

7/8 in. Bore, Single-acting, Spring Return, Front Nose Mount



NITRA pneumatic stainless steel round body, interchangeable, non-repairable cylinder, 7/8 inch bore, 1/8 NPT port, single acting, spring return, front nose mount.

Cylinder, 7/8 in. bore, single acting, spring return, front nose mount				
Part Number	Stroke Length (in.)	"A" (in)	Weight (lbs)	Price
<u>A14010SN</u>	1.0	3.40	0.3	\$24.00
<u>A14020SN</u>	2.0	4.96	0.4	\$27.50
<u>A14030SN</u>	3.0	6.52	0.4	\$32.00
	Specifi	cations		
304 SS cylinder body		0.60 sq. in. piston	area	
High strength aluminun	n end caps	Pre-lubricated for maintenance-free life		
High strength carbon s	teel 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	= 60.0 lb.	Spring force = 3 lb. relaxed, 6 lb. compressed		

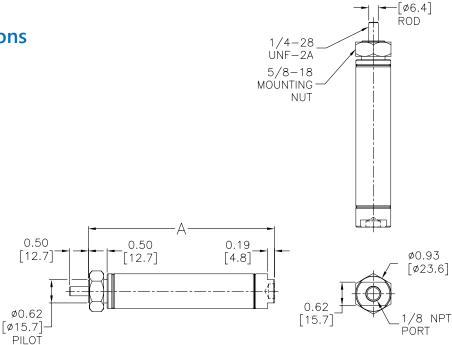
Mount Style		Bracket	Nut
Front Nose Mou	nt	AMB-6	AN-58-18*
Rear Pivot Mount		-	-
Double End Mount	Front	-	-
Double End Mount	Rear	-	-

Ø0.25

* (1) Nut included with cylinder Cylinder rod clevis ARC-14-28 See end of 7/8" bore section for Accessories

Dimensions

inches [mm]





7/8 in. Bore, Single-acting, Spring Return, Rear Pivot Mount

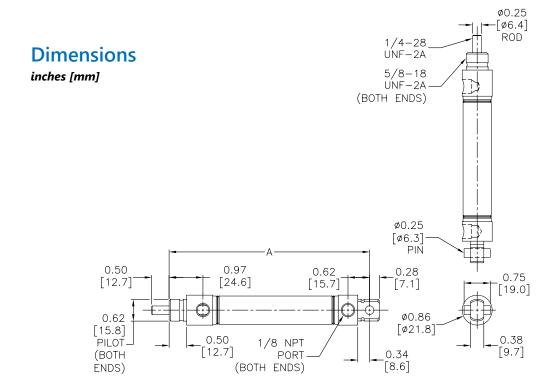


NITRA pneumatic stainless steel round body, interchangeable, non-repairable cylinder, 7/8 inch bore, 1/8 NPT port, single acting, spring return, rear pivot mount (pivot pin included).

Cylinder, 7/8 in bore, single acting, spring return, rear pivot mount					
Part Number	Stroke Length (in.)	"A" (in)	Weight (lbs)	Price	
A14010SP	1.0	4.03	0.3	\$30.00	
A14020SP	2.0	5.59	0.4	\$33.50	
A14030SP	3.0	7.15	0.4	\$37.00	
	Specific	ations			
304 SS cylinder body		0.60 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 rang 93°C)	e -20°F to 200°F	- (-28 to	
Extend force at 100 pa	si = 60.0 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	Rear Pivot Mount		-
Double End Mount	Front	AMB-6	AN-58-18
Double Ella Moull	Rear	AMB-6	AN-58-18

Cylinder rod clevis ARC-14-28 See end of 7/8" bore section for Accessories Note: Drive pin out for double end mounting





7/8 in. Bore, Double-acting, Front Nose Mount



NITRA pneumatic stainless steel round body, interchangeable, non-repairable cylinder, 7/8 inch bore, 1/8 NPT ports, double acting, front nose mount.

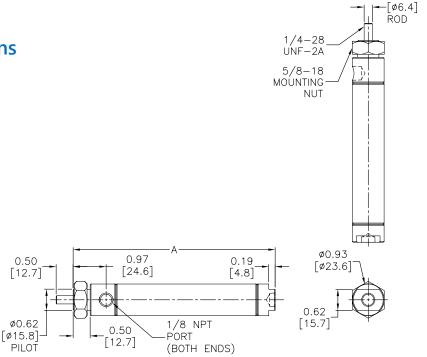
Cylinder,	Cylinder, 7/8 in bore, double acting, front nose					
	<u>mount</u>					
Part Number	Stroke Length (in.)	"A" (in)	Weight (lbs)	Price		
<u>A14010DN</u>	1.0	3.94	0.3	\$24.50		
<u>A14020DN</u>	2.0	4.94	0.3	\$32.00		
<u>A14030DN</u>	3.0	5.94	0.3	\$34.00		
<u>A14040DN</u>	4.0	6.94	0.4	\$36.50		
	Specifi	cations				
304 SS cylinder body		0.60 sq. in. piston area				
High strength aluminu	ım 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 p	si = 60.0 lb.	Retract force at 100 psi = 55.1 lb.				

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

Ø0.25

Dimensions

inches [mm]



^{* (1)} Nut included with cylinder Cylinder rod clevis ARC-14-28 See end of 7/8" bore section for Accessories



7/8 in. Bore, Double-acting, Double End Mount



NITRA pneumatic stainless steel round body, interchangeable, non-repairable cylinder, 7/8 inch bore, 1/8 NPT ports, double acting, double end mount.

Cylinder, 7/8 in bore, double acting, double end mount					
Part Number	Stroke Length (in.)	"A" (in)	Weight (lbs)	Price	
A14010DD	1.0	4.56	0.4	\$32.00	
A14020DD	2.0	5.56	0.4	\$40.50	
A14030DD	3.0	6.56	0.4	\$43.00	
A14040DD	4.0	7.56	0.4	\$45.50	
	Specific	cations			
304 SS cylinder body		0.60 sq. in. pist	on area		
High strength aluminu	ım 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 p	si = 60.0 lb.	Retract force at 100 psi = 55.1 lb.			

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

* (2) Nut included with cylinder Cylinder rod clevis ARC-14-28 See end of 7/8" bore section for Accessories

Ø0.25 [ø6.4] **Dimensions** UNF-2A inches [mm] 5/8-18 MOUNTING NUT (BOTH ENDS) 0.97 0.50 0.62 0.28 0.38 [24.6] [15.7] [12.7] [7.1] [9.7] Ø0.62 $[\emptyset 6.3]$ [ø15.8] 0.50 HOLE 1/8 NPT Ø0.93 PILOT [12.7] PORT 0.34 $[\emptyset 23.6]$ (BOTH ENDS) [8.6] (BOTH ENDS)



7/8 in. Bore, Double-acting, Double end Mount, Magnetic Piston

0.97

[24.6]

0.50

[12.7]

1/8 NPT

(BOTH ENDS)

PORT



NITRA pneumatic stainless steel round body, interchangeable, non-repairable cylinder, 7/8 inch bore, 1/8 NPT ports, double acting, double end mount, magnetic piston.

Cylinder, 7/8 in bore, double acting, double end mount, magnetic piston					
Part Number	Stroke Length (in.)	"A" (in)	Weight (lbs)	Price	
A14010DD-M	1.0	4.56	0.4	\$43.50	
A14020DD-M	2.0	5.56	0.4	\$55.00	
A14030DD-M	3.0	6.56	0.4	\$58.00	
A14040DD-M	4.0	7.56	0.4	\$60.00	
	Spec	ifications			
304 SS cylinder body		0.60 sq. in. piston area			
High strength aluminu	m end caps	Pre-lubricated for maintenance-free life			
303 SS 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 = 60.0 lb.	Retract force at	100 psi = 55.1 lb.		

0.50

[12.7]

Ø0.62

PILOT

[ø15.8]

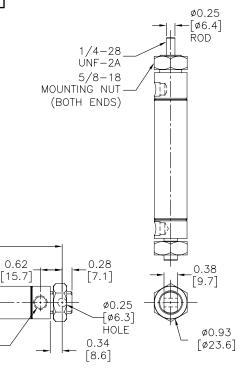
(BOTH ENDS)

Mount Style		Bracket	Nut
Front Nose Mou	nt	AMB-6	AN-58-18*
Rear Pivot Mount		APBP-3	-
Pourt Front Front		AMB-6	AN-58-18*
Double End Mount	Rear	AMB-6	AN-58-18*

* (2) Nuts included with cylinder Cylinder rod clevis ARC-14-28 See end of 7/8" bore section for Accessories

Dimensions

inches [mm]





A-Series Pneumatic Cylinders 7/8 inch Bore Accessories

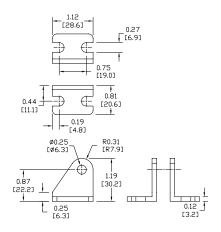
A-Series Pneumatic Cylinder 7/8 inch Bore Accessories						
Part Number	Part Number Description Pcs/P					
<u>APB-2</u>	Cylinder pivot mounting bracket without pivot pin used to mount 3/4, 7/8, and 1-1/16 inch bore, NITRA pneumatic, stainless stee,I round body, interchangeable, non-repairable cylinders.	1	0.1	\$4.75		
<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	\$5.00		
APBP-3	Cylinder pivot mounting bracket with pivot pin used to mount 7/8 inch bore NITRA pneumatic, stainless steel, round body, interchangeable, non-repairable cylinders.	1	0.1	\$5.50		
ARC-14-28	Cylinder rod clevis and hex nut, 1/4-28 thread, for use with 3/4 and 7/8 inch bore NITRA pneumatic, stainless steel, round body, interchangeable, non-repairable cylinders.	1	0.1	\$5.00		
<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]

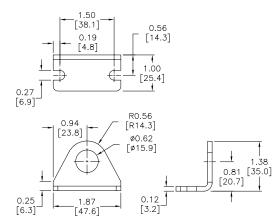
APB-2





AMB-6







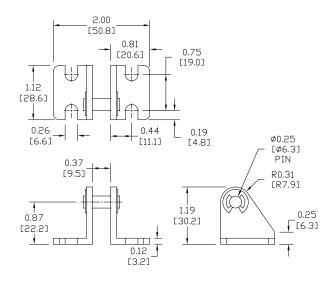
A-Series Pneumatic Cylinders 7/8 inch Bore Accessories

Dimensions

inches [mm]

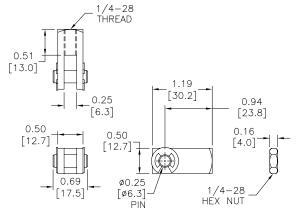
APBP-3





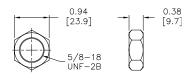
ARC-14-28





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.

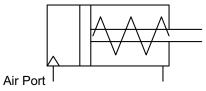
Features

- 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.

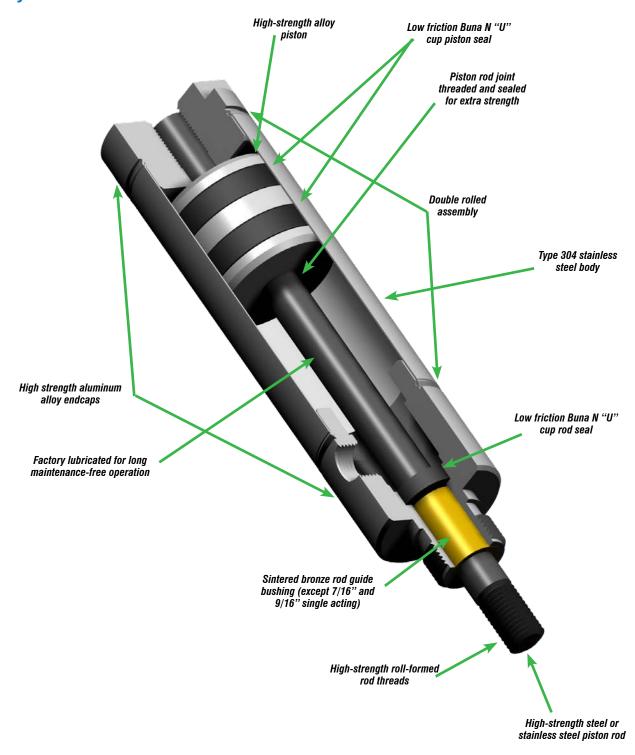


Double end mount uses two AMB brackets and two AN nuts.



Pneumatic Cylinders - A-Series

Cylinder Features



Made in North America



CPS Series Cylinder Position Switches

		Position Switch Cro	ss 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 Tie Rod Adapter (CFRA 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 4.82
CPS9E	NITRA L-Series Fabco Numatics Rotomation		1.52
CPS9F	NITRA G-Series Fabco Festo Numatics Rotomation		44 5.1 6.5 —
СРЅ9Н	NITRA E-Series NITRA H-Series		3.05 TR 0.2 R 0.2 R 0.2
CPS9M	Norgren		5.1 +/-0.1 R 3.25
CPS9Q	NITRA L-Series NITRA G-Series Parker Fabco Festo Numatics Rotomation		4.4 3.2 6.5 — 6.5 —