

### 1-1/16 in. Bore, Single-Acting, Spring Return, Front Nose Mount



NITRA pneumatic stainless steel round body, interchangeable, non-repairable cylinder, 1-1/16 inch bore, 1/8 NPT port, single acting, spring return, front nose mount.

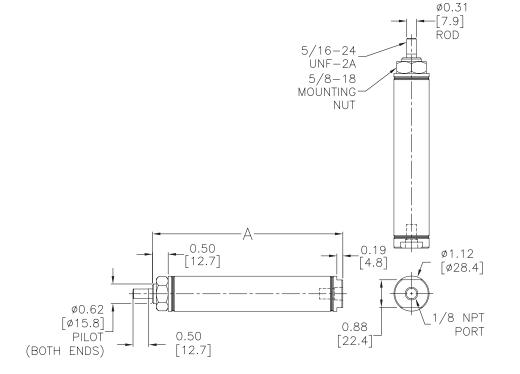
Part no. A17020SN

Cylinder, 1-1/16	6 in bore, single a	cting, spring r	eturn, front nos	e mount		
Part Number	Stroke Length (in)	"A" (in)	Weight (lbs)	Price		
A17010SN	1.0	3.50	0.3			
A17020SN	<b>A17020SN</b> 2.0		0.5			
A17030SN	3.0	6.62	0.6			
Specifications						
304 SS cylinder body		0.90 sq. in. piston area				
High strength aluminum	end caps	Pre-lubricated for maintenance-free life				
High strength carbon steel piston rod		Pressure rating 250 psi				
Low friction Buna-N seals		Temperature range -20°F to 200°F (-28 to 93°C)				
Extend force at 100 psi =	90.0 lb.	Spring force = 3 lb. relaxed, 6 lb. compressed				

Mount Style		Bracket	Nut
Front Nose Mount		AMB-6	AN-58-18*
Rear Pivot Mount		-	-
Double End Mount	Front	-	-
Double End Mount	Rear	-	-

\* (1) Nut included with cylinder Cylinder rod clevis ARC-516-24 See end of 1-1/16" bore section for Accessories

#### Dimensions





### 1-1/16 in. Bore, Single-acting, Spring Return, Rear Pivot Mount



NITRA pneumatic stainless steel round body, interchangeable, non-repairable cylinder, 1-1/16 inch bore, 1/8 NPT port, single acting, spring return, rear pivot mount (pivot pin included).

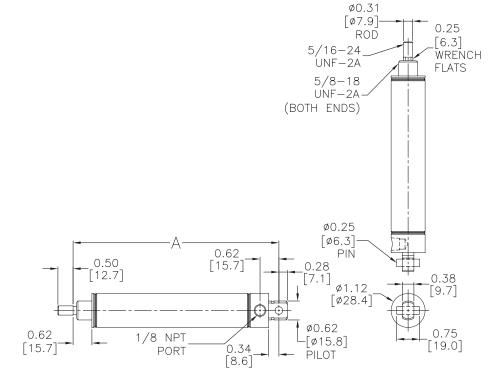
Cylinder, 1-1/16	Cylinder, 1-1/16 in bore, single acting, spring return, rear pivot mount					
Part Number	Stroke Length (in.)	"A" (in)	Weight (lbs)	Price		
A17010SP	1.0	4.22	0.4			
A17020SP	2.0	5.78	0.5			
A17030SP	3.0	7.34	0.6			
Specifications						
304 SS cylinder body		0.90 sq. in. piston area				
High strength aluminum	end caps	Pre-lubricated for maintenance-free life				
High strength carbon steel piston rod		Pressure rating 250 psi				
Low friction Buna-N seals		Temperature range -20°F to 200°F (-28 to 93°C)				
Extend force at 100 psi =	90.0 lb.	Spring force = 3 lb. relaxed, 6 lb. compressed				

Mount Style		Bracket	Nut
Front Nose Mount		AMB-6	AN-58-18
Rear Pivot Mount		APB-2	-
Pront Front		AMB-6	AN-58-18
Double End Mount	Rear	AMB-6	AN-58-18

Cylinder rod clevis ARC-516-24

See end of 1-1/16" bore section for Accessories Note: Drive pin out for double end mounting

### Dimensions





### 1-1/16 in. Bore, Double-acting, Front Nose Mount



NITRA pneumatic stainless steel round body, interchangeable, 1-1/16 inch bore, 1/8 NPT ports, double acting, front nose mount.

Cylinder	, 1-1/16 in bore, d	ouble acting	j, front nose mou	nt
Part Number	Stroke Length (in.)	"A" (in)	Weight (lbs)	Price
A17005DN	0.5	3.62	0.4	
A17010DN	1.0	4.12	0.4	
A17020DN	2.0	5.12	0.4	
A17030DN	3.0	6.12	0.5	
A17040DN	4.0	7.12	0.5	
A17050DN	5.0	8.12	0.6	
A17060DN	6.0	9.12	0.6	
A17080DN	8.0	11.12	0.7	
A17100DN	10.0	13.12	0.8	
A17120DN	12.0	15.12	0.9	
	Spec	ifications		
304 SS cylinder body		0.90 sq. in. piston area		
High strength aluminum end caps		Pre-lubricated for maintenance-free life		
High Strength carbon steel piston rod		Pressure rating 250 psi		
Low friction Buna-N seal	S	Temperature range -20°F to 200°F (-28 to 93°C)		
Extend force at 100 psi =	90.0 lb.	Retract force at 100 psi = 82.3 lb.		

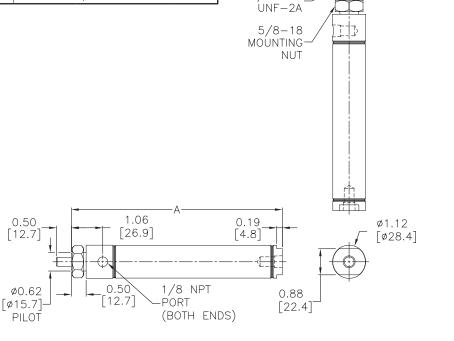
Mount Style		Bracket	Nut
Front Nose Mount		AMB-6	AN-58-18*
Rear Pivot Mount		-	-
Front		-	-
Double End Mount	Rear	-	-

Ø0.31 [Ø7.9] ROD

\* (1) Nut included with cylinder Cylinder rod clevis ARC-516-24 See end of 1-1/16" bore section for Accessories

### Dimensions

inches [mm]



5/16-24



#### 1-1/16 in. Bore, Double-acting, Rear Pivot Mount



NITRA pneumatic stainless steel round body, interchangeable, 1-1/16 inch bore, 1/8 NPT ports, double acting, rear pivot mount (pivot pin included).

Cylinde	er, 1-1/16 in bore,	double acting	, rear pivot mount		
Part Number	Stroke Length (in.)	"A" (in)	Weight (lbs)	Price	
A17010DP	1.0	4.84	0.4		
A17020DP	2.0	5.84	0.4		
A17030DP	3.0	6.84	0.5		
A17040DP	4.0	7.84	0.5		
A17050DP	5.0	8.84	0.6		
A17060DP	6.0	9.84	0.6		
A17080DP	8.0	11.84	0.7		
A17100DP	10.0	13.84	0.8		
A17120DP	12.0	15.84	0.9		
	Spe	cifications			
304 SS cylinder body		0.90 sq. in. piston area			
High strength aluminum	end caps	Pre-lubricated for maintenance-free life			
High strength carbon ste	el piston rod	Pressure rating 250 psi			
Low friction Buna-N seal	S	Temperature range -20°F to 200°F (-28 to 93°C)			
Extend force at 100 psi =	90.0 lb.	Retract force at 100 psi = 82.3 lb.			

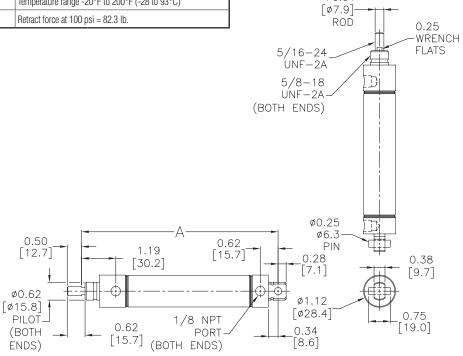
Mount Style		Bracket	Nut
Front Nose Mount		AMB-6	AN-58-18
Rear Pivot Mount	Rear Pivot Mount		-
Front		AMB-6	AN-58-18
Double End Mount	Rear	AMB-6	AN-58-18

Cylinder rod clevis ARC-516-24

See end of 1-1/16" bore section for Accessories Note: Drive pin out for double end mounting

Ø0.31

### Dimensions





#### 1-1/16 in. Bore, Double-acting, Rear Pivot Mount, Magnetic Piston



NITRA pneumatic stainless steel round body, interchangeable, 1-1/16 inch bore, 1/8 NPT ports, double acting, rear pivot mount, magnetic piston (pivot pin included).

Cylinder, 1-1/16	in bore, double a	cting, rear piv	ot mount, magne	tic pistor	
Part Number	Stroke Length (in)	"A" (in)	Weight (lbs)	Price	
A17010DP-M	1.0	4.84	0.4		
A17020DP-M	2.0	5.84	0.4		
A17030DP-M	3.0	6.84	0.5		
A17040DP-M	4.0	7.84	0.5		
A17050DP-M	5.0	8.84	0.6		
A17060DP-M	6.0	9.84	0.6		
A17080DP-M	8.0	11.84	0.7		
A17100DP-M	10.0	13.84	0.8		
A17120DP-M	12.0	15.84	0.9		
	Spe	cifications			
304 SS cylinder body		0.90 sq. in. piston area			
High strength aluminum e	end caps	Pre-lubricated for maintenance-free life			
303 SS piston rod		Pressure rating 250 psi			
Low friction Buna-N seals		Temperature range -20°F to 200°F (-28 to 93°C)			
Extend force at 100 psi =	90.0 lb.	Retract force at 100 psi = 82.3 lb.			

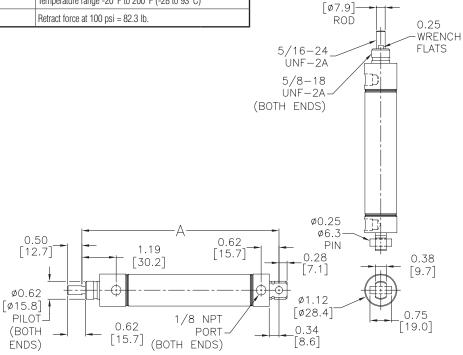
Mount Style		Bracket	Nut
Front Nose Mount		AMB-6	AN-58-18
Rear Pivot Mount	ear Pivot Mount		-
Double End Mount	Front	AMB-6	AN-58-18
	Rear	AMB-6	AN-58-18

Cylinder rod clevis ARC-516-24

See end of 1-1/16" bore section for Accessories Note: Drive pin out for double end mounting

Ø0.31

#### **Dimensions**





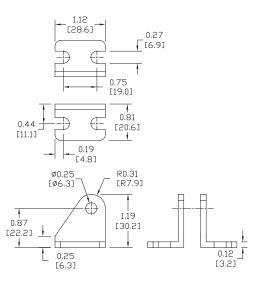
# A-Series Pneumatic Cylinders 1-1/16 inch Bore Accessories

A-Series Pneumatic Cylinder 1-1/16 inch Bore Accessories							
Part Number	Description	Pcs/Pkg	Wt (lb)	Price			
APB-2	Cylinder pivot mounting bracket without pivot pin used to mount 3/4, 7/8, and 1-1/16 inch bore NITRA pneumatic stainless steel round body, interchangeable, non-repairable cylinders.	1	0.2				
AMB-6	Cylinder mounting bracket used to mount 3/4, 7/8, and 1-1/16 inch bore NITRA pneumatic stain- less steel round body, interchangeable, non-repairable cylinders.	1	0.1				
ARC-516-24	Cylinder rod clevis and hex nut, 5/16-24 thread, for use with 1-1/16 inch bore NITRA pneumatic stainless steel round body, interchangeable, non-repairable cylinders.	1	0.1				
AN-58-18	Cylinder mounting nut with 5/8-18 UNF-2B threads used to mount 3/4, 7/8 and 1-1/16 inch bore NITRA pneumatic stainless steel round body, interchangeable, non-repairable cylinders.	1	0.1				

#### Dimensions

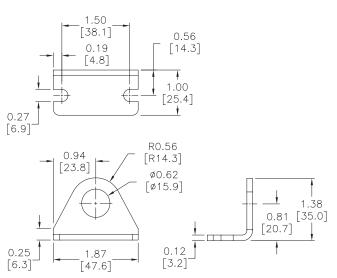






AMB-6







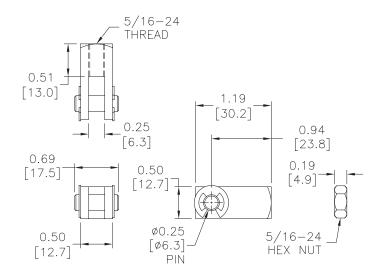
# A-Series Pneumatic Cylinders 1-1/16 inch Bore Accessories

Dimensions

inches [mm]

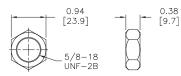
#### ARC-516-24





AN-58-18







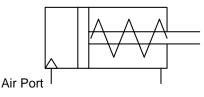
### **Pneumatic Cylinders - A-Series**

#### Nitra A-Series Pneumatic Stainless Steel Round Body Air Cylinders

The NITRA Pneumatics A-Series non-repairable stainless steel round body cylinders includes bore sizes from 7/16" to 2" and stroke lengths from 1/2" to 18" to meet a broad range of applications. These high quality cylinders are constructed with stainless steel bodies and double rolled-in high strength aluminum end caps with full flow ports. To minimize friction the inside of the cylinder body is polished to a mirror finish and all cylinders are factory lubricated for optimum performance and long, reliable life. The high strength aluminum alloy piston is securely threaded and sealed to a piston rod that is ground and roller burnished 303 stainless steel (7/16" and 9/16" bores) or ground and polished high strength steel ( 3/4'' - 2''bores) with roll-formed threads for exceptional strength. Low friction wear compensating Buna N U-cup rod and piston seals, sintered bronze rod guide bushing (except 7/16" and 9/16" bores), and end caps with slots all combine for smooth breakaway even at low pressures.

### Operation

Single-acting cylinders with spring return have one compressed air port to extend the rod in the "push" direction. The internal spring retracts in the "pull" direction.



Single-Acting Cylinder with Spring Return (Force in Push Direction)

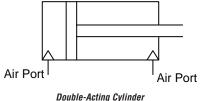
#### **Mounting Options**



#### **Features**

- Interchangeable with other common brands of round body cylinders
- Available bore sizes: 7/16", 9/16", 3/4", 7/8", 1-1/16", 1-1/4", 1-1/2", 2"
- Excellent selection of stroke lengths
- Single-acting (spring return) and double-acting models
- Nose, pivot and double-end mounting options
- Type 304 stainless steel body with high-strength aluminum alloy end caps
- Factory lubricated for long, maintenance-free operation
- 250 psi operating pressure
- Models available with magnetic piston for position indication
- All models are available for same-day shipment
- Made in North America
- 3-year warranty

**Double-acting cylinders** have two compressed air ports. One of the ports will extend the rod in the "push" direction and the other port will retract the rod in the "pull" directon.



(Force in Push and Pull Direction)

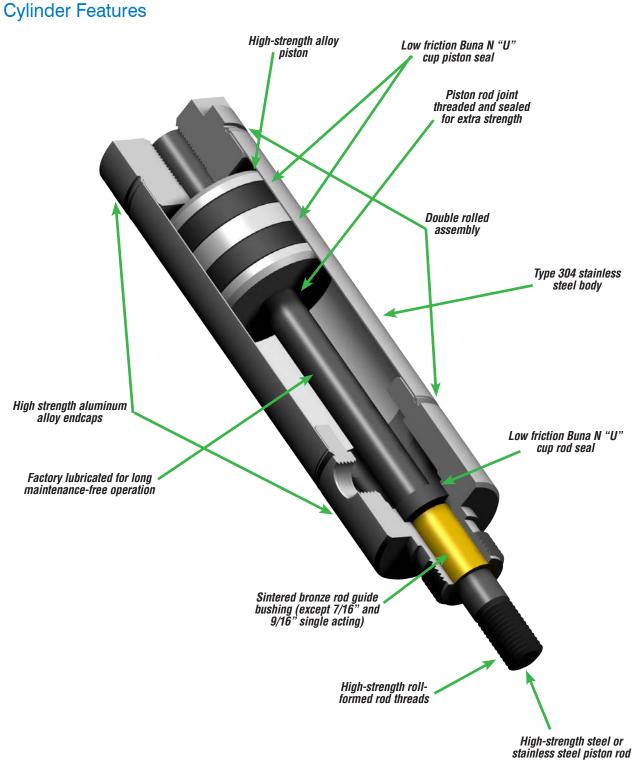
Nose mount uses one AMB bracket and one AN nut.

Pivot mount uses one APB or one APBP bracket.

**Double end mount** uses two AMB brackets and two AN nuts.



### **Pneumatic Cylinders - A-Series**



Made in North America



		Position Switch Cr	ross Reference Chart
NITRA Switch Type	Cylinder Brand (may fit some of these cylinders)	Photo Example	Groove Illustration
CPS CPSF	NITRA A-Series, D-Series, F-Series		Round Cylinder (CPSB or CPSS Series)
CPS9C	DE-STA-CO Robohand SMC Compact Air		2.53 Min. +/- 0.1 R 2.13 +/- 0.05
CPS9D	Fabco Numatics Rotomation		
CPS9F	NITRA G-Series Fabco Festo Numatics Rotomation		
СРЅ9Н	NITRA E-Series NITRA H-Series		
CPS9M	Norgren		5.1 +/-0.1 5.1 +/-0.1 5.1 +/-0.1
CPS9Q	NITRA G-Series Parker		
CPS9T	SMC		