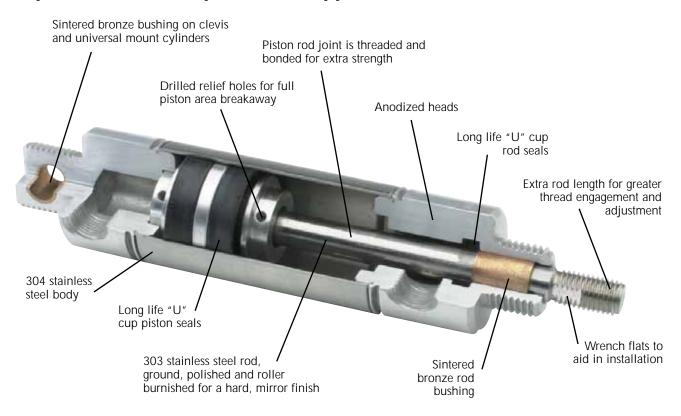


In the early 1950's, Clippard introduced miniature pneumatic cylinders and valves to industry. No other manufacturer can boast of the same experience or knowledge of miniature components.

Air cylinders have always been an integral part of the Clippard Minimatic[®] line. Over the years Clippard has responded to requests from cylinder users to provide additional sizes of air cylinders and auxiliary support products. While competitively priced, these products maintain the Clippard standard for quality and reliability that has been the industry standard for many years.



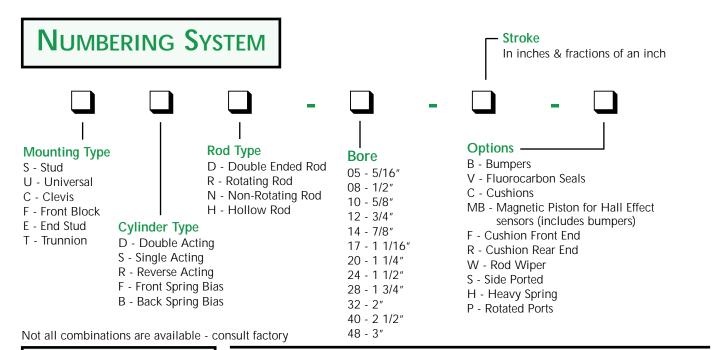
Features

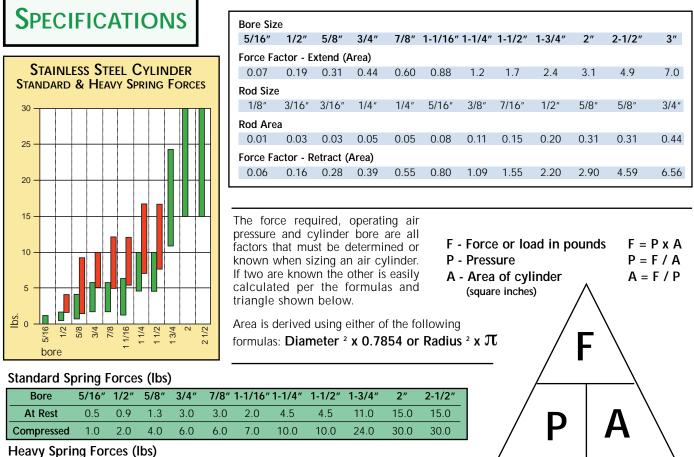
- Polished I.D. 304 stainless steel tubes for low breakaway Repairable rod seal on 28 through 48 series
- Precision rolled construction for a solid, leakproof cylinder at a reasonable price
- Machined aluminum heads are clear anodized for extra protection against corrosion
- Cylinder heads are machined from one side for better concentricity
- Sintered bronze rod bushing
- · Sintered bronze clevis bushing on all clevis and universal mount cylinders
- Rods are threaded and bonded to pistons

- Ground, polished and roller burnished 303 stainless rods provide a smoother rod finish that protects rod seals, giving longer life
- Full piston area breakaway to assure full power from the beginning of each stroke
- Buna-N "U"-cup piston seals for full power, low friction and trouble-free performance
- Buna-N "U"-cup rod seals for leakproof operation
- Temperature range: 32° to 230°F
- Maximum pressure: 250 psig









1-3/4"

N/A

N/A

2″

N/A

N/A

2-1/2″

N/A

N/A

1-1/2"

8.5

17.0

5.0

10.0

7/8" 1-1/16" 1-1/4"

8.5

17.0

5.5

13.0

Bore

At Rest

Compressed

5/16" 1/2"

2.0

4.0

N/A

N/A

5/8″

3.3

9.0

3/4"

5.0

10.0





The following options are available with Clippard stainless steel cylinders. Available options are shown by the abbreviations noted in the information shown with each standard cylinder.

Fluorocarbon Seals -V

This option is used in applications where chemical resistance, compatibility and temperature become an issue. Temperature ranges: -20 up to 400° F.

Cushions -C (Front Cushion Only) -F (Rear Cushion Only) -R

Clippard's cushion cylinders offer an adjustable cushion to slow the cylinder near the end of the stroke to reduce impact and prolong cylinder life. Our adjustment needle is held captive to prevent the needle from blowing out. The cushion can be adjusted to have a dead stop 1/2" from end of stroke or adjusted to have virtually no effect on the action of the cylinder. See specific cylinder specifications for availability of this option.

No Rod Threads -N

Rods are provided with no threads when this option is ordered.

Magnetic Piston - MB

A magnet is attached to the piston that will actuate the Hall Effect and reed switches. This option also includes bumpers and extends the overall length of the cylinder. Switches and clamps need to be ordered separately. For more information see page 83 on Clippard's Hall Effect and reed switches. For multiple reed switches we need a 1" stroke or more. Maximum temperature 300° F.

Rod Wipers -W

Rod Wipers are added to cylinders in applications where a liquid wash could dry out the rod seals of a double acting cylinder.

Non-standard Options

Extra Rod Extensions Thread Modifications Silk Screening Private Labels

If you can't find a cylinder to suit your needs call your Clippard distributor to inquire about custom cylinders.

Bumpers -B

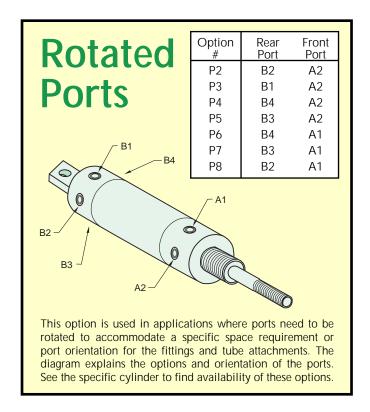
Internal polyurethane bumpers are supplied for applications where the cylinder is cycled with a light load and/or high speeds. The elastic bumpers reduce noise and shock to the load. Use of this option may add to the overall length of the cylinder. See specific cylinder listings on the following pages for availability and details of the overall length added. Maximum temperature 200° F.

Side Ported -S

Side ported rear heads are sometimes needed when the standard cylinder has the rear port out the back. This option changes the design of the rear head so the rear port is located on the side of the cylinder. Overall length of cylinder changes with this option.

Heavy Spring -H

In single acting, reverse acting or spring bias cylinders the standard spring force can be changed by ordering the -H option. The spring forces for the heavy springs are shown on page 3.





STROKE LENGTHS

Standard stroke lengths for each bore size and cylinder style are listed in



this catalog. Non-standard stroke lengths (not listed in the catalog) up to 24" for single acting cylinders and 36" for double acting cylinders are available. Stroke length should be specified in inches and fractions of an inch. Consult the factory for other requirements.

In applications, attention should be given to minimizing the side load on the rod to insure a smooth stroke without binding. Also, in applications where the cylinder rod is subjected to an unsupported column load, the load on the rod should be less than the force shown in the table below to prevent buckling of the rod.

	Maximum Load (Ibs) to Prevent Buckling of the Rod						Rod Thread	Bore Size	Series	Rod Size	Rod Flats			
Rod dia.	1″	5″	10″	Rod L 15″	e ngth 20″	25″	30″	35″	40″	#5-40 UNC-2A	5/16″	05	1/8″	none
1/8″	110	12	3	1.3						#10-32 UNF-2A #10-32 UNF-2A	1/2″ 5/8″	08 10	3/16" 3/16"	none none
3/16″	262	59	15	6.6	3.7					1/4-28 UNF-2A	3/4″	12	1/4″	0.218
1/4″	478	190	47	21	12	7.5				1/4-28 UNF-2A	7/8″	14	1/4″	0.218
5/16″	756	451	116	52	29	19	13			5/16-24 UNF-2A	1 1/16″	17	5/16″	0.250
3/8″	1091	786	240	106	60	38	27	20		3/8-24 UNF-2A	1 1/4″	20	3/8″	0.312
7/16″	1490	1184	444	197	111	71	49	36	28	7/16-20 UNF-2A	1 1/2″	24	7/16″	0.375
1/2″	1950	1645	757	336	189	120	84	62	47	1/2-20 UNF-2A	1 3/4″	28	1/2″	0.437
										1/2-20 UNF-2A	2″	32	5/8″	0.500
5/8″	3055	2750	1795	821	462	295	205	150	115	1/2-20 UNF-2A	2 1/2″	40	5/8″	0.500
3/4″	4405	4100	3140	1700	950	613	425	312	240	5/8-18 UNF-2A	3″	48	3/4″	0.625

If your application requires a custom feature that you do not see in our catalog please contact our distributor in

your area for assistance. We manufacture a wide variety of special cylinders. Examples of our custom cylinder capabilities would include: stroke and rod modifications, special mounting configurations and ports, seal and lubrication options, integrated valving and adjustable stroke cylinders. We also provide application based special cylinder design for those customers having unique parameters.

FREE CYLINDER SAMPLE PROGRAM

We invite competitive comparisons. If you are an OEM that uses air cylinders, Clippard will provide a free sample for your evaluation. Contact us or your local distributor and ask for the "Free Sample ClLinder" request form.





POSITION SENSORS

Clippard pneumatic cylinders are available with a choice of magnetically operated position sensors. The magnetic reed switch or Hall Effect sensor . . . on cylinders equipped with magnetic piston option.

Hall Effect Position Sensors

Clippard Hall Effect sensors offer the user more accurate sensing of piston location for the ultimate in pneumatic system control.

The Hall Effect sensor operates with Clippard stainless steel pneumatic cylinders equipped with internal magnets on the pistons. By accurately sensing the magnetic field of the piston when it passes beneath the sensor, the position of the rod piston is determined, and a feedback signal is created. See page 59.





Reed Switches

The Clippard RS magnetic reed switches have power ranges to 25 watts, current up to 1.5 amperes and a rated life span of 10 million cycles. Plan to use them where the high performance of the Clippard HS Hall Effect switch is not required.

Two models are available: 36 volts or 200 volts AC/DC. Each is a SPST normally open configuration. When the cylinder's magnet-equipped piston moves to a location where the magnet is positioned below the reed switch, the switch sends a feedback signal to indicate piston location. In the 36 VDC model, an LED provides switch closing indication. See page 59.

Accessories

Mounting Hardware

For efficient power and easy mounting, Clippard has designed and manufactured brackets suitable for each cylinder shown in this catalog.

These products are shown on the last page of each corresponding bore size and include clevis mounting brackets, foot mounting brackets, rod clevis assemblies and rod eye assemblies. Extra mounting nuts are available.







Flow Controls

Clippard offers a large variety of flow controls and needle valves for adjusting the speed of the cylinder. Several models are available from fine adjustments to coarse adjustments in a variety of mounting configurations.

See pages 154 through 157.



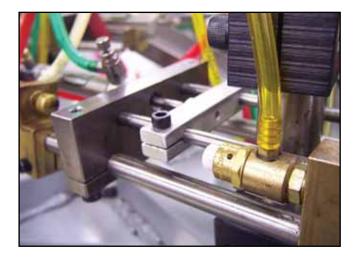


Quick Exhaust Valves

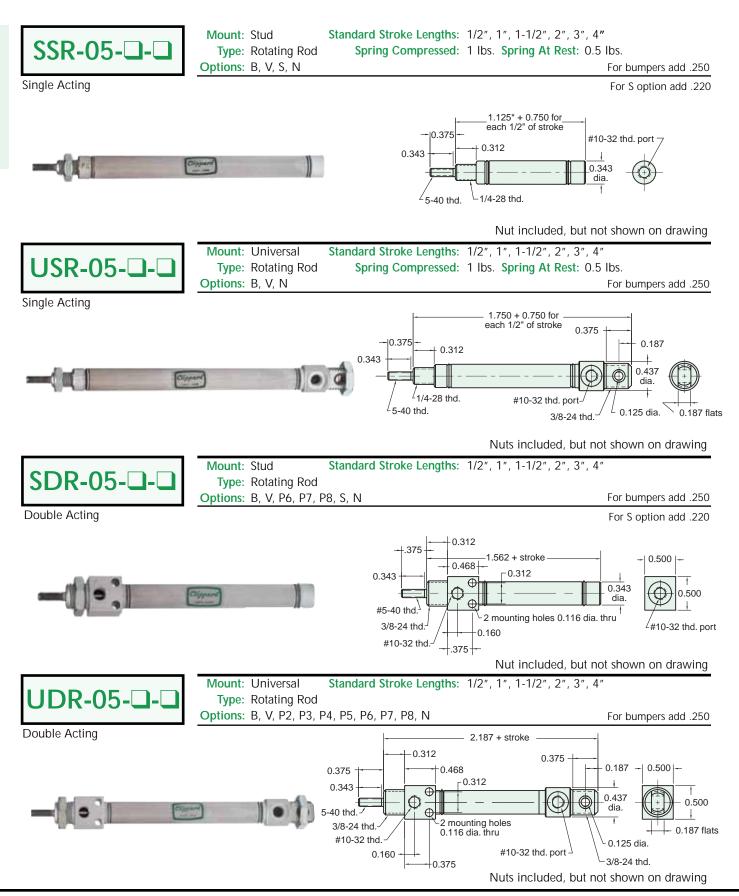
The primary function of a quick exhaust valve is to increase cylinder speed. This also enables the use of smaller directional valves and longer control lines. Offered with several port configurations from #10-32 models up to 1/4". See pages 159 and 160.

Limit Valves

A limit valve is the best way to have a mechanical limit to return air signals to control valves or circuits. Clippard offers limit valves in ports ranging from #3-56 up to 1/8" NPT, high force and heavy duty limits as well as non-contact sensing valves. See Control Valves section.



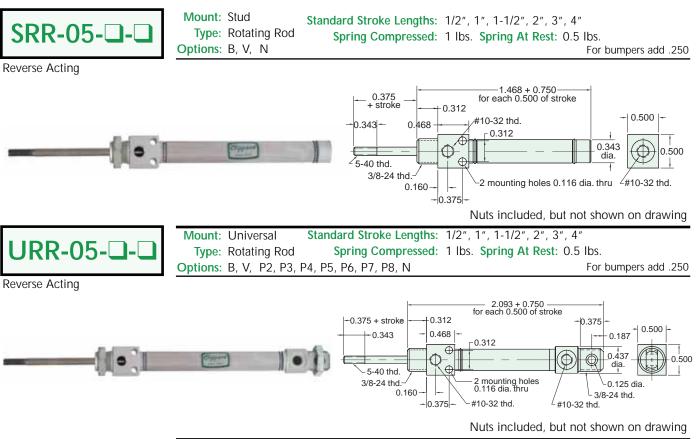




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5/16" Bore Stainless Steel Cylinder



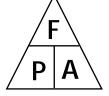


Bore Siz	е										
5/16″	1/2″	5/8″	3/4″	7/8″	1-1/16″	1-1/4″	1-1/2″	1-3/4″	2″	2-1/2″	3″
Force Fa	ictor - Ext	tend (are	ea)								
0.07	0.19	0.31	0.44	0.60	0.88	1.2	1.7	2.4	3.1	4.9	7.0
Rod Size	9										
/8″	3/16″	3/16″	1/4″	1/4″	5/16″	3/8″	7/16″	1/2″	5/8″	5/8″	3/4″
Rod Are	а										
0.01	0.03	0.03	0.05	0.05	0.08	0.11	0.15	00.20	0.20	0.31	0.44
Force Fa	ictor - Re	tract (ar	ea)								
0.06	0.16	0.28	0.39	0.55	0.80	1.09	1.55	2.2	2.9	4.59	6.56
20 psig ·	Extend ((lbs)									
1.4	3.8	6.2	8.8	12.0	17.6	24.0	34.0	48.0	62.0	98.0	140.0
20 psig	Retract	(lbs)									
1.16	3.25	5.65	7.82	11.02	16.07	21.79	31.0	44.07	58.07	91.86	131.16
50 psig	Extend ((lbs)									
3.5	9.5	15.5	22.0	30.0	44.0	60.0	85.0	120.0	155.0	245.0	350.0
50 psig	Retract	(lbs)									
2.9	8.13	14.13	19.55	27.55	40.17	54.48	77.5	110.18	145.18	229.66	327.91
80 psig ·	Extend ((lbs)									
5.6	15.2	24.8	35.2	48.0	70.4	96.0	136.0	192.0	248.0	392.0	560.0
80 psig ·	Retract	(lbs)									
4.64	13.0	22.6	31.27	44.07	64.26	87.17	124.0	176.29	232.29	367.46	524.66

Force Factor

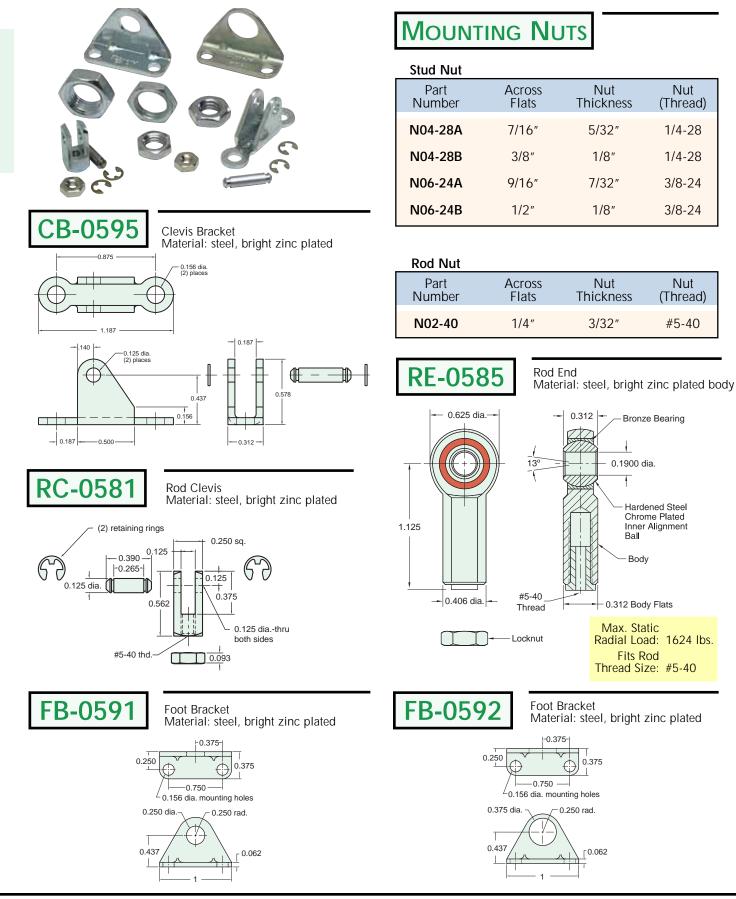
The "force factor" is the nominal area of the cylinder bore size. The chart to the right provides theoretical forces in both the extend and retract stroke of all available bore sizes.

These values are theoretical and make no allowance for friction which varies with the bore size. It is recommended that a 25% safety factor be allowed when selecting a cylinder bore for normal load movement. In high speed applications that number should be at least 40%.





5/16" BORE ACCESSORIES



Nut

(Thread)

1/4-28

1/4-28

3/8-24

3/8-24

Nut

(Thread)

#5-40

- Bronze Bearing

Hardened Steel Chrome Plated Inner Alignment

0.1900 dia.

Ball

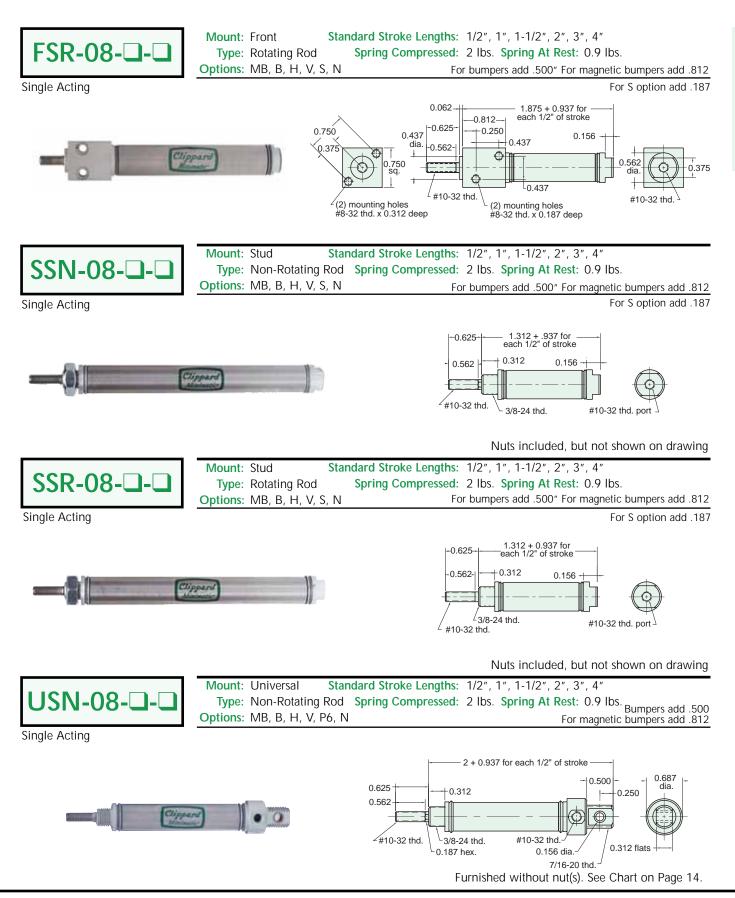
Body

0.312 Body Flats

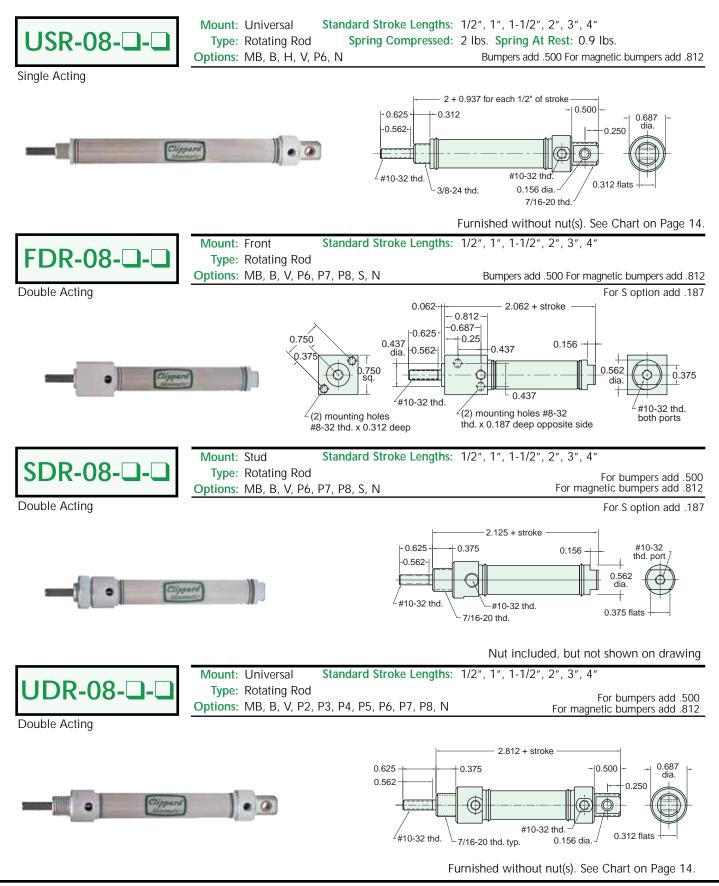
Fits Rod

1/2" Bore Stainless Steel Cylinder





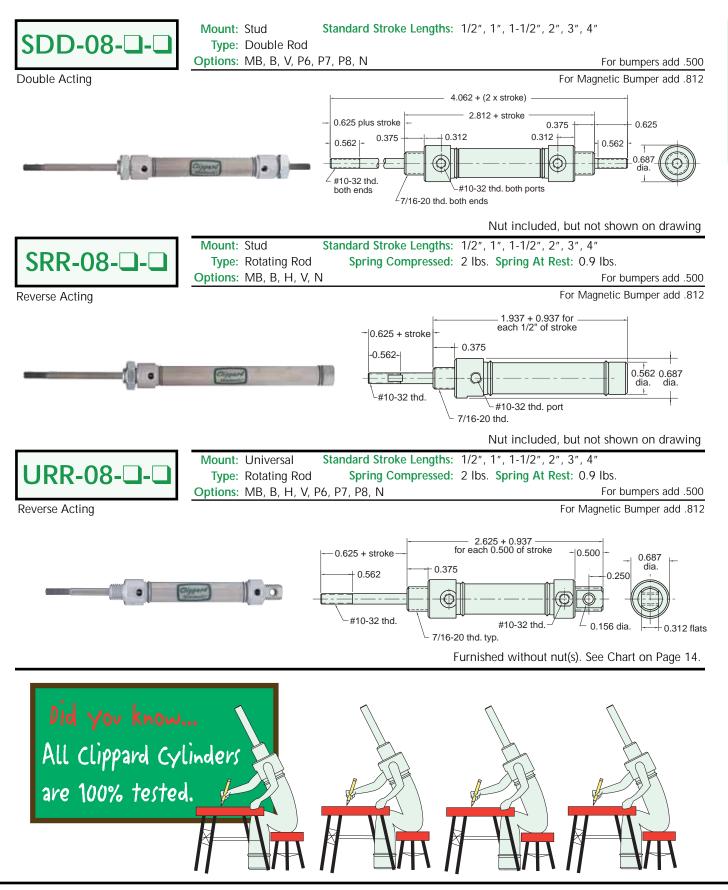




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1/2" BORE STAINLESS STEEL CYLINDER





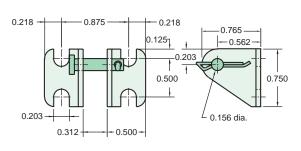


1/2" BORE ACCESSORIES





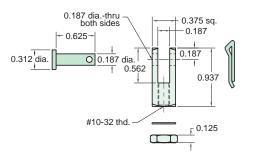
Clevis Bracket Material: steel, bright zinc plated



RC-0881

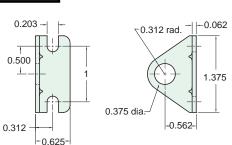
Rod Clevis Material: steel, bright zinc plated

Material: steel, bright zinc plated



Foot Bracket

FB-0891

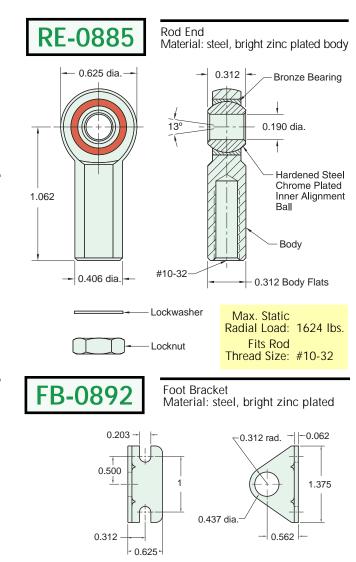


MOUNTING NUTS

Stud Nut			
Part Number	Across Flats	Nut Thickness	Nut (Thread)
N06-24A	9/16″	7/32″	3/8-24
N06-24B	1/2″	1/8″	3/8-24
N07-20	11/16″	1/4″	7/16-20

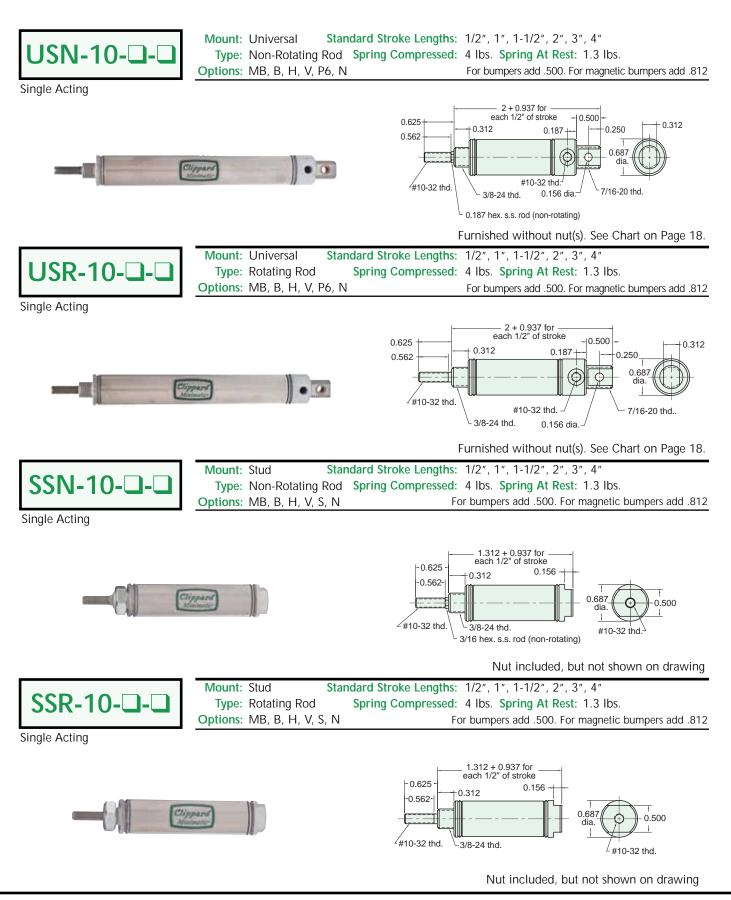
Rod Nut

Part	Across	Nut	Nut
Number	Flats	Thickness	(Thread)
N03-32	3/8″	1/8″	#10-32

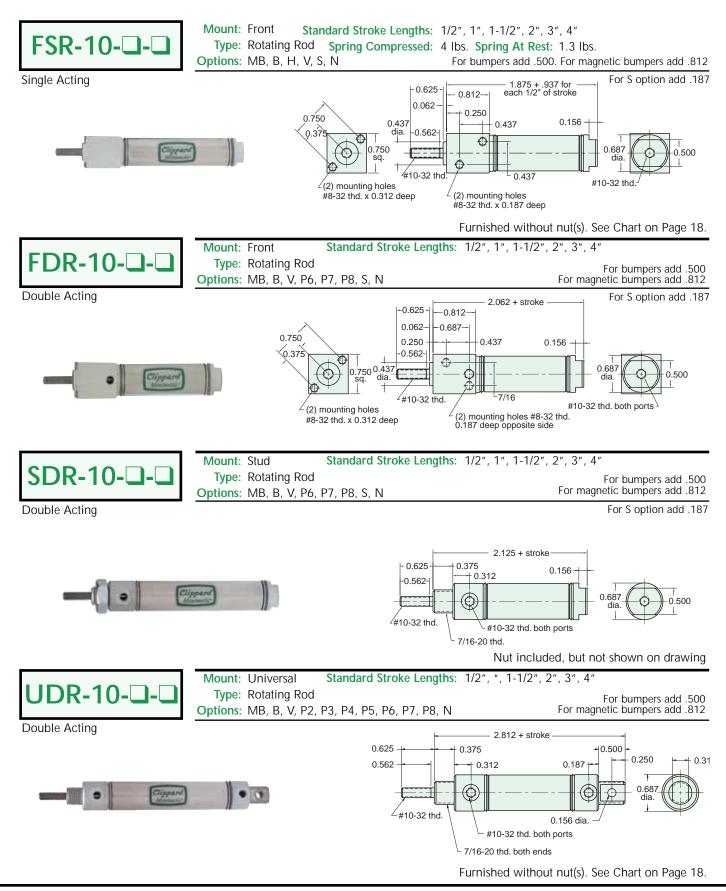


5/8" BORE STAINLESS STEEL CYLINDER

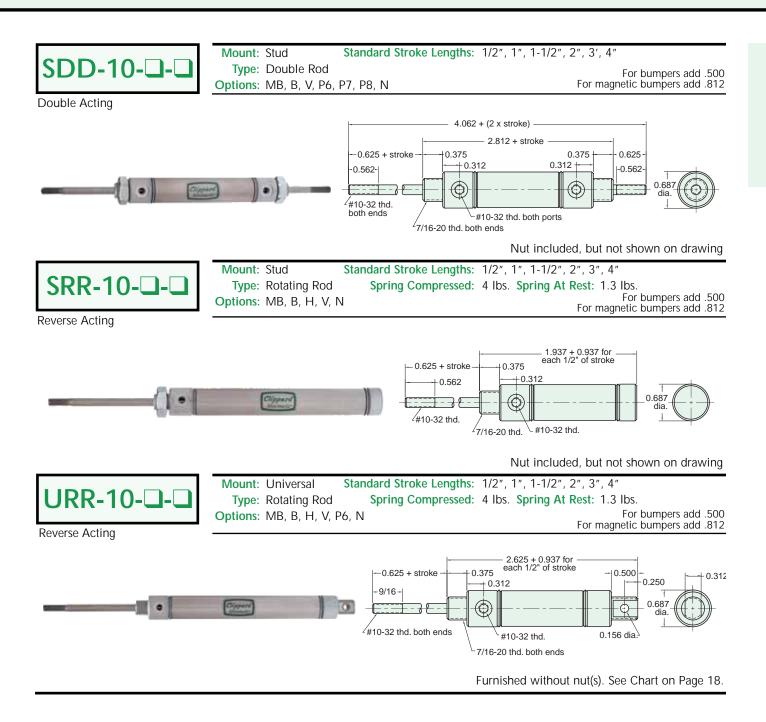












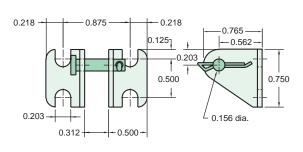


5/8" BORE ACCESSORIES



CB-0895

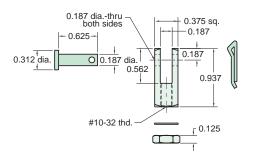
Clevis Bracket Material: steel, bright zinc plated



RC-0881

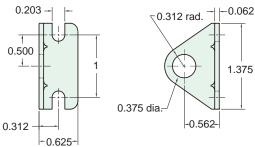
Rod Clevis Material: steel, bright zinc plated

Material: steel, bright zinc plated



Foot Bracket

FB-0891

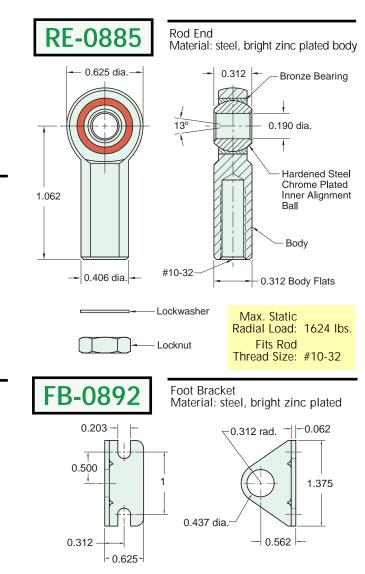


MOUNTING NUTS

Stud Nut			
Part Number	Across Flats	Nut Thickness	Nut (Thread)
N06-24A	9/16″	7/32″	3/8-24
N06-24B	1/2″	1/8″	3/8-24
N07-20	11/16″	1/4″	7/16-20

Rod Nut

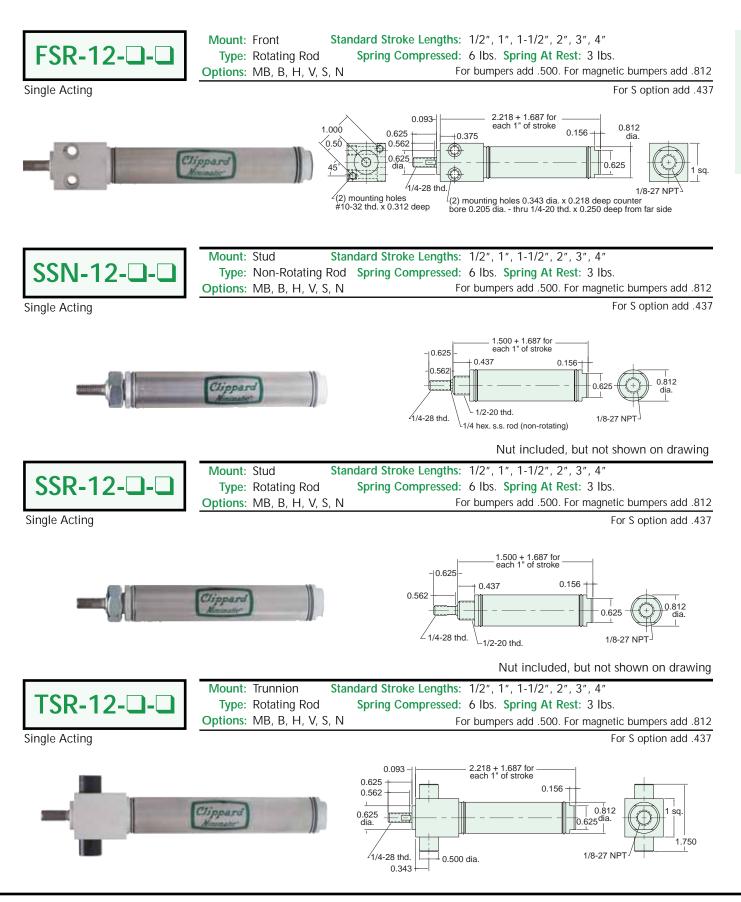
Part	Across	Nut	Nut
Number	Flats	Thickness	(Thread)
N03-32	3/8″	1/8″	#10-32



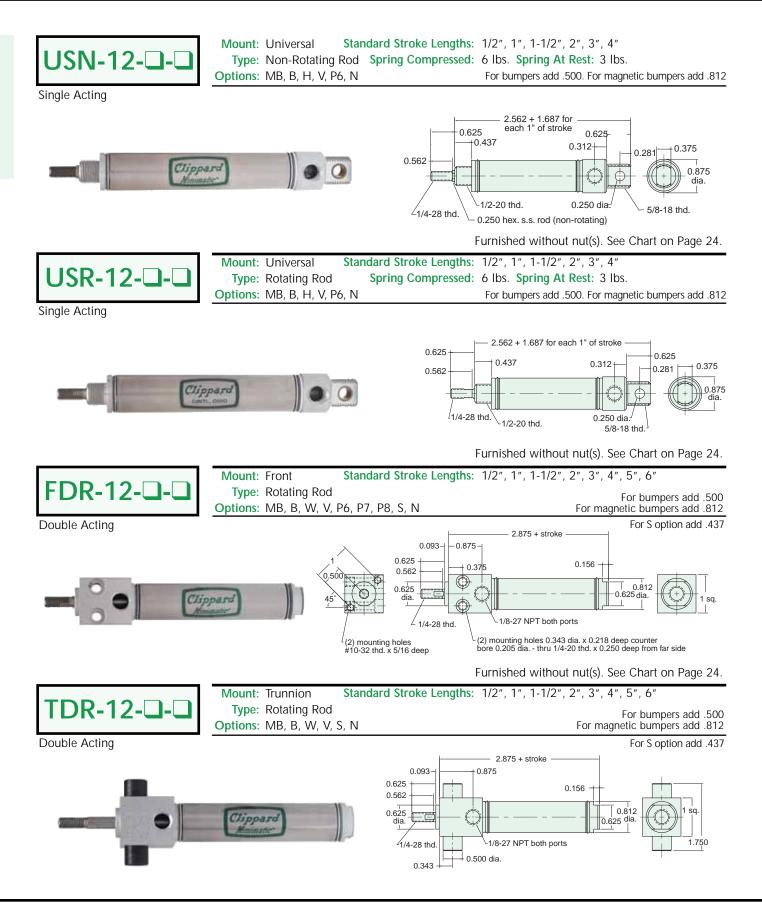
Clippard Instrument Laboratory, Inc. 877-245-6247 www.clippard.com/cylinders/

3/4" BORE STAINLESS STEEL CYLINDER



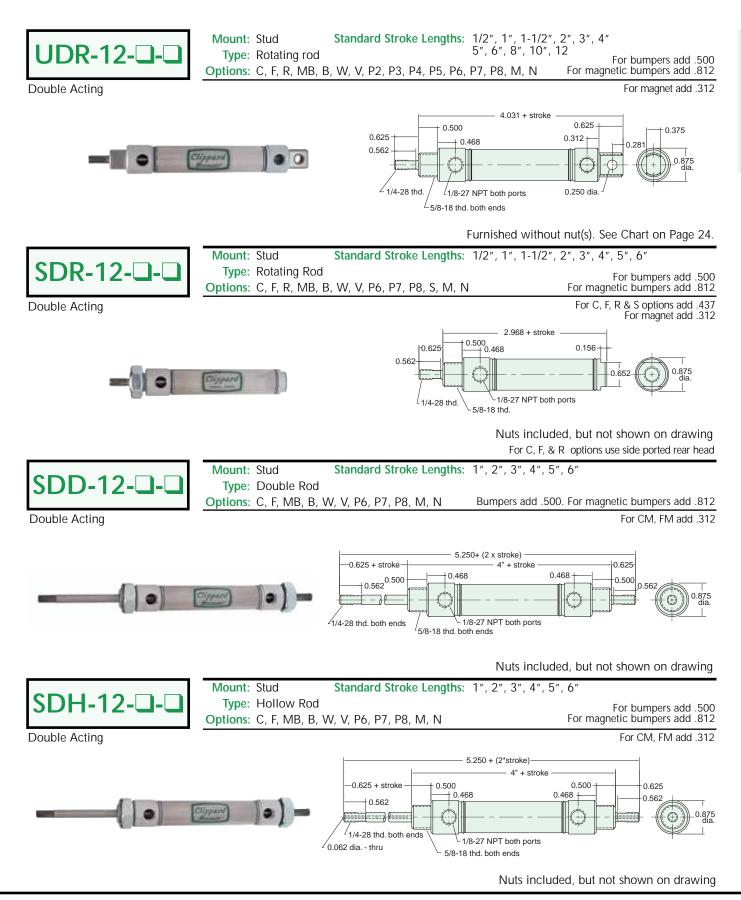




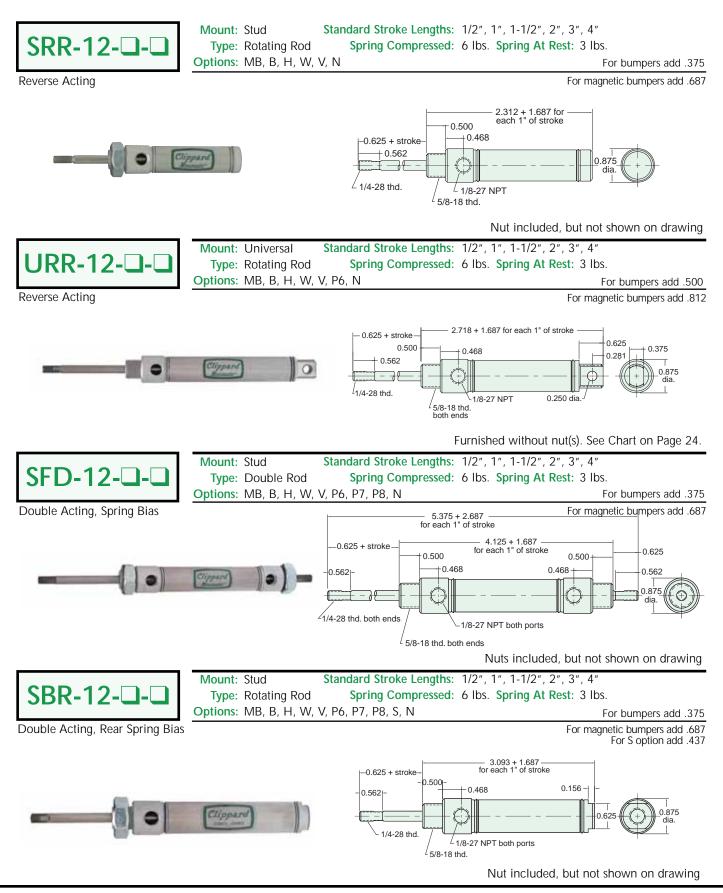


3/4" BORE STAINLESS STEEL CYLINDER

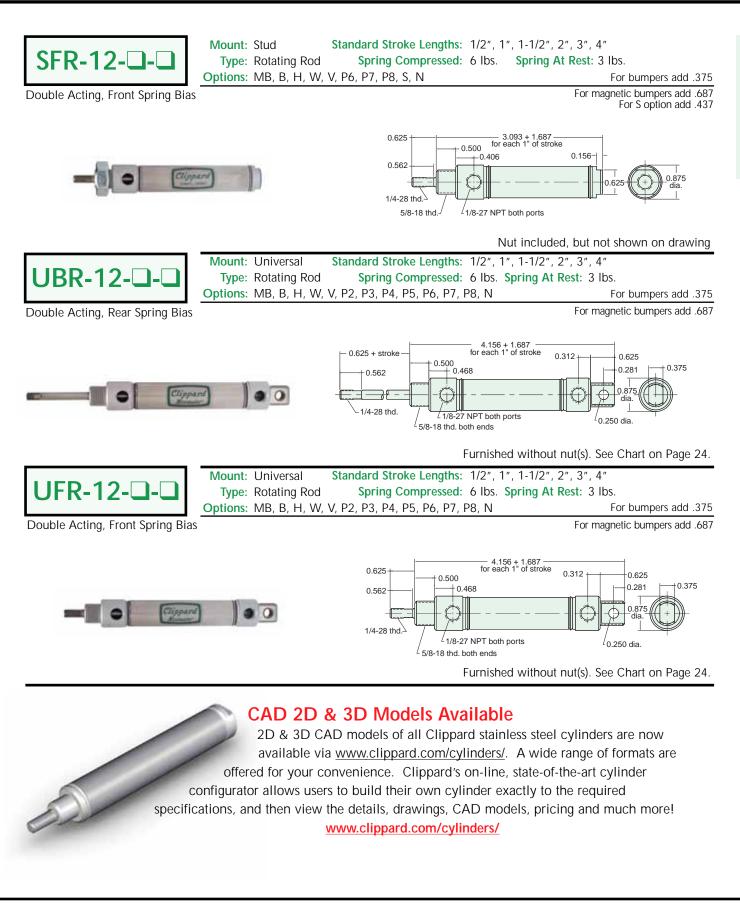












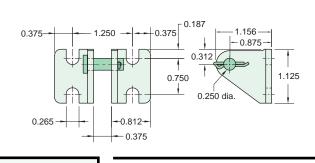


3/4" BORE ACCESSORIES



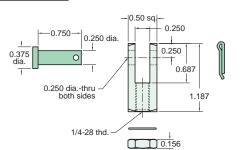


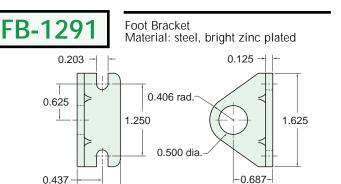
Clevis Bracket Material: steel, bright zinc plated





Rod Clevis Material: steel, bright zinc plated





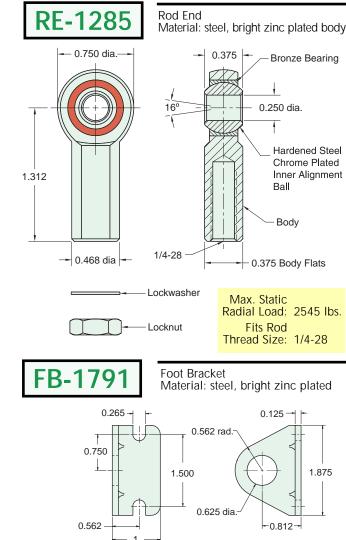
0.750

MOUNTING NUTS

Stud Nut			
Part Number	Across Flats	Nut Thickness	Nut (Thread)
N08-20	3/4″	5/16″	1/2-20
N10-18	15/16″	3/8″	5/8-18

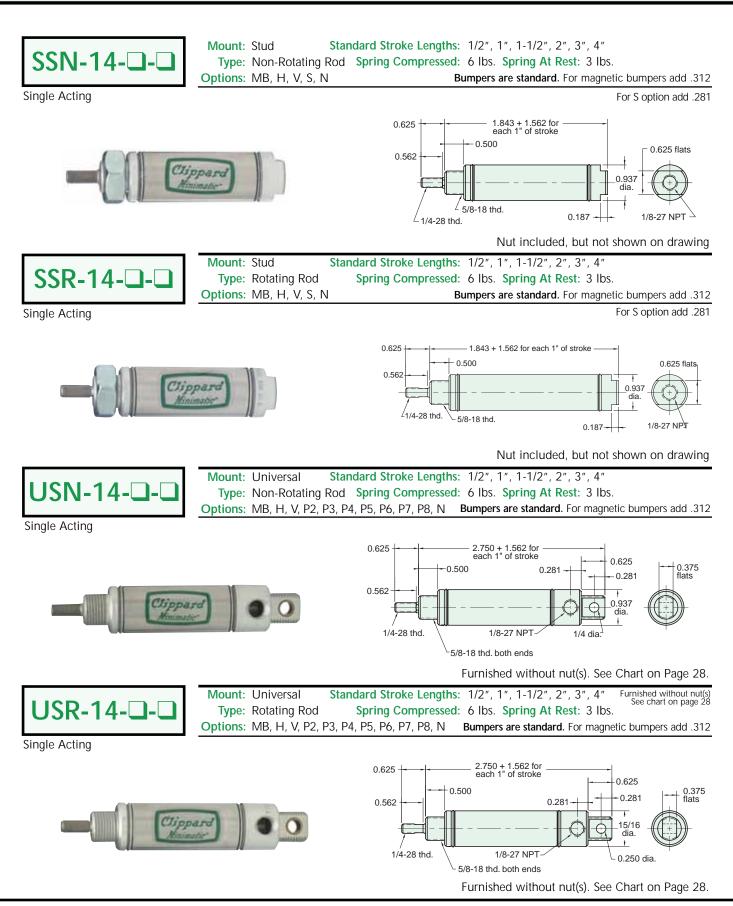
Rod Nut

Part Number	Across Flats	Nut Thickness	Nut (Thread)
N04-28A	7/16″	5/32″	1/4-28
N04-28B	3/8″	1/8″	1/4-28

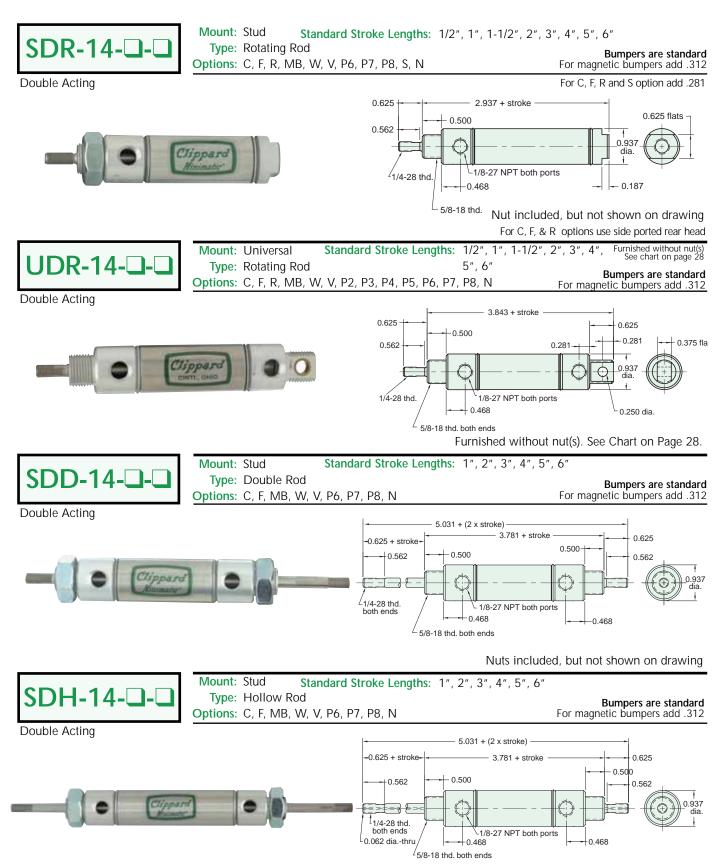


7/8" BORE STAINLESS STEEL CYLINDER





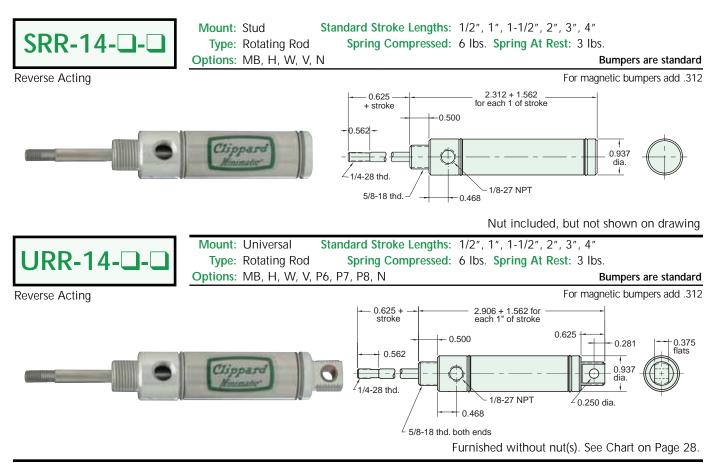




Nuts included, but not shown on drawing

7/8" BORE STAINLESS STEEL CYLINDER





J-Series Exhaust Valve

In a typical application the exhaust valve is installed in the inlet of a spring return or double acting pneumatic cylinder. Supply air from a control valve is directed into the inlet port of the exhaust valve. The Buna-N poppet seals the exhaust port and allows air to flow from the outlet port of the valve into the

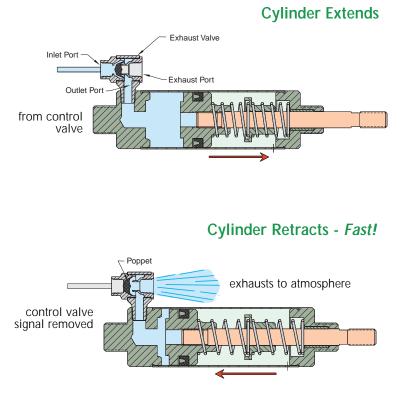
cylinder. The pressurized air pushes against the piston and extends the rod, compressing the spring, until

full rod extension is achieved.

When the control valve

exhausts air from the exhaust valve inlet port, the Buna-N poppet shifts to seal the inlet port and open the exhaust port to the cylinder. The pressurized air is allowed to exhaust directly through the exhaust valve to atmosphere.

Normally the air must travel back through the long air line to the control valve to exhaust. By mounting the exhaust valve directly on the cylinder, the piston retracts quickly since the distance to atmosphere is very short and unrestricted.



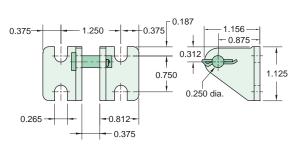


7/8" BORE ACCESSORIES





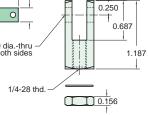
Clevis Bracket Material: steel, bright zinc plated



Rod Clevis



0.375 dia. 1 0.250 dia.-thru both sides





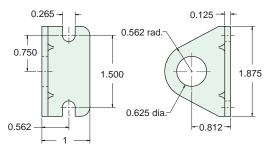
Foot Bracket Material: steel, bright zinc plated

Material: steel, bright zinc plated

0.250

ł

0.50 sq.-



MOUNTING NUTS

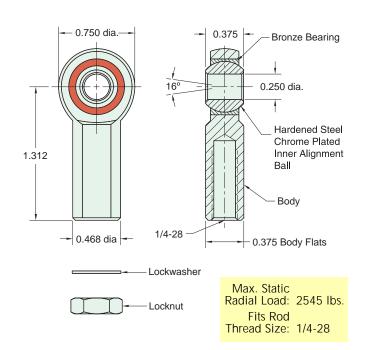
Stud Nut			
Part Number	Across Flats	Nut Thickness	Nut (Thread)
N10-18	15/16″	3/8″	5/8-18

Rod Nut

Part Number	Across Flats	Nut Thickness	Nut (Thread)
N04-28A	7/16″	5/32″	1/4-28
N04-28B	3/8″	1/8″	1/4-28

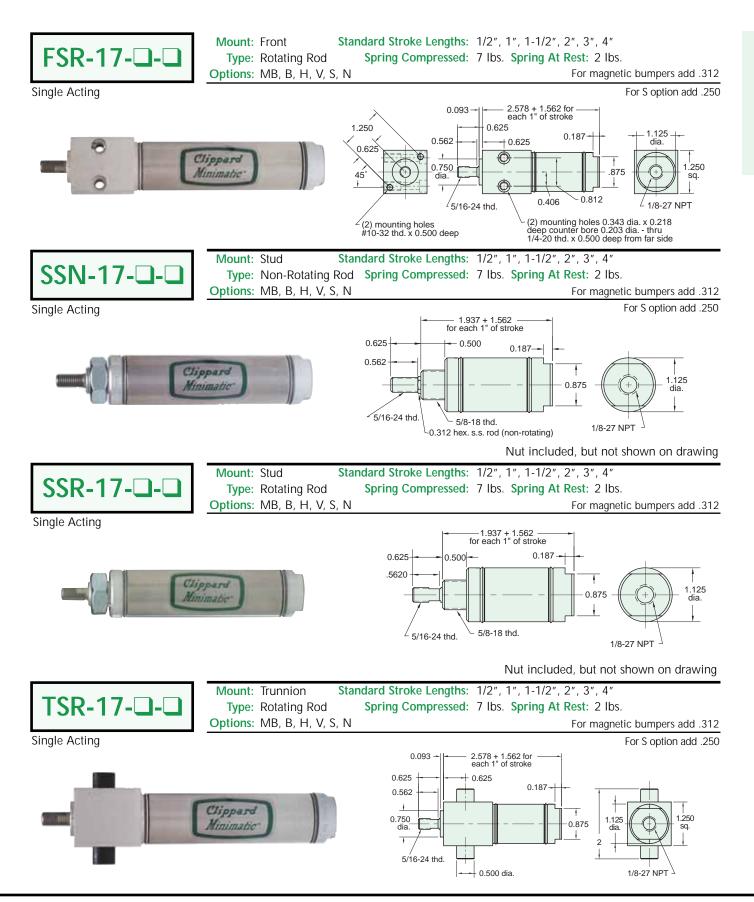
RE-1285

Rod End Material: steel, bright zinc plated body

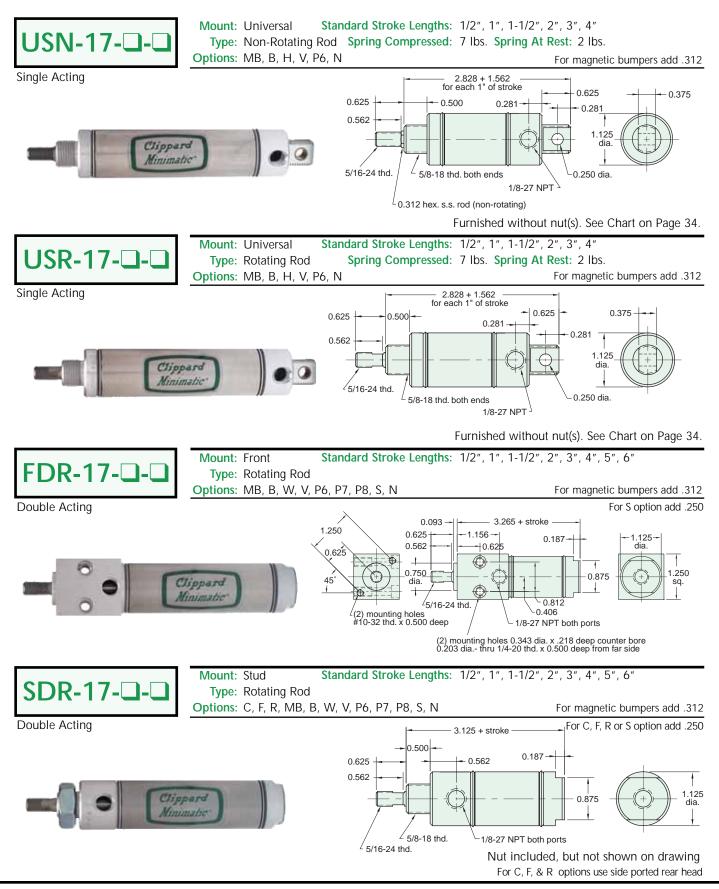


1 1/16" Bore Stainless Steel Cylinder



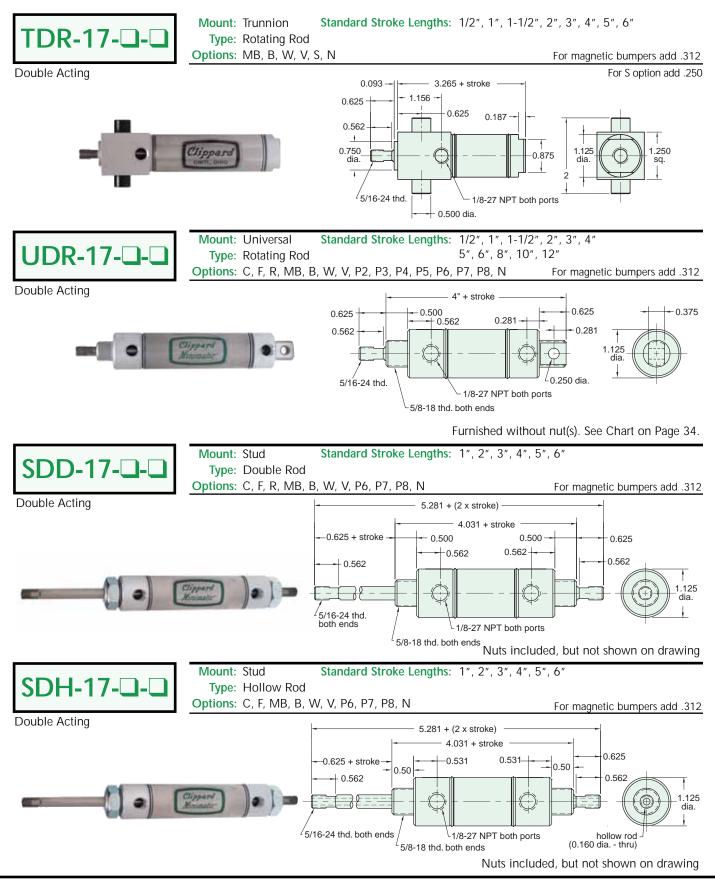




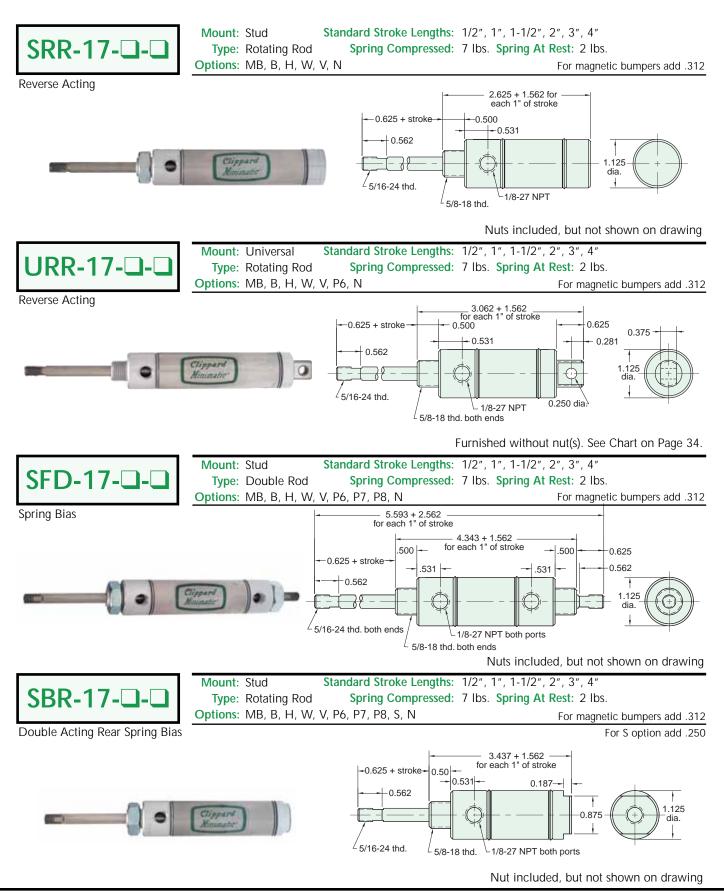


1 1/16" BORE STAINLESS STEEL CYLINDER



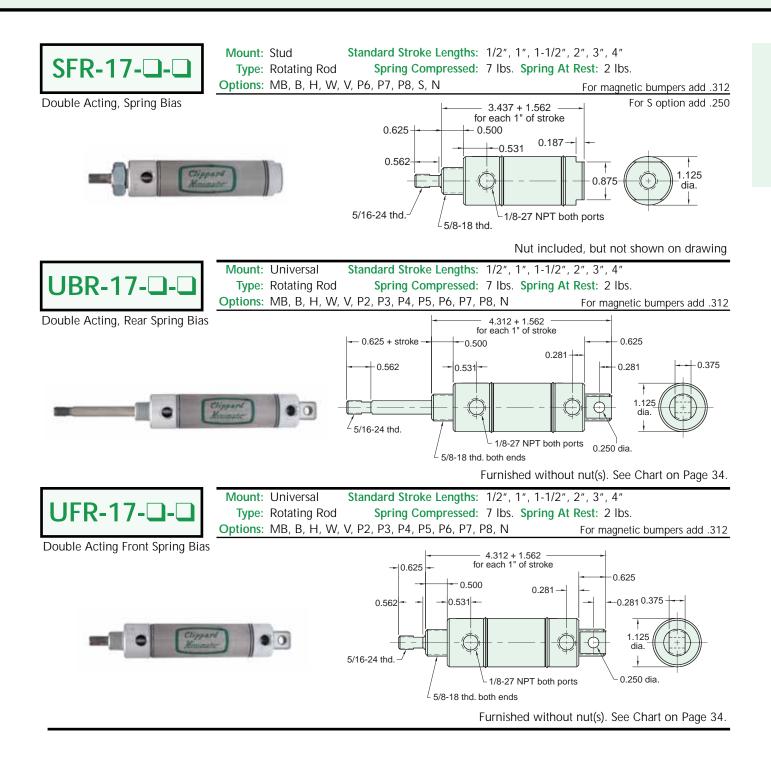




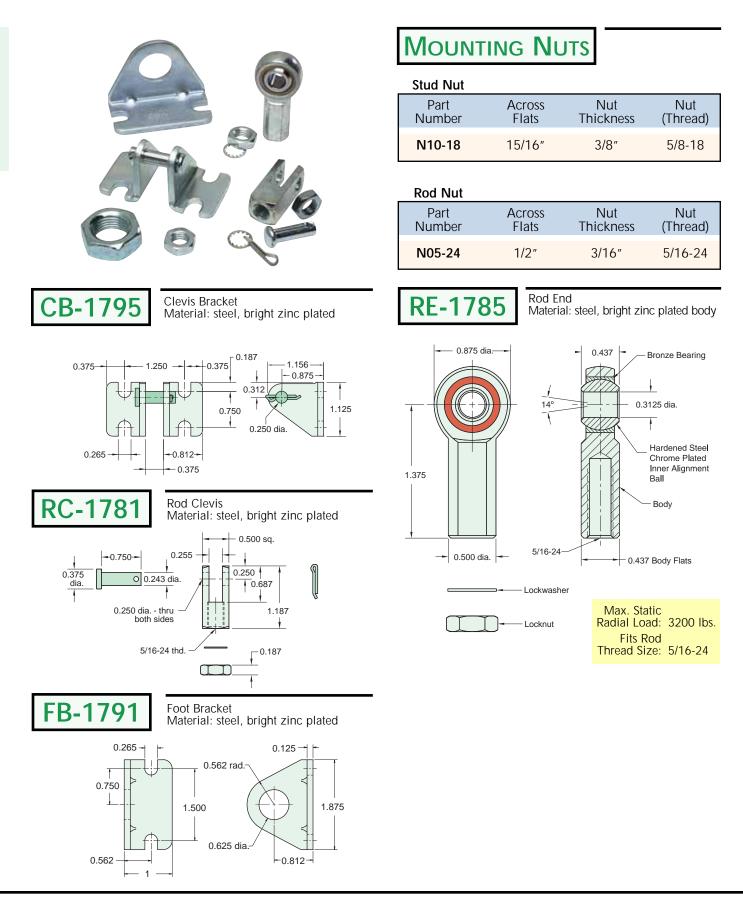


1 1/16" Bore Stainless Steel Cylinder









1 1/4" BORE STAINLESS STEEL CYLINDER

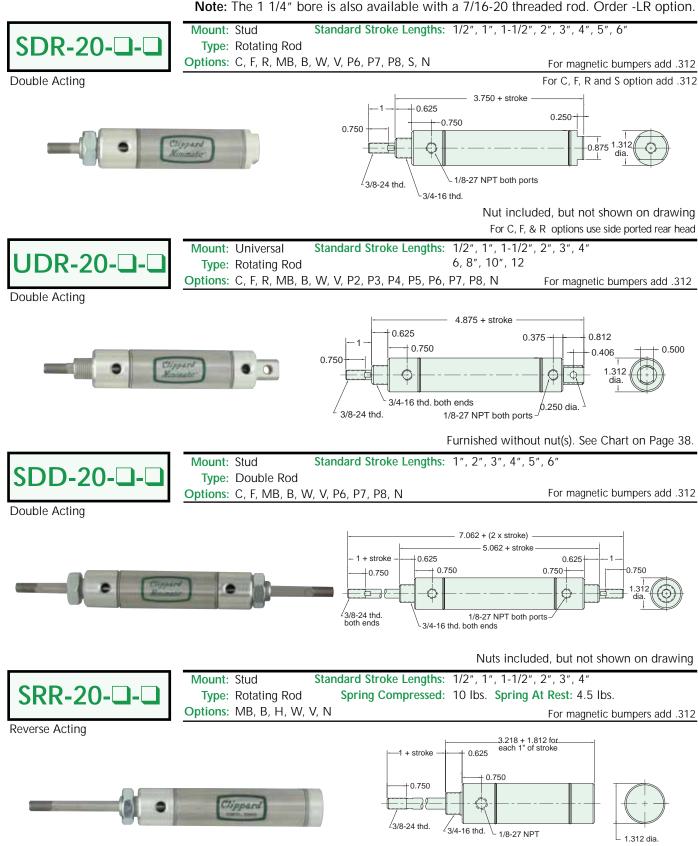


Note: The 1 1/4" bore is also available with a 7/16-20 threaded rod. Order -LR option. Standard Stroke Lengths: 1/2", 1", 1-1/2", 2", 3", 4" Mount: Stud SSN-20-Q-Type: Non-Rotating Rod Spring Compressed: 10 lbs. Spring At Rest: 4.5 lbs. Options: MB, B, H, V, S, N Single Acting For S option add .312 2.406 + 1.812 for each 1" of stroke 0.250 0.625 0.750 0.875 Clippard Minimahi 3/8-24 thd both ends 3/4-16 thd. 1/8-27 NPT 3/8 hex. s.s. rod (non-rotating) Nut included, but not shown on drawing Mount: Stud Standard Stroke Lengths: 1/2", 1", 1-1/2", 2", 3", 4" SSR-20-Type: Rotating Rod Spring Compressed: 10 lbs. Spring At Rest: 4.5 lbs. Options: MB, B, H, V, S, N For S option add .312 Single Acting 2.406 + 1.812 for each 1" of stroke 0.625 0.250 0.750 Clippard 312 0.875 dia Minimata 3/8-24 thd. [\] 3/4-16 thd. 1/8-27 NP both ends Nut included, but not shown on drawing Mount: Universal Standard Stroke Lengths: 1/2", 1", 1-1/2", 2", 3", 4" **USN-20-**Type: Non-Rotating Rod Spring Compressed: 10 lbs. Spring At Rest: 4.5 lbs. Options: MB, B, H, V, P2, P3, P4, P5, P6, P7, P8, N For magnetic bumpers add .312 Single Acting 3.531 + 1.812 for each 1" of stroke - 1 0.625 0.812 0.406 0.375 - 0.500 0.750 1.312 Clippard dia. 3/4-16 thd. both ends 0.250 dia. 3/8 hex. s.s. rod (non-rotating) ^L 1/8-27 NPT 3/8-24 thd. Furnished without nut(s). See Chart on Page 38. Standard Stroke Lengths: 1/2", 1", 1-1/2", 2", 3", 4" Mount: Universal USR-20-🖵-Type: Rotating Rod Spring Compressed: 10 lbs. Spring At Rest: 4.5 lbs. Options: MB, B, H, V, P2, P3, P4, P5, P6, P7, P8, N For magnetic bumpers add .312 Single Acting 3.531 + 1.812 for each 1" of stroke 0.625 0.812 0.750 0.375 0.500 0.406 1.312 \oplus dia 1/8-27 NPT 0.250 dia 3/4-16 thd. both ends

[/]3/8-24 thd.

Furnished without nut(s). See Chart on Page 38.





Nuts included, but not shown on drawing

1 1/4" BORE STAINLESS STEEL CYLINDER



Note: The 1 1/4" bore is also available with a 7/16-20 threaded rod. Order -LR option.

Standard Stroke Lengths: 1/2", 1", 1-1/2", 2", 3", 4" Mount: Universal URR-20-Type: Rotating Rod Spring Compressed: 10 lbs. Spring At Rest: 4.5 lbs. Options: MB, B, H, W, V, P6, N **Reverse Acting** 3.906 + 1.812 for each 1" of stroke -1 + stroke 0.625 0.500 0.812 0.750 0 406 +0.750 312 Clippar dia 3/8-24 thd 0.250 dia 1/8-27 NPT both ports 3/4-16 thd both ends Furnished without nut(s). See Chart on Page 38.

APPLICATION STORY

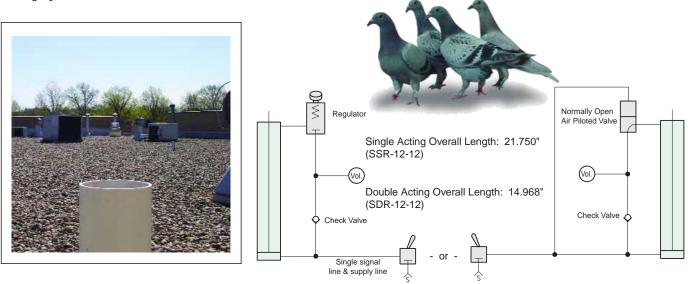
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Clippard Applications Have Gone to the Birds

Pneumatic automation plays a role on the roof tops of Clippard. Over time, pigeons become unruffled by the presence of a motionless plastic owl. By automating several owls throughout the area to pop up out of 8 inch PVC pipes, the pigeon problem has flown away.

While this application only requires a single acting cylinder, they tend to be longer than double acting cylinders of the same stroke. To fit the cylinder inside of the owl and have enough stroke to raise it fully, these wise old birds used double acting cylinders with a little circuitry to make them act like single acting cylinders.





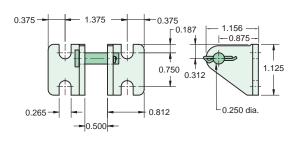


1 1/4" BORE ACCESSORIES



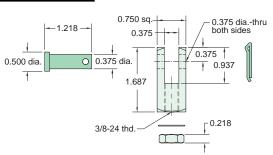


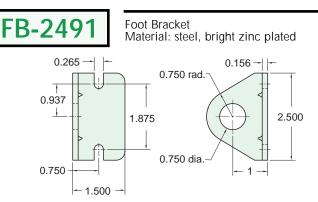
Clevis Bracket Material: steel, bright zinc plated





Rod Clevis Material: steel, bright zinc plated





MOUNTING NUTS

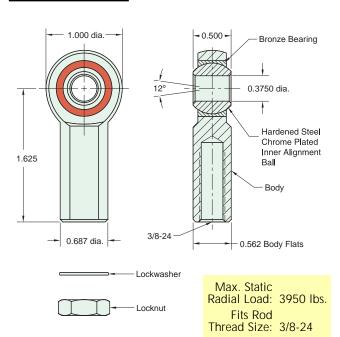
Stud Nut			
Part Number	Across Flats	Nut Thickness	Nut (Thread)
N12-16	1 3/32″	27/64″	3/4-16

Rod Nut

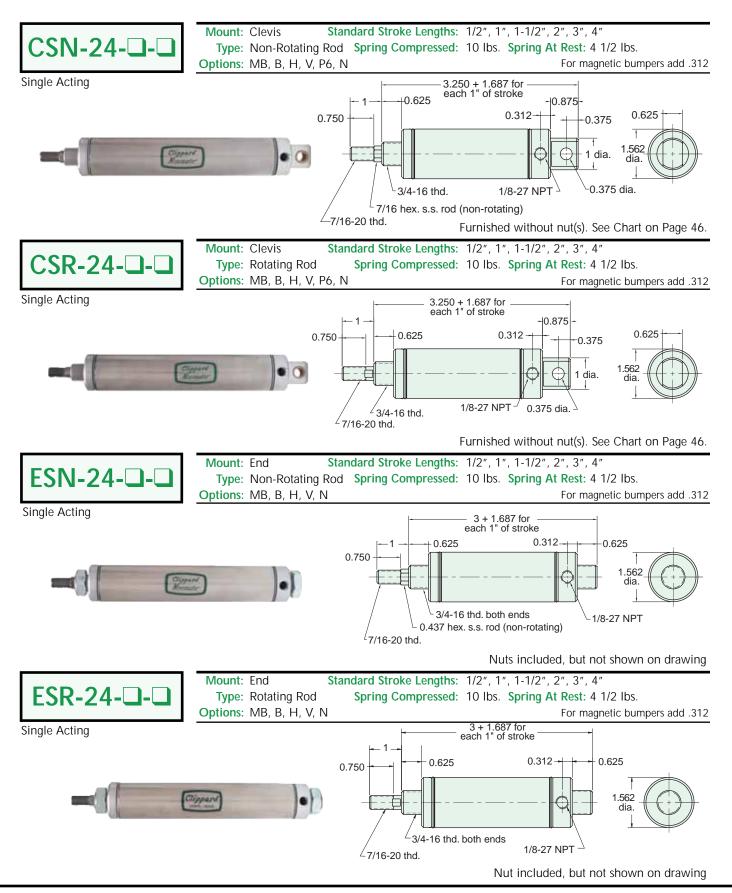
Part Number	Across Flats	Nut Thickness	Nut (Thread)
N06-24A	9/16″	7/32″	3/8-24
N06-24B	1/2″	1/8″	3/8-24

RE-2085

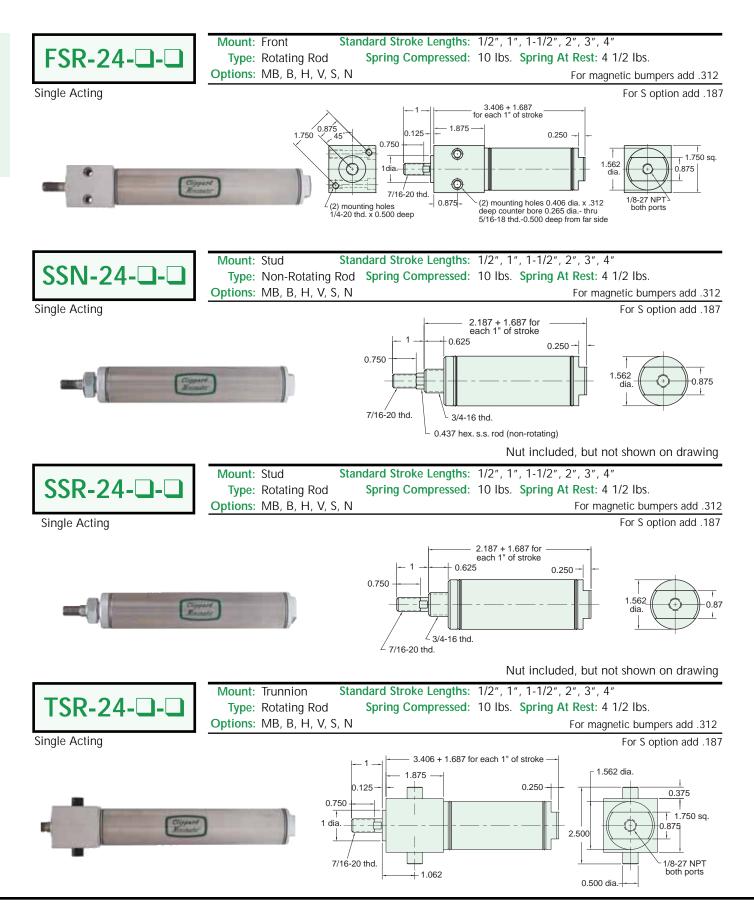
Rod End Material: steel, bright zinc plated body



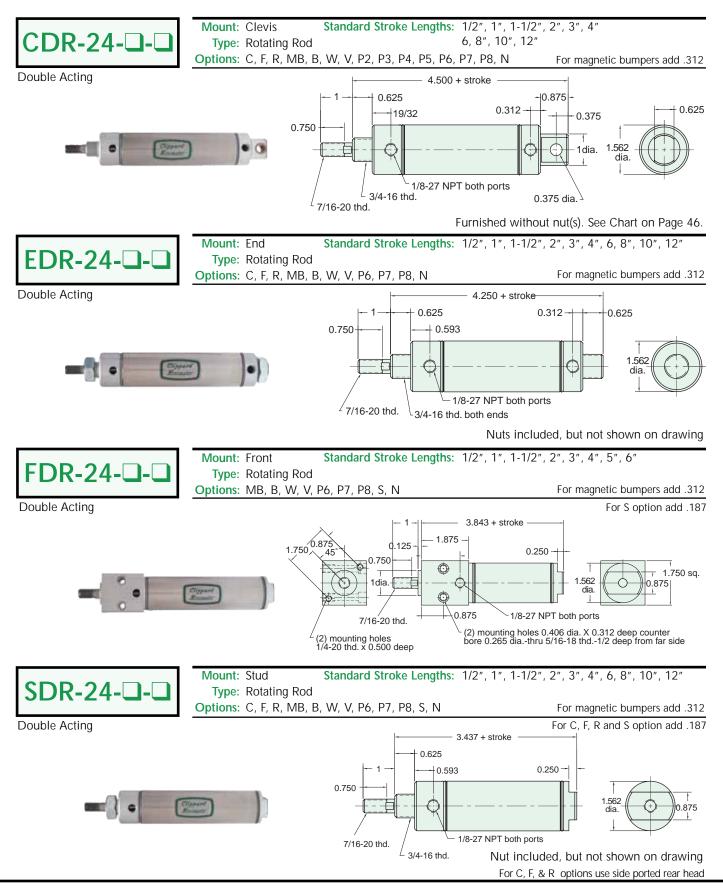




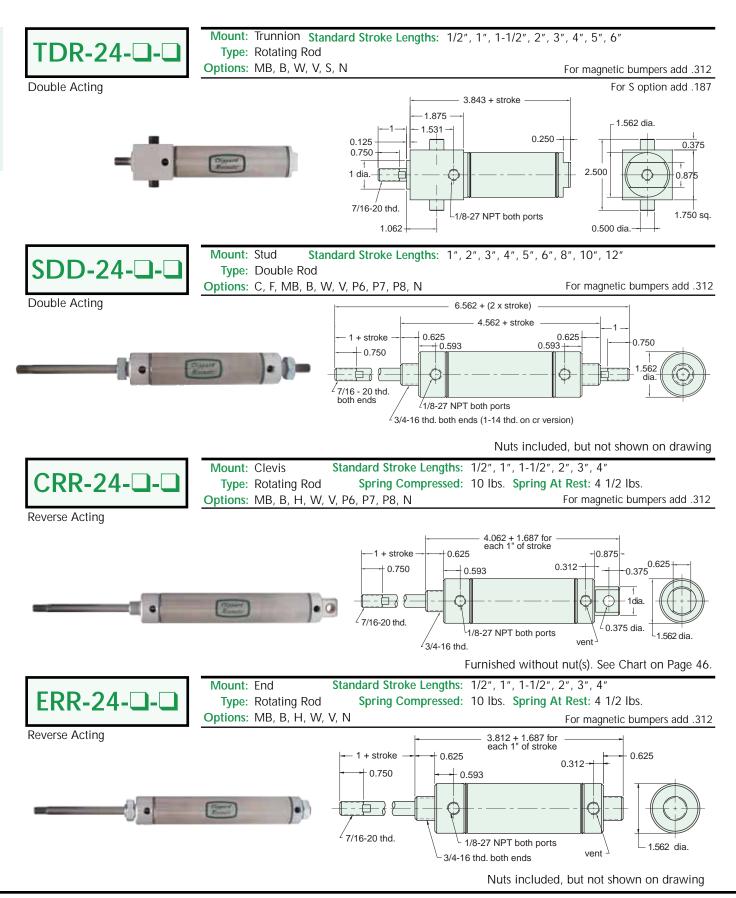




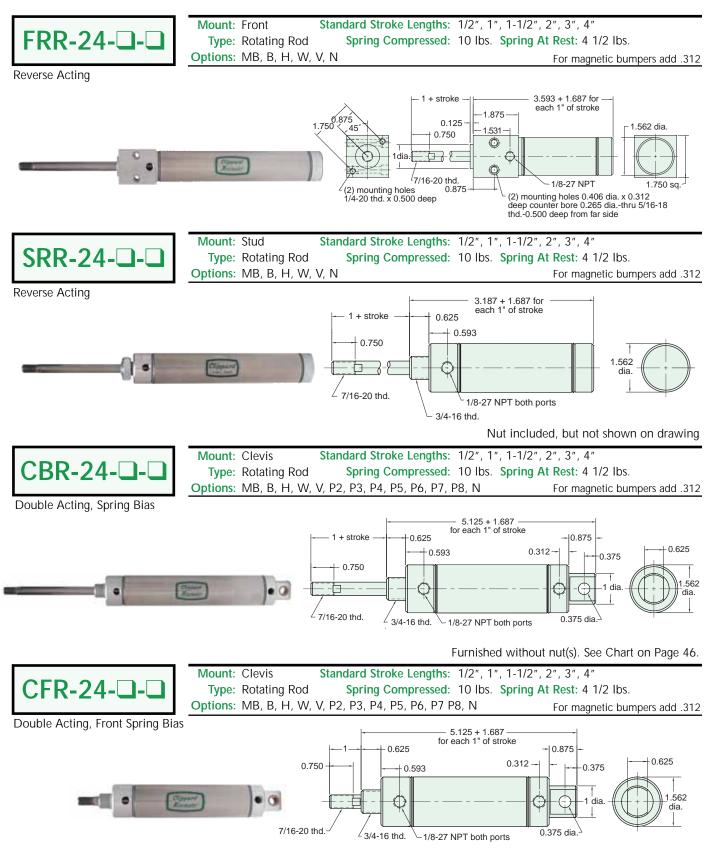






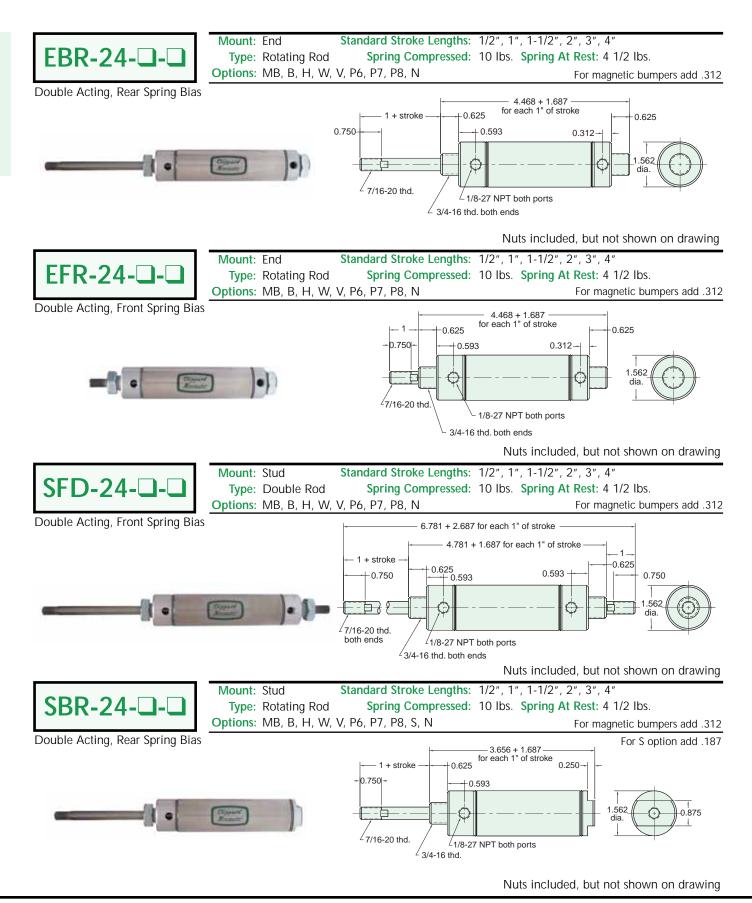




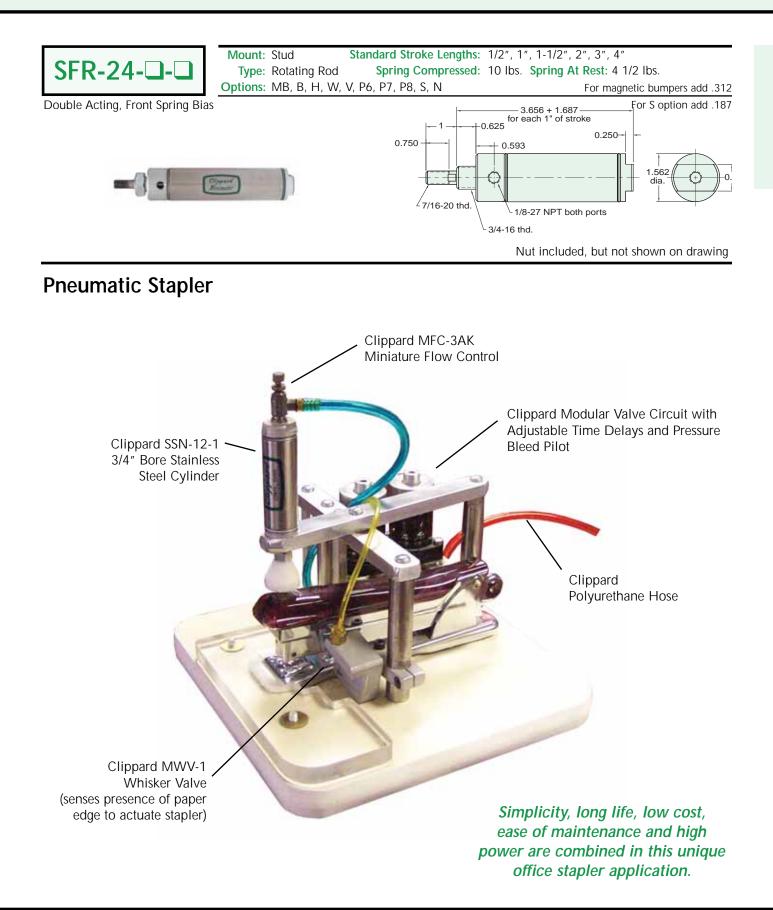


Furnished without nut(s). See Chart on Page 46.









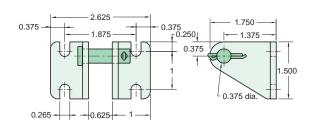


1 1/2" BORE ACCESSORIES





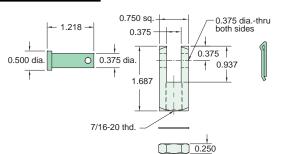
Clevis Bracket Material: steel, bright zinc plated



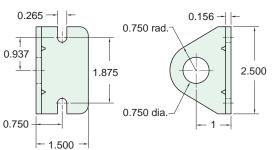


FB-249

Rod Clevis Material: steel, bright zinc plated



Foot Bracket Material: steel, bright zinc plated



MOUNTING NUTS

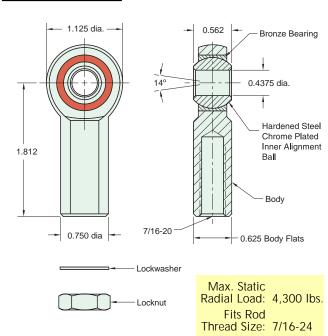
Stud Nut			
Part Number	Across Flats	Nut Thickness	Nut (Thread)
N12-16	1 3/32″	27/64″	3/4-16

Rod Nut

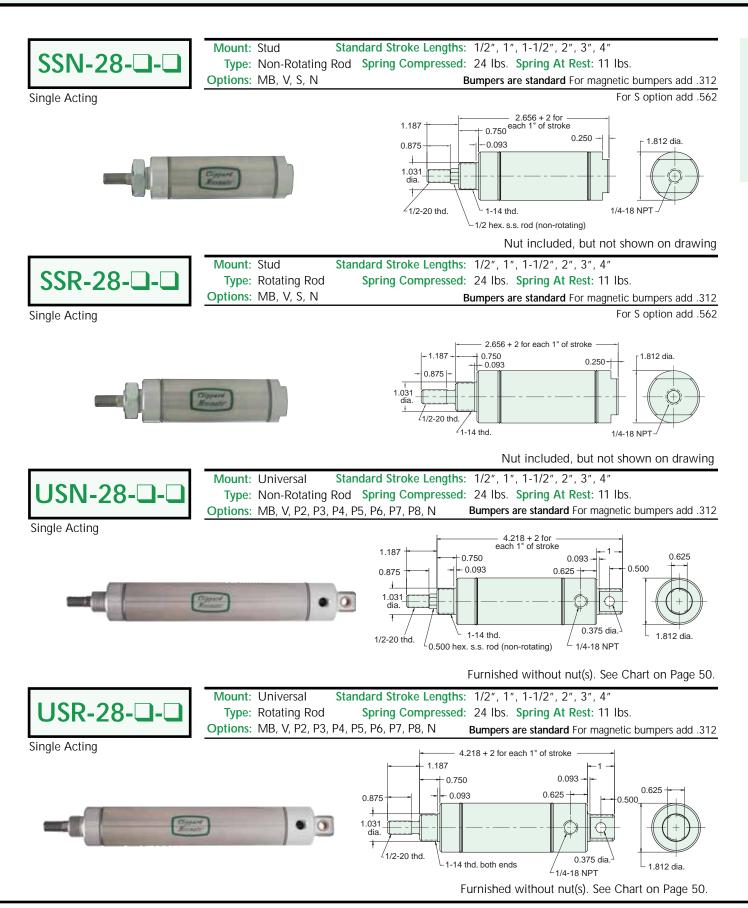
Part	Across	Nut	Nut
Number	Flats	Thickness	(Thread)
N07-20	11/16″	1/4″	7/16-20

RE-2485

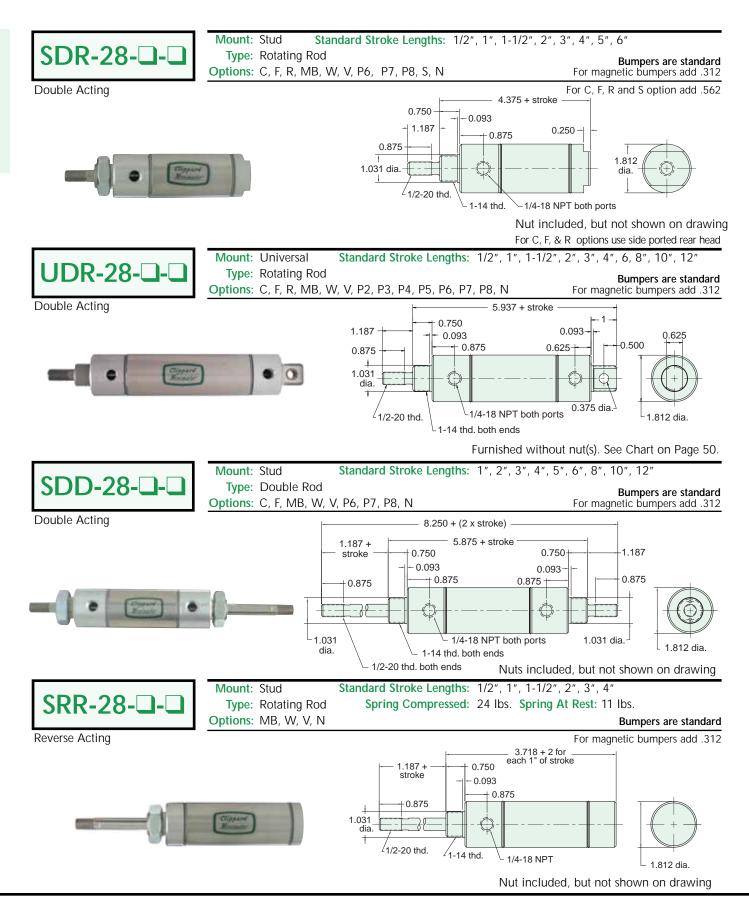
Rod End Material: steel, bright zinc plated body



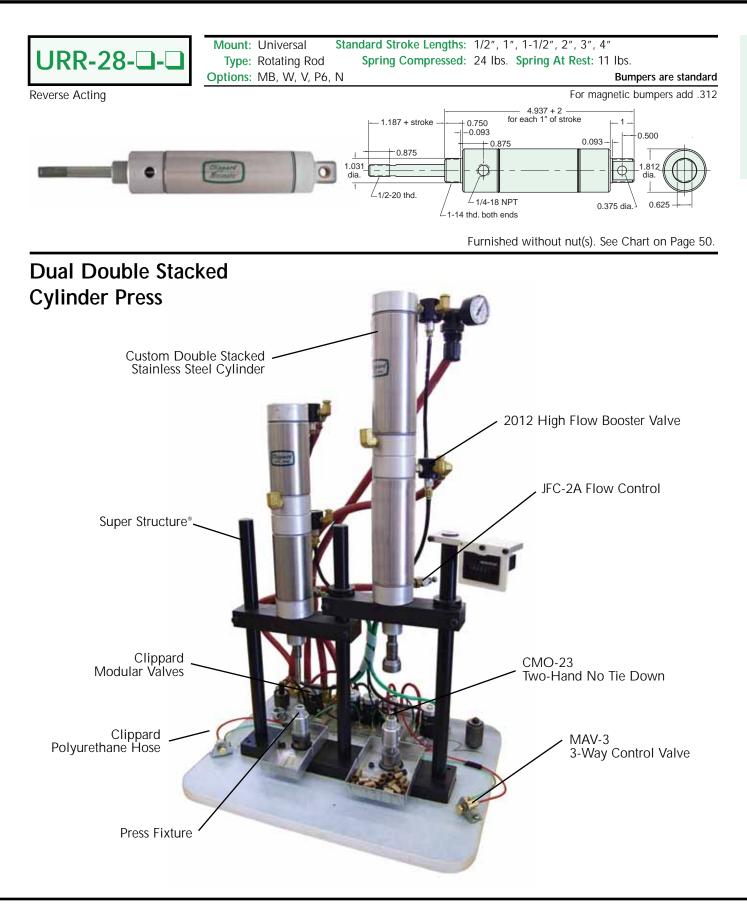












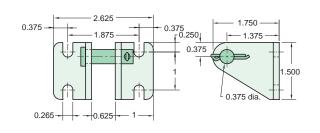


1 3/4" BORE ACCESSORIES



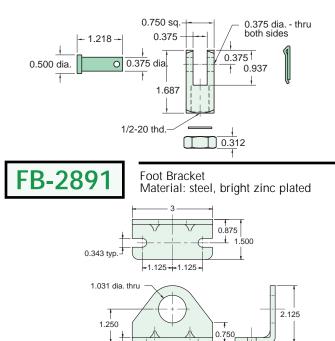


Clevis Bracket Material: steel, bright zinc plated



RC-328²

Rod Clevis Material: steel, bright zinc plated

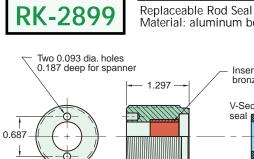


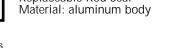
0 187 -

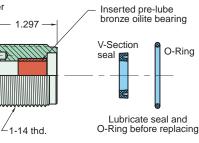
MOUNTING NUTS Stud Nut Part Nut Nut Across Number Flats Thickness (Thread) N16-14 1 1/2" 35/64" 1-14

Rod Nut

Part	Across	Nut	Nut
Number	Flats	Thickness	(Thread)
N07-20	11/16″	1/4″	7/16-20





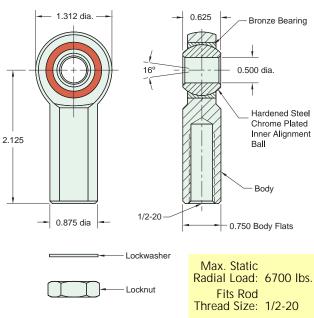




Anodized

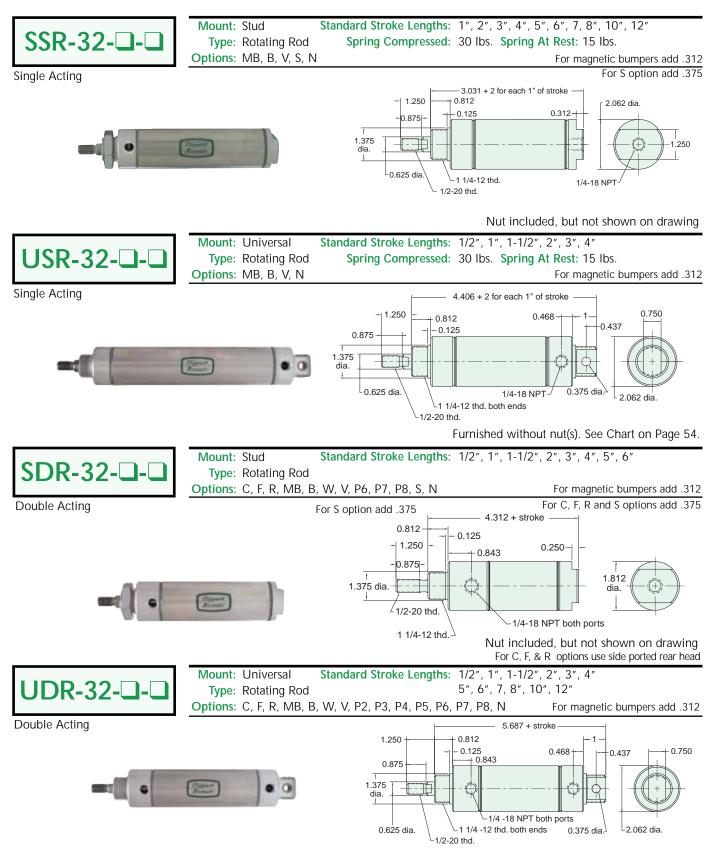
Finish

Rod End Material: steel, bright zinc plated body



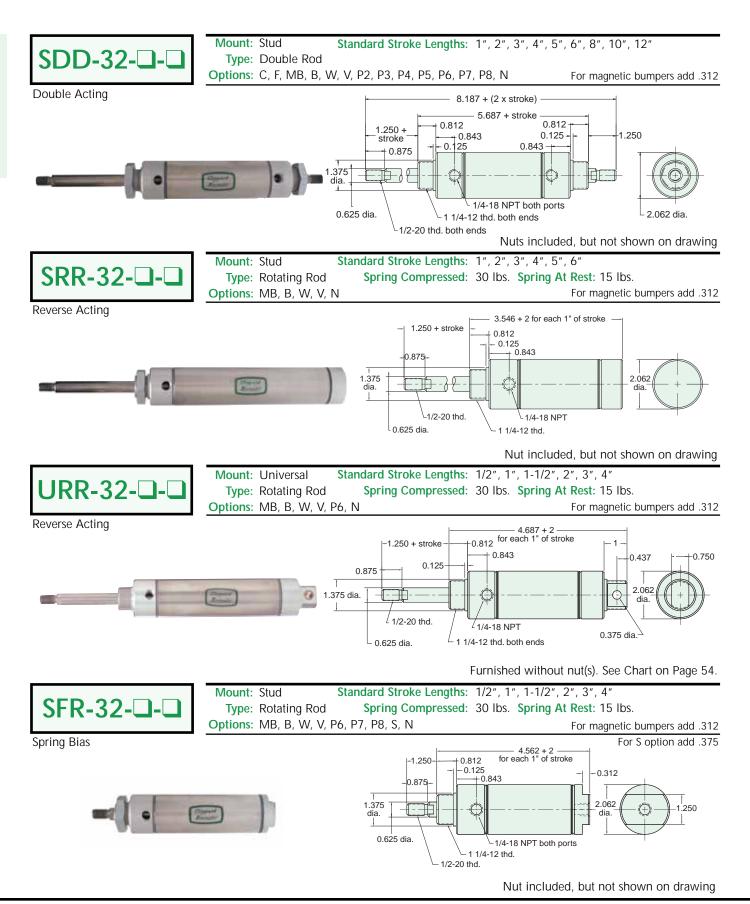
2" BORE STAINLESS STEEL CYLINDER





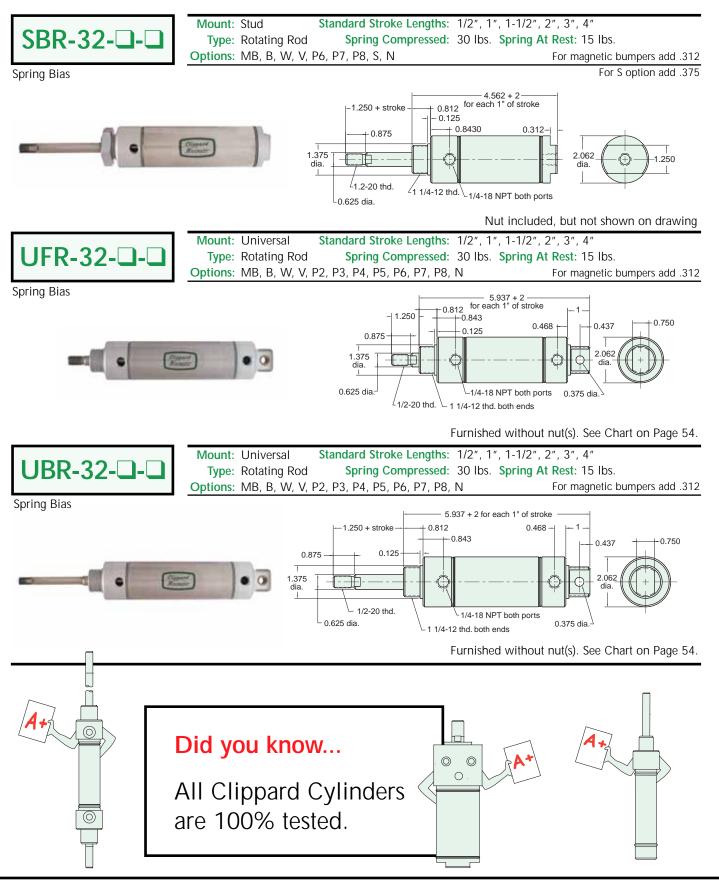
Furnished without nut(s). See Chart on Page 54.





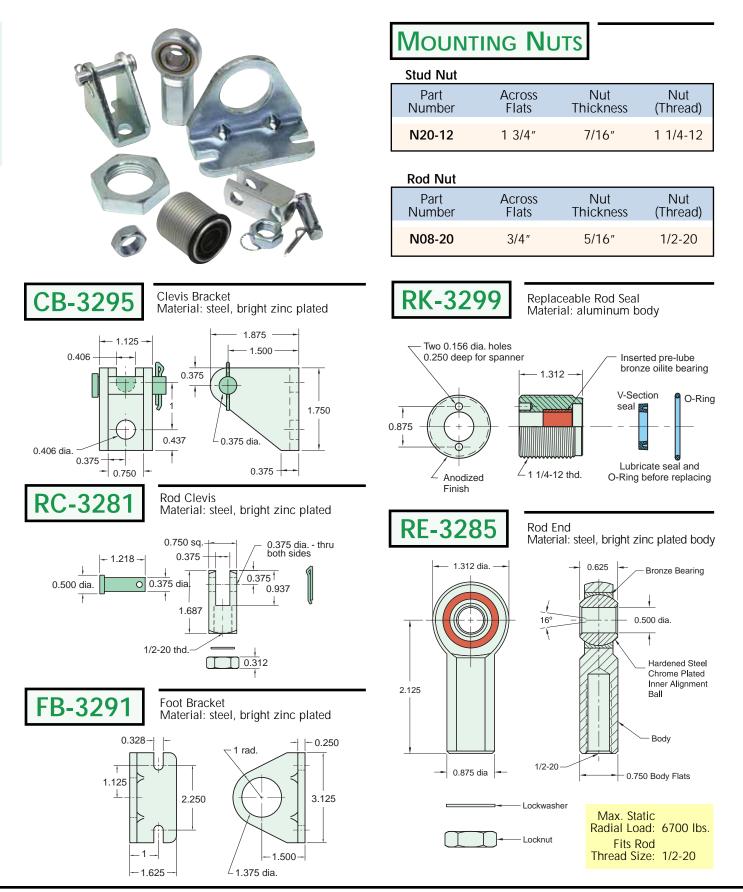
2" BORE STAINLESS STEEL CYLINDER





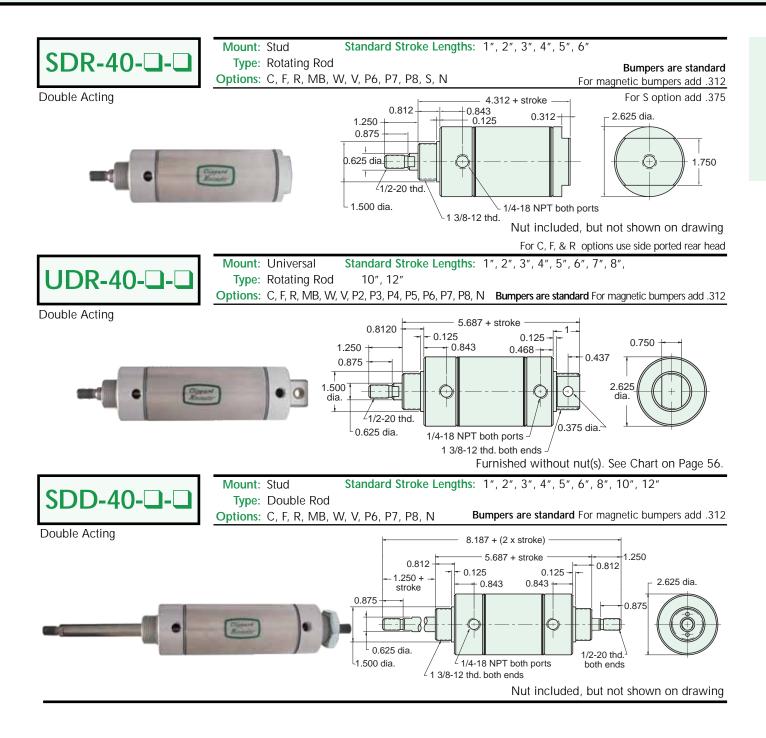


2" BORE ACCESSORIES



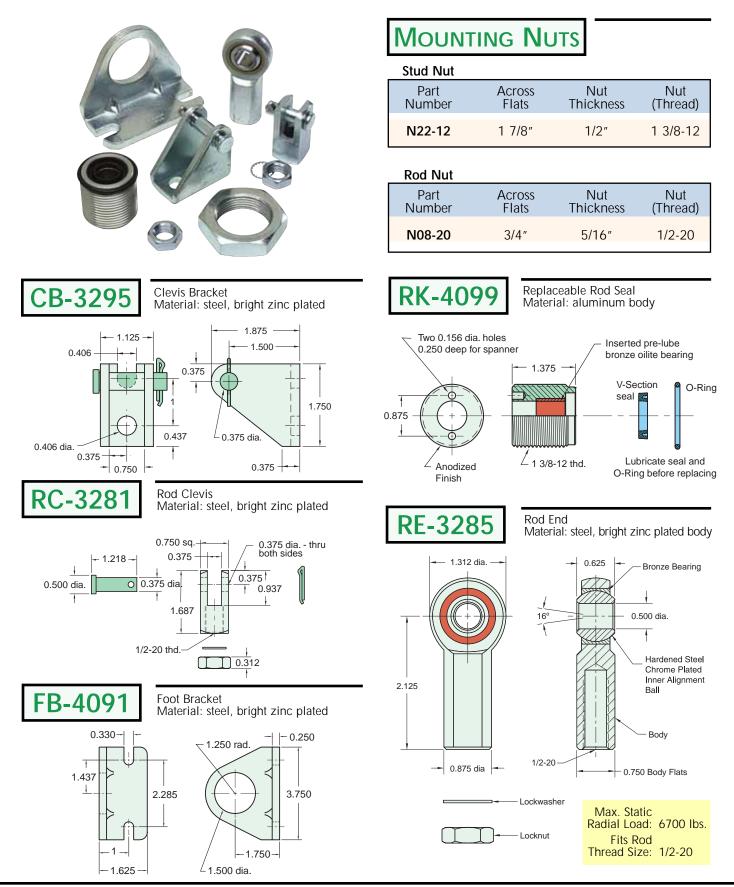
2 1/2" Bore Stainless Steel Cylinder





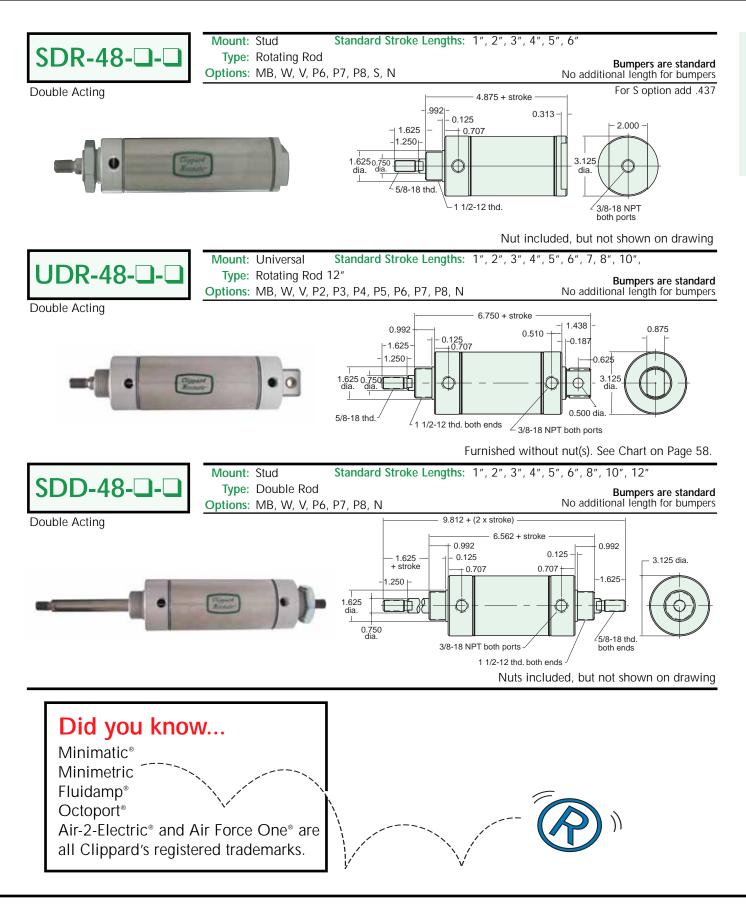


2 1/2" BORE ACCESSORIES



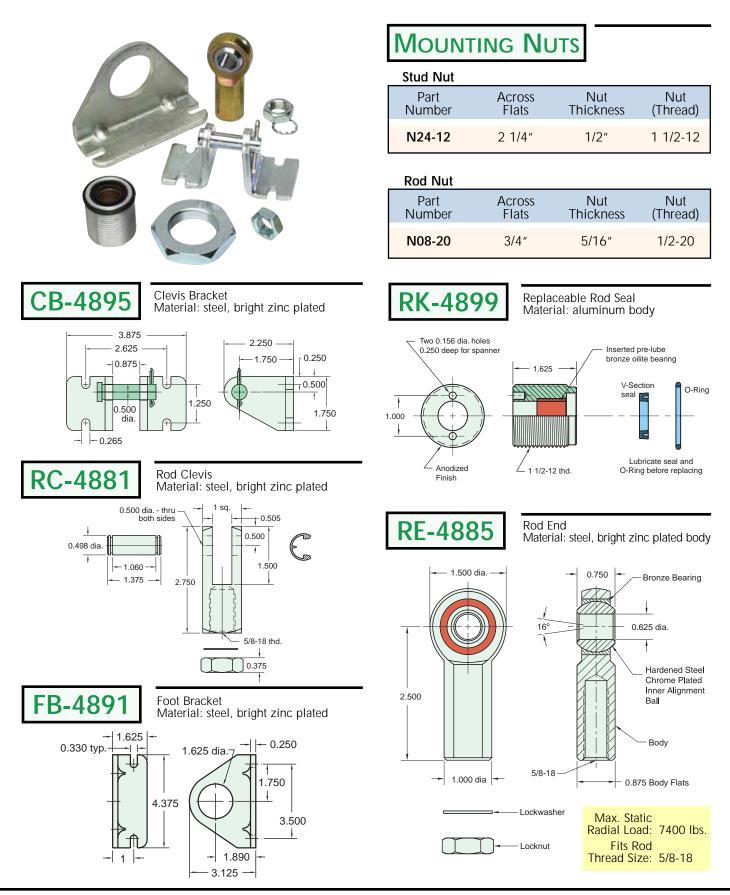
3" BORE STAINLESS STEEL CYLINDER





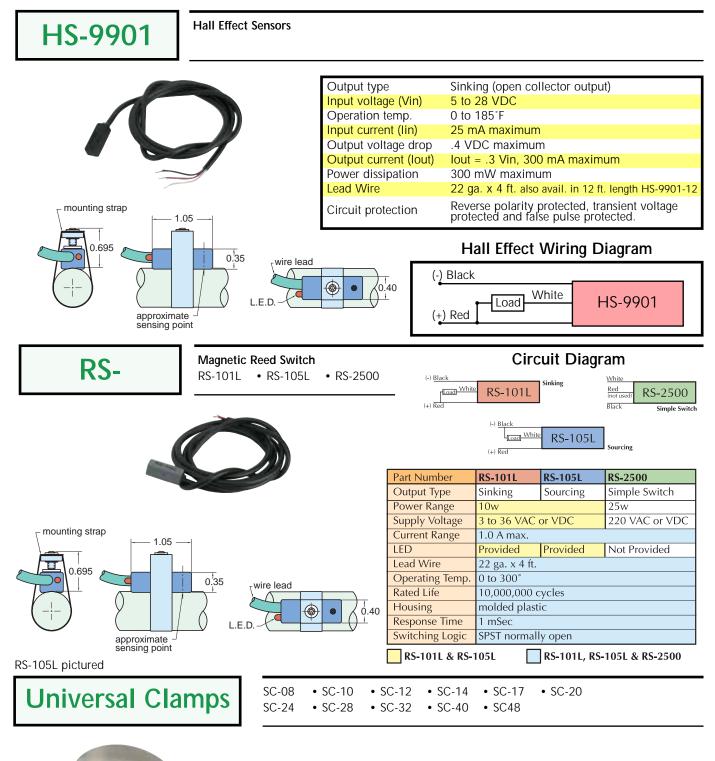


3" BORE ACCESSORIES





POSITION SENSORS



Clippard's stainless steel clamps are designed to be used with the Hall Effect and the reed switch. All clamps should be ordered based upon the size of the cylinder on which it will be mounted. The part numbers show the bore size using the numerical code. Each clamp is 0.375 wide stainless steel, and is equipped with a locking screw with #5-40 threads.



AIR VOLUME TANKS



	I	1		I
AVT-12-1	AVT-17-2	AVT-24-4	AVT-24-8	AVT-32-12
	AVT-17-3	AVT-24-6	AVT-24-10	AVT-32-14

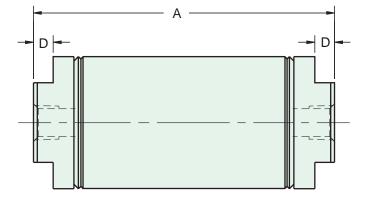
AVT-32-16

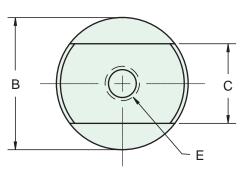
Additional models are available upon request

Clippard offers a line of air volume tanks suitable for use with Clippard air components. Using the same quality rolled construction as Clippard stainless steel cylinders, tanks are manufactured to exacting standards. Each is provided with a threaded port at both ends. See chart for volume capacity, dimensions, and port information.

For additional corrosion resistance Clippard can offer air volume tanks with Delrin[®] heads. Call for more information.







FEATURES

- Volumes from 1 to 16 cu. in.
- Ten models
- 304 stainless steel tubes
- Precision rolled construction
- Easy to connect, mount and use in your circuits
- Anodized aluminum heads
- Maximum pressure 250 psig

Part Number	Volume Cubic In.	А	В	С	D	E
AVT-12-1	1.0	3.281	0.812	0.625	0.156	1/8 27
AVT-17-2	2.0	3.593	1.125	0.875	0.187	1/8 27
AVT-17-3	3.0	4.718	1.125	0.875	0.187	1/8 27
AVT-24-4	4.0	3.687	1.562	0.875	0.250	1/8 27
AVT-24-6	6.0	4.843	1.562	0.875	0.250	1/8 27
AVT-24-8	8.0	5.968	1.562	0.875	0.250	1/8 27
AVT-24-10	10.0	7.093	1.562	0.875	0.250	1/8 27
AVT-32-12	12.0	5.718	2.062	1.250	0.312	1/4 18
AVT-32-14	14.0	6.343	2.062	1.250	0.312	1/4 18
AVT-32-16	16.0	6.968	2.062	1.250	0.312	1/4 18