

# MASTER BRAKE CYLINDERS

## BERINGER BRAKE PADS



Friction material: sintered metal. High coefficient of friction, very long life time, no fading till very high temperatures: 1100° F Includes: 2 brake pads (for 1 brake caliper), bolts and procedure

Description	Model	Part No.	Price
Pads for BERINGER standard caliper EA-006 or EA-001	ZEA01	06-01103	<b>\$82.90</b>
Pads for BERINGER caliper EA-002N(A), EA-002E(A), EA-002.2N(A) and EA-002.2E(A)	PQT-009(A)*	06-03027	<b>\$89.75</b>
Pads for BERINGER caliper EA-003N and EA-003.4N	PQT-010*	06-01991	<b>\$98.90</b>

## BERINGER REPAIR/OH KIT



Repair kits are available for the following BERINGER® parts: Hand master cylinder, Rudder pedal master cylinder, 2 and 3 piston brake caliper.

Includes all wear parts: pistons, seals, screws, grease, repair procedure.

Mineral Oil ..... P/N 06-03550 ..... **\$106.75**  
DOT4 ..... P/N 06-03551 ..... **\$92.75**

## CLEVELAND MASTER BRAKE CYLINDERS

### MODEL 10-35

This model has a built-in reservoir and is used in production aircraft. Cast aluminum construction. 5/8" bore, 1.2" stroke, 0.36 cu. in. displacement. Outlet 1/8" NPT. Pin center length 8". Designed to mount on rudder pedal. Formerly Gerdes Model A-049.

P/N 10-35 ..... **\$851.00**  
Model 10-35 O-Ring Kit ..... P/N 199-513 ..... **\$32.65**

### MODEL 10-20

Spring-loaded piston type assembly without reservoir. Simple design assures long troublefree service. Pin center length 7-1/2". Bore 9/16". Stroke 1.25". Weight: 10 oz. Used on Pitts Special, Acro-Sport and other homebuilts

P/N 10-20 ..... **\$479.00**  
Model 10-20 & 10-19 O-ring kit ..... P/N 06-10600 ..... **\$26.75**

### MODEL 10-19

Used on Pitts and other homebuilts. Similar to Model 10-20 except with ports aligned differently

P/N 10-19 ..... **\$1,183.00**  
Model 10-20 & 10-19 O-ring kit ..... P/N 06-10600 ..... **\$26.75**

### MODEL 10-5B

This Cleveland master brake cylinder has the same type construction as Model 10-20. Model 10-5B does not have a parking brake feature. 1/8" NPT ports, on opposite sides of cylinder, have AN823-4D fittings for use with 1/4" brake line. Pin center length 8". Wt. 9.5 oz. Bore 0.562". Stroke 1.25". Used on Piper PA25 and homebuilts. O-Ring kit is Cleveland part No. 199-502.

Model 10-5B O-Ring kit (199-503) ..... P/N 06-00708 ..... **\$68.75**  
Model 10-5 O-Ring kit (199-502) ..... P/N 06-10700 ..... **\$62.75**  
Model 10-22 ..... P/N 05-13316 ..... **\$995.00**  
Model 10-30 ..... P/N 05-13319 ..... **\$548.00**  
Model SSFA232-5 ..... P/N 05-13328 ..... **\$1,245.00**

### MODEL 10-54

Spring-loaded piston type assembly without reservoir. Simple design assures long troublefree service. Pin center length 7.88". Bore 5/8". Stroke 1.62". Wt. .45 oz. Ports in-line, no fittings.

P/N 06-01214 ..... **\$524.00**

## MASTER CYLINDER O-RING KIT



O-Ring Kit is for use with 5/8" bore cylinders in the 670, 671, 672, 673, and 674 Series. For use with MIL-H-5606 fluid only. O-Ring kit contains 1 ea of the following O-Rings: • Spruce PN: AN6227B-3 (MS28775-008) • Spruce PN: AN6227B-7 (MS28775-012). Spruce PN: AN6227B-9 (MS28775-111) • Spruce PN: AN6227B-10 (MS28775-112)

P/N 06-00805 ..... **\$4.85**

## CLEVELAND 199-512 MASTER CYLINDER REPAIR KIT



Elastomeric cure date required per ESP3620. This Service Kit will overhaul one 10-30, 10-30A, 10-30C, or 10-300 Master Cylinder Assembly. CM10-30 Overhaul Instructions for 10-30, 10-30A, 10-30C, & 10-300

P/N 06-01130 ..... **\$38.50**

**VISIT OUR WEBSITE FOR MASTER CYLINDER SEAL KITS**

## MATCO MC-4 MASTER CYLINDER



MC-4 EXTERNAL RESERVOIR

MATCO mfg's MCMC-4 master cylinder uses a REMOTE reservoir. The MCMC-4 can be used in individual or dual brake applications. Buna-n o-rings are used in this assembly. Mil-H-5606 aircraft hydraulic fluid or compatible fluids are recommended. DOT5 may be used but not DOT5.1 which contains glycol. DOT3 and DOT4 may not be used and will cause immediate damage to the seals. The MCMC-4 master cylinder measures 8.05 +0.25 inches from end to end and 7.5 +0.25 inches from mounting hole to mounting hole. A 0.625 inch diameter piston is used. Available stroke is approximately 1.388 inches and displacement is 0.43 cubic inches. The ports on all MATCO mfg master cylinders are 1/8 inch NPT (except the MC-4E). The MC-4 has an adjustable clevis.

**UNIVERSAL** - Vertical or horizontal mounting with exterior reservoir.  
MC-4 ..... P/N 06-11150 ..... **\$129.85**  
MC-4A (0.50" shorter than the MC-4) ..... P/N 06-11100 ..... **\$135.75**

## MATCO MC-5 MASTER CYLINDER



MC-5 VERTICAL

MATCO mfg's MCMC-5 master cylinder uses an INTERNAL reservoir. The MCMC-5 can be used in individual or dual brake applications. Buna-n o-rings are used in this assembly. Mil-H-5606 aircraft hydraulic fluid or compatible fluids are recommended. DOT5 may be used but not DOT5.1 which contains glycol. DOT3 and DOT4 may not be used and will cause immediate damage to the seals. The MCMC-5 master cylinder measures 8.25 inches from end to end and 7.7 inches from mounting hole to mounting hole. A 0.625 inch diameter piston is used. Available stroke is approximately 1.388 inches and displacement is 0.43 cubic inches. The ports on all MATCO mfg master cylinders are 1/8 inch NPT (except the MC-4E). The MC-5 has an adjustable clevis. The MC-5 can not be used in series with a second MC-5 or MC-5A

**VERTICAL STYLE** - Cylinder for vertical mounting, with steel housing and reservoir. MC-5 ..... P/N 06-11000 ..... **\$135.75**  
MC-5A (0.50" shorter than the MC-5) ..... P/N 06-00375 ..... **\$143.85**

**MC-7 MASTER CYLINDER** - The black anodized MC-6 is designed to attach to a 1" diameter control stick and function similar to a motorcycle brake. Designed for ultralight aircraft, it is completely self-adjustable as the lining wears and draws additional fluid from the cylinder. The 6:1 mechanical leverage allows the average pilot to generate 1,500 psi in the system. P/N 06-00014 ..... **\$221.95**

## MATCO MASTER CYLINDER REBUILD KITS

Description	Part Number	Price
MC-4 Rebuild Kit	06-02998	<b>\$14.50</b>
MC-4A Rebuild Kit	06-03003	<b>\$15.50</b>
MC-5 Rebuild Kit	06-02999	<b>\$15.50</b>
MC-5A Rebuild Kit	06-03002	<b>\$15.50</b>
MCMC-7/MCMC-7s Universal Rebuild Kit	06-03001	<b>\$19.50</b>

## HEGAR MASTER CYLINDERS



**5" SINGLE LEVER MASTER CYLINDER** - 5" single lever, foot operated. Designed for single braking.  
1/2" Bore ..... P/N 06-01277 ..... **\$94.75**  
5/8" Bore ..... P/N 06-01671 ..... **\$89.75**  
**5" DUAL LEVER MASTER CYLINDER** - 5" dual lever, foot operated. Designed for differential braking. Comes in your choice of 1/2", 5/8" and 3/4" bore sizes.  
1/2" ..... P/N 06-01278 ..... **\$177.75**  
5/8" ..... P/N 06-01611 ..... **\$176.75**  
**7" SINGLE LEVER MASTER CYLINDER** - 7" single lever, hand operated. Designed for single braking. Comes in your choice of 1/2", and 5/8" bore sizes. P/N 06-01279 ..... **\$89.75**  
**7" DUAL LEVER MASTER CYLINDER** - 7" dual lever, hand operated. Designed for differential braking. Comes in your choice of 1/2", 5/8" and 3/4" bore sizes. P/N 06-01280 ..... **\$177.75**

## STANDARD MASTER CYLINDER WITH 2 INCH ROUND PEDAL



16982 STANDARD master cylinder with 2" round pedal cylinder. STANDARD master cylinder with 2" round pedal. Can be used for hand or foot operation. Comes with mounting bracket as shown. P/N 06-00328 ..... **\$96.75**

## MASTER CYLINDER PLUG



Master cylinder plug 1/8" NPT for Black Max. P/N 06-01028 ..... **\$0.78**

## O-RING KIT FOR HEGAR BRAKES

Replacement o-ring for 6.375" or 6" brake caliper. Simply remove the piston, clean, lube and install the new o-ring for a perfect seal. Kit comes with two o-rings for one set of calipers (one aircraft). P/N 15-05062 ..... **\$4.95**

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