

LOW COST ALUMINUM SQUAREHEAD CYLINDERS & AIR OIL TANKS 250 PSI AIR

Series I - 11/4" to 5" Bore Series M - 6" & 8" Bore Series A - Air Oil Tanks 13/4" to 8" Bore

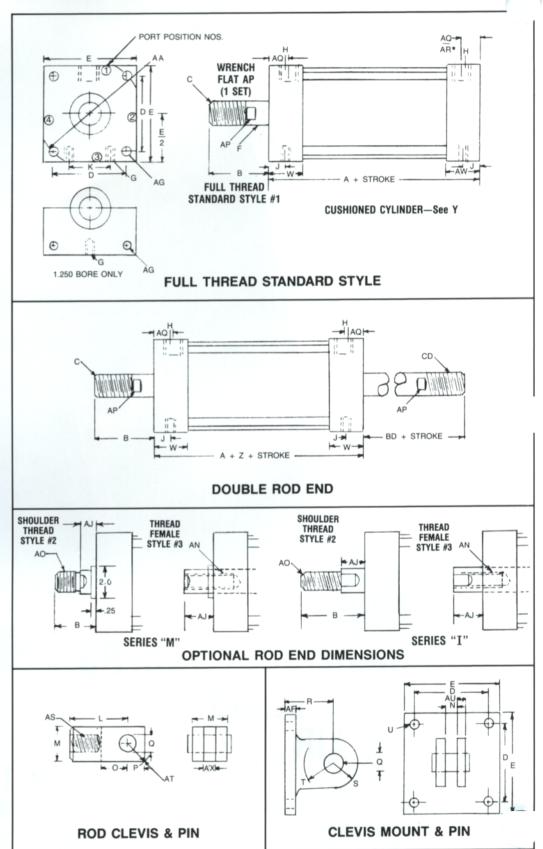
SERIES "I" & "M" INTERCHANGEABLE CY

Features

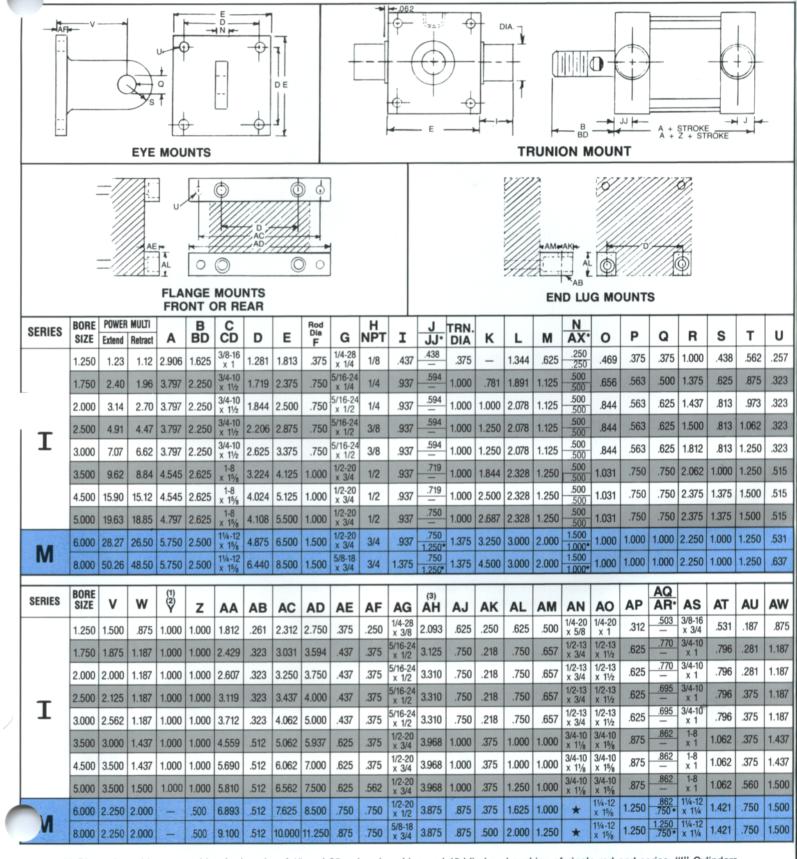
- Interchangeability
- Pre-lubricated for nonlubricated service
- Low friction teflon piston bearing
- All bronze extended-life rod bearing
- High strength chromeplated steel piston rod
- Square machined aluminum heads
- Light weight aluminum tubing precision machined to length
- Tubing I.D. hard-coated for corrision resistance and extended seal life
- Flush mounting holes front, rear & bottom
- BUNA-N piston and rod
 seals
- Rubberized tube seal gaskets
- 100% field repairable
- High strength coated steel tie rods

Options

- Stroke lengths to specifications
- Viton seals
- · Cushions and bumpers
- Adjustable cushions
- Special rod threads, ports and mounting holes
- Non rotating
- Magnetic pistons and reed switches
- Spring returns
- · Stainless steel piston rods
- · Several mounts available
- · Engineered specials



LINDERS

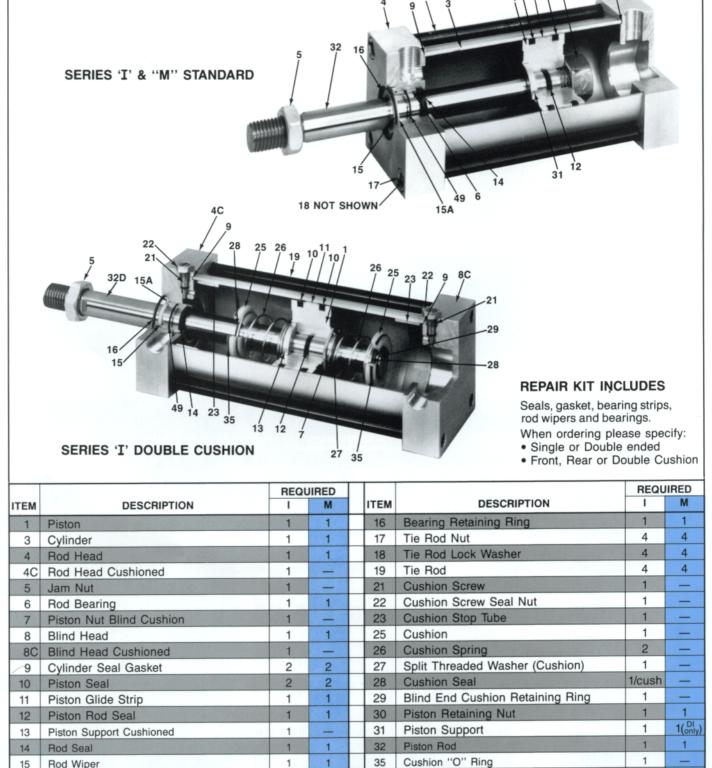


⁽¹⁾ Dimension adder per cushion for lengths of 1" and 2" rod end cushion and 1" blind end cushion of single rod end series. "I" Cylinders. Consult factory for longer cushions.

⁽²⁾ C and CD should be used to differentiate ends of a double rod end unit. Cushion located at CD end requires no adder.

⁽³⁾ AH distance is minimum distance from cylinder face to centerline of rod clevis pin.

SERIES "I" & "M" PARTS LIST



49

Piston Rod Wiper Retaining Washer

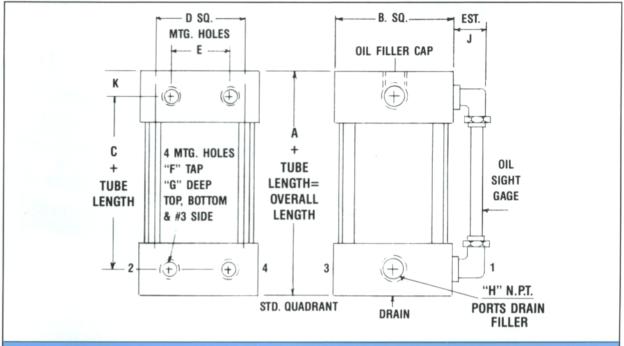
15A

External Bearing Seal

1

SERIES "A" OIL TANKS 250 PSI MAX

PROVIDES SMOOTHER OPERATION ON CRITICAL FEED APPLICATIONS



Features:

- · Lightweight aluminum head and tube
- Durable construction
- · Steel tie rods for strength

- · Special design 360 baffels
- · Shatter resistent sight glass
- · Quick fill and drain ports
- Flush plugged

MODEL	TANK BORE	PISTON AREA										
			Α	В	С	D	E	F	G	NPT/H	J	К
A-175	1.750	2.40	2.375	2.375	1.187	1.719	.781	5/16-24	.250	.250	1.125	.594
A-200	2.000	3.14	2.375	2.500	1.187	1.844	1.000	5/16-24	.500	.250	1.125	.594
A-250	2.500	4.91	2.375	2.875	1.187	2.206	1.250	5/16-24	.500	.375	1.125	.594
A-300	3.000	7.07	2.375	3.375	1.187	2.625	1.250	5/16-24	.500	.375	1.125	.594
A-350	3.500	9.62	2.875	4.125	1.437	3.224	1.844	3/8-24	.750	.500	1.125	.719
A-450	4.500	15.90	2.875	5.125	1.437	4.024	2.500	1/2-20	.750	.500	1.125	.719
A-500	5.000	19.63	3.000	5.500	1.500	4.108	,2.687	1/2-20	.750	.500	1.125	.750
A-600	6.000	28.27	3.000	6.500	1.500	4.875	3.250	1/2-20	.750	.750	1.125	.750
A-800	8.000	50.26	3.000	8.500	1.500	6.440	4.500	5/8-18	.750	.750	1.125	.750

HOW TO SELECT A SPRINGVILLE AIR OIL TANK

- 1. Determine the volume, in cubic inches, of oil required by the work cylinder
 - A. This may be accomplished by multiplying the piston area of the work cylinder by the length of stroke of the work cylinder.
 - *Piston area may be found in the above chart.

2. To select the correct tank

- A. Calculate the correct tank tube length by multiplying the piston area X a tube length that will give you volune ½ greater than the work cylinder stroke volume.
- B. Add 4" to this tube length to allow for the internal baffles and head space.

Note:

- 1. A smaller tank diameter with a longer tube length is usually the most economical.
- 2. In rapid cycle operations choose a tank that will have the least oil level variation. (The larger the bore, the less variation.)
- 3. Maximum oil level above the bottom baffel and/or below the top baffel should be 1".
- 4. Mount air-oil tank vertically at the highest point in the system. This allows self bleeding action of the tank.

ORDERING INFORMATION

Please be specific when ordering. The following Springville abbreviations will assist you in ordering.

PREFIX DESIGNATION

I - single rod end 11/4" through 5" bore

DI - double rod end 11/4" through 5" bore

DM - double rod end 6" and 8" bore

- single rod end 6" and 8" bore cylinders

- air oil tanks 1¾" through 8" bore

SUFFIX DESIGNATION

С - cushioned both ends

CB - cushioned blind end (rear)

CR - cushioned rod end (front)

CM&P - clevis mount and pin with bolts

(rear clevis)

RC&P - rod clevis and pin

EM - eve mount FF - front flange

EXAMPLE

Standard unit, single rod end

Series I Series 13/4"bore 175

Bore

4" stroke LStroke

Standard unit double end

Series DI 21/2" bore 3" stroke clevis mount

DI 250 X Bore Series

3 CM & P L Clevis Mount & Pin

WARRANTY: Please see our industry-leading THREE YEAR LIMITED WARRANTY document.

RETURNED GOODS: All returns must be authorized by Springville Mfg. Co., Inc. Returns must be shipped prepaid, and are subject to a restocking charge. Approval will only be given for unused goods which are stock items.

PRODUCT ENHANCEMENTS: Our continuing product improvement effort may require changes in specifications without notice. This does not affect our interchangeability feature.

PRODUCT LISTING:

SERIES "I" 250 PSI Aluminum Square Head Cylinders 11/4" through 5" bore

SERIES "M" 250 PSI Aluminum Square Head Cylinders 6" and 8" bore SERIES "A" 250 PSI Aluminum Square Head Air Oil Tank 1¾" through 8 250 PSI Aluminum Square Head Air Oil Tank 13/4" through 8" bore

SERIES "C" 150 PSI Round Aluminum Short Stroke Cylinders 1/2" through 4" bore

SERIES "SB" 150 PSI Round Aluminum Cylinders 11/8" through 4" bore

CUSTOM SERVICE: Springville Mfg. Co., Inc. is a full-line, precision machine shop with engineering and production capabilities for special designs and requirements. Contact us for assistance with your custom manufacturing needs.

FAX: Our Fax service (716) 592-9834 receives your communications 24 hours a day. You will be provided with timely service from our office during regular business hours.

DISTRIBUTED BY



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CAT. NO. I-703