



# F-Series All Stainless Steel Pneumatic Cylinders - 1-1/2 inch Bore

1-1/2 in. Bore, Double-acting, Double End Mount, Magnetic Piston



NITRA pneumatic stainless steel round body, interchangeable, non-repairable cylinder, 1-1/2 inch bore, 1/8 inch female NPT ports, double acting, double end mount, magnetic piston.

| All Stainless Steel Cylinder<br>1-1/2 in. bore, double acting, double end mount, magnetic piston |                     |                                                |          |                            |
|--------------------------------------------------------------------------------------------------|---------------------|------------------------------------------------|----------|----------------------------|
| Part Number                                                                                      | Stroke Length (in.) | Weight (lbs)                                   | Price    | Drawing Link               |
| <a href="#"><u>F24010DD-M</u></a>                                                                | 1.0                 | 1.2                                            | \$176.00 | <a href="#"><u>PDF</u></a> |
| <a href="#"><u>F24020DD-M</u></a>                                                                | 2.0                 | 1.4                                            | \$181.00 | <a href="#"><u>PDF</u></a> |
| <a href="#"><u>F24030DD-M</u></a>                                                                | 3.0                 | 1.5                                            | \$184.00 | <a href="#"><u>PDF</u></a> |
| <a href="#"><u>F24040DD-M</u></a>                                                                | 4.0                 | 1.7                                            | \$191.00 | <a href="#"><u>PDF</u></a> |
| <a href="#"><u>F24050DD-M</u></a>                                                                | 5.0                 | 1.7                                            | \$191.00 | <a href="#"><u>PDF</u></a> |
| <a href="#"><u>F24060DD-M</u></a>                                                                | 6.0                 | 1.8                                            | \$196.00 | <a href="#"><u>PDF</u></a> |
| <a href="#"><u>F24080DD-M</u></a>                                                                | 8.0                 | 2.1                                            | \$203.00 | <a href="#"><u>PDF</u></a> |
| <a href="#"><u>F24100DD-M</u></a>                                                                | 10.0                | 2.3                                            | \$211.00 | <a href="#"><u>PDF</u></a> |
| <a href="#"><u>F24120DD-M</u></a>                                                                | 12.0                | 2.6                                            | \$223.00 | <a href="#"><u>PDF</u></a> |
| Specifications                                                                                   |                     |                                                |          |                            |
| 300 series stainless steel cylinder body                                                         |                     | 1.7 sq. in. piston area                        |          |                            |
| Rod diameter 7/16 in.                                                                            |                     | Rod thread 7/16-20                             |          |                            |
| 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 = 170.0 lb.                                                              |                     | Retract force at 100 psi = 155.0 lb.           |          |                            |

| Mount Style      | Bracket                       | Nut                                   |
|------------------|-------------------------------|---------------------------------------|
| Front Nose Mount | <a href="#"><u>FMB-7</u></a>  | FN-34-16                              |
| Rear Pivot Mount | <a href="#"><u>FPBP-3</u></a> | —                                     |
| Double End Mount | Front                         | <a href="#"><u>FMB-7</u></a> FN-34-16 |
|                  | Rear                          | <a href="#"><u>FMB-7</u></a> FN-34-16 |

Cylinder rod clevis [FRC-716-20](#)  
See end of F-series section for Accessories



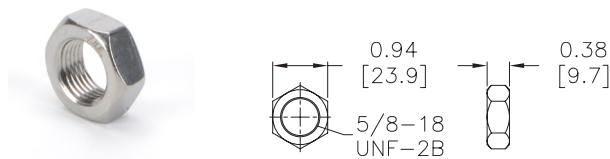
# F-Series All Stainless Steel Pneumatic Cylinder Accessories

| 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 |

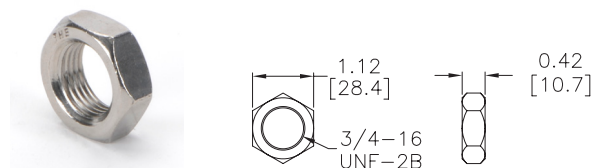
## Dimensions

inches [mm]

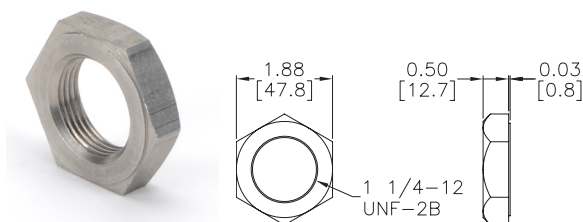
### [\*\*FN-58-18\*\*](#)



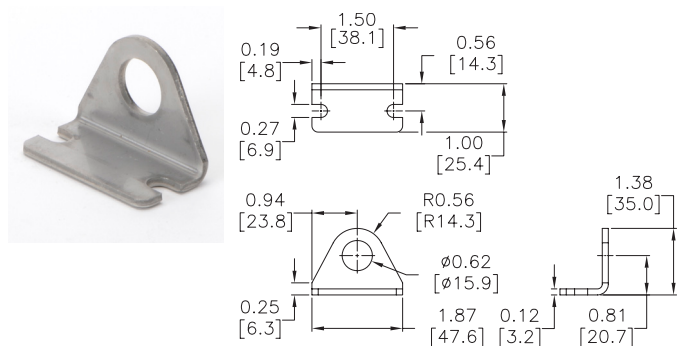
### [\*\*FN-34-16\*\*](#)



### [\*\*FN-114-12\*\*](#)



### [\*\*FMB-6\*\*](#)

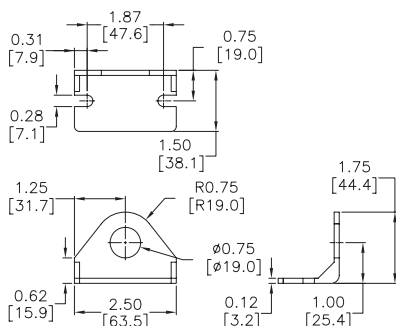




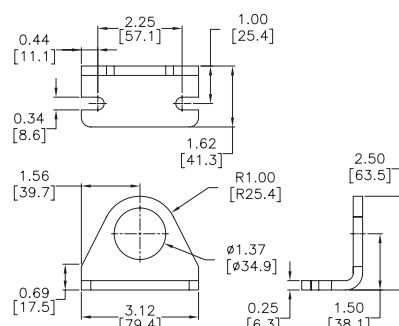
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***inches [mm]***

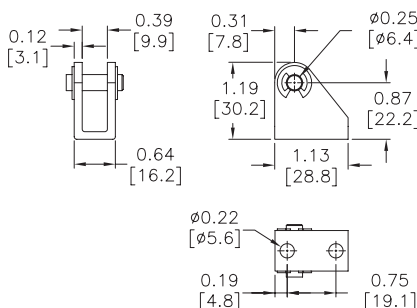
## FMB-7



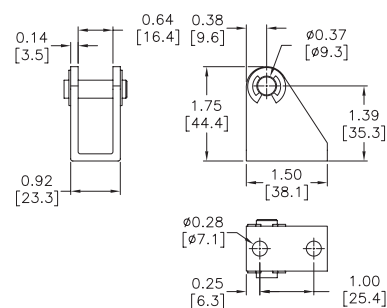
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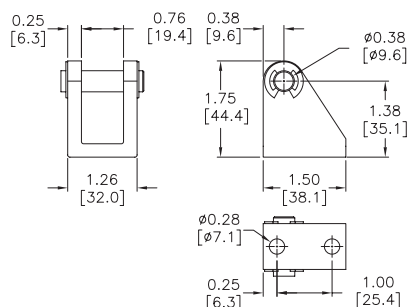
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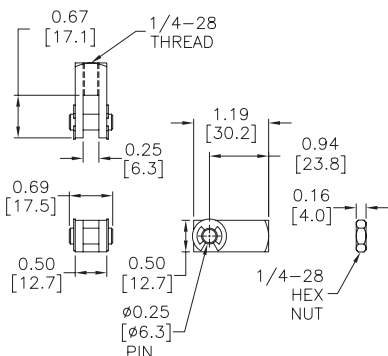
### FPBP-3



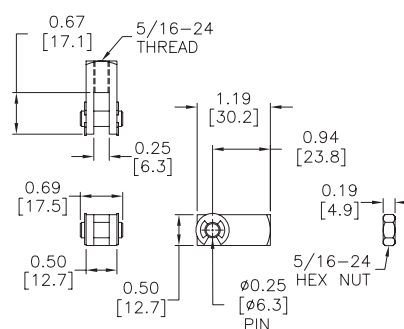
## FPBP-4



FRC-14-28



**FRC-516-24**



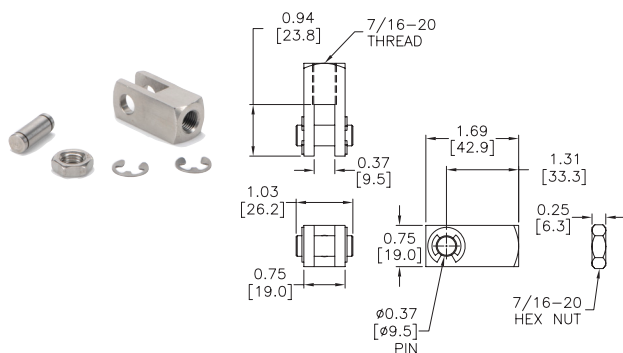


# F-Series All Stainless Steel Pneumatic Cylinder Accessories

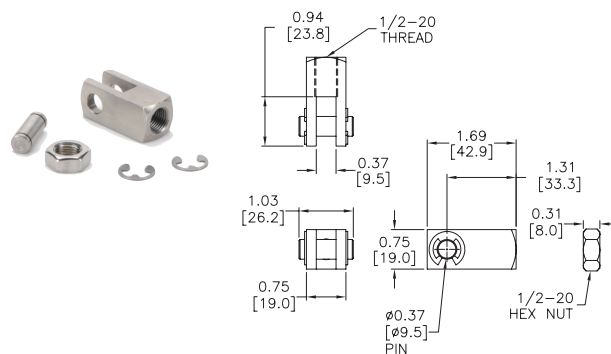
## Dimensions

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