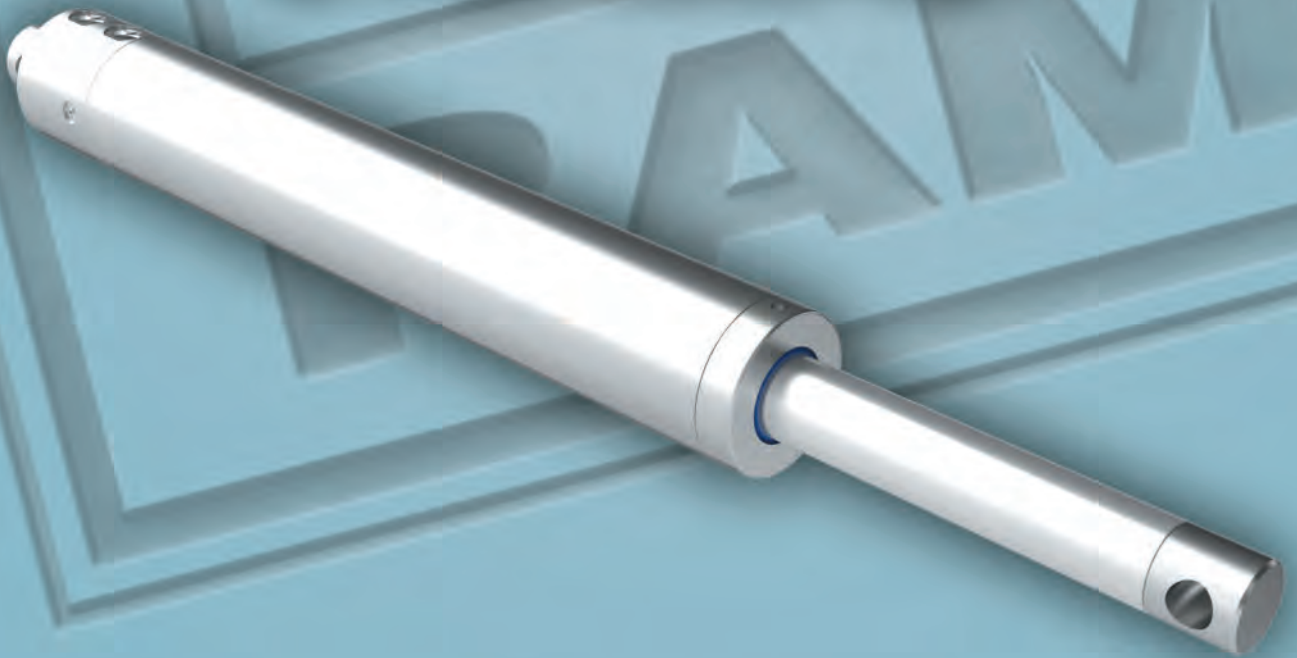




LIGHTWEIGHT ALUMINUM CYLINDERS



OEM HYDRAULIC CYLINDER SPECIALISTS



LIGHTWEIGHT ALUMINUM

RAM Lightweight 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. Aluminum cylinders are available in 2 ½ inch and 3 inch bore sizes, with stroke lengths up to 200 inches and pressure ratings up to 1800 PSI. These RAM hydraulic cylinders are designed to industry-standard dimensions. This standardization allows for easy exchange with existing cylinders on your equipment.

RAM aluminum cylinders are well suited for industries that require robust cylinders that are corrosion-resistant and 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 common use for lightweight cylinders is for recreational vehicle slides and their levelling systems.

The cylinder design includes features that maximize functionality and performance, including:

- High-quality aluminum body and internal parts are lightweight that resist 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.
- High-quality urethane piston, rod, and wiper seals provides extrusion resistance.
- High strength nylon wear bands help maximize performance and prevent premature system wear.

Optional unique features on RAM's Lightweight Aluminum cylinder design include:

- A pilot operated check valve locks the cylinder by preventing any oil flow. This unique feature offers additional safety in the event of a line failure.
- In-line or 90 degree mounting provides flexibility and ensures optimal cylinder 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: 1.50"

Rod Material: High tensile SAE C1026/St52.3 cold drawn hard chrome plated tube ground and polished

Barrel Size: 2.50" or 3.00"

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)

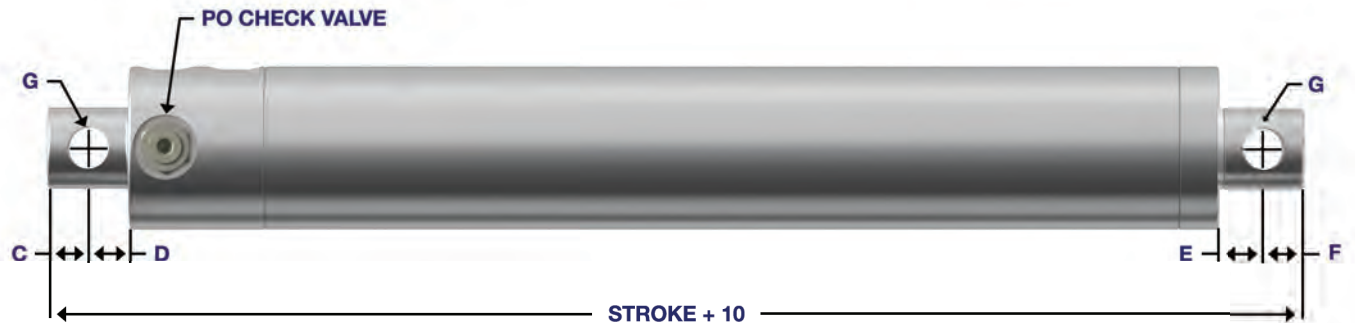
Ports: SAE-6

Port Plugs: High quality steel

Internal Seals: North American

Paint Finish: Bare (2 part urethane optional)

Testing: 100% full cycle tested



Bore Size (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.

All specifications are subject to change without notice.



RAM INDUSTRIES INC.

PO Box 5007 33 York Rd E Yorkton, SK S3N 3Z4 Canada

T: 1-877-799-1005

www.ramindustries.com • sales@ramindustries.com

www.linkedin.com/company/ram-industries-inc



www.ramindustries.com

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