3/4" and 1-1/8" bore

Single and double rod end styles

FPM seals optional for higher temperatures

Technical features

Medium:
Compressed air, filtered, lubricated or non-lubricated
Operation:
Single or double acting

Operating Pressure:
150 PSI (10 bar)
Operating Temperature:
-20° to 200°F (-29° to 107°C)
Cylinder Diameters:
3/4", 1-1/8"

Differences between Series T and Series VT air actuators
Series T contains a Quad Ring Nitrile piston seal. The VT Series utilizes a dual Block-Vee nitrile piston seal design.
The Block-Vee seals increase the envelope dimensions of the Series VT cylinders by 3/8". All other features of the Series T and VT are the same.
Series VT cylinders have a slightly lower breakaway pressure (psig) than the Series T Tiny Tim air cylinders.

Options selector for T, VT, and ET

VT SR - 3/8 - 1.125 x 5.000 - RC - PS

Single Rod End Models	Substitute
Quad ring piston seal, block – vee rod seal	T
Block-vee piston and rod seals	VT
Ecology piston seals and block-vee rod seal	ET
Double Rod End Models	
Quad ring piston, block – v-rod seal	DT
Block-vee piston and rod seals	VDT
Ecology piston seals and block-vee rod seal	EDT
Mounting Styles	**Substitute**
Flush mount	F
Clevis mount	C
Nose mount	SR
Rear flange mount	FC
Front flange mount	FR
No mount	NM
Rod Diameter	**Specify**
	5/16" or 3/8"
Bore	**Specify**
	3/4" or 1-1/8"
Stroke (inches)	

Notes: Cylinder requires a stop tube equivalent to the stroke length.
Cushions not avilable on spring end of cylinder.
Standard spring forces for SR and SC = 3.5 lbs relaxed, 11.5 lbs compressed

Notes: Available on 1-1/8" bore cylinders only.
1/4" effective cushion length.
Add 9/16" to overall length of cylinder for each cushion.
Cushion not available on spring end of a single acting cylinder.

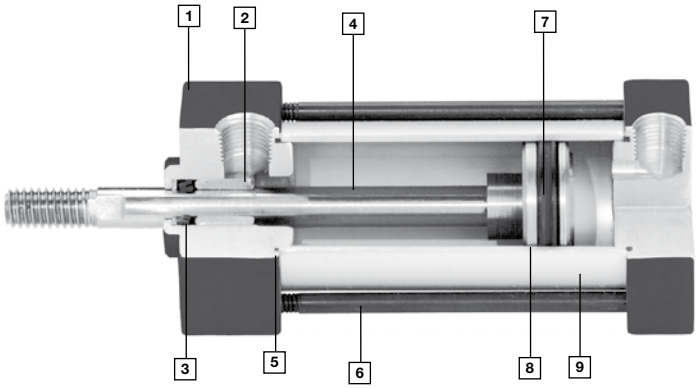
Options	Substitute
Stroke adjustment single piston (specify adjustment length)	A(–)
Stroke adjustment double piston (specify adjustment length)	AA(–)
Cap end cushion	C
* Non-standard port location (Specify location)	L(–)
Non thread rod	PR
**Magnetic Piston	PS
Rod end cushion	R
Both ends cushioned	RC
Rod extension over standard. (Specify length)	RX(–)
Stainless steel tie rods and nuts	S
Spring on cap end (spring extends rod)	SC
Spring on rod end (spring retracts rod)	SR
Chrome-plated stainless steel piston rod	SS
Rod thread extension over standard (specify length)	TX(–)
Stainless Steel Tube	TS
FPM seals -20° to 400°F temperature range.	V

* Designate head position first, and cap position last
** PS option adds 1/2" to overall cylinder length

Series T

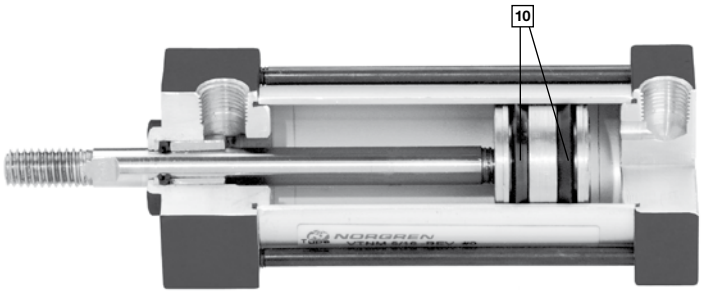
Series T uses Quad Ring Buna-Ring piston seal.

1 **Heads and Caps:** Anodised Aluminum or black oxided steel.
2 **Rod Bushing:** Oil-filled, sintered iron bushing.
3 **Rod Seal:** Replaceable block-vee Nitrile rod seal (FPM optional).
4 **Piston Rod:** Hard chrome plated high tensile steel piston rod.
5 **Seals:** O-ring type seals.
6 **Tie Rods:** High yield strength tie rods.
7 **Piston Seal:** Replaceable quad ring Nitrile (FPM optional).
8 **Piston:** Machined alloy.
9 **Tubing:** Hard anodised I.D. aluminum tubing.



Series VT

10 **Series VT uses Block-Vee Nitrile piston seal.** This increases envelope dimension by 3/8" but provides lower breakaway pressure.



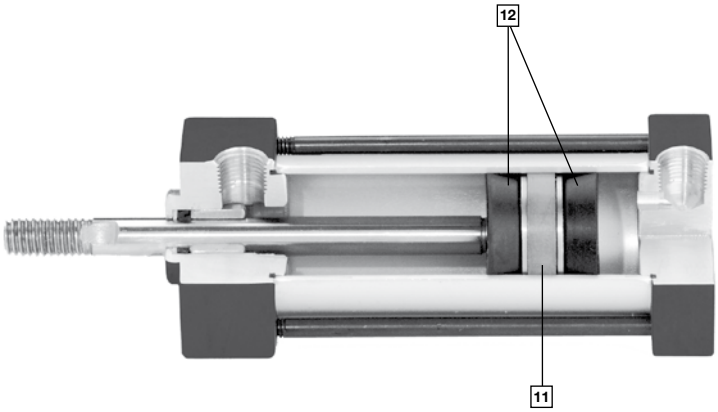
Series ET

Series ET actuators achieve their cushion effect through the normal compression of the Buna-N "shock-absorber"seals at the completion of the cylinder stroke. This compressive action absorbs the cylinder's kinetic energy and reduces the shock created by the piston striking the end caps.

The measurable cushion effect of the "shock-absorber" seals provides a predictable pounds stoppable/piston speed ratio, allowing you to determine the exact weight that can be stopped at a given piston speed. Series ET actuators also help meet OSHA's noise and clean air standards. They are guaranteed to operate without lubrication for one year regardless of cycles. Non-lubricated operation is achieved by the combined efforts of an oil-impregnated sintered iron piston rod busing that lubricates the rod during normal operation, and through the use of a reinforced PTFE wear ring on the center perimeter of the piston. This ring reduces friction between the piston and the cylinder tube.

11 **Wear Ring:** PTFE reinforced wear ring.

12 **Impact Dampening Seals:** Specifically designed piston incorporates energy absorbing seals to dissipate the forces generated during impact without increasing envelope dimensions. Not available for cylinders with oversize rods. Not recommended for applications that require 100% repeatable stroke increments, or for applications that exceed the pounds stoppable.



Energy Absorption Capacity of Impact Dampening Seals

Size	In./Lbs of Kinetic Energy Absorbable	Pounds* Stoppable at Following Speeds 6 in/sec	12 in/sec	24 in/sec	36 in/sec	48 in/sec	60 in/sec
3/4"	1.5	32.4	8.0	2.0	.8	.41	.23
1-1/8"	3	79.2	16	4	1.8	1	.59

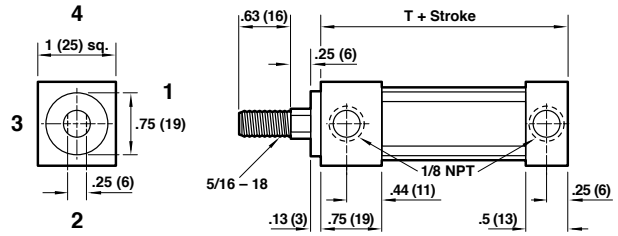
*Pounds must include piston and rod assembly weight

Effect of Impact Dampening Seals on Total Stroke of Cylinders

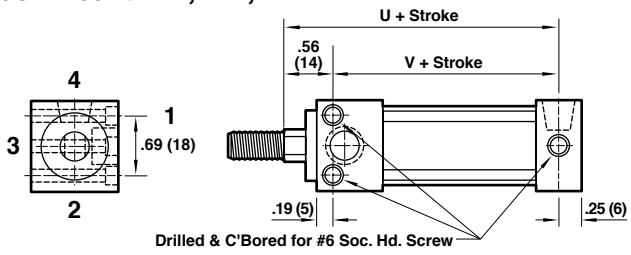
PSI	Cylinder Bore 3/4	1-1/16 to 1-1/8	1-1/4	1-1/2	2	2-1/2
0	.11	.12	.12	.14	.15	.17
20	.08	.09	.09	.10	.10	.12
40	.05	.06	.06	.07	.07	.08
60	.03	.04	.04	.04	.04	.05
80	.01	.02	.02	.02	.02	.02
100	0	0	0	0	0	0

The figure above represents total stroke loss (both ends) for the pressure indicated for new cylinders. The impact dampening seals will take some compression set during operation of the cylinder and the stroke loss will decrease. To determine stroke loss for either head or cap divide the value shown by 2.

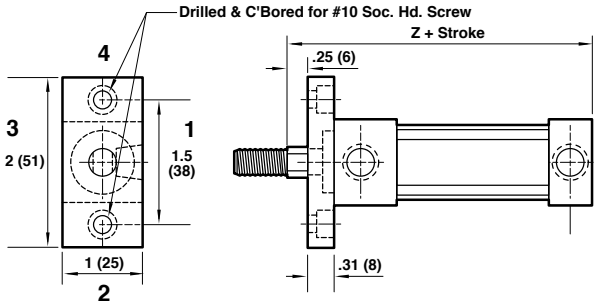
Standard Cylinder – TNM, VTNM, ETNM



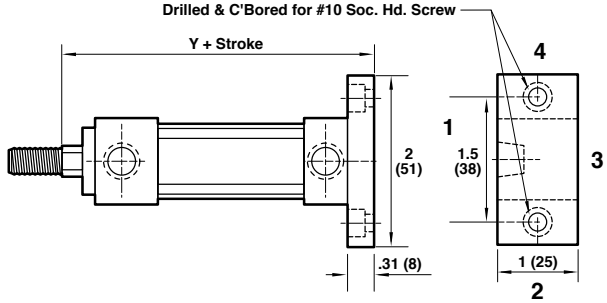
Flush Mount – TF, VTF, ETF



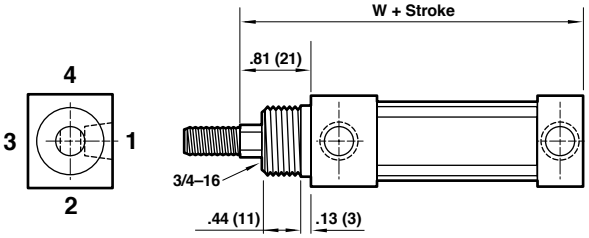
Front Flange Mount – TFR, VTFR, ETFR



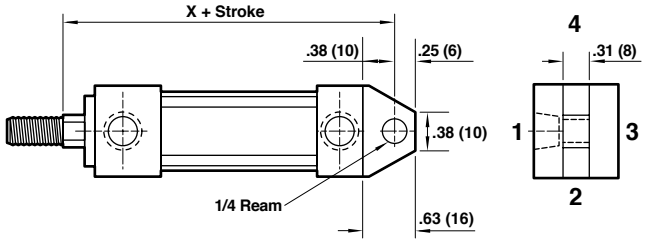
Rear Flange Mount – TFC, VTFC, ETFC



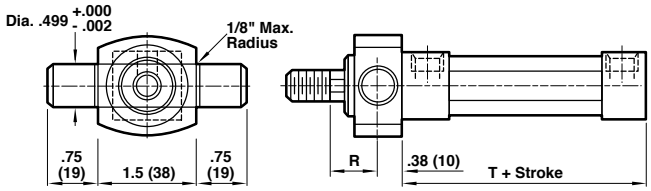
Nose Mount – TSR, VTSR, ETSR



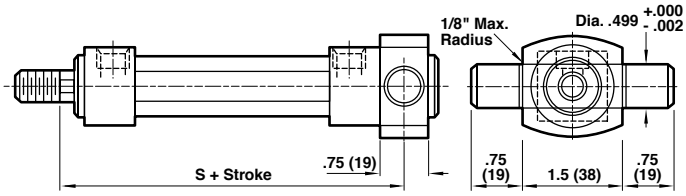
Clevis Mount – TC, VTC, ETC



Head Trunnion Mount* – THT, VTHT, ETHT



Back Trunnion Mount* – TBT, VTBT, ETBT



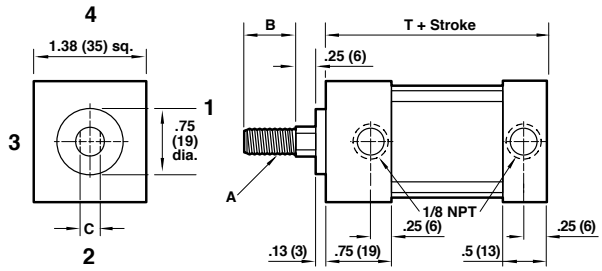
*Configured as special at factory

	Series T Quad ring seals	Series VT Block vee seals Series ET Ecology seals
R	.44 (11)	.44 (11)
S	2.81 (71)	3.19 (81)
T	1.81 (46)	2.19 (56)
U	1.94 (49)	2.31 (59)
V	1.38 (35)	1.75 (45)
W	2.63 (67)	3 (76)
X	2.56 (65)	2.94 (75)
Y	2.5 (64)	2.88 (73)
Z	2.38 (60)	2.75 (70)

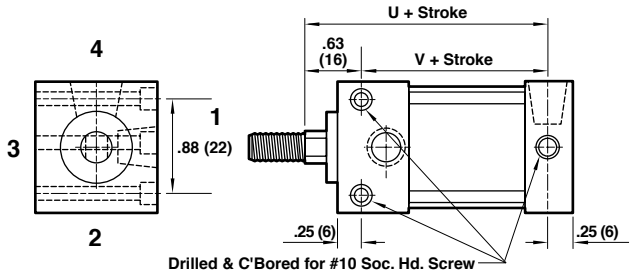
NOTE: For spring return cylinders add an additional stroke length to dimensions.

Dimensions in inches (mm)

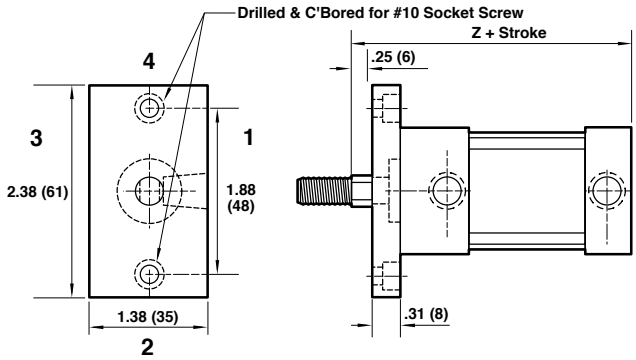
Standard Cylinder – TNM, VTNM, ETNM



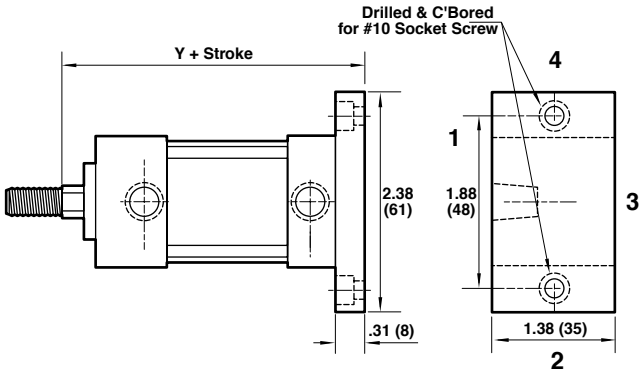
Flush Mount – TF, VTF, ETF



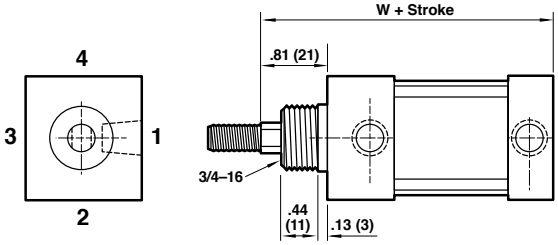
Front Flange Mount – TFR, VTFR, ETFR



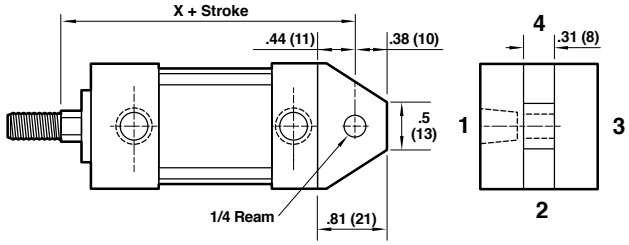
Rear Flange Mount –TFC, VTFC, ETFC



Nose Mount – TSR, VTSR, ETSR



Clevis Mount – TC, VTC, ETC



	Piston Rod 5/16 Diameter	3/8* Diameter
A	5/16-18	3/8-24
B	.63 (16)	.75 (19)
C	.25 (6)	.31 (8)

* 3/8" dia. piston rod will be furnished as an option only if specified.

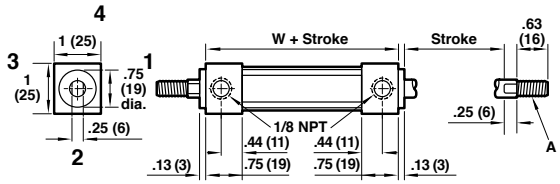
	Series T Quad ring seals	Series VT Block vee seals Series ET Ecology seals
R	.44 (11)	.44 (11)
S	2.81 (71)	3.19 (81)
T	1.81 (46)	2.19 (56)
U	1.94 (49)	2.31 (59)
V	1.31 (33)	1.69(43)
W	2.63 (67)	3 (76)
X	2.63 (67)	3 (76)
Y	2.5 (64)	2.88 (73)
Z	2.38 (60)	2.75 (70)

NOTE: Series T, ET & VT 1-1/8" Bore Cylinders are available with adjustable cushions. Increase dimensions T through Z by 9/16" for one cushion and by 1-1/8" for both ends cushioned. (See "Ordering Procedure" for details.) For spring return cylinders add an additional stroke length to above dimensions.

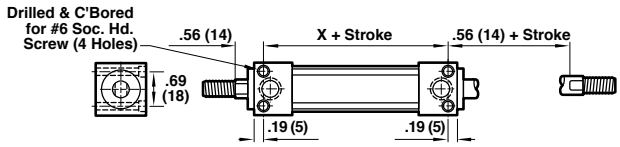
Dimensions in inches (mm)

3/4 Bore

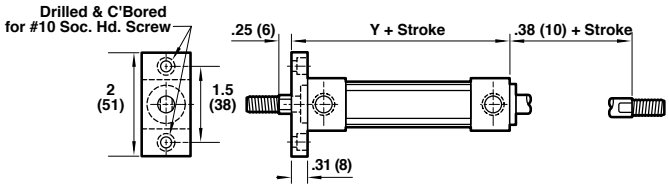
Standard Cylinder (DTNM, VDTNM, EDTNM)



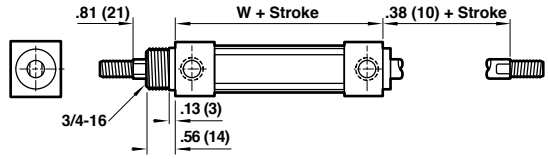
Flush Mount – DTF, VDTF, EDTF



Front Flange – DTFR, VDTFR, EDTFR

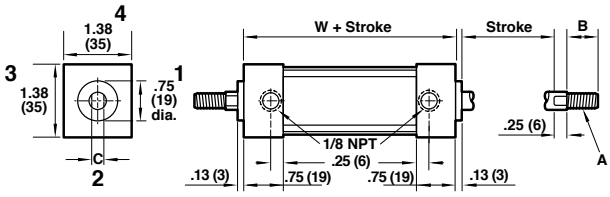


Nose Mount – DTSR, VDTSR, EDTSR

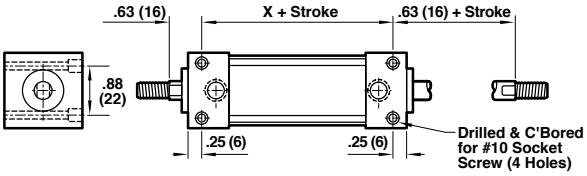


1-1/8 Bore

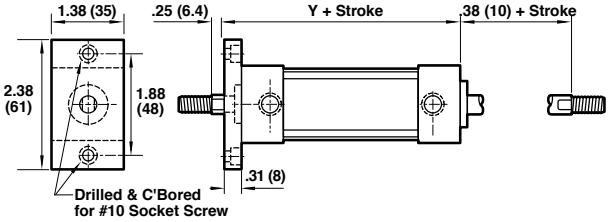
Standard Cylinder (DTNM, VDTNM, EDTNM)



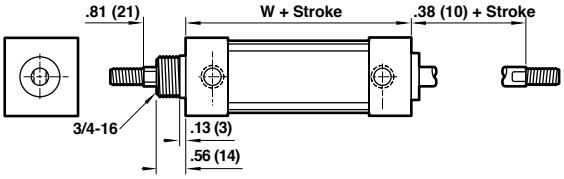
Flush Mount – DTF, VDTF, EDTF



Front Flange – DTFR, VDTFR, EDTFR



Nose Mount – DTSR, VDTSR, EDTSR



*Configured as special at factory

	Piston Rod 5/16 Diameter	3/8* Diameter
A	5/16-18	3/8-24
B	.63 (16)	.75 (19)
C	.25 (6)	.31 (8)

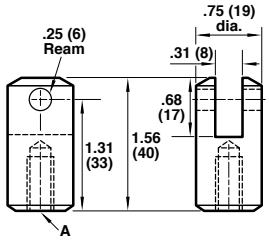
* 3/8" dia. piston rod will be furnished as an option only if specified.

	3/4" Bore DT	VDT & EDT	1-1/8" Bore DT	VDT & EDT
S	2.81 (71)	3.19 (81)	2.81 (71)	3.19 (81)
W	2.06 (52)	2.44 (62)	2.06 (52)	2.44 (62)
X	1.69 (43)	2.06 (52)	1.56 (40)	1.94 (49)
Y	2.38 (60)	2.75 (70)	2.38 (60)	2.75 (70)

NOTE: Series DT, VDT & EDT 1-1/8" bore cylinders are available with adjustable cushions. Increase dimensions S through Y by 9/16" for one cushion and by 1-1/8 for both ends cushioned.

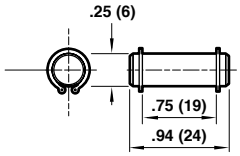
Dimensions in inches (mm)

Rod Clevis (includes pin)



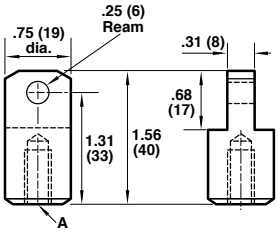
Part Number	Thread
40035	5/16-18
40036	3/8-24

Pin (includes snap rings)



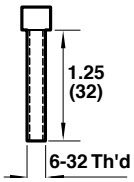
Part Number
49085

Rod Eye



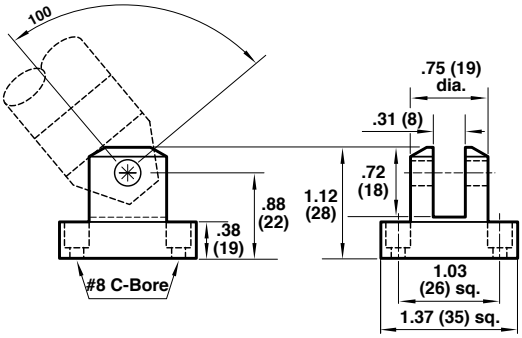
Part Number	Thread
40042	5/16-18
40043	3/8-24

Mounting Screw (for TF, VTF, ETF 3/4")



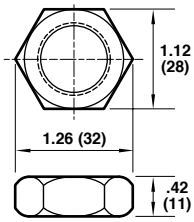
Part Number
51043

Clevis Bracket (includes pin)



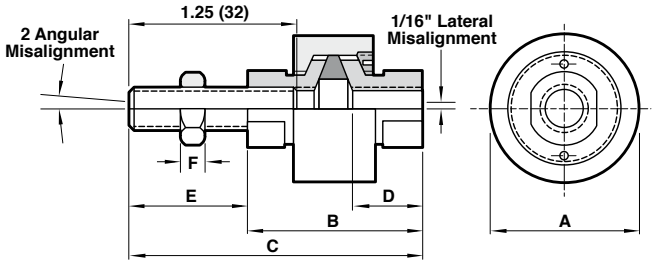
Part Number
40038

Mounting Nut (for TSR, VTSR, ETSR)



Part Number
52010

Rod Aligners (includes jam nut)



	Rod Aligners			
PN	RA-25	RA-31C	RA-32	RA-38
Thread	1/4-28	5/16-18	5/16-24	3/8-24
A	1 (25)	1 (25.4)	1 (25)	1 (25)
B	1.38 (35)	1.38 (35)	1.38 (35)	1.38 (35)
C	2.13 (54)	2.13 (54)	2.13 (54)	2.13 (54)
D	.5 (13)	.5 (13)	.5 (13)	.5 (13)
E	.75 (19)	.75 (19)	.75 (19)	.75 (19)
F	.16 (4)	.19 (5)	.19 (5)	.22 (6)

Dimensions in inches (mm)

3/4", 1", and 1-1/8" bore

Single and double rod end styles

Rated 150 psi air

-20° to 200°F (-29° to 107°C) operating temperatures

FPM seals optional for higher temperatures

Designed to conform with NFPA (T3.6.11) 1972.

Technical data

Medium:
Compressed air, filtered, lubricated or non-lubricated

Operation:
Double acting

Operating Pressure:
150 PSI (10 bar)

Operating Temperature:
-20° to 200°F (-29° to 107°C)

Cylinder Diameters:
Nominal Inch: 3/4", 1", 1-1/8"

Options selector for TA, TAV, and TAE

TA 6 - 3 A - 1.125 x 5.000 -D- PS - SS

Single Rod End Models	Substitute
Quad ring piston seal, block – vee rod seal	TA
Block-vee piston and rod seals	TAV
Ecology piston seals and block-vee rod seal	TAE
Double Rod End Models	
Quad ring piston, block – v-rod seal	DTA
Block-vee piston and rod seals	DTAV
Ecology piston seals and block-vee rod seal	DTAE

Mounting Styles	Substitute
Side Tapped	1
Side through holes	2
Cap eye	4
Head male rabbet	5
Threaded nose	6
Cap rectangular flange	7
Head flange	8
Head flange (no pilot)	9

Rod Diameter	Substitute
1/4"	1
5/16"	2
3/8"	3
1/2"	4

Note: 1/2" diameter rods are not available on Series TAE

Rod End Thread Style (Specify "A" or "B" on all models)

Rod Size	PR	Thd A	Thd B
1/4 ø	No Thread	1/4-28	10-32
5/16 ø	No Thread	5/16-24	1/4-28
3/8 ø	No Thread	3/8-24	5/16-24
1/2 ø	No Thread	1/2-20	7/16-20

Options	Substitute
Stroke adjustment single piston (specify adjustment length)	A(-)
Stroke adjustment double piston (specify adjustment length)	AA(-)
Port location (other than standard)*	L(-)
Magnetic piston*	PS
Rod extension (specify length)	RX(-)
Stainless steel tie rods &nuts	S
Piston Rod (chrome plated stainless steel)	SS
Special Rod thread(specify length)	T(-)
Stainless Steel Tube	TS
Rod thread extension (specify length)	TX(-)
FPM seals	V
Single Acting Actuators	
Spring on Rod End	SR
Spring on Cap End	SC

Adjustable Cushions**	Substitute
Rod end only	DR
Cap end only	DC
Both ends	D

Stroke (inches)	0.125 - 48.000

Bore	Substitute
3/4"	0.75
1"	1.00
1-1/8"	1.125

* Specify head position first followed by cap position PS option adds 1/2" to overall length.

** Add 1/2" per cushioned end to overall cylinder length.

Effect of Impact Dampening Seals on Total Stroke of Cylinders

PSI	Cylinder Bore 3/4	1-1/16 to 1-1/8	1-1/4	1-1/2	2	2-1/2
0	.11	.12	.12	.14	.15	.17
20	.08	.09	.09	.10	.10	.12
40	.05	.06	.06	.07	.07	.08
60	.03	.04	.04	.04	.04	.05
80	.01	.02	.02	.02	.02	.02
100	0	0	0	0	0	0

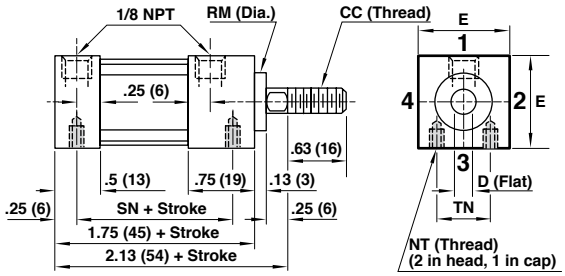
The figure above represents total stroke loss (both ends) for the pressure indicated for new cylinders. The impact dampening seals will take some compression set during operation of the cylinder and the stroke loss will decrease. To determine stroke loss for either head or cap divide the value shown by 2.

Energy Absorption Capacity of Impact Dampening Seals

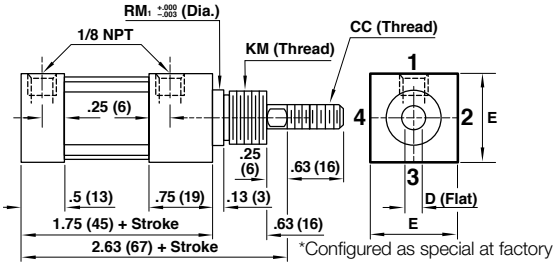
Size	In./Lbs of Kinetic Energy Absorbable	Pounds* Stoppable at Following Speeds 6 in/sec	12 in/sec	24 in/sec	36 in/sec	48 in/sec	60 in/sec
3/4"	1.5	32.4	8.0	2.0	.8	.41	.23
1-1/8"	3	79.2	16	4	1.8	1	.59

*Pounds must include piston and rod assembly weight

Style 1 – (MS9) Side Tapped

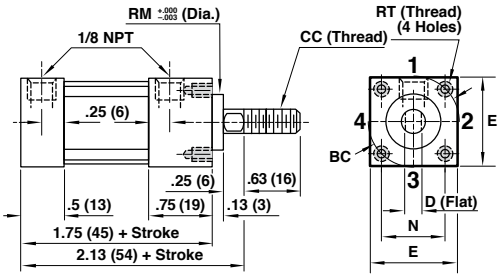


Style 3 – (MNR1) Threaded Male Rabbet*

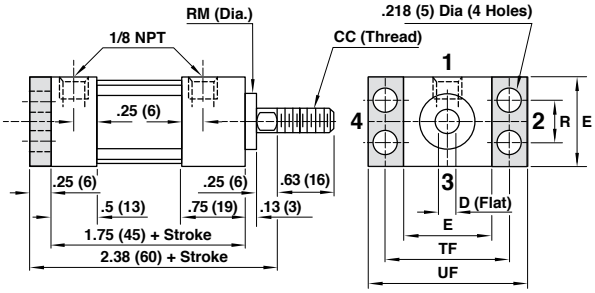


*Configured as special at factory

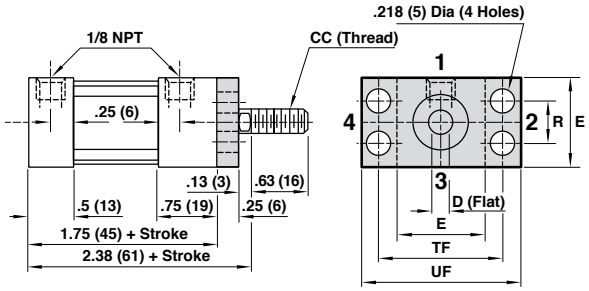
Style 5 – (MR1) Head Male Rabbet



Style 7 – (MF2) Cap Rectangular Flange



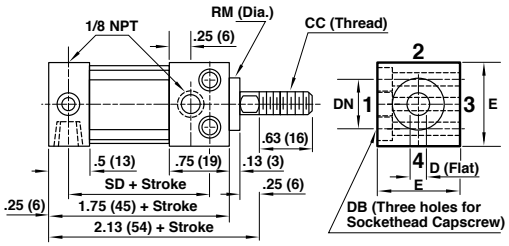
Style 9 – (MF7) Head Flange (No pilot)



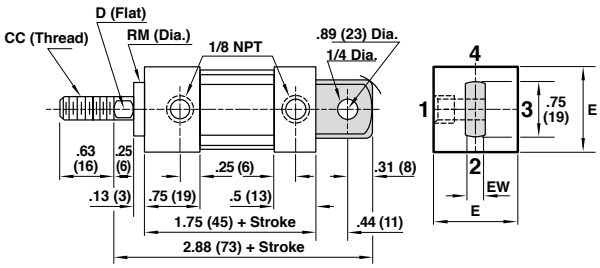
Bore	3/4	1*	1-1/8
BC	1.06 (27)	1.41 (36)	1.59 (40)
CC	1/4-28	5/16-24	3/8-24
D	.22 (6)	.25 (6)	.31 (8)
DB	8-32	10-32	10-32
DN	.63 (16)	.88 (22)	1 (25)
E	1 (25)	1.38 (35)	1.5 (38)
EW	.25 (6)	.38 (10)	.38 (10)
KM	5/8-18	3/4-16	3/4-16
N	.75 (19)	1 (25)	1.13 (29)
NT	8-32 x 3/16 DP	10-32 x 1/4 DP	10-32 x 1/4 DP
R	.5 (13)	.88 (22)	1 (25)
RM	.63 (16)	.75 (19)	.75 (19)
RM1	.69 (18)	.81 (21)	.81 (21)
RT	8-32 x 1/4 DP	8-32 x 1/4 DP	10-32 x 1/4 DP
SD	1.31 (33)	1.25 (32)	1.25 (32)
SN	1.31 (33)	1.25 (32)	1.25 (32)
TF	1.5 (38)	1.88 (48)	2 (51)
TN	.63 (16)	.88 (22)	1 (25)
UF	2 (51)	2.38 (60)	2.5 (64)

* Piston Dia. of 1" cylinders is 1-1/8" diameter.

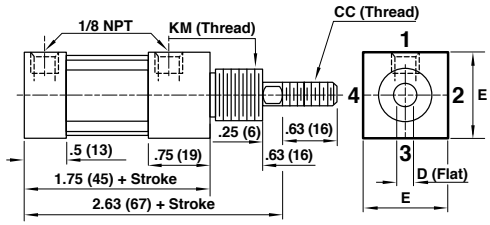
Style 2 – (MS8) Side Through Holes (not available w/oversized rod)



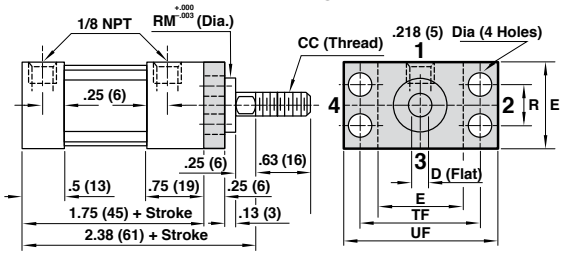
Style 4 – (MP3) Cap Eye



Style 6 – (MN1) Threaded Nose

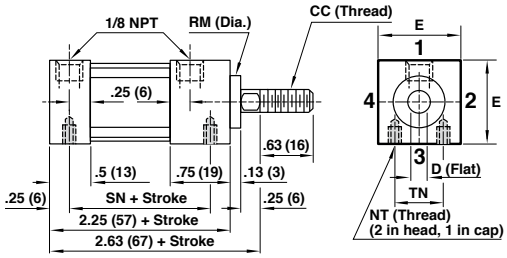


Style 8 – (MF1) Head Flange

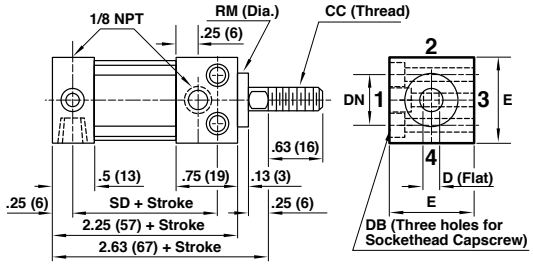


Dimensions in inches (mm)

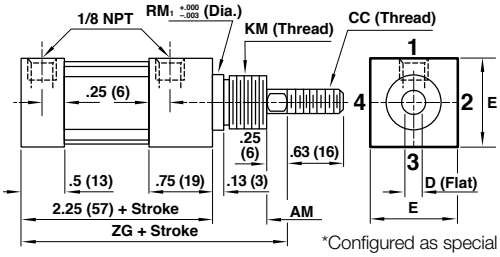
Style 1 – (MS9) Side Tapped



Style 2 – (MS8) Side Through Holes (not available w/oversized rod)

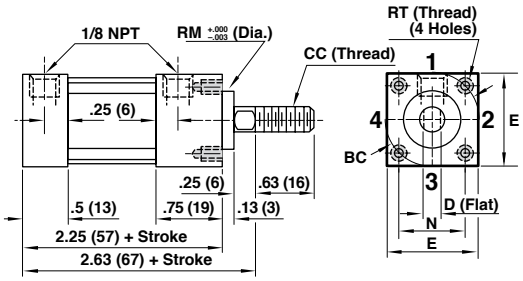


Style 3 – (MNR1) Threaded Male Rabbet*

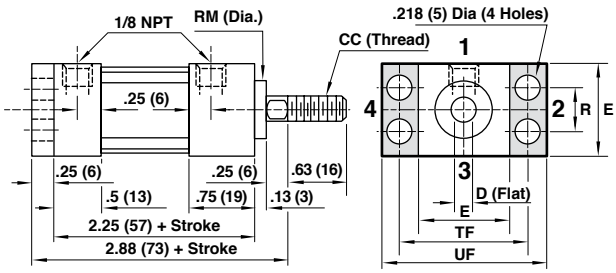


*Configured as special at factory

Style 5 – (MR1) Head Male Rabbet



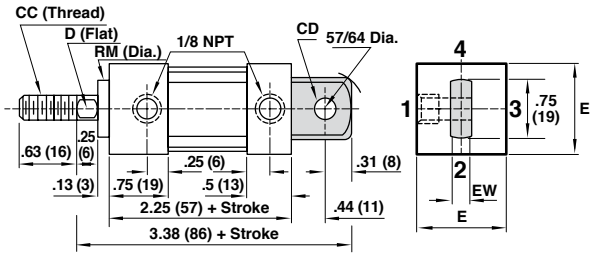
Style 7 – (MF2) Cap Rectangular Flange



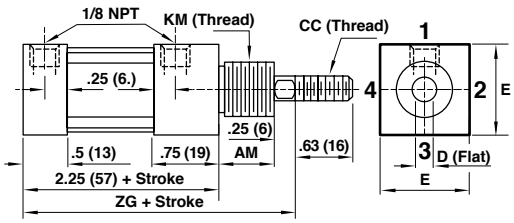
Bore	3/4	1*	1-1/8
AM	.63 (16)	.63 (16)	.88 (22)
BC	1.06 (27)	1.41 (36)	1.59 (40)
CC	1/4-28	5/16-24	3/8-24
CD	.25 (6)	.38 (10)	.38 (10)
D	.22 (6)	.25 (6)	.31 (8)
DB	8-32	10-32	10-32
DN	.63 (16)	.88 (22)	1 (25)
E	1 (25)	1.38 (35)	1.5 (38)
EW	.25 (6)	.38 (10)	.38 (10)
KM	5/8-18	3/4-16	1-14
N	.75 (19)	1 (25)	1.13 (29)
NT	8-32 x 3/16 DP	10-32 x 1/4 DP	10-32 x 1/4 DP
R	.5 (13)	.88 (22)	1 (25)
RM	.63 (16)	.75 (19)	.75 (19)
RM1	.69 (18)	.81 (21)	1.06 (27)
RT	8-32 x 1/4 DP	8-32 x 1/4 DP	10-32 x 1/4 DP
SD	1.81 (46)	1.75 (45)	1.75 (45)
SN	1.81 (46)	1.75 (45)	1.75 (45)
TF	1.5 (38)	1.88 (48)	2 (51)
TN	.63 (16)	.88 (22)	1 (25)
UF	2 (51)	2.38 (60)	2.5 (64)
ZG	3.13 (79)	3.13 (79)	3.38 (86)

* Piston Dia. of 1" cylinders is 1-1/8" diameter.

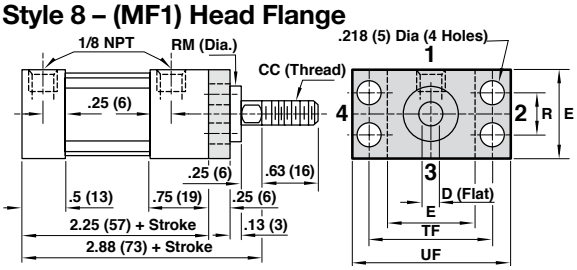
Style 4 – (MP3) Cap Eye



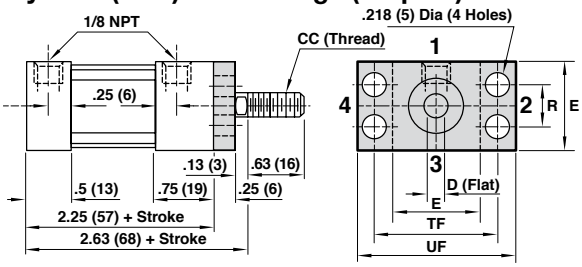
Style 6 – (MN1) Threaded Nose



Style 8 – (MF1) Head Flange

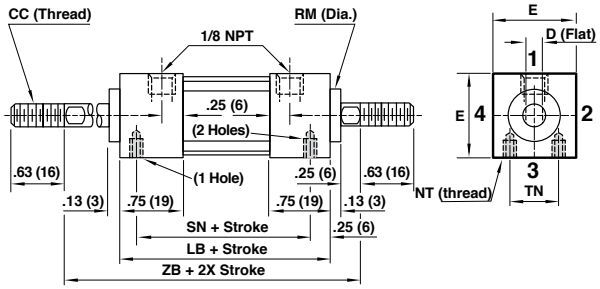


Style 9 – (MF7) Head Flange (No pilot)

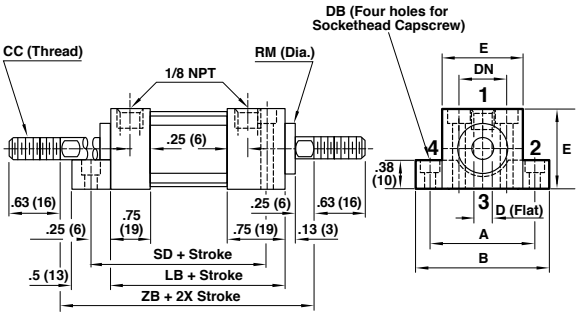


Dimensions in inches (mm)

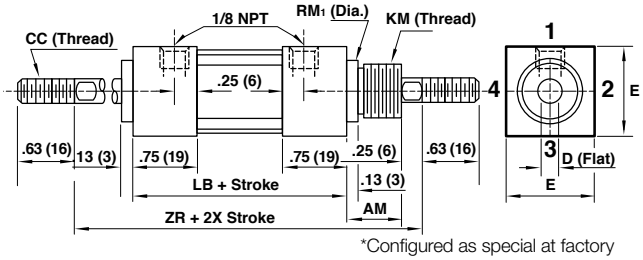
Style 1 – (MS9) Side Tapped



Style 2 – (MS8) Side Through Holes (Not available with oversize rod)

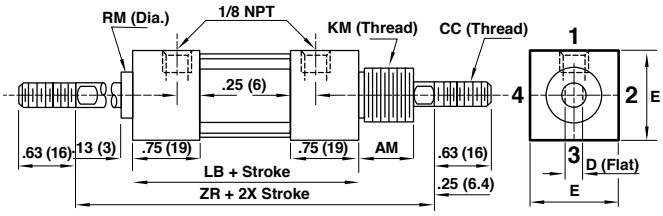


Style 3 – (MNR1) Threaded Male Rabbet*

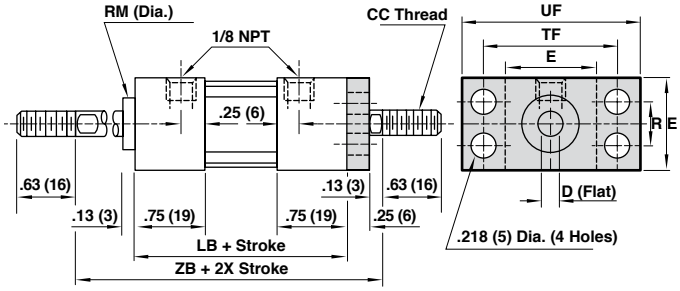


*Configured as special at factory

Style 6 – (MN1) Threaded Nose



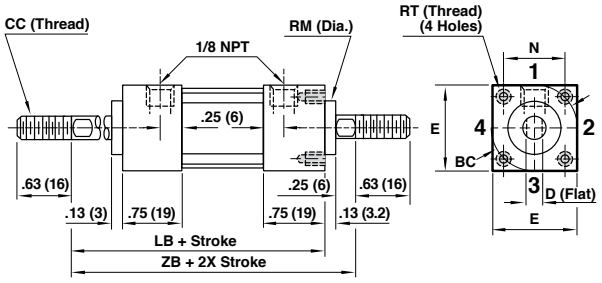
Style 9 – (MF7) Head Flange (No pilot)



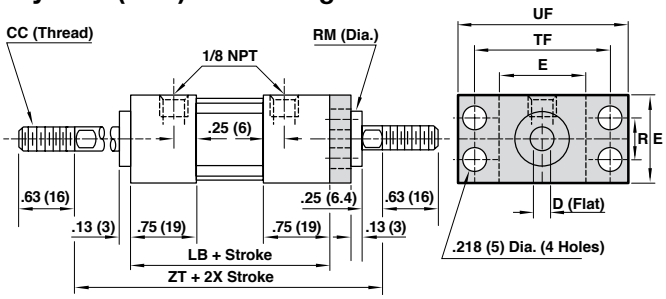
Bore Series	3/4 DTA	DTAE-DTAV	1* DTA	DTAE-DTAV	1-1/8 DTA	DTAE-DTAV
A	1.38 (35)		1.75 (45)		1.88 (48)	
AM	.63 (16)		.63 (16)		.63 (16)	.88 (23)
B	1.75 (45)		2.13 (54)		2.25 (57)	
BC	1.06 (27)		1.41 (36)		1.59 (40)	
CC	1/4-28		5/16-24		3/8-24	
D	.22 (6)		.25 (6)		.31 (8)	
DB	8-32		10-32		10-32	
DN	.63 (16)		.88 (22)		1 (25)	
E	1 (25)		1.38 (35)		1.5 (38)	
KM	5/8-18		3/4-16		3/4-16	1-14
LB	2 (51)	2.5 (64)	2 (51)	2.5 (64)	2 (51)	2.5 (64)
N	.75 (19)		1 (25)		1.13 (29)	
NT	8-32 x 3/16 DP		10-32 x 1/4 DP		10-32 x 1/4 DP	
R	.5 (13)		.88 (22)		1 (25)	
RM	.63 (16)		.75 (19)		.75 (19)	
RM1	.69 (18)		.81 (21)		.81 (21)	1.06 (27)
RT	8-32 x 1/4 DP		8-32 x 1/4 DP		8-32 x 1/4 DP	
SD	2.06 (52)	2.56 (65)	2 (51)	2.5 (64)	2 (51)	2.5 (64)
SN	.56 (40)	2.06 (52)	1.5 (38)	2 (51)	1.5 (38)	2 (51)
TF	1.5 (38)		1.88 (48)		2 (51)	
TN	.63 (16)		.88 (22)		1 (25)	
UF	2 (51)		2.38 (60)		2.5 (64)	
ZB	2.75 (70)	3.25 (83)	2.75 (70)	3.25 (83)	2.75 (70)	3.25 (83)
ZR	3.25 (83)	3.75 (95)	3.25 (83)	3.75 (95)	3.25 (83)	4.0 (101)
ZT	3 (76)	3.5 (89)	3 (76)	3.5 (89)	3 (76)	3.5 (89)

* Piston Dia. of 1" cylinders is 1-1/8" diameter.

Style 5 – (MR1) Head Male Rabbet

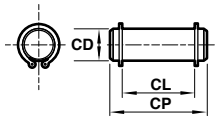


Style 8 – (MF1) Head Flange



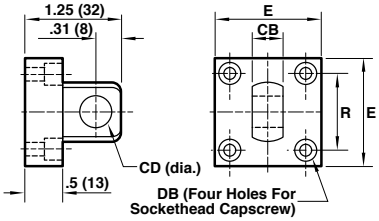
Dimensions in inches (mm)

Pivot Pin



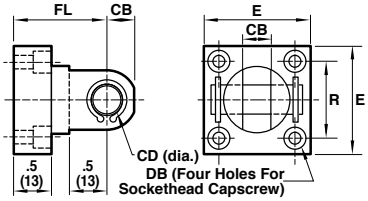
Cyl. Bore	Cyl. Series	Part No.	CD	CL	CP
3/4	All	49085	.25 (6)	.75 (19)	.94 (24)
1, 1-1/8	TA	49086	.25 (6)	.88 (22)	1.06 (27)
1, 1-1/8	TAV-TAE	49087	.38 (10)	.88 (22)	1.06 (27)

Eye Bracket



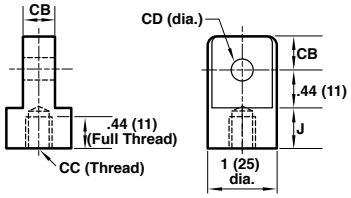
Cyl. Bore	Cyl. Series	Part No.	CD	CB	DB	E	R
3/4	TA, TAV-TAE	49069	.25 (6)	.25 (6)	6-32	1 (25)	.75 (19)
1 &	TA	49070	.25 (6)	.38 (10)	10-32	1.38 (35)	1 (25)
1-1/8	TAV-TAE	49071	.38 (10)	.38 (10)	10-32	1.38 (35)	1 (25)

Clevis Bracket (includes pin)



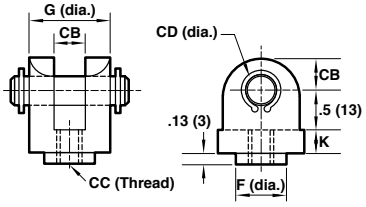
Cyl. Bore	Cyl. Series	Part No.	E	R	FL	CB	CD	DB
3/4	TA, TAV-TAE	49072	1 (25)	.75 (19)	1.19 (30)	.25 (6)	.25 (6)	6-32
1 &	TA	49073	1.38 (35)	1 (25)	1.25 (32)	.38 (10)	.25 (6)	10-32
1-1/8	TAV-TAE	49074	1.38 (35)	1 (25)	1.25 (32)	.38 (10)	.38 (10)	10-32

Rod Eye



Cyl. Bore	Cyl. Series	Part No.	CC	CD	CB	I	J
3/4	TA, TAV-TAE	49075	1/4-28	.25 (6)	.25 (6)	.5 (13)	.31 (8)
	TA	49076	5/16-24	.25 (6)	.38 (10)	.75 (19)	.44 (11)
1	TAV-TAE	49077	5/16-24	.38 (10)	.38 (10)	.75 (19)	.44 (11)
	TA	49078	3/8-24	.25 (6)	.38 (10)	.75 (19)	.44 (11)
1-1/8	TAV-TAE	49079	3/8-24	.38 (10)	.38 (10)	.75 (19)	.44 (11)

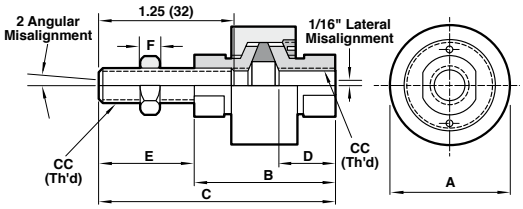
Rod Clevis (includes pin)



Cyl. Bore	Cyl. Series	Part No.	CB	CD	F	G	K	CC
3/4	TA, TAV-TAE	49080	.25 (6)	.25 (6)	.44 (11)	.75 (19)	.19 (5)	1/4-28
	TA	49081	.38 (10)	.25 (6)	.56 (14)	.88 (22)	.25 (6)	5/16-24
1	TAV-TAE	49082	.38 (10)	.38 (10)	.56 (14)	.88 (22)	.25 (6)	5/16-24
	TA	49083	.38 (10)	.25 (6)	.56 (14)	.88 (22)	.25 (6)	3/8-24
1-1/8	TAV-TAE	49084	.38 (10)	.38 (10)	.56 (14)	.88 (22)	.25 (6)	3/8-24

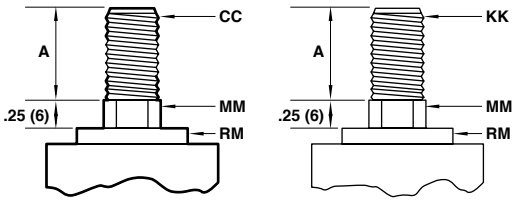
Dimensions in inches (mm)

Rod Aligners (includes jam nut)



Model	A	B	C	D	E	F	CC
RA-25	1 (25)	1.38 (35)	2.13 (54)	.5 (13)	.75 (19)	.16 (4)	1/4-28
RA-32	1 (25)	1.38 (35)	2.13 (54)	.5 (13)	.75 (19)	.19 (5)	5/16-24
RA-38	1 (25)	1.38 (35)	2.13 (54)	.5 (13)	.75 (19)	.19 (5)	3/8-24
RA-44	1.5 (38)	1.78 (45)	3 (76)	.69 (18)	1.22 (31)	.22 (6)	7/16-20
RA-50	1.5 (38)	1.78 (45)	3 (76)	.69 (18)	1.22 (31)	.25 (6)	1/2-20

Oversize Rods – Optional Rod End Styles



Bore	Rod Size	MM	CC (Style A)	A	KK (Style B)	D	RM
3/4"	1	.25 (6)	1/4-28	.63 (16)	10-32	.22 (6)	.63 (16)
3/4"	2	.31 (8)	5/16-24	.63 (16)	1/4-28	.25 (6)	.63 (16)
1"	2	.31 (8)	5/16-24	.63 (16)	1/4-28	.25 (6)	.63 (16)
1"	3	.38 (10)	3/8-24	.63 (16)	5/16-24	.31 (8)	.75 (19)*
1"	4	.50 (31)	1/2-20	.75 (19)	7/16-20	.44 (11)	.75 (19)*
1-1/8"	3	.38 (10)	3/8-24	.63 (16)	5/16-24	.31 (8)	.75 (19)*
1-1/8"	4	.50 (31)	1/2-20	.75 (19)	7/16-20	.44 (11)	.75 (19)*

Note: Oversize rods are not available in Style 2, sizes 3/4" and 1" due to interference with the rod gland.
See ACT-5-18 for cylinders equipped with modified rods or other optional equipment.

Other options

High temperature seals

Available for all seals and bore sizes when normal service requires the cylinder to operate at ambient temperatures ranging above 200° to 350°F (93° to 177°C). Specify FPM.

Single Acting, Spring Return Actuators

Available for all Series and bore sizes. Add two times working stroke to envelope dimensions.

Adjustable Cushions

Insert type adjustable cushions are available when required. Add 1/2" to cylinder length per cushioned end.

Note: Not available with 1/2" diameter rods.

Dimensions in inches (mm)