



AIR CYLINDERS				HYDRAULIC CYLINDERS		
NFPA STEEL HEAVY DUTY	NFPA ALUMINUM MED DUTY	METRIC STEEL HEAVY DUTY	METRIC ALUMINUM MED DUTY	NFPA HIGH PRESSURE	NFPA LOW PRESSURE	METRIC HIGH PRESSURE

DIMENSIONAL CHARTS	PRODUCT INFO SHEETS	CYLINDER ACCESSORIES	CYLINDER REPAIR DIVISION	FORD & DAIMLER CHRYSLER STANDARD CYLINDERS	AIR POWERED CLAMPS	PNEUMATIC THRUSTERS (SLIDES & DIE LIFTERS)	SPECIAL CYLINDERS	ABOUT US
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- Request Catalog on Disk
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**When the pressure is on,
You can count on Peninsular!**

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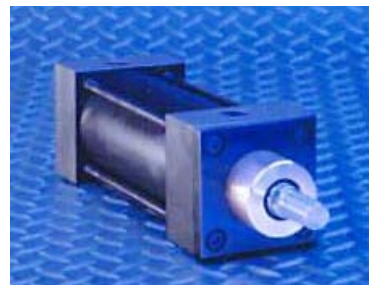
AIR CYLINDERS
Click links below to view pages in this section

- NFPA Steel Heavy Duty
- NFPA Aluminum Medium Duty
- Metric Steel Heavy Duty
- Metric Aluminum Medium Duty

- Cylinder Warranties**
- Hydraulic Cylinders
 - Pneumatic Cylinders
 - Custom Cylinders

Air Cylinders

Metric Steel Heavy Duty Air Cylinder-Model IMH



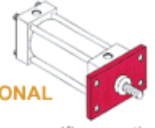
High Quality Heavy Duty Long Lasting Steel Metric Air Cylinders

Conforms To:
VDMA 24-562 Specifications
NAAMS Metric Cylinder Specifications
DIN-ISO 6431 Specifications

Click to enlarge

- Features and Advantages
- View Dimensional Charts

Accessories and Repair Services are available. Call us Today.



DIMENSIONAL CHARTS
Looking for a specific mounting type? Click Here.

- 17 Bar (250 PSI) Rated
- Bolt on Cylinder mounts
- Prelubricated for life, eliminates in-line lubricators
- Designed To Survive In Destructive Applications
- Repairable Air Cylinder with a removable internally lubricated Rod Cartridge
- 32 mm to 320 mm Bore Sizes
- All Standard Metric mounting styles, piston rod diameters and thread sizes available
- All cylinder special options and features available
- IMH Cylinders may also be custom designed to suit specific customer applications.
- Improved adjustable cushion design
- Longer lasting improved nitrile seals

Ordering Information

HOW TO ORDER MODEL IMH:
For your convenience, please refer to the 'How to Order Brochure'. Just follow steps A thru J in the example creating your Cylinder Callout No.

- We would like to give you two easy ways to view our 'How to Order Brochure'.
- Quick View--(How To Order will be viewed in a side-by-side format.)
 - Printable Version--(How To Order will be viewed in a single page format.)
 - Click here to place order or request quote

Features	Advantage	Benefit
1. Heads and Caps	Square, precision-machined steel. Assures concentricity of tube, bearing, cushion and piston rod.	Can be made proximity switch ready to accept same probe-length switches at each end without spacers.
2. Cylinder Tube	D.O.M. seamless 1020 to 1026 steel; precision honed to 12/15 micro inch finish; hard chrome plated .0003/.0005" thick on ID.	Resists wear, corrosion and dents; reduces wear on piston seals.
3. Wear Band	Delrin™ material.	Creates low friction, long lasting wear surface which prevents

**Shortcut to:
Peninsular's
Cylinder
Configurator**

**Fast
Simplified
Cylinder
Ordering !**

**Important
Configurator
Information !**

Our model IMH cylinder configurator will provide our customers with significant cost savings because it eliminates the complexities and reduces the time associated with the engineering and ordering process.

Contact Us Today
Peninsular Cylinder Co.
27650 Groesbeck Hwy.
Roseville, MI 48066

▶ Toll Free: 800-526-7968 ▶ Phone: 586-775-7211
▶ Fax: 586-775-4545

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Cylinder
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**OVER 50 YEARS
EXPERIENCE**

**ISO 9001:2000
REGISTERED**

		scoring of cylinder tube inner wall.
4. Lubrication Reservoirs	Located underneath wear band inside piston and also inside the bearing cartridge.	Provides effective way of metering maximum amount of lubricant to all areas over long time period. Not subject to air turbulence and contamination.
5. Lubricant (not shown)	Teflon™ based grease.	Long lasting lubrication of piston seals, inner cylinder wall surface and rod bearing cartridge seals and ID.
6. Piston	Piston One-piece steel, black oxidized with uniform cushion hubs on both sides, threaded onto piston rod, staked and secured with Loc-Tite™.	Prevents rusting and air leakage; anchored onto piston rod with minimum undercut providing maximum strength. Additional pinning onto rod optional.
7. Tube Seals	Buna-N Nitrile axial placed O-Rings.	When combined with accurately torqued tie rods, prevents extrusion of seal and air leaks under pressure.
8. Cushion Adjustment Screw	Steel needle valve with Buna-N O-ring sealed screw, held captive with locking snap ring.	Accurate fine adjustment of cushioning speed; no air leakage and safe for all users due to internal captive screw.
9. Rod Seal	80 durometer, rounded lip, pre-lubricated, carboxylated nitrile cup style. Smears grease through ID of rod cartridge extending seal life within.	Resists abrasion; significantly increases life and prevents leakage around piston rod.
10. Rod Wiper	80 durometer, sharp double lip, pre-lubricated, carboxylated nitrile seal.	Provides additional sealing benefit beyond the rod seal. Inside edge always lubricated extends life significantly, prevents dirt and grit from entering bearing and cylinder.
11. Piston Rod	High yield strength steel, case hardened OD to 50-55 RC. Core hardness to 28-34 RC. Hard chrome plated .0003/.0005" thick and polished to 12/15 micro inch finish. Rolled threads.	Resists wear. All Metric rod and thread sizes, including female and studded male ends available, plus metric threads. Provides positive connections to existing machine components.
12. Bearing Cartridge	Floating, self-aligning in either ductile iron or SAE 660 bronze with internal lubrication reservoir. Special "Slip Tuff" coated cartridge is also available for heavy side loaded applications. Retained by plate with cap screws; strong and shock resistant. A Buna-N O-ring located around the cartridge OD prevents leakage.	Float condition minimizes piston rod misalignment by reducing side loading. ID of bearing cartridge, rod seal and rod wiper lubricated on each stroke, reducing wear. Easily removed for maintenance without special tools to disassemble cylinder. Optional "Slip Tuff" bearing provides lubricitic wear surface with hardness characteristics that significantly reduce galling and bearing cartridge failure under severe side loaded operating conditions.
13. Tie Rods	Made from 100,000 psi minimum yield, stress-proof, medium carbon steel with rolled threads at each end.	Provides maximum strength for connecting cylinder mounts and used with lock nuts to prevent loosening in service. Accurate torquing prevents leaks at tube seals.
14. Cushion Hubs	Steel with 8/12 micro inch finish RMS. Black oxidized to prevent rusting and corrosion. Steel material permits the use of in-port cylinder head mounted proximity switches.	Uniform on each side of piston to eliminate different size cushion seals and reduce spare parts inventory. Smooth surface stops cushion seal wear and provides air-tight accurate operation. Ideal for proximity switch applications.
15. Piston Seals	80 durometer, rounded lip, pre-lubricated, carboxylated nitrile U cups.	Resists abrasion; when used with Peninsular's internal lubrication

system, provides considerably less wear and increases operating life.

16. Cushion Seals	90 durometer floating check type Urethane seals eliminate ball checks and related parts.	Low friction breakaway and 100% air-tight cushioning assures smooth maximum effectiveness. Metal to metal cushions are eliminated and same size seals at each end reduce parts inventory.
17. Ports	NPT, BSP (G-port), BPT or SAE O-ring ports available.	Metric and other thread size options. Universally adaptable to any hose or fitting.
18. Optional Proximity Switch Capability (not shown)	Allows for non-contact piston position sensing at near end of stroke. Precision machined cylinder heads and piston cushion hubs allow for in-port mounting of "RF inductive" proximity switches using the same switch probe length at each cylinder end without shims or spacers underneath the switch.	Self-contained switch probe not subject to contamination. This patented design creates the same air gap between the sensing probe and target (cushion hubs), thus providing consistent, reliable and repeatable stroke-to-go. Eliminates the design and construction of brackets necessary to mount mechanical limit switches. US Pat. No. 4,726,282 & D 295,753

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Field Service and Engineering Support

We understand the importance of technical assistance and the availability of products and repair parts. That's why we have a distributor network and technical representatives throughout the country. You can also reach our Customer Service Department for help.

Complete Repair Facility

Peninsular repairs all air and hydraulic cylinder makes and models. All cylinders are performance tested before shipment. Estimates are provided prior to repair activity.

Easy Order Procedure

For your convenience, please refer to the "How to Order and Specify Section". Just follow steps A thru J in the example and forward to us for price and delivery information or contact our Customer Service Department or your Authorized Peninsular Distributor.

For Near End of Stroke Position Sensing

Improved Optional Proximity Switch Capability In-Port cylinder head mounted proximity switch Design allows for the use of the same switch probe length at both ends WITHOUT SPACERS UNDERNEATH THE SWITCH. May be used as an air supply port if a switch is not required. U.S. Patent No. 4,726,282 & D295,753



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RF Inductive (In-Port Mounted) Proximity Switch Probe Length Dimensions (Both cylinder heads)										
Bore Size:	40 mm	50 mm	63 mm	80 mm	100 mm	125 mm	160 mm	200 mm	250 mm	320 mm
Probe Length:	1.025	1.025	1.025	1.025	1.250	2.062	2.062	2.875	3.775	4.562

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