

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.

Cylinder, 1-1/16 in bore, single acting, spring return, front nose mount						
Part Number	Stroke Length (in)	"A" (in)	Weight (lbs)	Price		
A17010SN	1.0	3.50	0.3	\$24.00		
A17020SN	2.0	5.06	0.5	\$28.50		
A17030SN	3.0	6.62	0.6	\$32.00		
	Speci	ifications				
304 SS cylinder body 0.90 sq. in. piston area						
High strength aluminu	ım end caps	Pre-lubricated for	maintenance-free life			
High strength carbon	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			3 to 93°C)			
Extend force at 100 p	Extend force at 100 psi = 90.0 lb. Spring force = 3 lb. relaxed, 6 lb. compressed			ressed		

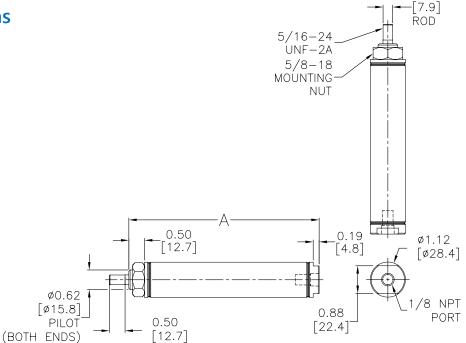
Mount Style		Bracket	Nut
Front Nose Mou	ınt	AMB-6	AN-58-18*
Rear Pivot Mount		_	-
Dauble End Mount	Front	-	-
Double End Mount	Rear	-	-

Ø0.31

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

Dimensions

inches [mm]





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

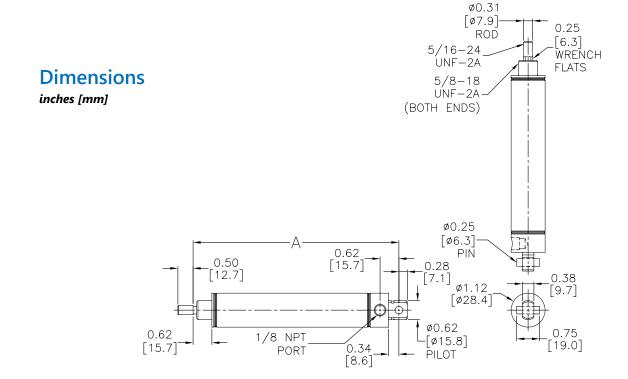


NITRA pneumatic stainless steel round body, interchangeable, non-repairable cylinder, 1-1/16 inch bore, 1/8 NPT port, single acting, spring return, rear pivot mount (pivot pin included).

Cylinder, 1-1/16 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	\$29.50		
A17020SP	2.0	5.78	0.5	\$33.50		
A17030SP	3.0	7.34	0.6	\$31.00		
	Specifi	cations				
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 2	50 psi			
Low friction Buna-N s	eals	Temperature range -20°F to 200°F (-28 to 93°C)				
Extend force at 100 p	si = 90.0 lb.	Spring force = 3 lb. relaxed, 6 lb. compressed				

Mount Style		Bracket	Nut
Front Nose Mou	ınt	AMB-6	AN-58-18
Rear Pivot Mou	nt	APB-2	-
Double End Mount	Front	AMB-6	AN-58-18
Double Ella Moull	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 ÿ7.9]



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

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	e, double	acting, front r	iose		
	n	<u>10unt</u>				
Part Number	Stroke Length (in.)	"A" (in)	Weight (lbs)	Price		
<u>A17005DN</u>	0.5	3.62	0.4	\$29.00		
A17010DN	1.0	4.12	0.4	\$30.00		
A17020DN	2.0	5.12	0.4	\$32.00		
<u>A17030DN</u>	3.0	6.12	0.5	\$34.50		
<u>A17040DN</u>	4.0	7.12	0.5	\$30.50		
<u>A17050DN</u>	5.0	8.12	0.6	\$33.00		
<u>A17060DN</u>	6.0	9.12	0.6	\$35.00		
A17080DN	8.0	11.12	0.7	\$48.50		
A17100DN	10.0	13.12	0.8	\$43.00		
A17120DN	12.0	15.12	0.9	\$47.00		
	Spec	ifications				
304 SS cylinder body	•	0.90 sq. in. pisto	on area			
High strength aluminum end caps		Pre-lubricated for maintenance-free life				
High Strength carbon	High Strength carbon steel piston rod		Pressure rating 250 psi			
Low friction Buna-N s	eals	Temperature range -20°F to 200°F (-28 to 93°C)				
Extend force at 100 p	si = 90.0 lb.	Retract force at	100 psi = 82.3 lb.	Retract force at 100 psi = 82.3 lb.		

0.50 [12.7]

Ø0.62

PILOT

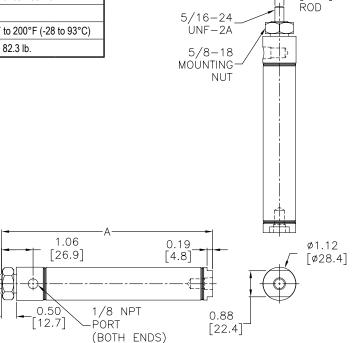
 $[\phi 15.7]$

Mount Style		Bracket	Nut
Front Nose Mou	nt	AMB-6	AN-58-18*
Rear Pivot Mount		_	_
Dauble 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

inches [mm]





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).

Cylinder, 1-1/16 in bore, double acting, rear pivot mount						
Part Number	Stroke Length (in.)	"A" (in)	Weight (lbs)	Price		
<u>A17010DP</u>	1.0	4.84	0.4	\$35.00		
A17020DP	2.0	5.84	0.4	\$37.50		
A17030DP	3.0	6.84	0.5	\$40.00		
<u>A17040DP</u>	4.0	7.84	0.5	\$35.00		
A17050DP	5.0	8.84	0.6	\$37.00		
A17060DP	6.0	9.84	0.6	\$39.00		
A17080DP	8.0	11.84	0.7	\$43.50		
A17100DP	10.0	13.84	0.8	\$47.50		
A17120DP	12.0	15.84	0.9	\$51.50		

<u> A17120DP</u>	12.0	15.84 0.9		\$51.50		
Specifications						
304 SS cylinder body 0.90 sq. in. piston area						
High strength aluminu	gh strength aluminum end caps Pre-lubricated for maintenance-free life					
High strength carbon steel piston rod Pressure rating 250 psi						
Low friction Buna-N s	refriction Buna-N seals Temperature range -20°F to 200°F (-28 to 93°C)			93°C)		
Extend force at 100 n	Extend force at 100 psi = 90.0 lb Retract force at 100 psi = 82.3 lb					

0.50

[12.7]

Ø0.62

PILOT

(BOTH

ENDS)

[ø15.8]

1.19

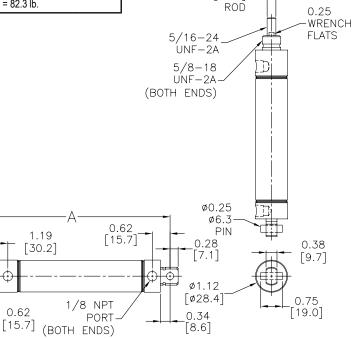
[30.2]

Mount Style		Bracket	Nut
Front Nose Mou	ınt	AMB-6	AN-58-18
Rear Pivot Mou	ınt	APB-2	_
Pour la Ford Manual		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

inches [mm]



Ø0.31 [ø7.9]



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 acting, rear pivot mount,							
magnetic piston							
Part Number	Stroke Length (in)	"A" (in)	Weight (lbs)	Price			
<u>A17010DP-M</u>	1.0	4.84	0.4	\$52.00			
<u>A17020DP-M</u>	2.0	5.84	0.4	\$54.00			
<u>A17030DP-M</u>	3.0	6.84	0.5	\$57.00			
<u>A17040DP-M</u>	4.0	7.84	0.5	\$49.00			
A17050DP-M	5.0	8.84	0.6	\$51.00			
A17060DP-M	6.0	9.84	0.6	\$53.00			
A17080DP-M	8.0	11.84	0.7	\$57.00			
A17100DP-M	10.0	13.84	0.8	\$61.00			
A17120DP-M	12.0	15.84	0.9	\$65.00			
	Spec	ifications					

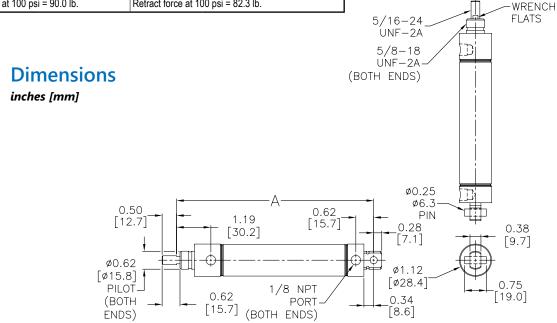
Specifications Specification Specification Specification Specification Specification Specification Specification Specification			
304 SS cylinder body	0.90 sq. in. piston area		
High strength aluminum end caps	Pre-lubricated for maintenance-free life		
303 SS piston rod	Pressure rating 250 psi		
Low 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 Mou	nt	AMB-6	AN-58-18
Rear Pivot Mou	nt	APB-2	_
Dauble Ford 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 [Ø7.9] ROD

0.25





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

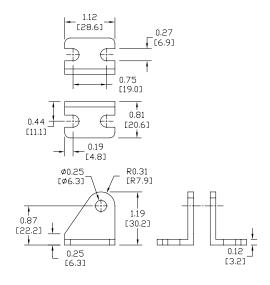
A-Series Pneumatic Cylinder 1-1/16 inch Bore Accessories							
Part Number	Description	Pcs/Pkg	Wt (lb)	Price			
<u>APB-2</u>	Cylinder pivot mounting bracket without pivot pin used to mount 3/4, 7/8, and 1-1/16 inch bore NITRA pneumatic stainless steel round body, interchangeable, non-repairable cylinders.	1	0.2	\$4.50			
<u>AMB-6</u>	Cylinder mounting bracket 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	\$4.75			
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.		0.1	\$5.50			
<u>AN-58-18</u>	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	\$1.25			

Dimensions

inches [mm]

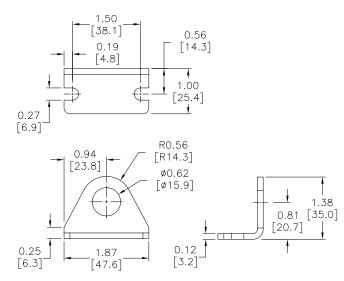
APB-2





AMB-6







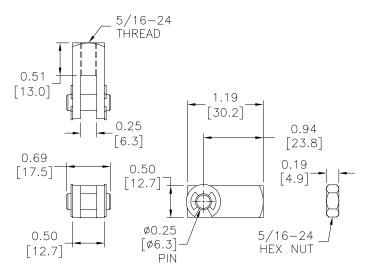
A-Series Pneumatic Cylinders 1-1/16 inch Bore Accessories

Dimensions

inches [mm]

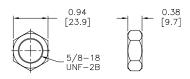






AN-58-18







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, and all cylinders with magnetic pistons) 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.

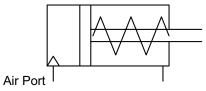
Features

- 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

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.

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.



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



Double-Acting Cylinder (Force in Push and Pull Direction)

Mounting Options



Nose mount uses one AMB bracket and one AN nut.



Pivot mount uses one APB or one APBP bracket.

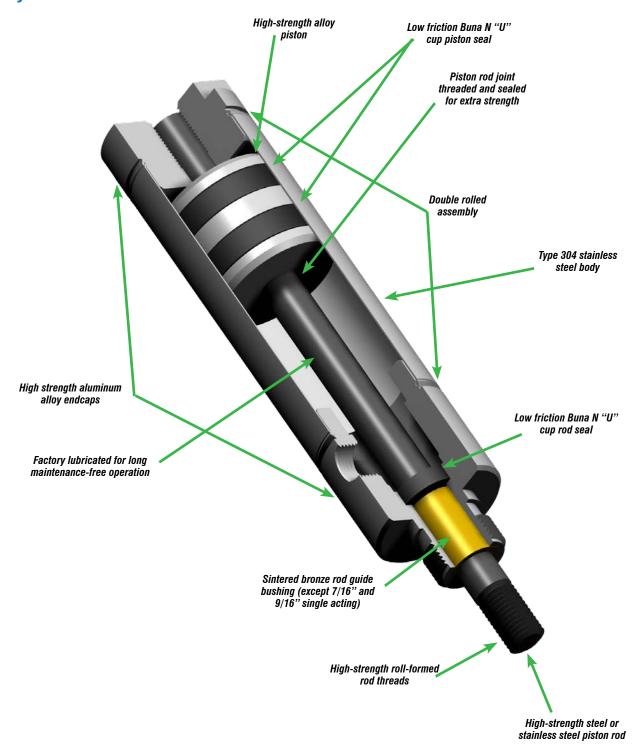


Double end mount uses two AMB brackets and two AN nuts.



Pneumatic Cylinders - A-Series

Cylinder Features



Made in North America



CPS Series Cylinder Position Switches

Position Switch Cross Reference Chart					
NITRA Switch Type	Cylinder Brand (may fit some of these cylinders)	Photo Example	Groove Illustration		
CPS CPSF	NITRA A-Series NITRA D-Series NITRA F-Series		Switch Switch Tie Rod Adapter (CPSA Series) Adapter & Band (CPSB or CPSS Series)		
CPS9C	DE-STA-CO Robohand SMC Compact Air Bimba Fabco		2.53 Min. +/- 0.1 R 2.13 +/- 0.05		
CPS9D	NITRA L-Series Fabco Numatics Rotomation		1.52		
CPS9E	NITRA L-Series Fabco Numatics Rotomation		1.52		
CPS9F	NITRA G-Series Fabco Festo Numatics Rotomation		44 J 3.2 6.5 — 6.5		
СРЅ9Н	NITRA E-Series NITRA H-Series		3.05 TO		
CPS9M	Norgren		5.1 +/-0.1 R 3.25		
CPS9Q	NITRA L-Series NITRA G-Series Parker Fabco Festo Numatics Rotomation		4.4 1		