

### **Air Engineering and Supply**

# 1-1/8" Bore Heavy Duty Aluminum Cylinders

Direct replacements for Clippard's 1-1/8" bore cylinders. For jobs requiring more force than smaller cylinders, here is a rugged, heavy-duty 1-1/8" bore cylinder possessing many features desired by engineers and designers. Force factor is one — 100 pounds per square inch of line pressure resulting in a push of 100 pounds. All styles are double acting. Mountings include stud, and combination clevis-stud in single rod cylinders and stud mounting only in double rod cylinders. Construction is completely repairable fine pitch screw together type. Ports are 1/8" NPT. Rods are ground and polished 3/8" stainless steel with milled flats for easy installation. Cylinder tubes are heavy walled aluminum alloy with an extremely

#### Features

- Very low breakaway force (2 psi breakaway) Allows for a consistent stroke speed (no sudden jumps)
- Hard-anodized aluminum body attractive, yet durable
- Force factor of 1 100 psig input provides 100 lbs. output force
- Available in many stroke lengths (even up to 8 ft. in special quantities!)

Internal cushions absorb shock, reduce noise and promote long life. All cylinders are provided with steel lock washers and 1"-20 nuts, 3/8" thick, for mounting. Use these sturdy 1-1/8" bore cylinders in light and heavy duty applications where extra force and stamina, combined with savings in space are required. Ideal for jigs, fixtures, automated equipment and power applications. Notes:

durable hard-surface finish. Heads are black oxide finished steel.

Rod bearings are sintered bronze, impregnated with lubricant.

Pistons are brass, threaded and locked onto shafts. Piston and

rod seals are Buna N Block "Vee" type for fast break away at low

working pressures on jobs requiring gradual force applications.

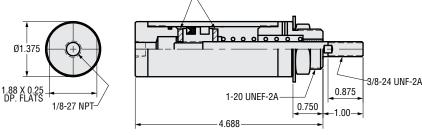
- 1. 1.12 bore double acting with bumpers both ends standard
- 2. Black oxided steel endcovers, brass piston, chrome plated SS rod
- 3. Nitrile seals, 180°F max, 150 PSI max
- 4. Hard coat anodized aluminum tube, zinc plated nut and lock washer
- 5. Low friction u-cup seals with moly lube

# 18SS AIR CYLINDER - TYPE 18 STUD MOUNT, SPRING RETURN (Single Acting)



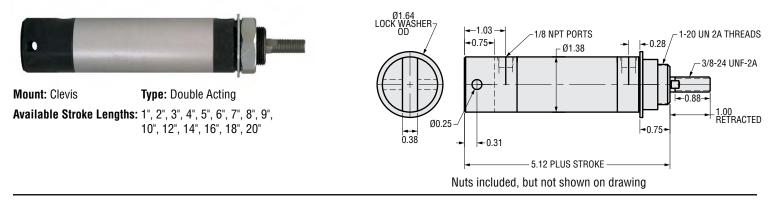
· Brass piston, stainless steel rod

Mount: Stud **Type:** Single Acting Spring Return Available Stroke Lengths: 1"



Nuts included, but not shown on drawing

### 18CSD AIR CYLINDER - TYPE 18 CLEVIS-MOUNT CYLINDERS (Double Acting)

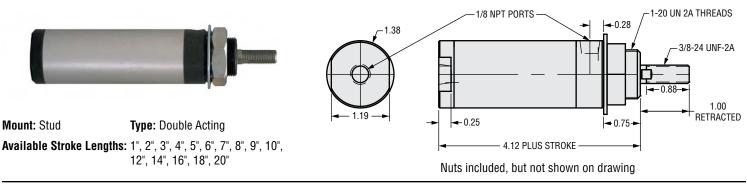


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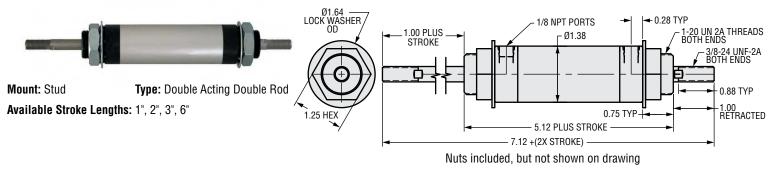
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# 1-1/8" Bore Heavy Duty Aluminum Cylinders (continued)

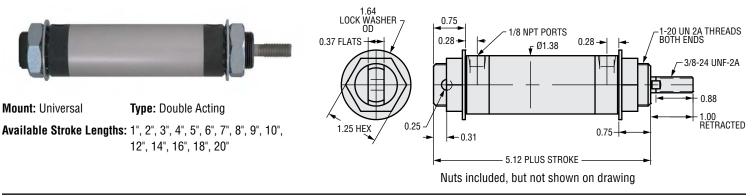
### 18SD AIR CYLINDER - TYPE 18 STUD MOUNT (Double Acting)



### 18DD AIR CYLINDER - TYPE 18 STUD MOUNT, DOUBLE ROD (Double Acting)



## 18D AIR CYLINDER - TYPE 18 UNIVERSAL MOUNT CYLINDERS (Double Acting)



### PART NUMBER STRUCTURE

MODEL -			STROKE LENGTH								THREAD
Code	Mount		Code	Length		Code	Length		Code	Length	Add <b>-PRE</b> to the end of the part for non-threaded rod.
18SS	Stud		01	1"		06	6"		12	12"	For threaded rod, leave blank.  Examples: 18SD (stud) model, 1" Stroke, Threaded = 18SD-01 18D (universal) model, 8" Stroke, Non-Threaded = 18D-08-PR
18CSD	Clevis	1	02	2"		07	7"		14	14"	
18SD	Stud		03	3"		08	8"		16	16"	
18DD	Stud	1	04	4"		09	9"		18	18"	
18D	Universal	1	05	5"		10	10"		20	20"	
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