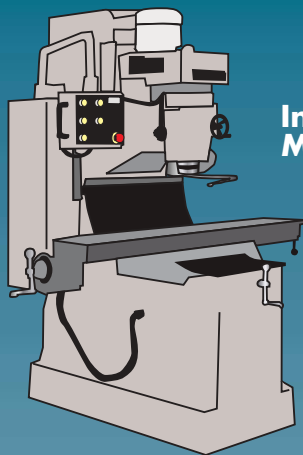


# Compact Hydraulic Cylinders



Aviation



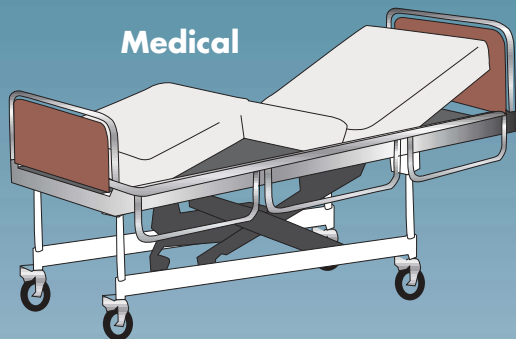
Industrial  
Machines



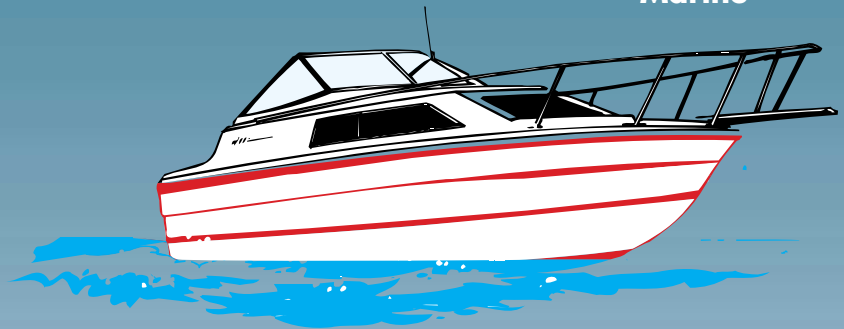
Aviation



Animation



Medical



Marine

## *For a Variety of Market Applications*

- Hi Pressure - 5000 PSI
- Small Bore 1/2" and Larger
- Small Rod 1/4" and Larger
- Position Feedback Cylinders 1/2" and Larger
- 100% Tested

**Custom Actuator Products, Inc.**  
**Specialists in Compact Fluid Power**

2500 Niagara Lane • Plymouth, MN 55447  
Phone: (763) 525-0844 Fax: (763) 525-0845

# “Smart” Mini Cylinders With .001" Repeatability

**BORE SIZES FROM 3/4 TO 4". UP TO 5000 PSI Hydraulic or Pneumatic types**

CAP “Smart” cylinders are ideal for situations where space constraints would otherwise limit design flexibility. Because of their small size, our cylinders fit nearly anywhere, allowing unlimited potential for their application.

The big difference in the CAP cylinder is our innovative use of mini linear resistance transducers (MLRTs) and linear resistance transducers (LRTs). These linear feedback devices do not control the rod position. They sense the position of the cylinder and send an analog output of its position through a miniature resistance element to the associated electronics. These compact transducers enable us to build the smallest position feedback cylinders available today.

Our cylinders feature:

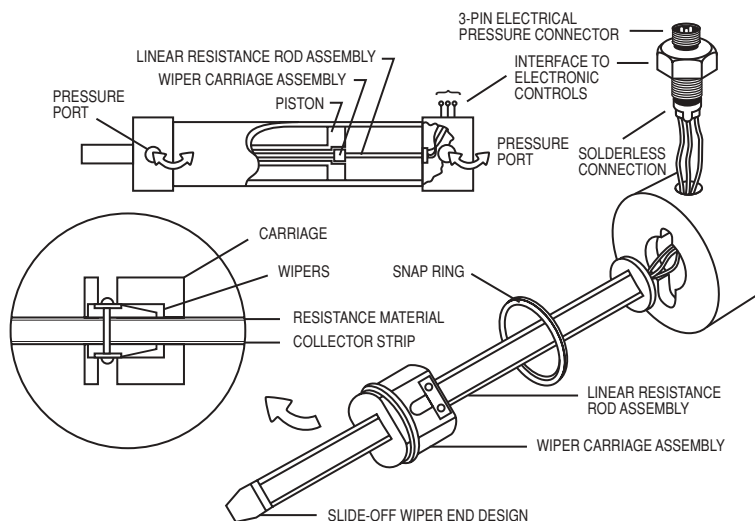
- 0.001" repeatability, depending on your system's electronic package.
- 500 million inches of travel life
- Pressures up to 5000 psi
- Temperature range to 185° F

We offer three basic types of control devices: a simple two-position controller which can sense the beginning and end of the stroke or any position in-between, a closed-loop signal tracking controller with a PID control loop, and a scaled analog output device to give a ratiometric output to a host controller. CAP is a leader in manufacturing small bore, high-pressure cylinders using the latest technologies to better serve companies like yours. Call today and find out how we can help with your design problems.



## Typical Smart Cylinder Configuration

The CAP smart cylinder completely encloses the position sensing unit in the cylinder body. This provides a small profile and protects the sensor from external damage. Wire leads are sealed with a non-conducting material that withstands the internal fluid pressure. Several types of electronic interface connectors can be specified. The connector can be positioned at 90° or 180° from the fluid ports to fit your specific design requirements.



# LRT/MLRT – INTERNAL CYLINDER POSITION FEEDBACK DEVICES

## 7500 LRT/7316 MLRT Ordering Information

Specify the following for a complete internal position feedback package:

- LRT model and stroke
- EPC model
- Cable interface

## The CAP “Smart” Cylinder can be ordered in 3 Models:

- Small Bore/Small Rod Industrial
- NFPA
- Special

## 7500 LRT MODEL CODES

Order Number	Description
7500-XXX-A	LRT with no cap-end flange – non-slide-off wiper
7500-XXY-B1SW 7500-XXY-B2SW 7500-XXY-B3SW	Standard LRT – slide-off wiper – high pressure (See below for bore sizes)
7500-XXY-B1SWT 7500-XXY-B2SWT 7500-XXY-B3SWT	High Temperature LRT – slide-off wiper – high pressure (300°F)
7500-XXY-MSH	MSLRT unit that installs in identical cap-end cylinder envelope modification as the magnetostrictive model transducers. Includes slide-off wiper carriage.

### 7500 LRT SPECS

<i>Fluids</i> .....	Hydraulic or Pneumatic Note: Cannot be water-based fluid	<i>Temp</i> .....	Std. 160° F ..... Hi-Temp 300° F
<i>Repeatability</i> .....	001" Depending on Electronics	<i>Min. Rod Size</i> .....	7/8" dia.
<i>Life</i> .....	500 Million Inches of Wiper Travel	<i>Piston Rod Drill</i> .....	1/2" dia.
<i>Non-linearity</i> .....	0.1% (48" Max.) ..... 1% (72" Max.)	<i>Velocity</i> .....	H=30" per sec. ..... P=50" per sec.
<i>Max. Stroke</i> .....	72" (call CAP for others)	<i>Signal Output</i> .....	Ratiometric Analog Output
<i>Pressure Rating</i> .....	5000 psi	<i>Signal Input</i> .....	DC Voltage 5 Min. 50 Max.

NOTE: MUST HAVE HI-IMPEDENCE INTERFACE OF >500K TO LIMIT SENSOR CURRENT.

Bore Sizes for LRT Flange	B1: PH 1-1/2", 2", 2-1/2", HH 1-1/2" B2: PH 3-1/4", 4", 5", 6", HH 2", 2-1/2", 3-1/4", 4", 5" B3: HH 6" and greater
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## 7316 MLRT MODEL CODES

7316-XXY-S1	MLRT-Mini LRT non-slide-off for small bore/small rod cylinders. Bore sizes from 3/4" to 1-1/2"
7316-XXY-S1SW 7316-XXY-S0SW	MLRT-Mini LRT with slide-off wiper carriage. MLRT-Mini LRT with slide-off wiper carriage for replacement in CAP Smart Cylinders

### 7316 MLRT SPECS

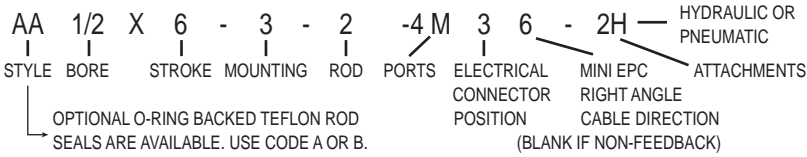
<i>Fluids</i> .....	Hydraulic or Pneumatic Note: Cannot be water-based fluid	<i>Temp</i> .....	Std. 160° F ..... Hi-Temp 300° F
<i>Repeatability</i> .....	001" Depending on Electronics	<i>Min. Rod Size</i> .....	5/16" dia.
<i>Life</i> .....	500 Million Inches of Wiper Travel	<i>Piston Rod Drill</i> .....	3/16" dia.
<i>Non-linearity</i> .....	0.1% (18" Max.)	<i>Velocity</i> .....	H=30" per sec. ..... P=50" per sec.
<i>Max. Stroke</i> .....	18"	<i>Signal Output</i> .....	Ratiometric Analog Output
<i>Pressure Rating</i> .....	5000 psi	<i>Signal Input</i> .....	DC Voltage 5 Min. 50 Max.

NOTE: MUST HAVE HI-IMPEDENCE INTERFACE OF 1 MEGAOHM TO LIMIT SENSOR CURRENT.

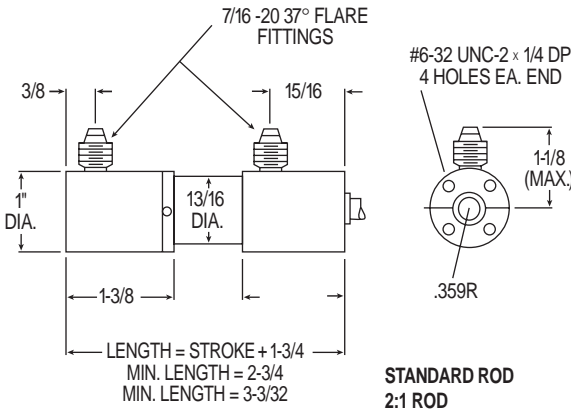
XXY	XX=Stroke in whole inches Y = Additional stroke in 1/8" increments
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## 1/2" BORE CYLINDER

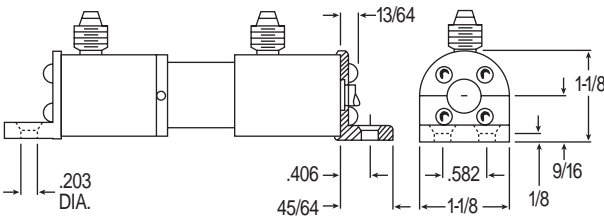
The Cylinder Model Code Will Appear As Follows:



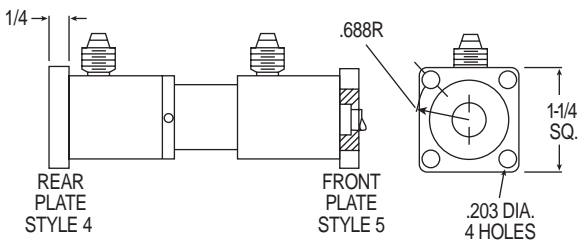
### END MOUNT— STYLE 1



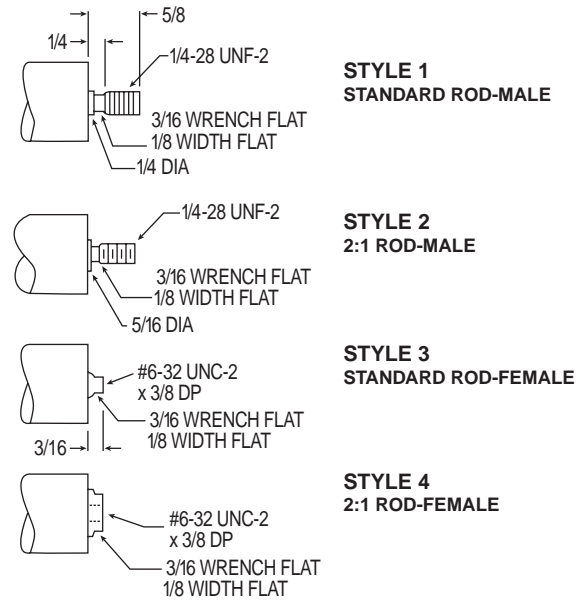
### FOOT MOUNT (BOTH ENDS) – STYLE 3



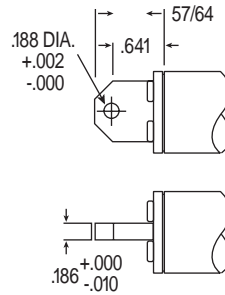
### PLATE MOUNT (EITHER END) – STYLE 4 STYLE 5



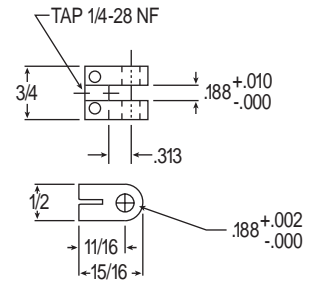
### ROD ENDS



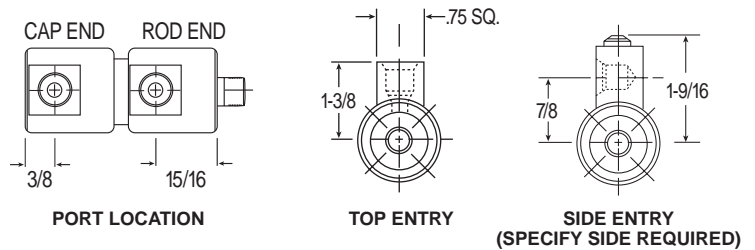
### PIVOT MOUNT STYLE 2



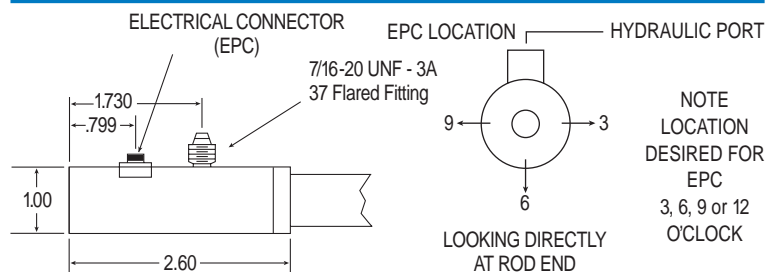
### ROD CLEVIS (ATTACHMENT 2)



### PORT STYLE BB



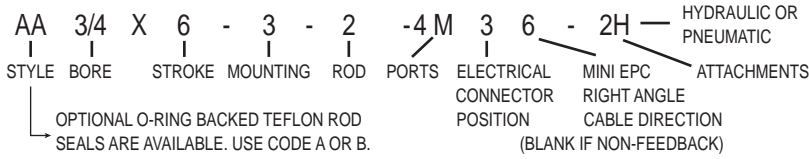
FOR POSITION FEEDBACK CYLINDERS  
ADD 1.565 TO BODY LENGTH OF CYLINDER



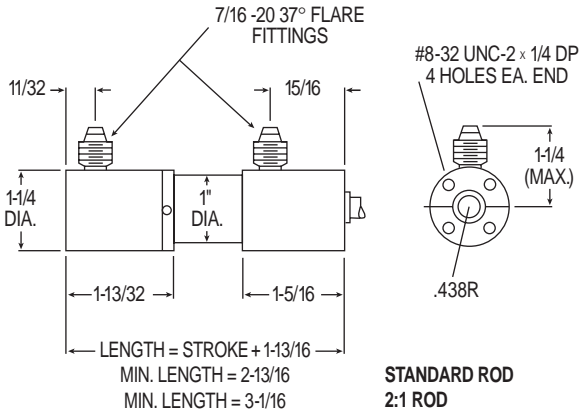
Specifications	STD. ROD	2:1 ROD
Diameter of bore, inches	0.500	0.500
Diameter of piston rod, inches	0.250	0.312
Effective area, rod side, sq. ins.	0.150	0.120
Effective area, piston side, sq. ins.	0.200	0.200

## 3/4" BORE CYLINDER

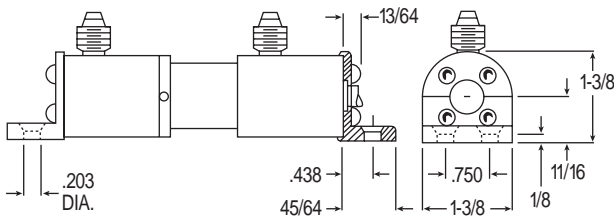
The Cylinder Model Code Will Appear As Follows:



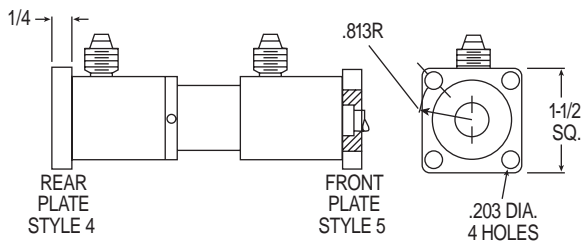
### END MOUNT—STYLE 1



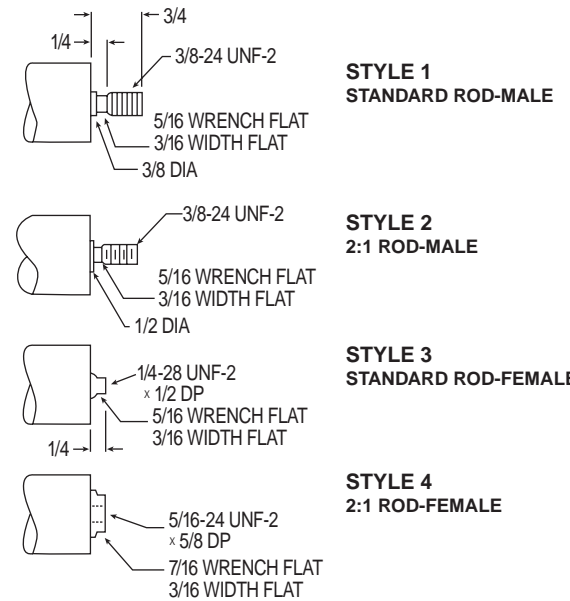
### FOOT MOUNT (BOTH ENDS) – STYLE 3



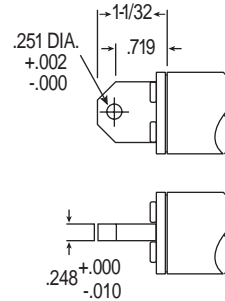
### PLATE MOUNT (EITHER END) – STYLE 4 STYLE 5



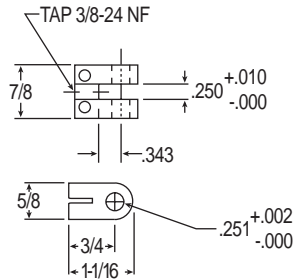
### ROD ENDS



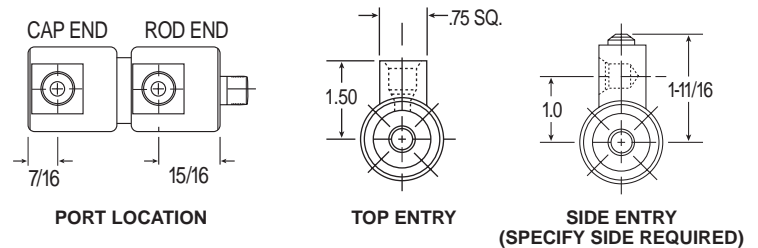
### PIVOT MOUNT STYLE 2



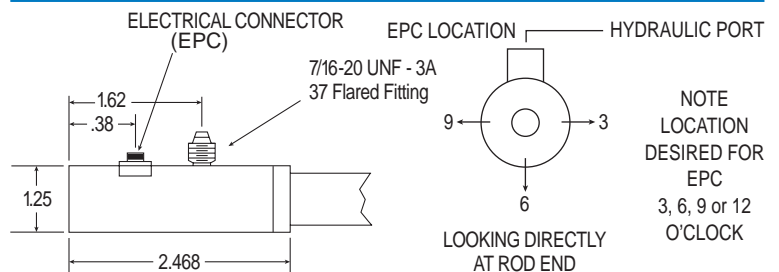
### ROD CLEVIS (ATTACHMENT 2)



### PORT STYLE BB



FOR POSITION FEEDBACK CYLINDERS  
ADD 1.281 TO BODY LENGTH OF CYLINDER

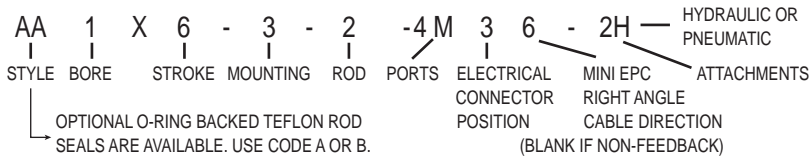


### Specifications

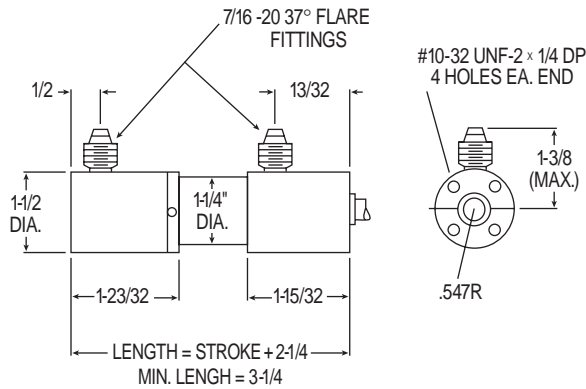
	STD. ROD	2:1 ROD
Diameter of bore, inches	0.750	0.750
Diameter of piston rod, inches	0.375	0.500
Effective area, rod side, sq. ins.	0.330	0.250
Effective area, piston side, sq. ins.	0.440	0.440

## 1" BORE CYLINDER

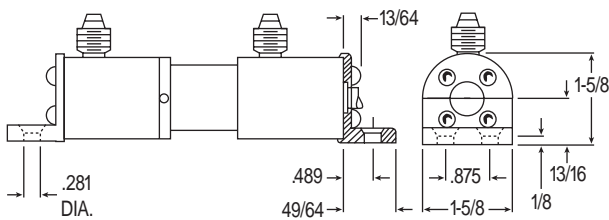
The Cylinder Model Code Will Appear As Follows:



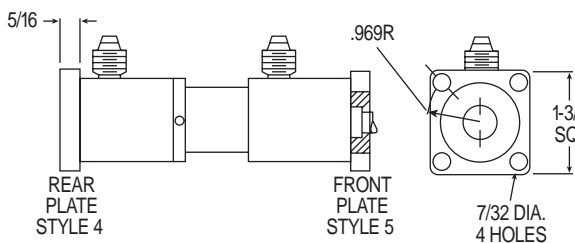
### END MOUNT— STYLE 1



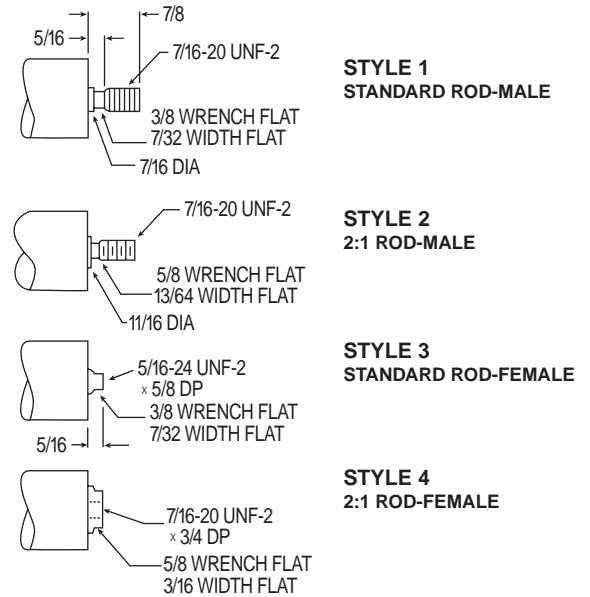
### FOOT MOUNT (BOTH ENDS) – STYLE 3



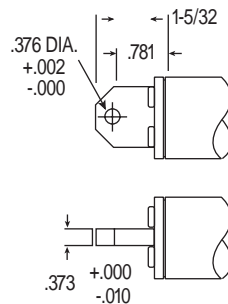
### PLATE MOUNT (EITHER END) – STYLE 4 STYLE 5



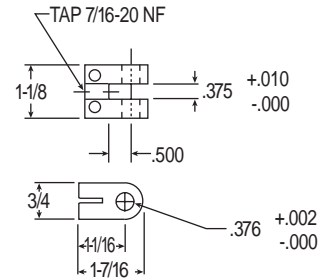
### ROD ENDS



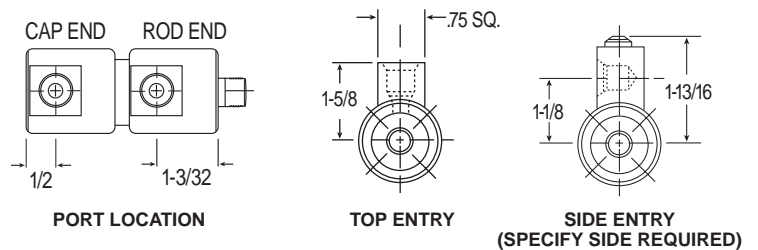
### PIVOT MOUNT STYLE 2



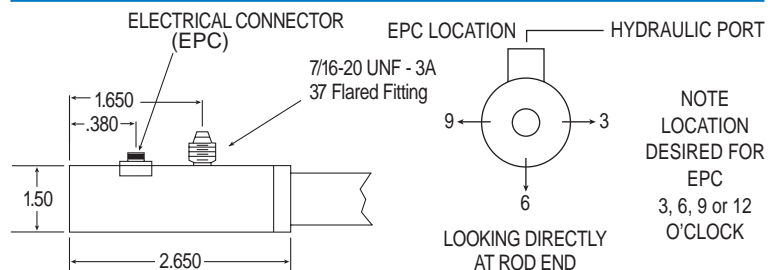
### ROD CLEVIS (ATTACHMENT 2)



### PORT STYLE BB



FOR POSITION FEEDBACK CYLINDERS  
ADD 1.150 TO BODY LENGTH OF CYLINDER



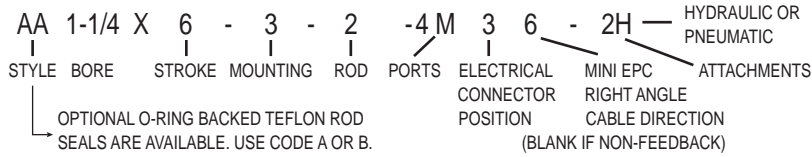
### Specifications

	STD. ROD	2:1 ROD
Diameter of bore, inches	1.250	1.250
Diameter of piston rod, inches	0.438	0.688
Effective area, rod side, sq. ins.	0.640	0.420
Effective area, piston side, sq. ins.	0.790	0.790

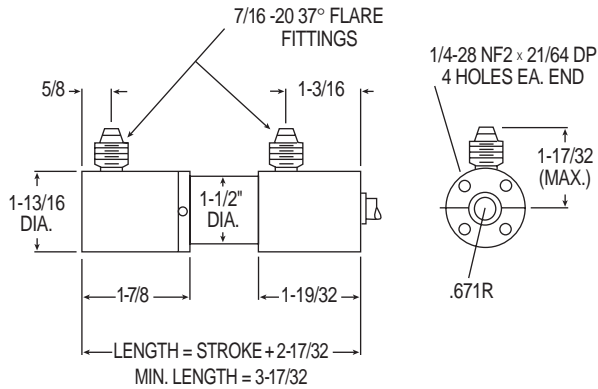


## 1-1/4" BORE CYLINDER

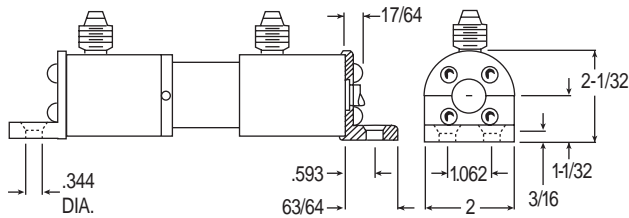
The Cylinder Model Code Will Appear As Follows:



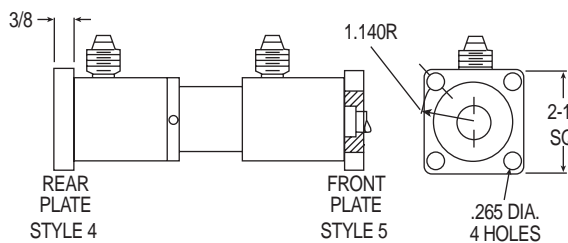
### END MOUNT—STYLE 1



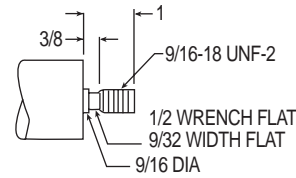
### FOOT MOUNT (BOTH ENDS) – STYLE 3



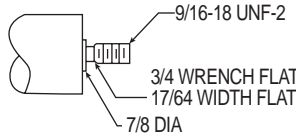
### PLATE MOUNT (EITHER END) – STYLE 4 STYLE 5



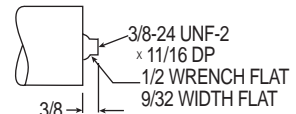
### ROD ENDS



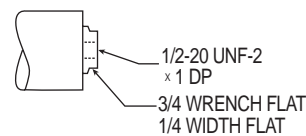
**STYLE 1**  
STANDARD ROD-MALE



**STYLE 2**  
2:1 ROD-MALE

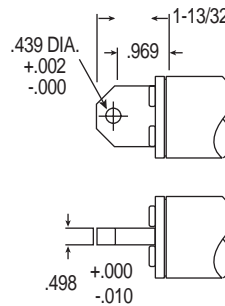


**STYLE 3**  
STANDARD ROD-FEMALE

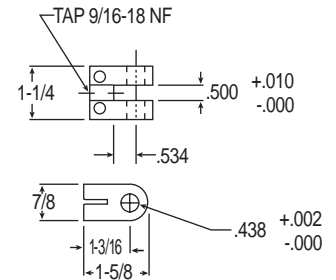


**STYLE 4**  
2:1 ROD-FEMALE

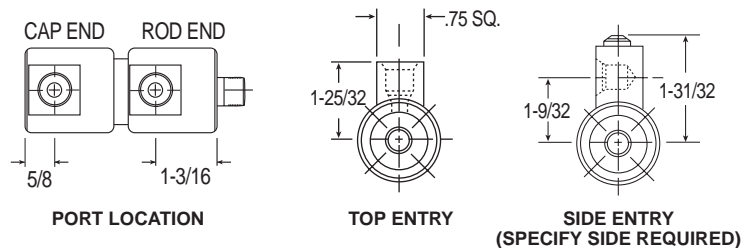
### PIVOT MOUNT STYLE 2



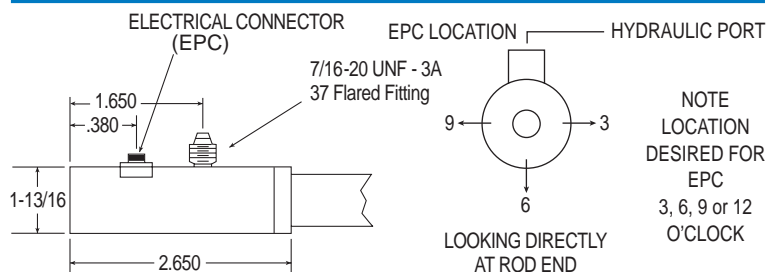
### ROD CLEVIS (ATTACHMENT 2)



### PORT STYLE BB



FOR POSITION FEEDBACK CYLINDERS  
ADD 1.025 TO BODY LENGTH OF CYLINDER



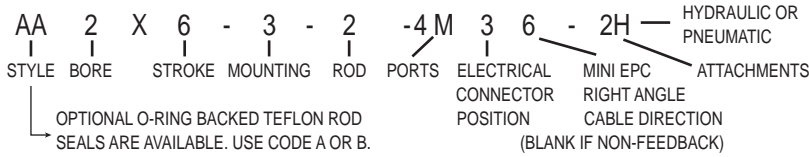
Specifications	STD. ROD	2:1 ROD
Diameter of bore, inches	1.250	1.250
Diameter of piston rod, inches	0.562	0.875
Effective area, rod side, sq. ins.	0.980	0.830
Effective area, piston side, sq. ins.	1.230	1.230



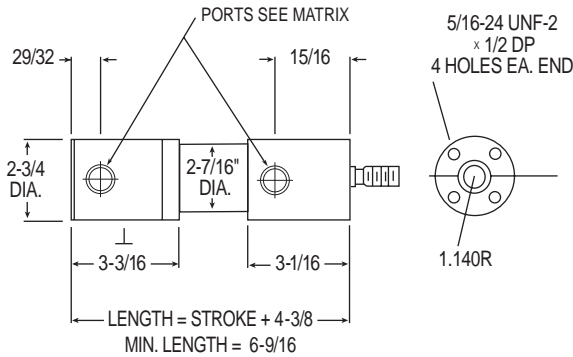


## 2" BORE CYLINDER

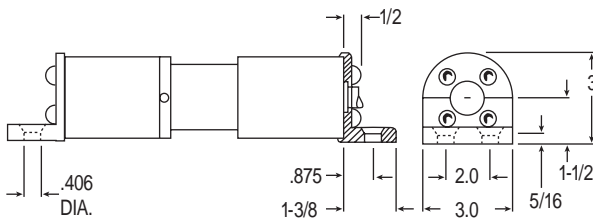
The Cylinder Model Code Will Appear As Follows:



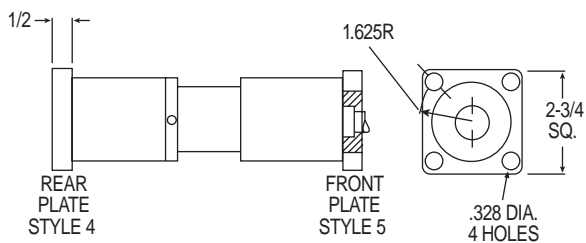
### END MOUNT— STYLE 1



### FOOT MOUNT (BOTH ENDS) – STYLE 3

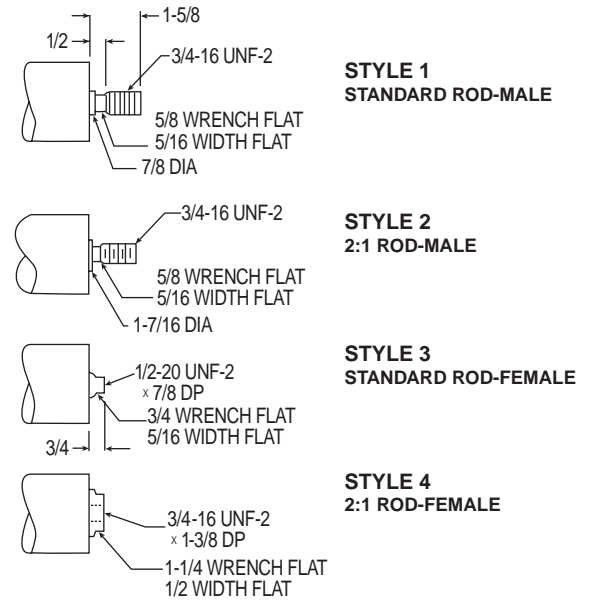


### PLATE MOUNT (EITHER END) – STYLE 4 STYLE 5

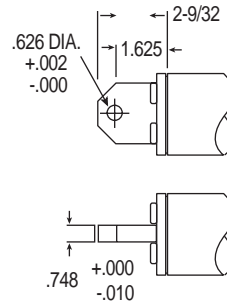


Specifications	STD. ROD	2:1 ROD
Diameter of bore, inches	2.000	2.000
Diameter of piston rod, inches	0.875	1.438
Effective area, rod side, sq. ins.	2.540	1.520
Effective area, piston side, sq. ins.	3.140	3.140

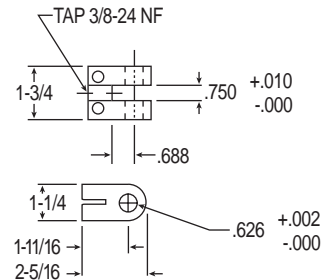
### ROD ENDS



### PIVOT MOUNT STYLE 2



### ROD CLEVIS (ATTACHMENT 2)



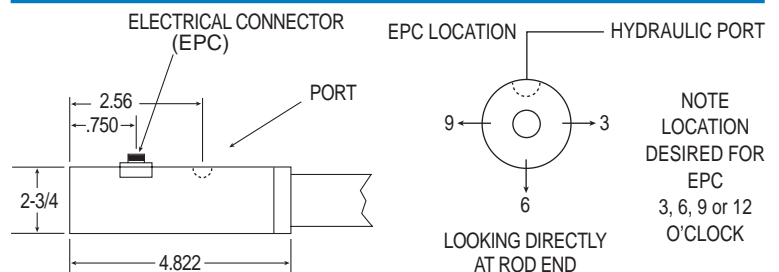
### PORT STYLE

4J	7/16-20 straight thread female for 1/4 tubing
5J	1/2-20 straight thread female for 5/16 tubing
6J	9/16-18 straight thread female for 3/8 tubing
8J	3/4-16 straight thread female for 1/2 tubing, 2-1/2" and 3" Bores – Std. Rod.
10J	7/8-14 straight thread female for 5/8 tubing, 3" Bore – Std. Rod.
1P	1/8 female (NPSF)
2P	1/4 female (NPSF)
3P	3/8 female (NPSF)
4P	1/2 female (NPSF), 3" Bore – Std. Rod.

NOTE:  
All "J's" are used with "O" ring type fittings.

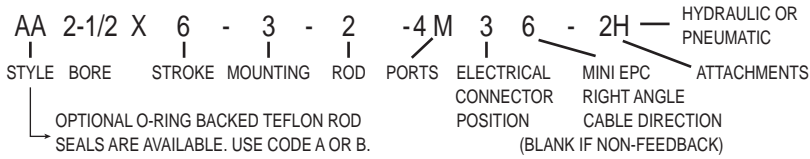
All "P" types are not recommended where leak-free connections are required for high pressure service.

FOR POSITION FEEDBACK CYLINDERS  
ADD 1.281 TO BODY LENGTH OF CYLINDER

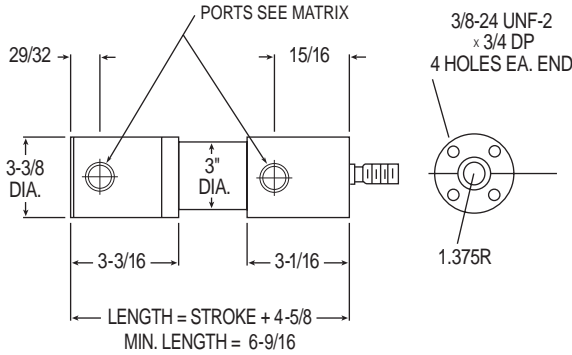


## 2-1/2" BORE CYLINDER

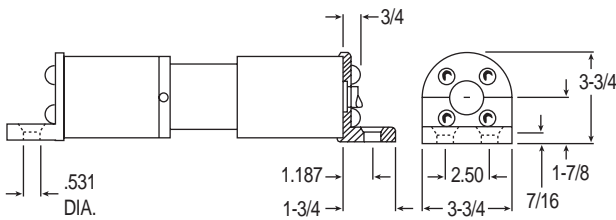
The Cylinder Model Code Will Appear As Follows:



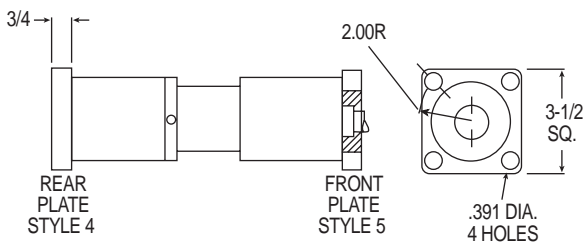
### END MOUNT— STYLE 1



### FOOT MOUNT (BOTH ENDS) – STYLE 3

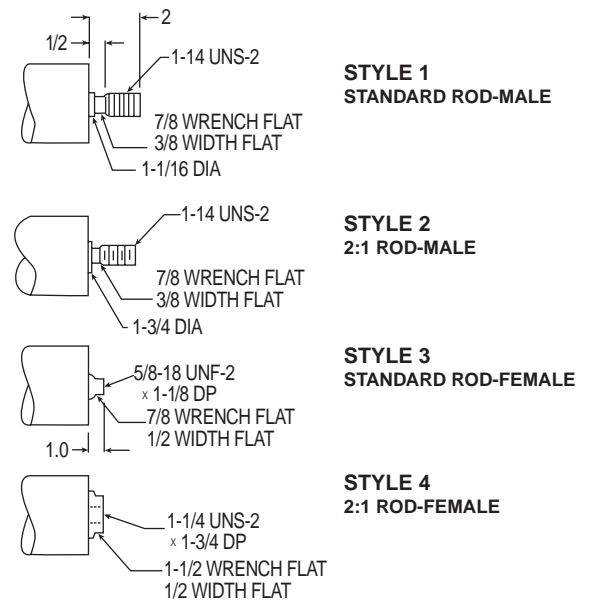


### PLATE MOUNT (EITHER END) – STYLE 4

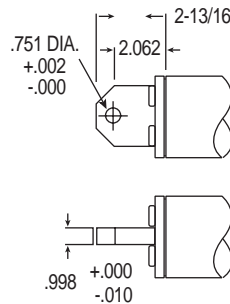


Specifications	STD. ROD	2:1 ROD
Diameter of bore, inches	2.500	2.500
Diameter of piston rod, inches	1.063	1.750
Effective area, rod side, sq. ins.	4.020	2.500
Effective area, piston side, sq. ins.	4.910	4.910

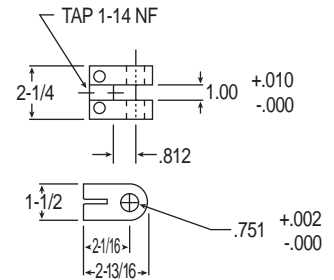
### ROD ENDS



### PIVOT MOUNT STYLE 2



### ROD CLEVIS (ATTACHMENT 2)



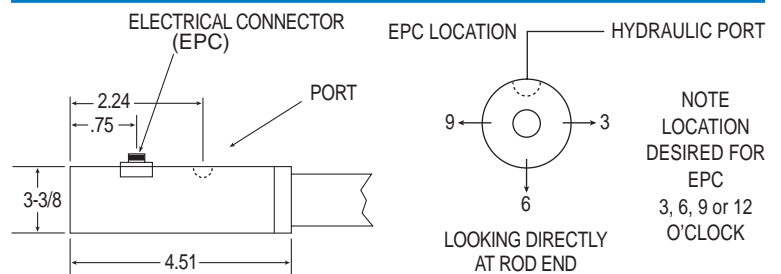
### PORT STYLE

4J	7/16-20 straight thread female for 1/4 tubing
5J	1/2-20 straight thread female for 5/16 tubing
6J	9/16-18 straight thread female for 3/8 tubing
8J	3/4-16 straight thread female for 1/2 tubing, 2-1/2" and 3" Bores – Std. Rod.
10J	7/8-14 straight thread female for 5/8 tubing, 3" Bore – Std. Rod.
1P	1/8 female (NPSF)
2P	1/4 female (NPSF)
3P	3/8 female (NPSF)
4P	1/2 female (NPSF), 3" Bore – Std. Rod.

NOTE:  
All "J"s are used with "O" ring type fittings.

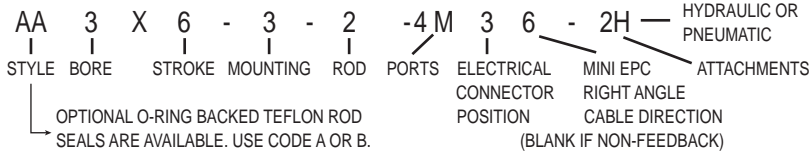
All "P" types are not recommended where leak-free connections are required for high pressure service.

FOR POSITION FEEDBACK CYLINDERS  
ADD 1.281 TO BODY LENGTH OF CYLINDER

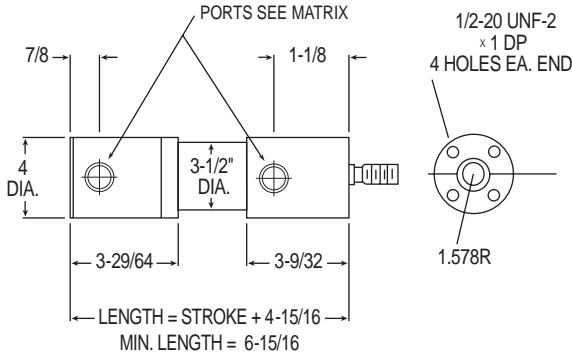


## 3" BORE CYLINDER

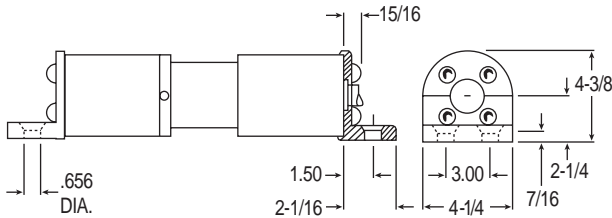
The Cylinder Model Code Will Appear As Follows:



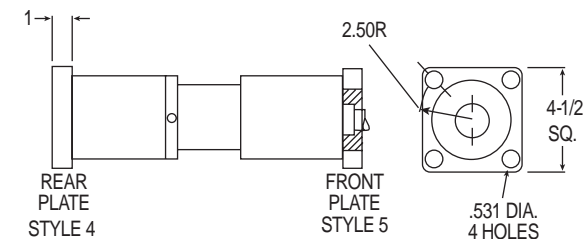
### END MOUNT— STYLE 1



### FOOT MOUNT (BOTH ENDS) — STYLE 3

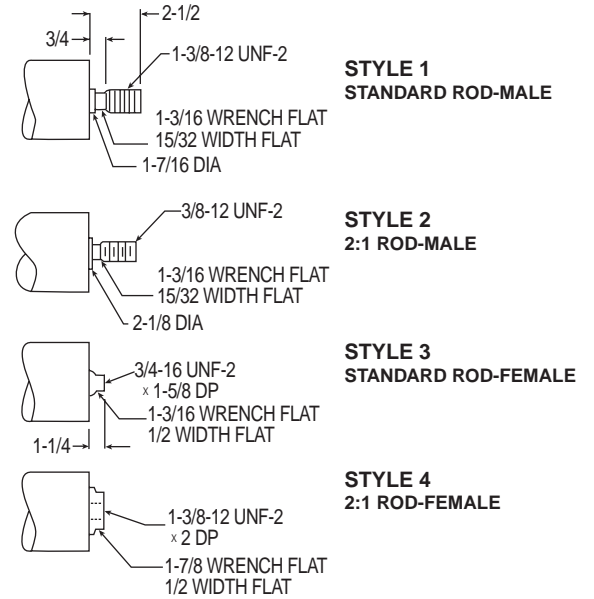


### PLATE MOUNT (EITHER END) — STYLE 4

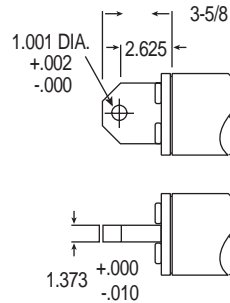


Specifications	STD. ROD	2:1 ROD
Diameter of bore, inches	3.000	3.000
Diameter of piston rod, inches	1.438	2.125
Effective area, rod side, sq. ins.	5.450	3.520
Effective area, piston side, sq. ins.	7.070	7.070

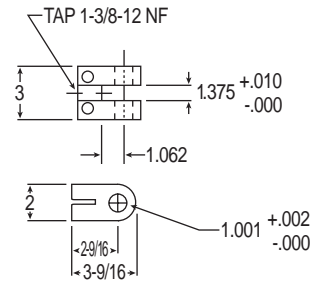
### ROD ENDS



### PIVOT MOUNT STYLE 2



### ROD CLEVIS (ATTACHMENT 2)

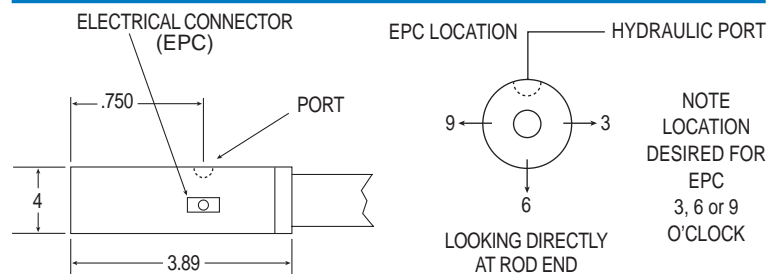


### PORT STYLE

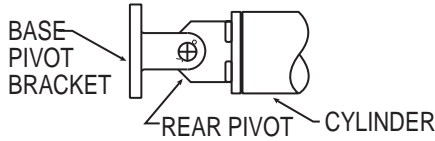
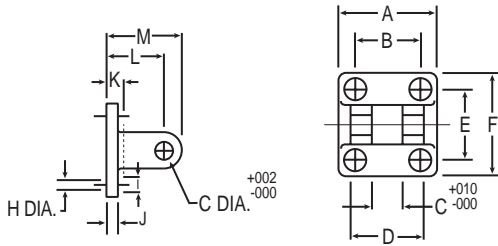
4J	7/16-20 straight thread female for 1/4 tubing
5J	1/2-20 straight thread female for 5/16 tubing
6J	9/16-18 straight thread female for 3/8 tubing
8J	3/4-16 straight thread female for 1/2 tubing, 2-1/2" and 3" Bore – Std. Rod.
10J	7/8-14 straight thread female for 5/8 tubing, 3" Bore – Std. Rod.
1P	1/8 female (NPSF)
2P	1/4 female (NPSF)
3P	3/8 female (NPSF)
4P	1/2 female (NPSF), 3" Bore – Std. Rod.

NOTE:  
All "J's" are used with "O" ring type fittings.  
All "P" types are not recommended where leak-free connections are required for high pressure service.

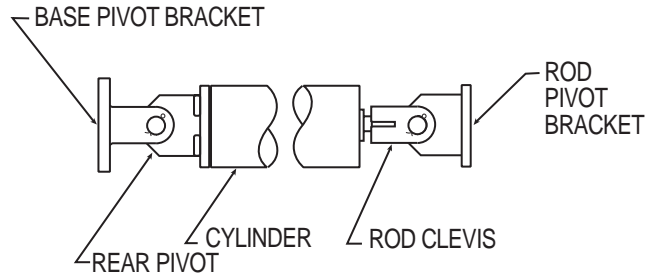
FOR POSITION FEEDBACK CYLINDERS  
ADD 1.281 TO BODY LENGTH OF CYLINDER



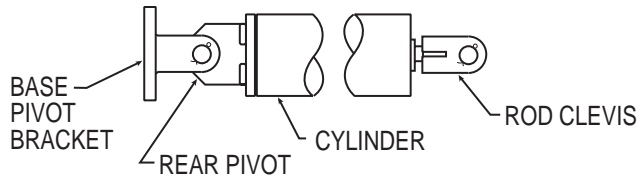
**BASE PIVOT BRACKET  
(ATTACHMENT 4)**



**BASE PIVOT BRACKET  
WITH ROD CLEVIS AND ROD PIVOT  
(ATTACHMENT 7)**



**BASE PIVOT BRACKET WITH ROD CLEVIS  
(ATTACHMENT 5)**



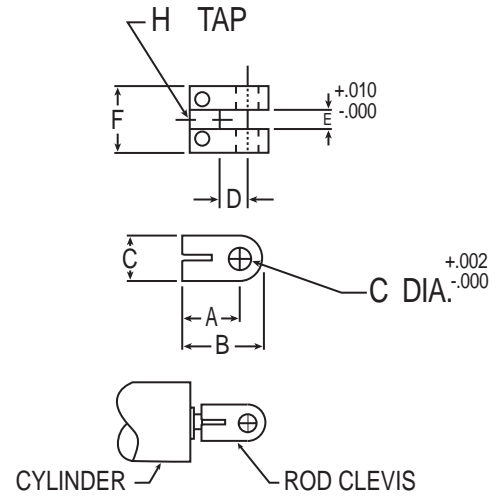
**BASE PIVOT BRACKET**

DIM.	CYLINDER BORE SIZE							
	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3
A	1-1/8	1-3/8	1-9/16	1-13/16	2-5/16	2-7/8	3-1/2	4-1/8
B	.625	.875	1.000	1.250	1.625	2.000	2.500	3.000
C	.188	.250	.375	.500	.625	.750	1.000	1.375
D	11/16	7/8	1-1/8	1-1/4	1-5/8	2-1/16	2-5/8	3-1/4
E	1.125	1.250	1.375	1.750	2.125	2.500	3.000	3.750
F	1-5/8	1-3/4	1-15/16	2-5/16	2-13/16	3-3/8	4	4-7/8
G	.188	.251	.376	.438	.501	.626	.751	1.001
H	.203	.203	.265	.265	.328	.391	.515	.656
I	21/64	21/64	25/64	26/64	31/64	19/32	49/64	31/32
J	1/8	1/8	1/8	1/8	7/32	1/4	3/8	3/8
K	11/32	11/32	7/16	7/16	9/16	15/16	1-13/64	1-1/4
L	.875	1.000	1.250	1.375	1.750	2.250	2.750	3.250
M	1-5/32	1-11/32	1-5/8	1-27/32	2-11/32	2-15/16	3-5/8	4-1/4
<b>ORDER NO.</b>	<b>704259</b>	<b>704260</b>	<b>704261</b>	<b>704262</b>	<b>704263</b>	<b>704264</b>	<b>704265</b>	<b>704266</b>

## ROD CLEVIS

DIM.	CYLINDER BORE SIZE							
	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3
A	11/16	3/4	1-1/16	1-3/16	1-3/8	1-11/16	2-1/16	2-9/16
B	15/16	1-1/16	1-7/16	1-5/8	1-15/16	2-5/16	2-13/16	3-9/16
C	.188	.251	.376	.438	.501	.626	.751	1.001
D	.313	.343	.500	.534	.625	.688	.812	1.062
E	.188	.250	.375	.500	.625	.750	1.000	1.375
F	3/4	7/8	1-1/8	1-1/4	1-3/8	1-3/4	2-1/4	3
G	1/2	5/8	3/4	7/8	1	1-1/4	1-1/2	2
H	1/4-28 NF	3/8-24 NF	7/16-20 NF	9/16-18 NF	5/8-18 NF	3/4-16 NF	1-14 NF	1-3/8-12 NF
ORDER NO.	704267	704268	704269	704270	704271	704272	704273	704274

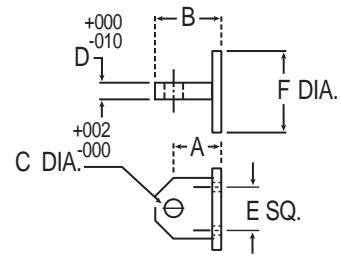
### ROD CLEVIS (ATTACHMENT 2)



## PIVOT MOUNT

DIM.	CYLINDER BORE SIZE							
	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3
A	.641	.719	.781	.969	1.250	1.625	2.062	2.625
B	7/8	1-1/32	1-5/32	1-13/32	1-13/16	2-9/32	2-13/16	3-5/8
C	.188	.251	.376	.439	.501	.626	.751	1.001
D	.186	.248	.373	.498	.623	.748	.98	1.373
E	.508	.619	.774	.948	1.193	1.612	1.945	2.232
F	1	1-1/4	1-1/2	1-13/16	2-3/16	2-3/4	3-3/8	4
ORDER NO.	358676	358677	358678	358679	358680	205135	205136	205137

### PIVOT MOUNT (MOUNTING STYLE 2)



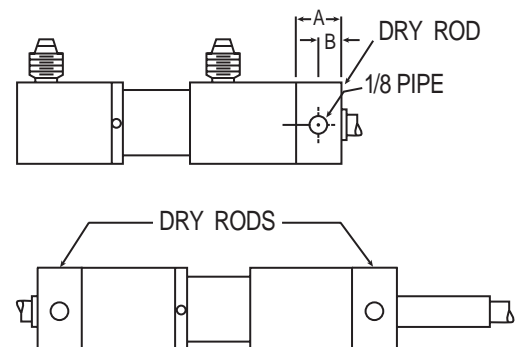
## DRY ROD CYLINDER OPTION

Dry Rods are used to trap and drain off excess oil which may leak past cylinder seals due to severe cylinder duty, extreme environmental conditions or use of thin fluids.

DIM.	DIMENSIONAL INFORMATION								ROD
	CYLINDER BORE SIZE								
	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	
A	5/8	27/32	27/32	29/32	3/4	3/4	3/4	3/4	—
B	3/8	35/64	37/64	39/64	7/16	29/64	29/64	29/64	—
ORDER NO.	704185	704186	704188	704190	704192	704194	704196	704198	Std.
	—	704187	704189	704191	704193	704195	704197	704199	2:1

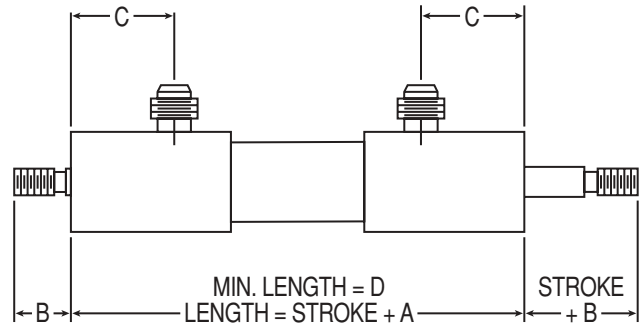
NOTE: Cylinders ordered with Dry Rod(s) are provided with dimension A of extra rod so the rod extension from the cylinder face is as shown in standard cylinder dimensional information.

### DRY ROD CYLINDER OPTION



## DOUBLE ROD END CYLINDER

DIMENSIONAL INFORMATION				
BORE	A	B	C	D
1/2	2-1/4	5/8	15/16	2-11/16
3/4	2-1/4	3/4	15/16	2-11/16
1	2-11/16	7/8	1-3/32	3
1-1/4	2-15/16	1	1-3/16	3-1/4
1-1/2	3-1/2	1-1/8	1-3/8	3-7/8
2	4-5/8	1-5/8	15/16	6-13/16
2-1/2	4-7/8	2	15/16	6-3/16
3	5-1/16	2-1/2	1-1/8	7-1/8



## REPLACEMENT PARTS FOR CYLINDERS

### SEAL KITS

STYLE "AA," "BB," & "CC" SEAL KITS  
WITH "V-LIP" ROD SEAL

BORE	BUNA-N				EPR	
	Double End Cycl.					
SIZE	Std. Rod	2:1 Rod	Std. Rod	2:1 Rod	Std. Rod	2:1 Rod
1/2"	632450	640210	632451	N.A.	N.A.	N.A.
3/4"	632452	632453	632454	632455	634249	
1"	632456	632457	632458	632459	635025	
1-1/4"	632460	632461	632462	632463		
1-1/2"	632464	632465	632466	632467	634250	
2"	630255	631874	631084	635751	636052	
2-1/2"	630253					
3"	630254		631993		634243	
4"	629590	632805	629886		630791	630619

STYLE "A," "B," & "C" SEAL KITS  
WITH TEFLON ROD SEAL

BORE	BUNA-N				VITON		EPR	
	Double End Cycl.							
SIZE	Std. Rod	2:1 Rod	Std. Rod	2:1 Rod	Std. Rod	2:1 Rod	Std. Rod	2:1 Rod
1/2"	626443	N.A.	626460	N.A.	626446	N.A.	626451	N.A.
3/4"	626481	626515	626501	628142	626483	626514	633626	633330
1"	626518	626552	626535	629681	626520	626551	626526	626548
1-1/4"	626555	626590	626570	627951	626558	626587		626581
1-1/2"	626592	626627	626612	626614	626594	626625	626596	
2"	626629	626664	626645	631760	626631	626662		
2-1/2"	626666	626701	626684	632702	626669	626699	626672	
3"	626703	626738	626720	632794	626706	626736	626717	
4"	626397	626398	628936	627790	627673	628625	627891	

SEAL KIT CONTENTS: All O-Rings, all Teflon seals or "V-Lip" seals, rod wiper(s), back-up ring(s), and installation instructions.



### STUFFING BOXES

BORE	STANDARD ROD		2:1 ROD	
	Teflon Rod Seal	V-Lip Rod Seal	Teflon Rod Seal	V-Lip Rod Seal
1/2"	357441	359713	N.A.	365292
3/4"	357442	359717	357443	359823
1"	357444	359799	357445	359855
1-1/4"	357446	359794	357447	360202
1-1/2"	357448	359722	357449	360607

Stuffing boxes are made of bearing bronze unless otherwise specified.



### ROD BUSHINGS

BORE	STANDARD ROD		2:1 ROD	
	Teflon Rod Seal	V-Lip Rod Seal	Teflon Rod Seal	V-Lip Rod Seal
2"	357450	359519	364273	364266
2-1/2"	357452	360414	357453	N.A.
3"	357454	359800	357455	N.A.
4"	358520	N.A.	359627	N.A.



# “Smart” Cylinder With Integral Valve Pad



## CYLINDER FEATURES:

- Internal LRT or MLRT position feedback device
- Stroke lengths in 1/8" increments
- NG3 Mini or NG6(DO3) Valve Pad
- NG3 Mini or NG6(DO3) Proportional Valve
- Bore sizes as small as 3/4"
- Pressures to 5000 psi
- 3-Pin quick disconnect position output port

Designed to operate with CAP Series 5030 Closed Loop Signal Tracking Control Unit

# System Integration Information MM Series Cylinder

## 3/4", 1", 1 1/4" BORE:

- Uses NG3 Mini Valve
- Internal MLRT Position Device
- Maximum Stroke 16"
- Use NH Series Cable

## 1 1/2", 2", 2 1/2" BORE:

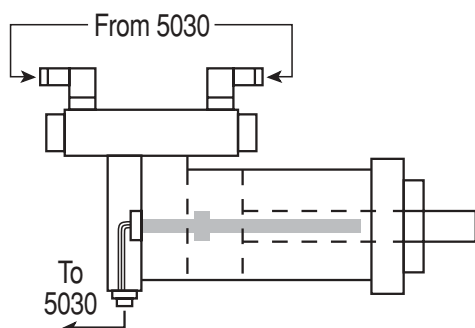
- Uses NG6(DO3) Proportional Valve
- Internal LRT Position Device
- Maximum Stroke 72"
- Use BH Series Cable

## NH SERIES CABLES:

- Specify 6', 15', 20'
- 24 AWG PVC Insulated
- 3 Conductor

## BH SERIES CABLES:

- Specify 6', 12', 20'
- 22 AWG PVC Insulated
- 3 Conductor



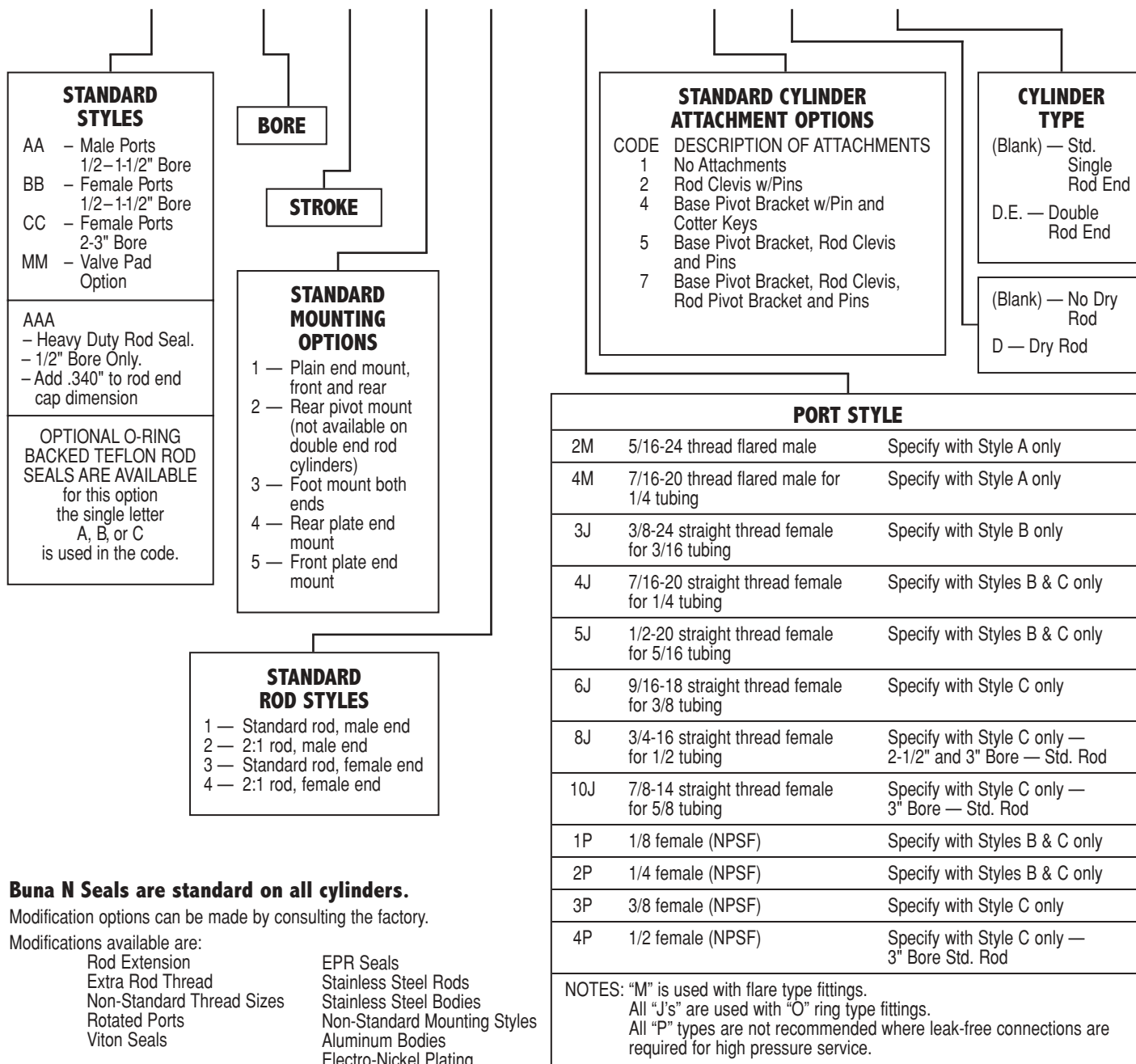
## 5030 Ordering Information

Model No.	Input Power	Input Signal	Output Signal	Hyd./Pneu.
5030	9 to 36Vdc	0 to 10Vdc	0 to 10Vdc	H
5031	115vac	0 to 10Vdc	0 to 10Vdc	H
5032	9 to 36Vdc	4 to 20mA	4 to 20mA	H
5033	115vac	4 to 20mA	4 to 20mA	H
5034	9 to 36Vdc	0 to 10Vdc	0 to 10Vdc	P
5035	115vac	0 to 10Vdc	0 to 10Vdc	P
5036	9 to 36Vdc	4 to 20mA	4 to 20mA	P
5037	115vac	4 to 20mA	4 to 20mA	P

# CYLINDER ORDERING INFORMATION

## HOW TO ORDER: EXAMPLE MODEL CODE:

**AA1 X 8—2—1—4M\*\*—1 D—D.E.**



### Buna N Seals are standard on all cylinders.

Modification options can be made by consulting the factory.

Modifications available are:

- |                           |                              |
|---------------------------|------------------------------|
| Rod Extension             | EPR Seals                    |
| Extra Rod Thread          | Stainless Steel Rods         |
| Non-Standard Thread Sizes | Stainless Steel Bodies       |
| Rotated Ports             | Non-Standard Mounting Styles |
| Viton Seals               | Aluminum Bodies              |
|                           | Electro-Nickel Plating       |

## Custom Actuator Products, Inc. Specialists in Compact Fluid Power

2500 Niagara Lane • Plymouth, MN 55447  
Phone: (763) 525-0844 Fax: (763) 525-0845