



# F-Series All Stainless Steel Pneumatic Cylinders - 2 inch Bore

## 2 in. Bore, Double-acting, Front Nose Mount



NITRA pneumatic stainless steel round body, interchangeable, non-repairable cylinder, 2 inch bore, 1/4 inch female NPT ports, double acting, front nose mount.

| All Stainless Steel Cylinder<br>2 in. bore, double acting, front nose mount |                     |  |          |                     |
|---|---------------------|--|----------|---------------------|
| Part Number   | Stroke Length (in.) | Weight (lbs)                                   | Price    | Drawing Link        |
| <a href="#">F32010DN</a>  | 1.0                 | 2.4  | \$147.00 | <a href="#">PDF</a> |
| <a href="#">F32020DN</a>  | 2.0                 | 2.6  | \$152.00 | <a href="#">PDF</a> |
| <a href="#">F32030DN</a>  | 3.0                 | 2.9  | \$157.00 | <a href="#">PDF</a> |
| <a href="#">F32040DN</a>  | 4.0                 | 3.0  | \$160.00 | <a href="#">PDF</a> |
| <a href="#">F32050DN</a>  | 5.0                 | 3.3  | \$165.00 | <a href="#">PDF</a> |
| <a href="#">F32060DN</a>  | 6.0                 | 3.5  | \$169.00 | <a href="#">PDF</a> |
| Specifications  |                     |  |          |                     |
| 300 series stainless steel cylinder body                                    |                     | 3.1 sq. in. piston area                        |          |                     |
| Rod diameter 5/8 in.  |                     | Rod thread 1/2-20                              |          |                     |
| 300 series stainless steel end caps   |                     | Pre-lubricated for maintenance-free life       |          |                     |
| 300 series stainless 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 = 310.0 lb.   |                     | Retract force at 100 psi = 279.3 lb.           |          |                     |

| Mount Style      | Bracket | Nut       |
|------------------|---------|-----------|
| Front Nose Mount | FMB-11  | FN-114-12 |
| Rear Pivot Mount | -       | -         |
| Double End Mount | Front   | -         |
|                  | Rear    | -         |

Cylinder rod clevis FRC-12-20

See end of F-series section for Accessories



# F-Series All Stainless Steel Pneumatic Cylinders - 2 inch Bore

## 2 in. Bore, Double-acting, Double End Mount



NITRA pneumatic stainless steel round body, interchangeable, non-repairable cylinder, 2 inch bore, 1/4 inch female NPT ports, double acting, double end mount.

| All Stainless Steel Cylinder<br>2 in. bore, double acting, double end mount |                     |  |          |                     |
|---|---------------------|--|----------|---------------------|
| Part Number   | Stroke Length (in.) | Weight (lbs)                                   | Price    | Drawing Link        |
| <a href="#">F32010DD</a>  | 1.0                 | 2.7  | \$169.00 | <a href="#">PDF</a> |
| <a href="#">F32020DD</a>  | 2.0                 | 2.8  | \$174.00 | <a href="#">PDF</a> |
| <a href="#">F32030DD</a>  | 3.0                 | 3.2  | \$178.00 | <a href="#">PDF</a> |
| <a href="#">F32040DD</a>  | 4.0                 | 3.3  | \$182.00 | <a href="#">PDF</a> |
| <a href="#">F32050DD</a>  | 5.0                 | 3.6  | \$187.00 | <a href="#">PDF</a> |
| <a href="#">F32060DD</a>  | 6.0                 | 3.8  | \$190.00 | <a href="#">PDF</a> |
| <a href="#">F32080DD</a>  | 8.0                 | 4.2  | \$199.00 | <a href="#">PDF</a> |
| <a href="#">F32100DD</a>  | 10.0                | 4.6  | \$208.00 | <a href="#">PDF</a> |
| <a href="#">F32120DD</a>  | 12.0                | 5.1  | \$215.00 | <a href="#">PDF</a> |
| <a href="#">F32140DD</a>  | 14.0                | 5.6  | \$145.00 | <a href="#">PDF</a> |
| <a href="#">F32160DD</a>  | 16.0                | 6.0  | \$233.00 | <a href="#">PDF</a> |
| <a href="#">F32180DD</a>  | 18.0                | 6.5  | \$242.00 | <a href="#">PDF</a> |
| Specifications  |                     |  |          |                     |
| 300 series stainless steel cylinder body                                    |                     | 3.1 sq. in. piston area                        |          |                     |
| Rod diameter 5/8 in.  |                     | Rod thread 1/2-20                              |          |                     |
| 300 series stainless steel end caps   |                     | Pre-lubricated for maintenance-free life       |          |                     |
| 300 series stainless 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 = 310.0 lb.   |                     | Retract force at 100 psi = 279.3 lb.           |          |                     |

| Mount Style      | Bracket                | Nut                              |
|------------------|------------------------|----------------------------------|
| Front Nose Mount | <a href="#">FMB-11</a> | FN-114-12                        |
| Rear Pivot Mount | <a href="#">FPBP-4</a> | -                                |
| Double End Mount | Front                  | <a href="#">FMB-11</a> FN-114-12 |
|                  | Rear                   | <a href="#">FMB-11</a> FN-114-12 |

Cylinder rod clevis [FRC-12-20](#)

See end of F-series section for Accessories



# F-Series All Stainless Steel Pneumatic Cylinders - 2 inch Bore

## 2 in. Bore, Double-acting, Double End Mount, Magnetic Piston



NITRA pneumatic stainless steel round body, interchangeable, non-repairable cylinder, 2 inch bore, 1/4 inch female NPT ports, double acting, double end mount, magnetic piston.

| All Stainless Steel Cylinder<br>2 in. bore, double acting, double end mount, magnetic piston |                     |  |          |                     |
|--|---------------------|--|----------|---------------------|
| Part Number  | Stroke Length (in.) | Weight (lbs)                                   | Price    | Drawing Link        |
| <a href="#">F32010DD-M</a>   | 1.0                 | 2.7  | \$192.00 | <a href="#">PDF</a> |
| <a href="#">F32020DD-M</a>   | 2.0                 | 2.8  | \$196.00 | <a href="#">PDF</a> |
| <a href="#">F32030DD-M</a>   | 3.0                 | 3.2  | \$204.00 | <a href="#">PDF</a> |
| <a href="#">F32040DD-M</a>   | 4.0                 | 3.3  | \$205.00 | <a href="#">PDF</a> |
| <a href="#">F32050DD-M</a>   | 5.0                 | 3.6  | \$209.00 | <a href="#">PDF</a> |
| <a href="#">F32060DD-M</a>   | 6.0                 | 3.8  | \$213.00 | <a href="#">PDF</a> |
| <a href="#">F32080DD-M</a>   | 8.0                 | 4.2  | \$221.00 | <a href="#">PDF</a> |
| <a href="#">F32100DD-M</a>   | 10.0                | 4.6  | \$231.00 | <a href="#">PDF</a> |
| <a href="#">F32120DD-M</a>   | 12.0                | 5.0  | \$238.00 | <a href="#">PDF</a> |
| <a href="#">F32140DD-M</a>   | 14.0                | 5.6  | \$248.00 | <a href="#">PDF</a> |
| <a href="#">F32160DD-M</a>   | 16.0                | 6.0  | \$256.00 | <a href="#">PDF</a> |
| <a href="#">F32180DD-M</a>   | 18.0                | 6.5  | \$264.00 | <a href="#">PDF</a> |
| Specifications   |                     |  |          |                     |
| 300 series stainless steel cylinder body   |                     | 3.10 sq. in. piston area                       |          |                     |
| Rod diameter 5/8 in.   |                     | Rod thread 1/2-20                              |          |                     |
| 300 series stainless steel end caps  |                     | Pre-lubricated for maintenance-free life       |          |                     |
| 300 series stainless steel piston rod  |                     | Pressure rating 250 psi                        |          |                     |
| Low friction Buna-N seals  |                     | Temperature range -20°F to 185°F (-28 to 85°C) |          |                     |
| Extend force at 100 psi = 310 lb.  |                     | Retract force at 100 psi = 279.3 lb.           |          |                     |

| Mount Style      | Bracket                | Nut                    |
|------------------|------------------------|------------------------|
| Front Nose Mount | <a href="#">FMB-11</a> | FN-114-12              |
| Rear Pivot Mount | <a href="#">FPBP-4</a> | -                      |
| Double End Mount | Front                  | <a href="#">FMB-11</a> |
|                  | Rear                   | <a href="#">FMB-11</a> |

Cylinder rod clevis [FRC-12-20](#)  
See end of F-series section for Accessories



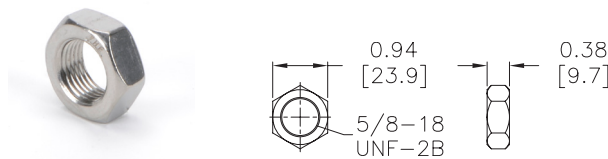
# F-Series All Stainless Steel Pneumatic Cylinder Accessories

| F-Series All Stainless Steel Pneumatic Cylinder Accessories |   |         |         |         |
|---|---|---------|---------|---------|
| Part Number   | Description   | Pcs/Pkg | Wt (lb) | Price   |
| <a href="#"><b>FN-58-18</b></a>                             | Cylinder mounting nut with 5/8-18 UNF-2B threads, stainless steel, used to mount 3/4 and 1-1/16 inch bore NITRA F-series round body air cylinders | 1       | 0.1     | \$3.50  |
| <a href="#"><b>FN-34-16</b></a>                             | Cylinder mounting nut with 3/4-16 UNF-2B threads, stainless steel, used to mount 1-1/2 inch bore NITRA F-series round body air cylinders          | 1       | 0.1     | \$4.50  |
| <a href="#"><b>FN-114-12</b></a>                            | Cylinder mounting nut with 1-1/4-12 UNF-2B threads, stainless steel, used to mount 2 inch bore NITRA F-series round body air cylinders            | 1       | 0.3     | \$11.00 |
| <a href="#"><b>FMB-6</b></a>                                | Cylinder mounting bracket, stainless steel, used to mount 3/4 and 1-1/16 inch bore NITRA F-series round body air cylinders                        | 1       | 0.1     | \$10.00 |
| <a href="#"><b>FMB-7</b></a>                                | Cylinder mounting bracket, stainless steel, used to mount 1-1/2 inch bore NITRA F-series round body air cylinders                                 | 1       | 0.2     | \$30.50 |
| <a href="#"><b>FMB-11</b></a>                               | Cylinder mounting bracket, stainless steel, used to mount 2 inch bore NITRA F-series round body air cylinders                                     | 1       | 0.5     | \$44.00 |
| <a href="#"><b>FPBP-2</b></a>                               | Cylinder pivot mounting bracket with pivot pin, stainless steel, used to mount 3/4 and 1-1/16 inch bore NITRA F-series round body air cylinders   | 1       | 0.1     | \$28.00 |
| <a href="#"><b>FPBP-3</b></a>                               | Cylinder pivot mounting bracket with pivot pin, stainless steel, used to mount 1-1/2 inch bore NITRA F-series round body air cylinders            | 1       | 0.2     | \$35.00 |
| <a href="#"><b>FPBP-4</b></a>                               | Cylinder pivot mounting bracket with pivot pin, stainless steel, used to mount 2 inch bore NITRA F-series round body air cylinders                | 1       | 0.3     | \$43.00 |
| <a href="#"><b>FRC-14-28</b></a>                            | Cylinder rod clevis and hex nut, stainless steel, 1/4-28 thread, for use with 3/4 inch bore NITRA F-series round body air cylinders               | 1       | 0.1     | \$36.00 |
| <a href="#"><b>FRC-516-24</b></a>                           | Cylinder rod clevis and hex nut, stainless steel, 5/16-24 thread, for use with 1-1/16 inch bore NITRA F-series round body air cylinders           | 1       | 0.1     | \$40.50 |
| <a href="#"><b>FRC-716-20</b></a>                           | Cylinder rod clevis and hex nut, stainless steel, 7/16-20 thread, for use with 1-1/2 inch bore NITRA F-series round body air cylinders            | 1       | 0.2     | \$50.00 |
| <a href="#"><b>FRC-12-20</b></a>                            | Cylinder rod clevis and hex nut, stainless steel, 1/2-20 thread, for use with 2 inch bore NITRA F-series round body air cylinders                 | 1       | 0.2     | \$59.00 |

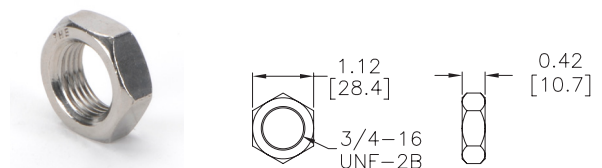
## Dimensions

inches [mm]

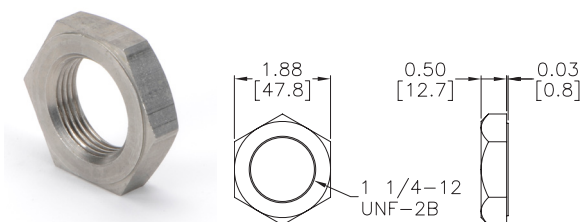
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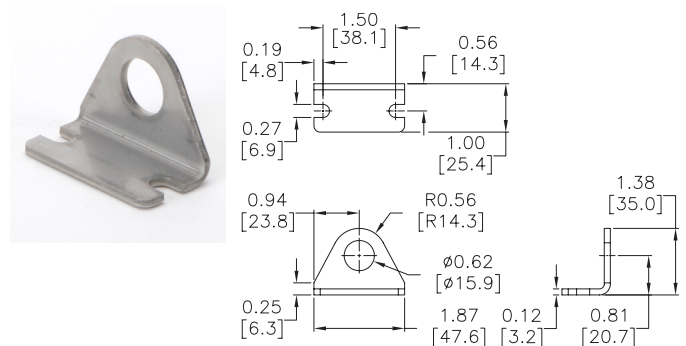
### FN-34-16



### FN-114-12



### FMB-6



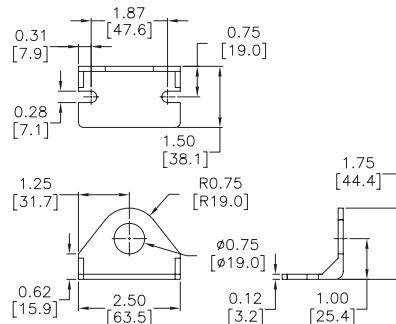


# F-Series All Stainless Steel Pneumatic Cylinder Accessories

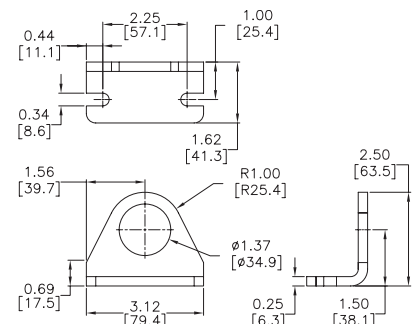
## Dimensions

inches [mm]

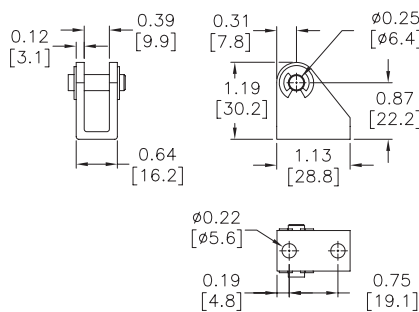
### FMB-7



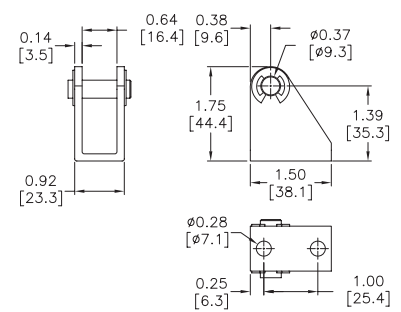
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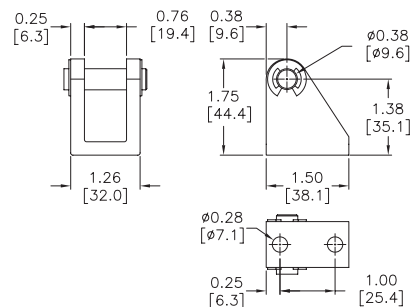
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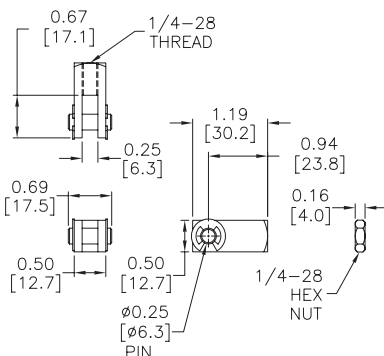
### FPBP-3



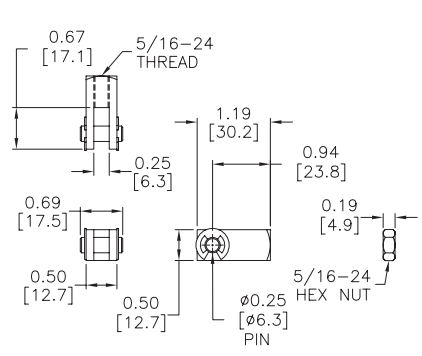
### FPBP-4



### FRC-14-28



### FRC-516-24



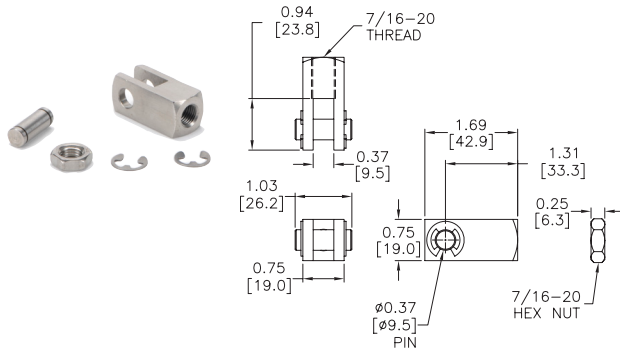


# F-Series All Stainless Steel Pneumatic Cylinder Accessories

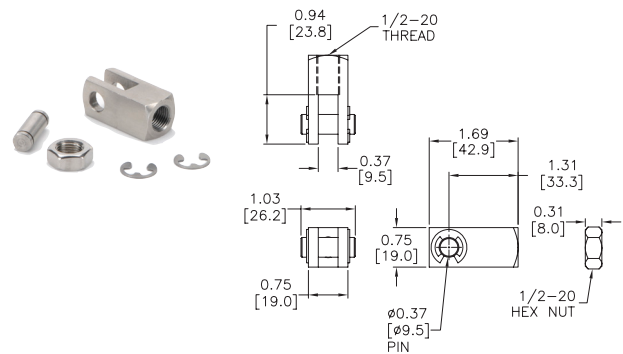
## Dimensions

inches [mm]

### FRC-716-20



### FRC-12-20





# 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<br>CPSF                           | NITRA A-Series<br>NITRA D-Series<br>NITRA F-Series                                     |               |                     |
| CPS9C                                 | DE-STA-CO<br>Robohand<br>SMC<br>Compact Air<br>Bimba<br>Fabco                          |               |                     |
| CPS9D                                 | NITRA L-Series<br>Fabco<br>Numatics<br>Rotomation                                      |               |                     |
| CPS9E                                 | NITRA L-Series<br>Fabco<br>Numatics<br>Rotomation                                      |               |                     |
| CPS9F                                 | NITRA G-Series<br>Fabco<br>Festo<br>Numatics<br>Rotomation                             |               |                     |
| CPS9H                                 | NITRA E-Series<br>NITRA H-Series   |               |                     |
| CPS9M                                 | Norgren  |               |                     |
| CPS9Q                                 | NITRA L-Series<br>NITRA G-Series<br>Parker<br>Fabco<br>Festo<br>Numatics<br>Rotomation |               |                     |