumatic AF-32 series filters, AR-32 series regulators, AL-32 series lubricators and AFR-32 series filter / regulators. | 0.2          |
| <b>ADB-33</b>                         | \$18.00 | NITRA pneumatic distribution block with four (4) 3/8 inch NPT female ports. Modular design enables easy field assembly with NITRA pneumatic AF-33 series filters, AR-33 series regulators, AL-33 series lubricators and AFR-33 series filter / regulators. | 0.2          |
| <b>ADB-44</b>                         | \$19.50 | NITRA pneumatic distribution block with four (4) 1/2 inch NPT female ports. Modular design enables easy field assembly with NITRA pneumatic AF-44 series filters, AR-44 series regulators, AL-44 series lubricators and AFR-44 series filter / regulators. | 0.4          |
| <b>AB-2T</b>                          | \$9.50  | NITRA pneumatic modular assembly and mounting T-bracket with two mounting tangs, used to assemble and mount individual NITRA AF-2 series filters, AR-2 series regulators, AL-2 series lubricators and AFR-2 series filter/regulators as a combined unit    | 0.2          |
| <b>AB-2L</b>                          | \$9.50  | NITRA pneumatic modular assembly and mounting L-bracket with one mounting tang, used to assemble and mount individual NITRA AF-2 series filters, AR-2 series regulators, AL-2 series lubricators and AFR-2 series filter/regulators as a combined unit     | 0.2          |
| <b>AB-2U</b>                          | \$9.50  | NITRA pneumatic modular assembly U-bracket (no mounting tangs), used to assemble individual NITRA AF-2 series filters, AR-2 series regulators, AL-2 series lubricators and AFR-2 series filter/regulators as a combined unit                               | 0.1          |
| <b>AB-3T</b>                          | \$10.50 | NITRA pneumatic modular assembly and mounting T-bracket with two mounting tangs, used to assemble and mount individual NITRA AF-3 series filters, AR-3 series regulators, AL-3 series lubricators and AFR-3 series filter/regulators as a combined unit    | 0.3          |
| <b>AB-3L</b>                          | \$10.50 | NITRA pneumatic modular assembly and mounting L-bracket with one mounting tang, used to assemble and mount individual NITRA AF-3 series filters, AR-3 series regulators, AL-3 series lubricators and AFR-3 series filter/regulators as a combined unit     | 0.3          |
| <b>AB-3U</b>                          | \$10.50 | NITRA pneumatic modular assembly U-bracket (no mounting tangs), used to assemble individual NITRA AF-3 series filters, AR-3 series regulators, AL-3 series lubricators and AFR-3 series filter/regulators as a combined unit                               | 0.2          |
| <b>AB-4T</b>                          | \$12.00 | NITRA pneumatic modular assembly and mounting T-bracket with two mounting tangs, used to assemble and mount individual NITRA AF-4 series filters, AR-4 series regulators, AL-4 series lubricators and AFR-4 series filter/regulators as a combined unit    | 0.5          |
| <b>AB-4L</b>                          | \$12.00 | NITRA pneumatic modular assembly and mounting L-bracket with one mounting tang, used to assemble and mount individual NITRA AF-4 series filters, AR-4 series regulators, AL-4 series lubricators and AFR-4 series filter/regulators as a combined unit     | 0.5          |
| <b>AB-4U</b>                          | \$12.00 | NITRA pneumatic modular assembly U-bracket (no mounting tangs), used to assemble individual NITRA AF-4 series filters, AR-4 series regulators, AL-4 series lubricators and AFR-4 series filter/regulators as a combined unit                               | 0.4          |
| <b>AB-6T</b>                          | \$18.50 | NITRA pneumatic modular assembly and mounting T-bracket with two mounting tangs, used to assemble and mount individual NITRA AF-6 series filters, AR-6 series regulators, AL-6 series lubricators and AFR-6 series filter/regulators as a combined unit    | 1.3          |
| <b>AB-6L</b>                          | \$18.50 | NITRA pneumatic modular assembly and mounting L-bracket with one mounting tang, used to assemble and mount individual NITRA AF-6 series filters, AR-6 series regulators, AL-6 series lubricators and AFR-6 series filter/regulators as a combined unit     | 1.2          |
| <b>AB-6U</b>                          | \$18.50 | NITRA pneumatic modular assembly U-bracket (no mounting tangs), used to assemble individual NITRA AF-6 series filters, AR-6 series regulators, AL-6 series lubricators and AFR-6 series filter/regulators as a combined unit                               | 0.8          |



# Pneumatic Air Preparation Accessories



Part No. AFE-43



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 Particulate Filters</b>       |         |   |              |
| <b>AFE-23</b>                          | \$1.25  | NITRA particulate filter element, replacement, 40 micron, bronze. For use with AF-2 series filters or AFR-2 series filter regulators.                           | 0.02         |
| <b>AFE-43</b>                          | \$4.00  | NITRA particulate filter element, replacement, 40 micron, bronze. For use with AF-4 series filters or AFR-4 series filter regulators.                           | 0.1          |
| <b>AFE-63</b>                          | \$15.50 | NITRA particulate filter element, replacement, 40 micron, bronze. For use with AF-6 series filters or AFR-6 series filter regulators.                           | 0.4          |
| <b>AFE-31</b>                          | \$1.50  | NITRA particulate filter element, replacement, 5 micron, polycarbonate. For use with AF-3 series filters or AFR-3 series filter regulators.                     | 0.1          |
| <b>AFE-61</b>                          | \$15.50 | NITRA particulate filter element, replacement, 5 micron, bronze. For use with AF-6 series filters or AFR-6 series filter regulators.                            | 0.4          |
| <b>NITRA Gen 2 Particulate Filters</b> |         |   |              |
| <b>AFE2-23</b>                         | \$1.25  | NITRA particulate filter element, replacement, 40 micron, high-density polyethylene (HDPE). For use with AF-2 series filters or AFR-2 series filter regulators. | 0.01         |
| <b>AFE2-33</b>                         | \$2.25  | NITRA particulate filter element, replacement, 40 micron, high-density polyethylene (HDPE). For use with AF-3 series filters or AFR-3 series filter regulators. | 0.01         |
| <b>AFE2-43</b>                         | \$3.00  | NITRA particulate filter element, replacement, 40 micron, high-density polyethylene (HDPE). For use with AF-4 series filters or AFR-4 series filter regulators. | 0.01         |
| <b>AFE2-63</b>                         | \$8.00  | NITRA particulate filter element, replacement, 40 micron, high-density polyethylene (HDPE). For use with AF-6 series filters or AFR-6 series filter regulators. | 0.04         |
| <b>AFE2-21</b>                         | \$1.25  | NITRA particulate filter element, replacement, 5 micron, high-density polyethylene (HDPE). For use with AF-2 series filters or AFR-2 series filter regulators.  | 0.01         |
| <b>AFE2-31</b>                         | \$2.25  | NITRA particulate filter element, replacement, 5 micron, high-density polyethylene (HDPE). For use with AF-3 series filters or AFR-3 series filter regulators.  | 0.01         |
| <b>AFE2-41</b>                         | \$3.00  | NITRA particulate filter element, replacement, 5 micron, high-density polyethylene (HDPE). For use with AF-4 series filters or AFR-4 series filter regulators.  | 0.01         |
| <b>AFE2-61</b>                         | \$8.00  | NITRA particulate filter element, replacement, 5 micron, high-density polyethylene (HDPE). For use with AF-6 series filters or AFR-6 series filter regulators.  | 0.04         |
| <b>NITRA Coalescing Filters</b>        |         |   |              |
| <b>AFE-24</b>                          | \$12.00 | NITRA coalescing filter element, replacement, 0.3 micron, borosilicate glass microfiber. For use with AC-2 series coalescing filters.                           | 0.05         |
| <b>AFE-34</b>                          | \$15.00 | NITRA coalescing filter element, replacement, 0.3 micron, borosilicate glass microfiber. For use with AC-3 series coalescing filters.                           | 0.05         |
| <b>AFE-44</b>                          | \$24.00 | NITRA coalescing filter element, replacement, 0.3 micron, borosilicate glass microfiber. For use with AC-4 series coalescing filters.                           | 0.1          |
| <b>AFE-25</b>                          | \$12.00 | NITRA coalescing filter element, replacement, 0.01 micron, borosilicate glass microfiber. For use with AC-2 series coalescing filters.                          | 0.04         |
| <b>AFE-35</b>                          | \$15.00 | NITRA coalescing filter element, replacement, 0.01 micron, borosilicate glass microfiber. For use with AC-3 series coalescing filters.                          | 0.05         |
| <b>AFE-45</b>                          | \$24.00 | NITRA coalescing filter element, replacement, 0.01 micron, borosilicate glass microfiber. For use with AC-4 series coalescing filters.                          | 0.1          |



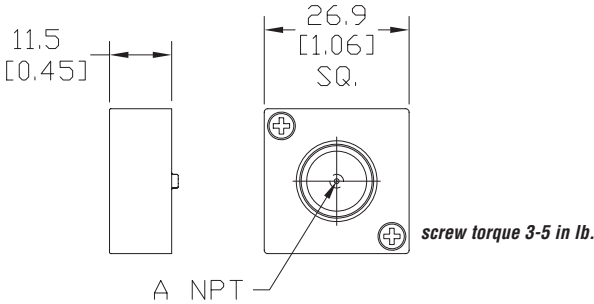
# Pneumatic Air Preparation Accessories

## Dimensions

mm [inches]

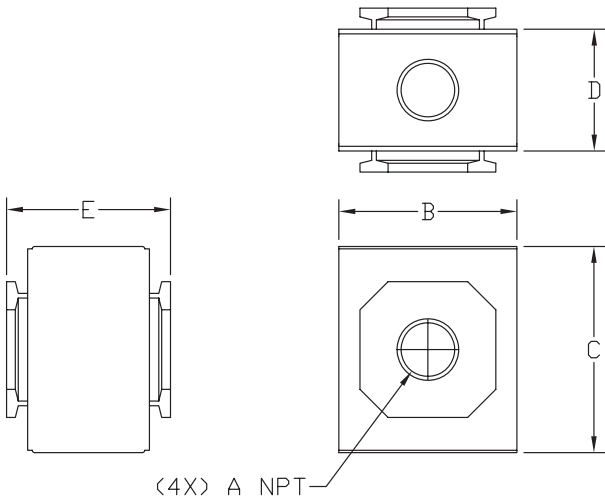
### AGP-x

| PART NO. | A NPT |
|----------|-------|
| APG-21   | 1/8   |
| APG-32   | 1/4   |



### 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](http://www.AutomationDirect.com) for complete Engineering drawings.