A-Series Pneumatic Cylinders 7/8 inch Bore

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***
A14010SN	1.0	3.40	0.3	$23.00
A14020SN	2.0	4.96	0.4	$26.50
A14030SN	3.0	6.52	0.4	$30.50

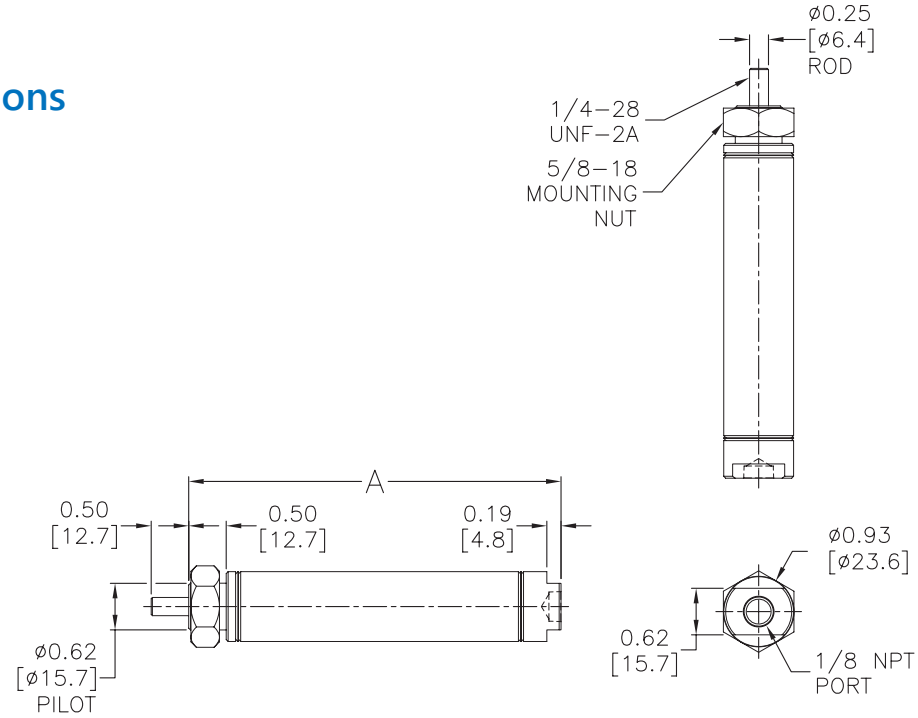
Specifications	
304 SS cylinder body	0.60 sq. in. piston area
High strength aluminum end caps	Pre-lubricated for maintenance-free life
High strength carbon steel piston rod	Pressure rating 250 psi
Low friction Buna-N seals	Temperature range -20°F to 200°F (-28 to 93°C)
Extend force at 100 psi = 60.0 lb.	Spring force = 3 lb. relaxed, 6 lb. compressed

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

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

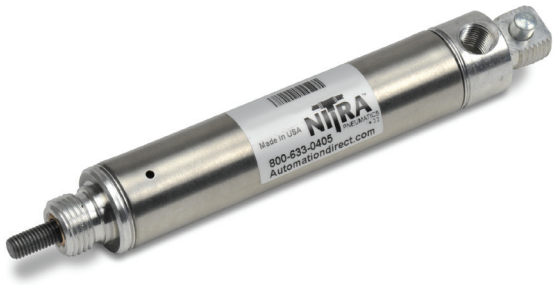
Dimensions

inches [mm]



A-Series Pneumatic Cylinders 7/8 inch Bore

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	$28.50
A14020SP	2.0	5.59	0.4	$32.00
A14030SP	3.0	7.15	0.4	$35.50

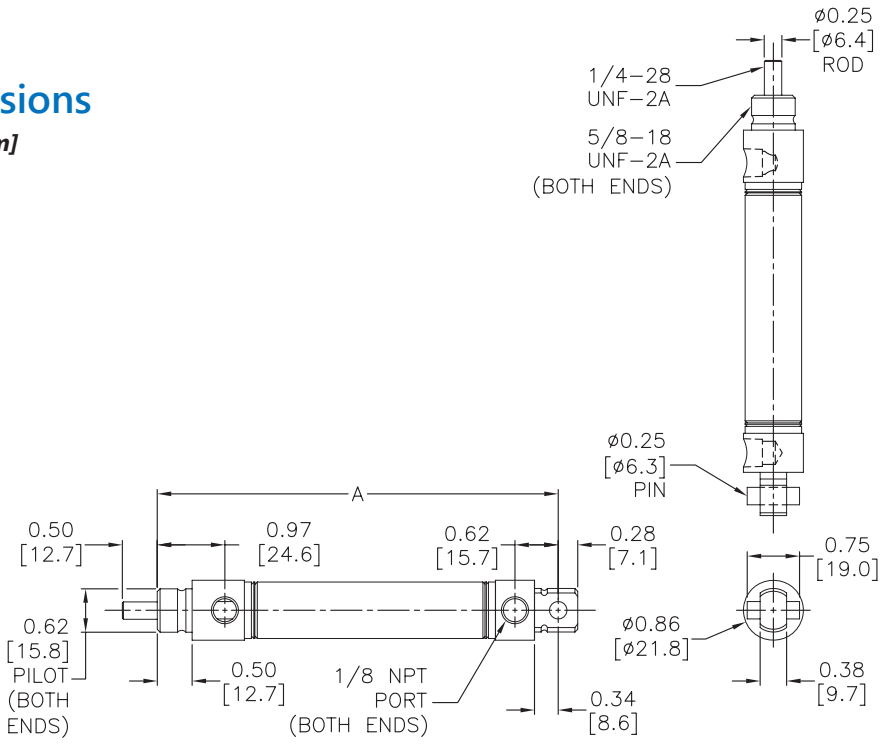
Specifications	
304 SS cylinder body	0.60 sq. in. piston area
High strength aluminum end caps	Pre-lubricated for maintenance-free life
High strength carbon steel piston rod	Pressure rating 250 psi
Low friction Buna-N seals	Temperature range -20°F to 200°F (-28 to 93°C)
Extend force at 100 psi = 60.0 lb.	Spring force = 3 lb. relaxed, 6 lb. compressed

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

Dimensions

inches [mm]



A-Series Pneumatic Cylinders 7/8 inch Bore

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, 7/8 in bore, double acting, front nose mount				
Part Number	***Stroke Length (in.)***	***"A" (in)***	***Weight (lbs)***	***Price***
A14010DN	1.0	3.94	0.3	$23.50
A14020DN	2.0	4.94	0.3	$30.50
A14030DN	3.0	5.94	0.3	$32.50
A14040DN	4.0	6.94	0.4	$35.00

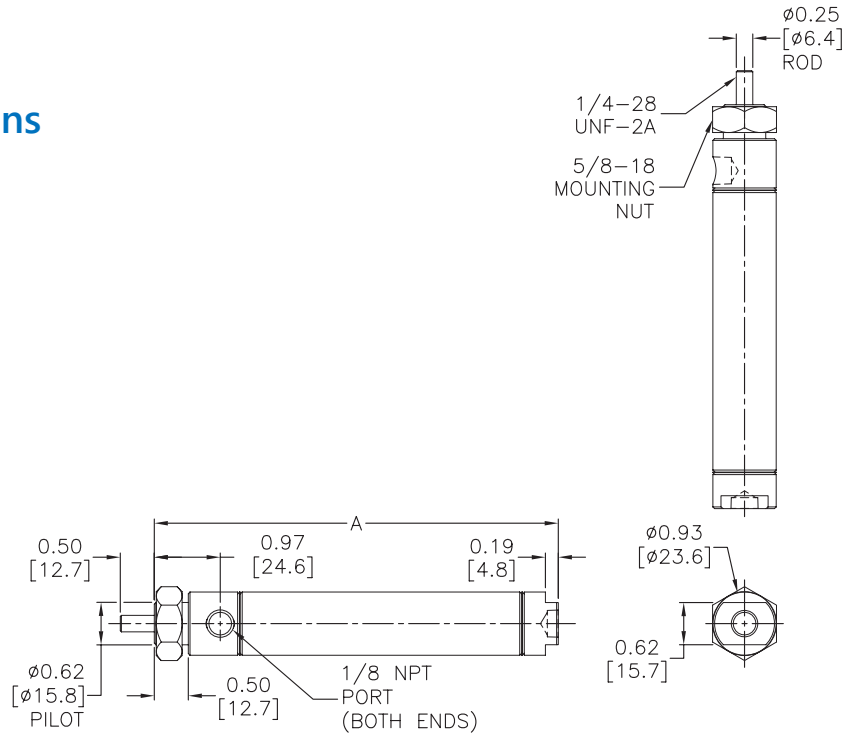
Specifications	
304 SS cylinder body	0.60 sq. in. piston area
High strength aluminum end caps	Pre-lubricated for maintenance-free life
High strength carbon steel piston rod	Pressure rating 250 psi
Low friction Buna-N seals	Temperature range -20°F to 200°F (-28 to 93°C)
Extend force at 100 psi = 60.0 lb.	Retract force at 100 psi = 55.1 lb.

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

**** (1) Nut 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

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	$30.50
A14020DD	2.0	5.56	0.4	$38.50
A14030DD	3.0	6.56	0.4	$41.00
A14040DD	4.0	7.56	0.4	$43.50

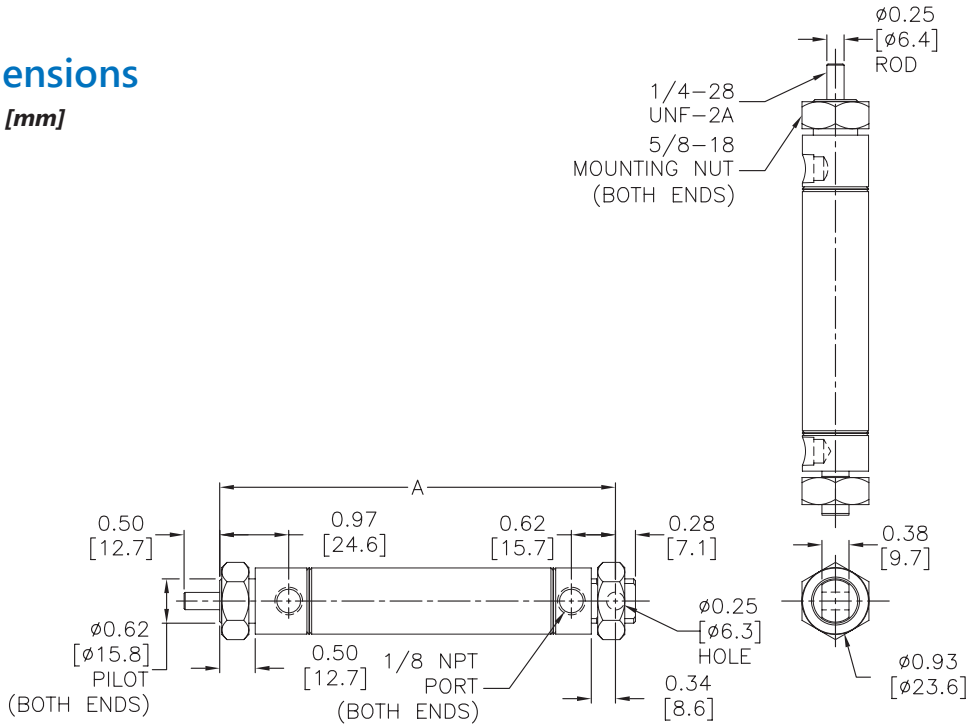
Specifications	
304 SS cylinder body	0.60 sq. in. piston area
High strength aluminum end caps	Pre-lubricated for maintenance-free life
303 SS piston rod	Pressure rating 250 psi
Low friction Buna-N seals	Temperature range -20°F to 200°F (-28 to 93°C)
Extend force at 100 psi = 60.0 lb.	Retract force at 100 psi = 55.1 lb.

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

Dimensions

inches [mm]



A-Series Pneumatic Cylinders 7/8 inch Bore

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

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	$41.50
A14020DD-M	2.0	5.56	0.4	$53.00
A14030DD-M	3.0	6.56	0.4	$55.00
A14040DD-M	4.0	7.56	0.4	$57.00

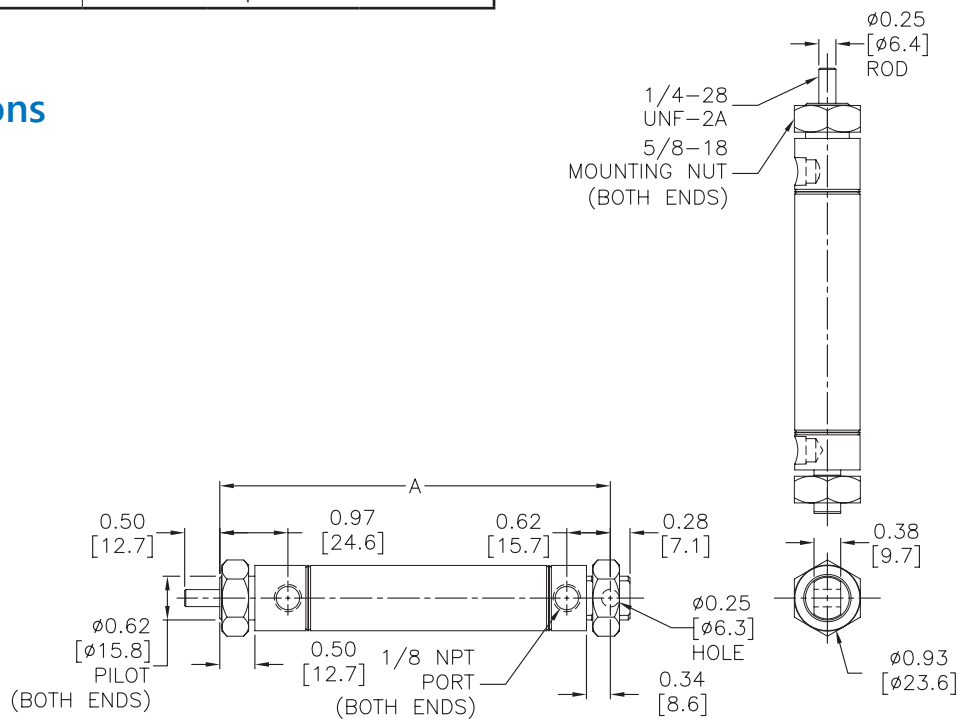
Specifications	
304 SS cylinder body	0.60 sq. in. piston area
High strength aluminum end caps	Pre-lubricated for maintenance-free life
303 SS piston rod	Pressure rating 250 psi
Low friction Buna-N seals	Temperature range -20°F to 200°F (-28 to 93°C)
Extend force at 100 psi = 60.0 lb.	Retract force at 100 psi = 55.1 lb.

Mount Style		***Bracket***	***Nut***
Front Nose Mount		AMB-6	AN-58-18*
Rear Pivot Mount		APBP-3	–
Double End Mount	Front	AMB-6	AN-58-18*
	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]



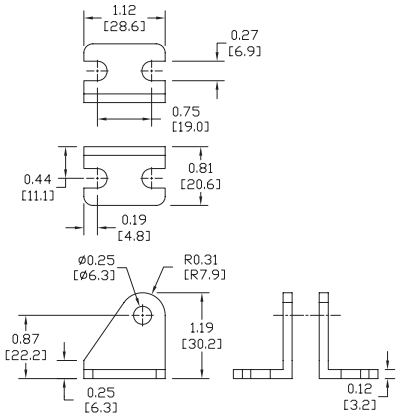
A-Series Pneumatic Cylinders 7/8 inch Bore Accessories

A-Series Pneumatic Cylinder 7/8 inch Bore Accessories				
Part Number	**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 stee,l round body, interchangeable, non-repairable cylinders.	1	0.1	$4.50
AMB-6	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
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	$5.25
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	$4.75
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	$1.25

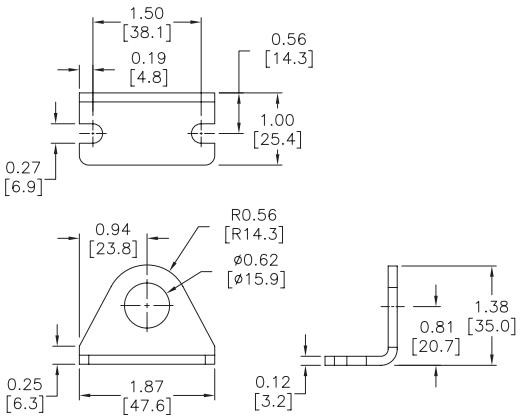
Dimensions

inches [mm]

APB-2



AMB-6

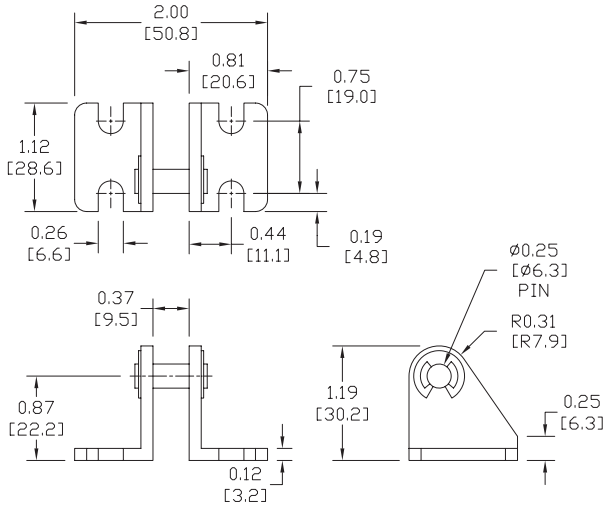


A-Series Pneumatic Cylinders
7/8 inch Bore Accessories

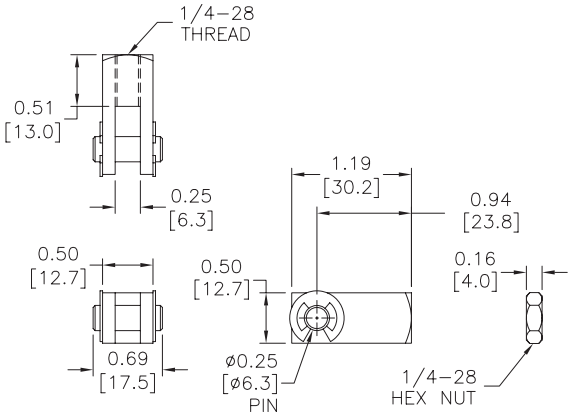
Dimensions

inches [mm]

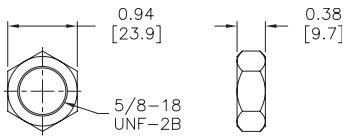
APBP-3



ARC-14-28



AN-58-18



Pneumatic Cylinders - A-Series

Nitra A-Series Pneumatic Stainless Steel Round Body Air Cylinders

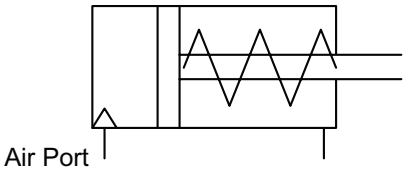
The NITRA Pneumatics A-Series non-repairable stainless steel round body cylinders includes bore sizes from 7/16" to 2" and stroke lengths from 1/2" to 18" to meet a broad range of applications. These high quality cylinders are constructed with stainless steel bodies and double rolled-in high strength 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

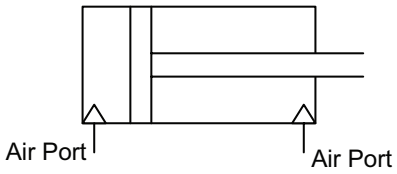
Operation

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.



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

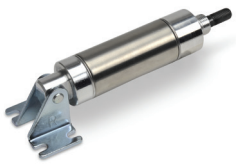
Double-acting cylinders have two compressed air ports. One of the ports will extend the rod in the "push" direction and the other port will retract the rod in the "pull" directon.



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

Mounting Options

Nose mount uses one AMB bracket and one AN nut.

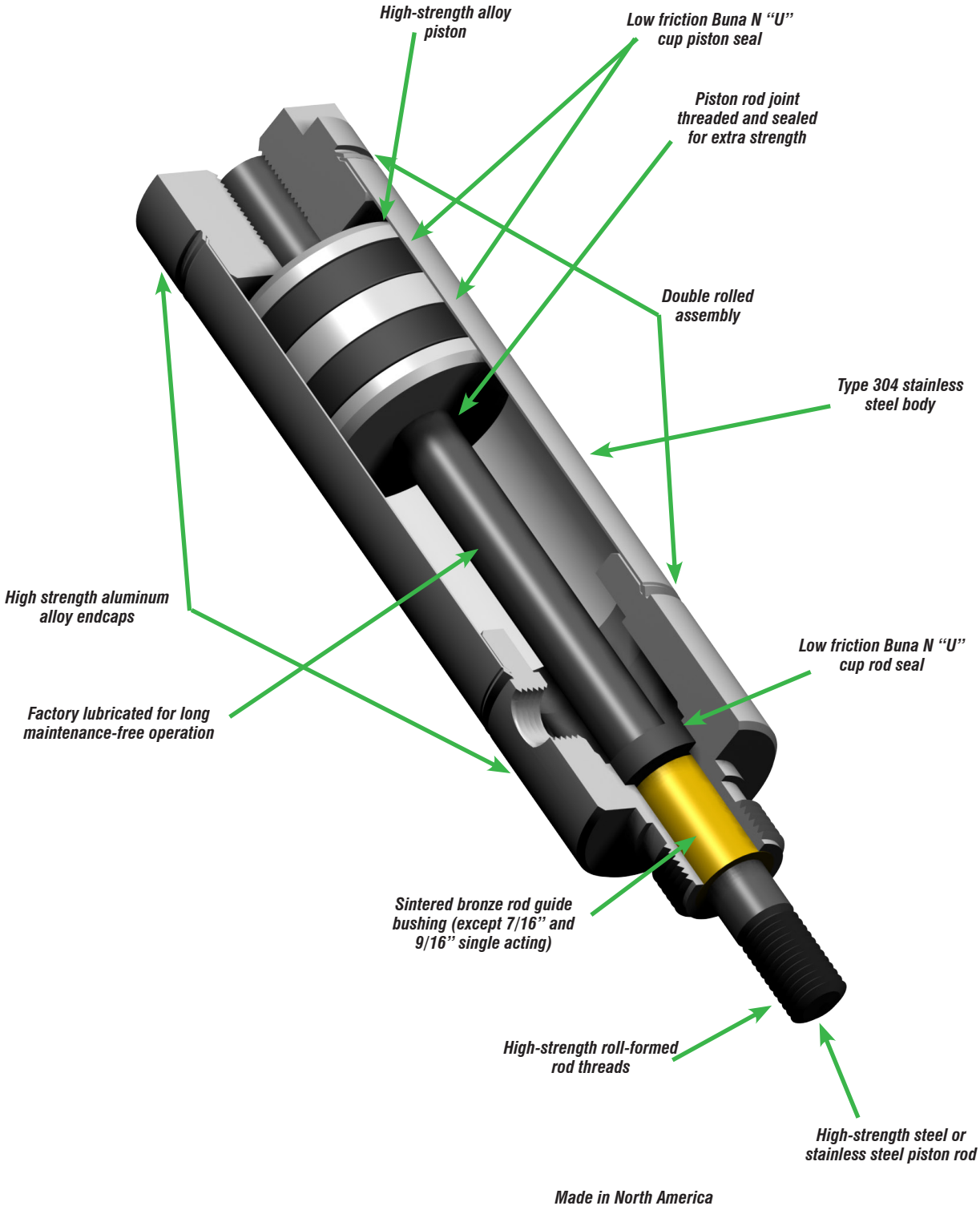


Pivot mount uses one APB or one APBP bracket.

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

Pneumatic Cylinders - A-Series

Cylinder Features

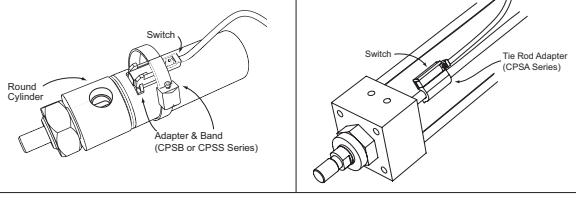
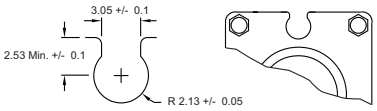
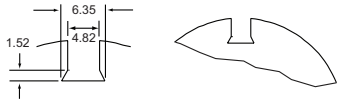
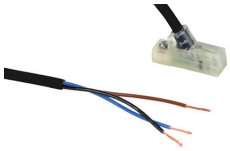
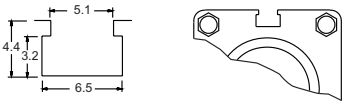
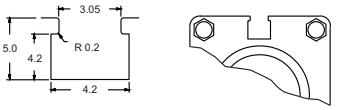
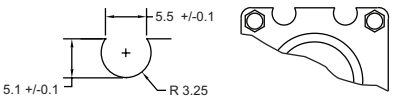
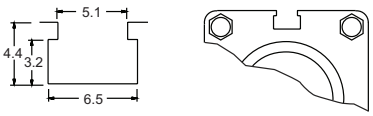
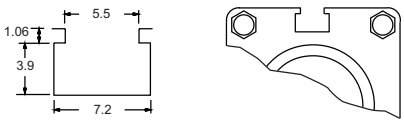


Made in North America

NITRA PNEUMATICS

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, D-Series, F-Series		
CPS9C	DE-STA-CO Robohand SMC Compact Air		
CPS9D	Fabco Numatics Rotomation		
CPS9F	NITRA G-Series Fabco Festo Numatics Rotomation		
CPS9H	NITRA E-Series NITRA H-Series		
CPS9M	Norgren		
CPS9Q	NITRA G-Series Parker		
CPS9T	SMC