



# 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**



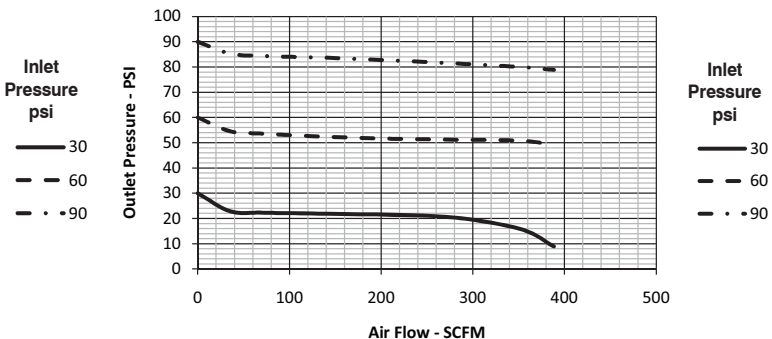
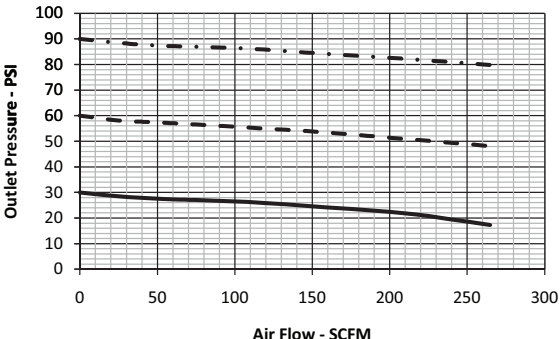
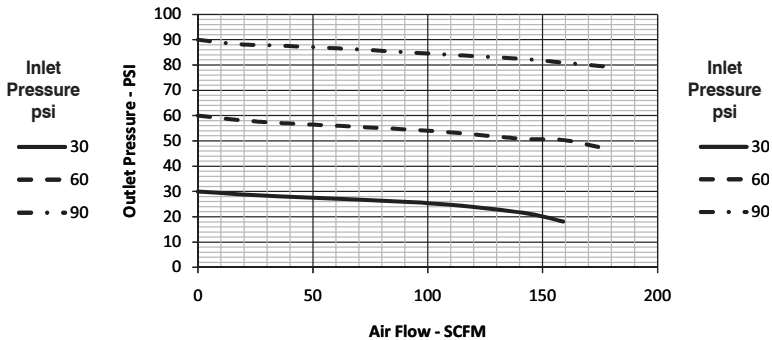
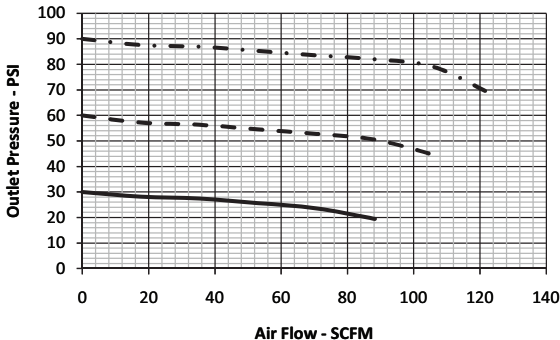
See [www.AutomationDirect.com](http://www.AutomationDirect.com) for a wide variety of fitting options

AL Series Lubricators										
Part No.	Price	Weight (lbs)	Port Size	Bowl	Fluid	Temperature	Operating Pressure	Maximum Pressure	Proof Pressure	Recommended Lubricant
AL-21	\$13.50	0.4	1/8"	25cc Polycarbonate	Air	23-140°F (-5-60°C)	20-130psi (0.14-0.90MPa) (1.4-9.0 bar)	130psi (0.90MPa) (9.0 bar)	215psi (1.5MPa) (15 bar)	Non-Detergent SAE10, ISO VG32 or equivalent
AL-21-D	\$15.50	0.5		32cc Metal with sight gauge						
AL-22	\$13.50	0.4	1/4"	25cc Polycarbonate						
AL-22-D	\$15.50	0.5		32cc Metal with sight gauge						
AL-32	\$19.00	1.0	1/4"	75cc Polycarbonate with metal bowl guard						
AL-32-D	\$28.50	1.0		75cc Metal with sight gauge						
AL-33	\$19.00	1.0	3/8"	75cc Polycarbonate with metal bowl guard						
AL-33-D	\$28.50	1.0		75cc Metal with sight gauge						
AL-44	\$26.50	1.9	1/2"	160cc Polycarbonate with metal bowl guard						
AL-44-D	\$42.00	1.8		160cc Metal with sight gauge						
AL-66	\$44.50	3.5	3/4"	380cc Metal with sight gauge						
AL-68	\$44.50	3.8	1"							



# Pneumatic Air Preparation - AL Series Lubricators

## Performance Charts



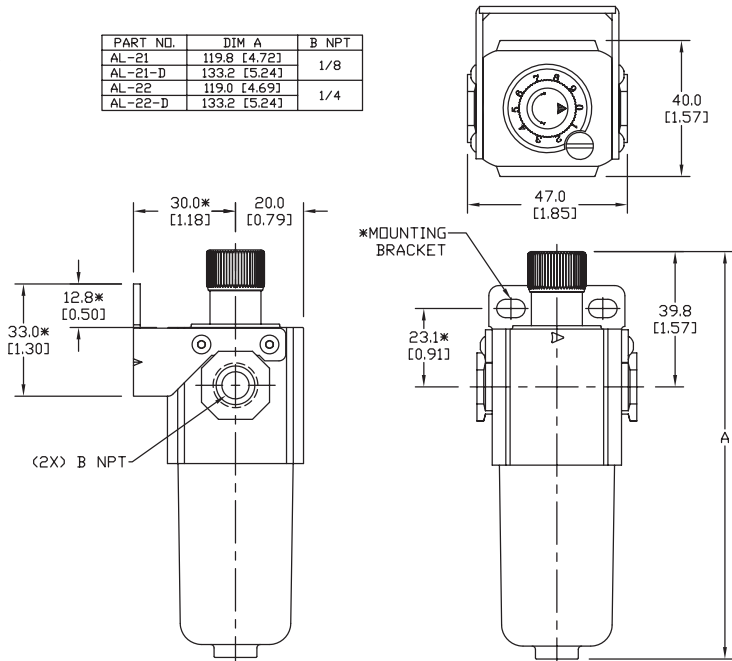
## Dimensions

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



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# Pneumatic Air Preparation - AL Series Lubricators

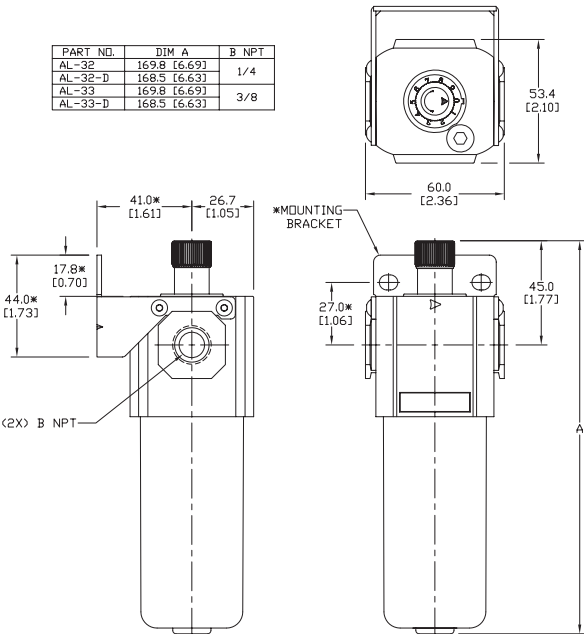
## Dimensions

mm [inches]

### AL-3x

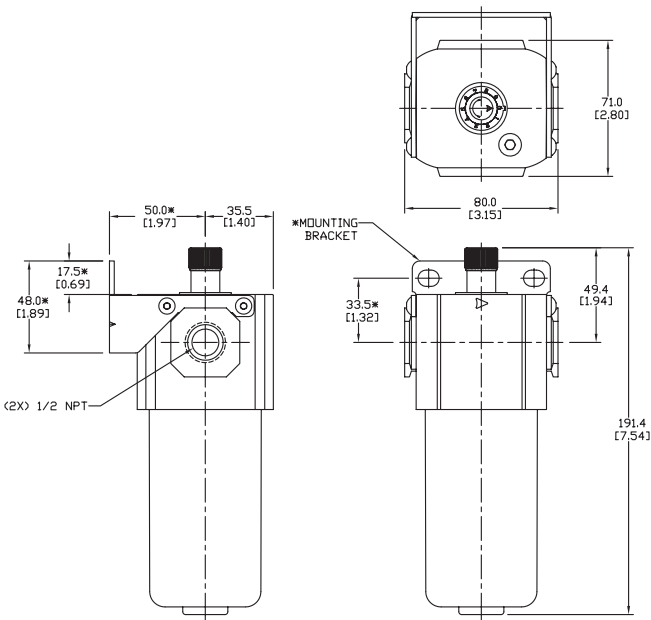
\*MOUNTING BRACKET INSTALLATION OPTIONAL

PART NO.	DIM A	B NPT
AL-32	169.8 [6.69]	
AL-32-D	168.5 [6.63]	1/4
AL-33	169.8 [6.69]	
AL-33-D	168.5 [6.63]	3/8



### AL-4x

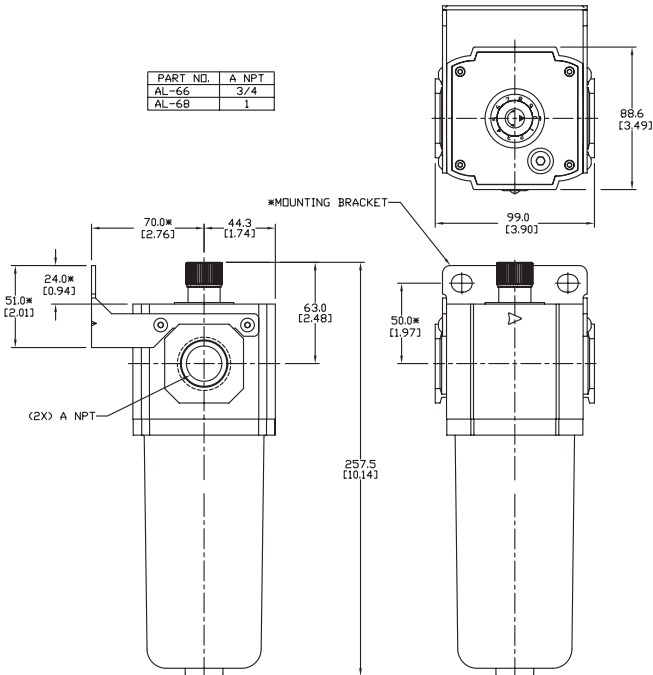
\*MOUNTING BRACKET INSTALLATION OPTIONAL



### 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.

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# Pneumatic Air Preparation Accessories

Pneumatic Air Preparation Accessories			
Part No.	Price	Description	Weight (lbs)
<b>AGP-21</b>	\$5.75	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>	\$5.75	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>	\$11.00	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>	\$11.00	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>	\$15.00	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>	\$15.00	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>	\$16.50	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>	\$8.00	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>	\$8.00	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>	\$8.00	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>	\$9.00	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>	\$9.00	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>	\$9.00	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>	\$10.50	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>	\$10.50	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>	\$10.50	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>	\$15.50	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>	\$15.50	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>	\$15.50	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



Part No. AGP-21



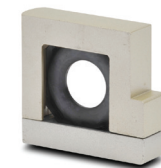
Part No. ADB-21



Part No. AB-4T



Part No. AB-4L



Part No. AB-4U



# Pneumatic Air Preparation Accessories

Pneumatic Air Preparation Accessories			
Part No.	Price	Description	Weight (lbs)
<b>AFE-23</b>	\$1.00	NITRA replacement filter element, tin-copper, 40 micron, for AF-2 series filters or AFR-2 series filter/regulators	0.02
<b>AFE-33</b>	\$2.00	NITRA replacement filter element, tin-copper, 40 micron, for AF-3 series filters or AFR-3 series filter/regulators	0.05
<b>AFE-43</b>	\$3.50	NITRA replacement filter element, tin-copper, 40 micron, for AF-4 series filters or AFR-4 series filter/regulators	0.1
<b>AFE-63</b>	\$13.00	NITRA replacement filter element, tin-copper, 40 micron, for AF-6 series filters or AFR-6 series filter/regulators	0.4
<b>AFE-21</b>	\$1.00	NITRA replacement filter element, fiber, 5 micron, for AF-2 series filters or AFR-2 series filter/regulators	0.1
<b>AFE-31</b>	\$1.25	NITRA replacement filter element, fiber, 5 micron, for AF-3 series filters or AFR-3 series filter/regulators	0.1
<b>AFE-41</b>	\$1.50	NITRA replacement filter element, fiber, 5 micron, for AF-4 series filters or AFR-4 series filter/regulators	0.1
<b>AFE-61</b>	\$13.00	NITRA replacement filter element, tin-copper, 5 micron, for AF-6 series filters or AFR-6 series filter/regulators	0.4



**Part No. AFE-43**



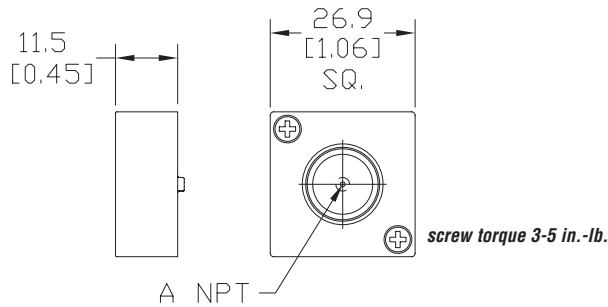
**Part No. AFE-41**

## Dimensions

mm [inches]

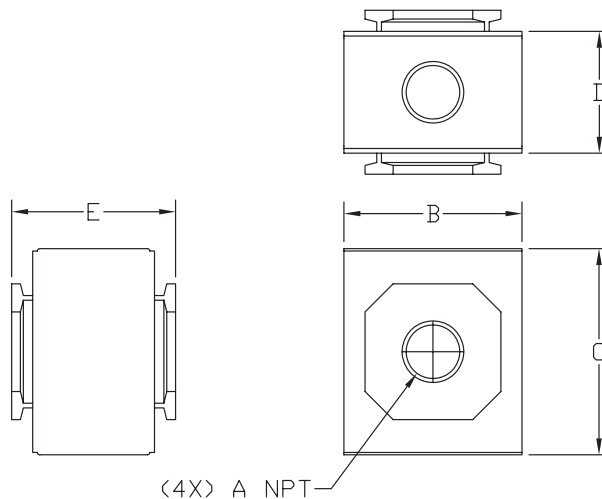
### AGP-x

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]



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# Pneumatic Air Preparation Accessories

## Dimensions

mm [inches]

### AB-xT

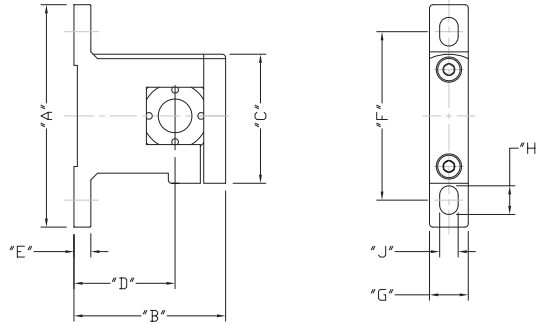


TABLE 1									
PART NUMBER	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"	DIM "F"	DIM "G"	DIM "H"	DIM "J"
AB-2T	66.0 [2.60]	45.0 [1.77]	38.3 [1.51]	30.0 [1.18]	5.0 [0.20]	50.0 [1.97]	11.5 [0.45]	8.5 [0.33]	5.5 [0.22]
AB-3T	88.0 [3.46]	60.5 [2.38]	49.3 [1.94]	41.5 [1.63]	7.0 [0.28]	70.0 [2.76]	12.5 [0.49]	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

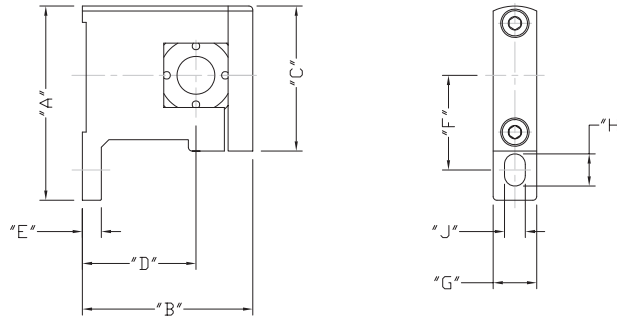


TABLE 1									
PART NUMBER	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"	DIM "F"	DIM "G"	DIM "H"	DIM "J"
AB-2L	51.3 [2.02]	45.0 [1.77]	38.3 [1.51]	30.0 [1.18]	5.0 [0.20]	25.0 [0.98]	11.5 [0.45]	8.5 [0.33]	5.5 [0.22]
AB-3L	68.6 [2.70]	60.5 [2.38]	49.3 [1.94]	41.5 [1.63]	7.0 [0.28]	35.0 [1.38]	12.5 [0.49]	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]

### AB-xU

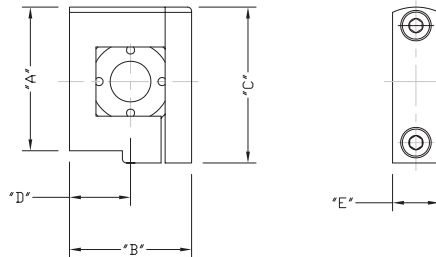


TABLE 1					
PART NUMBER	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"
AB-2U	35.5 [1.39]	30.0 [1.18]	38.3 [1.51]	15.0 [0.59]	11.5 [0.45]
AB-3U	43.8 [1.72]	38.0 [1.50]	49.3 [1.94]	19.5 [0.75]	12.5 [0.49]
AB-4U	52.5 [2.07]	52.0 [2.05]	58.5 [2.30]	26.0 [1.02]	15.5 [0.61]
AB-6U	76.5 [3.01]	68.0 [2.68]	79.5 [3.13]	34.0 [1.34]	19.5 [0.77]

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