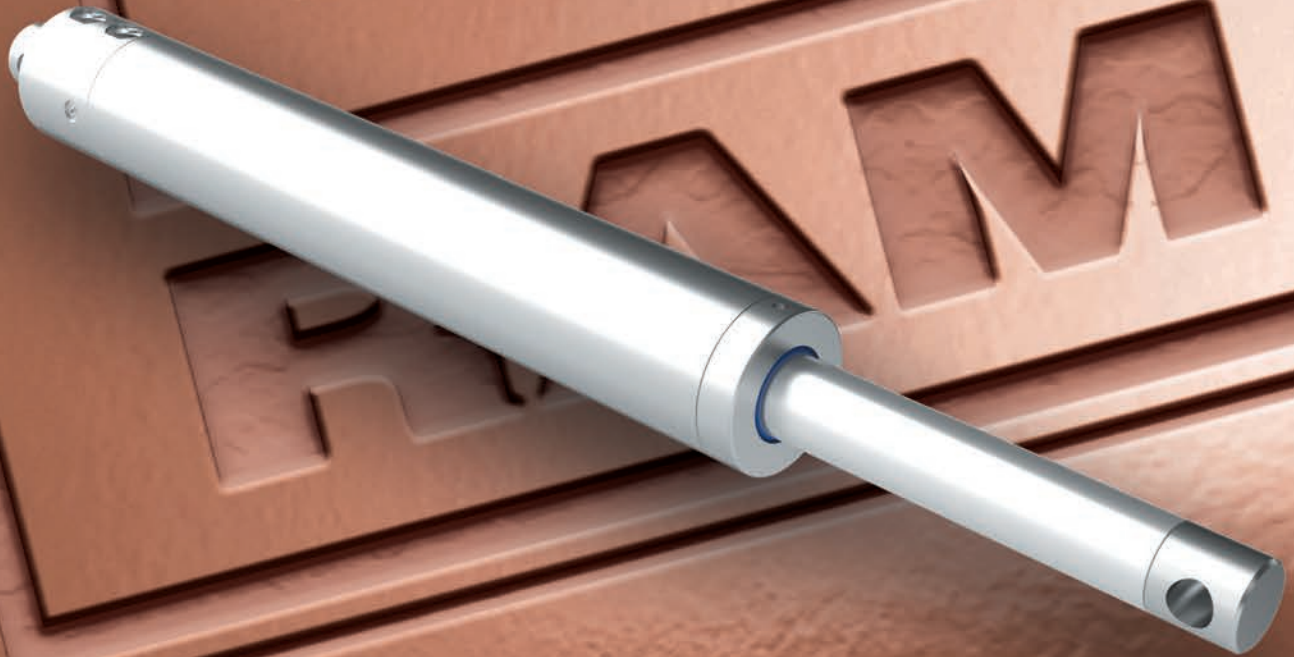




ALUMINUM CYLINDERS



OEM HYDRAULIC CYLINDER SPECIALISTS



ALUMINUM CYLINDERS

RAM Aluminum Cylinders are durable and lightweight double-acting hydraulic cylinders. Specifically designed for applications where weight and space savings are critical, they are a reliable alternative to steel hydraulic cylinders. The Aluminum cylinders are available in 2 1/2 inch and 3 inch bore sizes, with strokes up to 200 inches and pressure ratings up to 1800 PSI. They are corrosion-resistant and designed to industry-standard dimensions for maximum interchangeability.

These cylinders are well suited for industries that require robust cylinders that are lighter in weight. Manufacturing often utilizes aluminum cylinders in automation applications due to their high performance with frequent cycles. Aluminum cylinders are common in the transportation industry as they provide weight savings and perform reliably on various trailer applications. Another unique application for aluminum cylinders is on RV slides and levelling.

The cylinder design includes features that are unique and provide maximum functionality and performance, including:

- High-quality aluminum body and internal parts are lightweight and do not rust.
- Hollow high strength chrome-plated steel rod provides weight savings and allows for an internal feed tube.
- Base fed ports with integrated oil lines save space and reduces the need for exposed hoses.
- Thread-locker used for all critical connections ensures dependability and ease of serviceability.
- Extrusion resistance is provided by high-quality urethane piston, rod, and wiper seals.
- High strength nylon wear bands help maximize performance and prevent premature system wear.

Optional features on RAM's Aluminum cylinder design include:

- Pilot Operated Check valve to lock the cylinder by preventing any oil flow, providing additional safety in the event of a line failure. Incorporating these valves is a unique feature of RAM's Aluminum cylinder design.
- In-line or 90 degree mounting provides flexibility and ensures optimal fit for any application.
- Alternative shaft finishes such as nitrided or induction hardened provide additional corrosion protection and extended shaft life in harsh environments.



BUILT TO YOUR SPECIFICATIONS

Rated Pressure: Up to 1800 PSI
Rod Size: 1.500"
Rod Material: High tensile SAE C1026/St52.3 cold drawn hard chrome plated tube ground and polished
Barrel Size: 2.500" or 3.000"
Barrel Material: Extruded aluminum tubing 6061-T6
Gland Material: 6061-T6 aluminum
Piston Material: 6061-T6 aluminum

End Mounts: Drilled rod and base for 3/4" pin.
 Available in-line or 90 degrees to ports
Valves: Integrated PO check valve (optional)
Ports: SAE-6
Port Plugs: High quality steel
Internal Seals: North American
Paint Finish: Bare (2 part urethane optional)
Testing: 100% full cycle tested



Bore (inches)	A	B	C	D	E	F	G	H	Rod Diameter (inches)	Ports
2.50	3.00	1.50	0.75	1.25	1.25	0.75	0.765	1.44	1.50	SAE-6
3.00	3.50	1.50	0.75	1.25	1.25	0.75	0.765	1.44	1.50	SAE-6

Measurements for A, B, C, D, E, F, G, H are in inches.



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