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Master cylinder for rudder pedal MP-002 and MP-003

Allows to actuate following brake calipers :

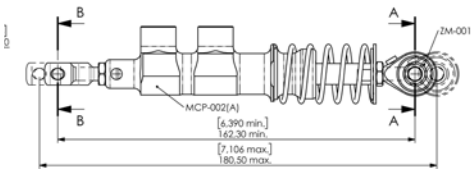
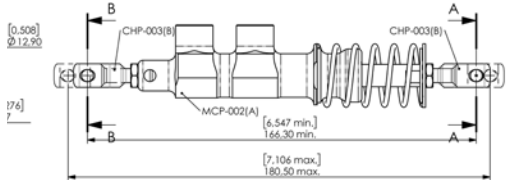
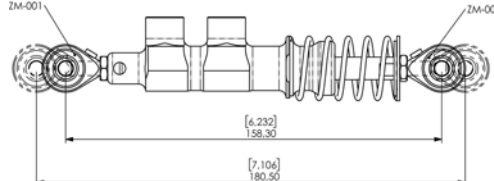
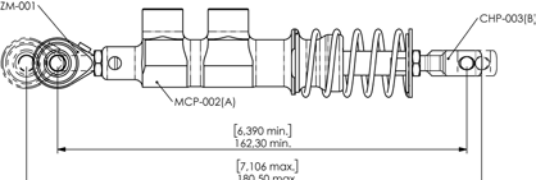
- 1 or 2 calipers : EA-009/9.1 - EA-006/6.2
- 1 caliper EA-002/2.2 - EA-003/3.2/3.3/3.7/3.8 - EA-004 - EA-010.1



Notes : the table shows the attachments for each type of master cylinder. Other configurations are available with extenders (see following tables).

Several types of reservoirs available (see table at the end of master cylinder pages)

Master cylinder P/N	attachment included	Description	Min Dimension Inch mm		Max Dimension Inch mm		Bore Inch mm		Weight oz g	
MP-002	--		-	-	-	-	1/2	12.2	3.53	100
MP-002.1	- ZM-001		5.433	136	5.63	145	1/2	12.2	4.15	118
MP-002.2	- CHP-003		5.512	138	5.669	145	1/2	12.2	3.96	112

Master cylinder P/N	attachment included	Description	Min Dimension Inch mm		Max Dimension Inch mm		Bore Inch mm		Weight oz g	
MP-002.3	CHP-003 - ZM-001		6.39	162	7.11	180	1/2	12.2	4.81	136
MP-002.4	CHP-003 - CHP-003		6.54	166	7.11	180	1/2	12.2	4.62	131
MP-002.5	ZM-001 - ZM-001		6.23	158	7.11	180	1/2	12.2	5	142
MP-002.6	ZM-001 - CHP-003		6.39	162	7.11	180	1/2	12.2	4.81	136

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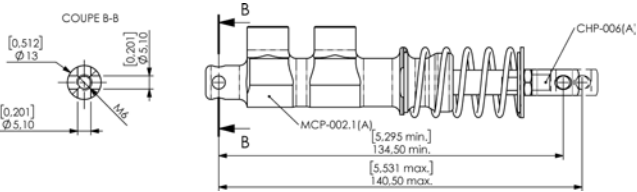
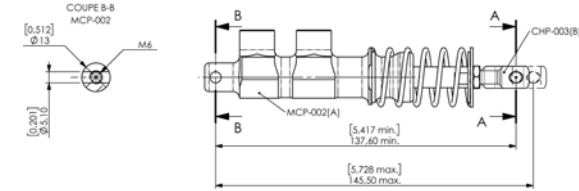
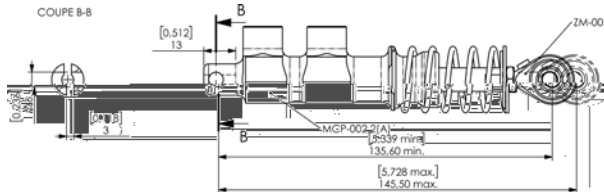
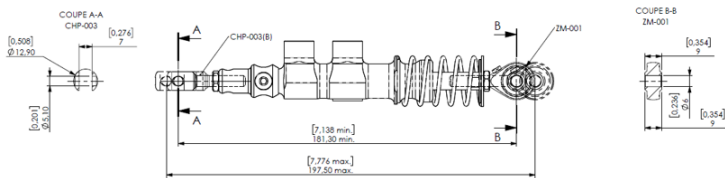
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Brake Master Cylinders / Levers / Pedals

	Master cylinder P/N	attachment included	Description	Min Dimension		Max Dimension		Bore		Weight	
				Inch	mm	Inch	mm	Inch	mm	oz	g
Contacts	MP-002.7	- CHP-006		5.29	134	5.53	140	1/2	12.2	3.72	105
Webshop											
Amotte Patents	MP-002.8	S-CP-006 - CHP-003		5.42	137	5.73	145	1/2	12.2	3.76	107
History/ Values											
Certified kits /STCs	MP-002.9	ZM-001		5.34	135	5.73	145	1/2	12.2	4.09	116
Exp. Kits											
SensAIR®	MP-002.10	ZM-001 -CHP-003		6.35	161.3	7.33	186.2	1/2	12.2	5.11	145
Landing Gears ALG/B'Flex Shock Wheel											
Wheels/Brakes											
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Master cylinder P/N	attachment included	Description	Min Dimension Inch mm		Max Dimension Inch mm		Bore Inch mm		Weight oz g	
MP-002.11	CHP-003		4.44	112.7	5.42	137.6	1/2	12.2	3.74	106
MP-002.12	CHP-003		5.31	135	5.71	145	1/2	12.2	3.77	107
MP-002.14	ZM-001 - ZM-001		6.18	157	7.48	190	1/2	12.2	5.54	157
MP-003	- CHP-002		7.33	186	7.56	192	1/2	12.2	4.3	122

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Master cylinder P/N	attachment included	Description	Min Dimension Inch mm		Max Dimension Inch mm		Bore Inch mm		Weight oz g	
MP-003.5	- CHP-005.1		7.52	191	7.76	197	1/2	12.2	4.44	126
MP-003.6	- CHP-011		7.4	188	7.64	194	1/2	12.2	4.34	123
MP-003.7	CHP-002.1		6.69	170	7.87	200	1/2	12.2	4.3	122
MP-003.8	CHP-002		7.33	186	7.57	192	1/2	12.2	4.05	115

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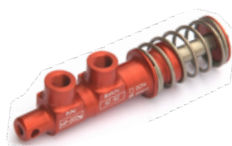
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Master cylinder P/N	attachment included	Description	Min Dimension Inch mm		Max Dimension Inch mm		Bore Inch mm		Weight oz g	
MP-003.9	--	COUPE B-B MCP-003 [0.512] Ø 13 [0.201] Ø 5.10 [0.201] Ø 5.10 B B MCP-003(A) [6.461] 164.10 MB	-	-	-	-	1/2	12.2	4.3	122
MP-003.10	AV-JONK-004	COUPE B-B MCP-003 [0.512] Ø 13 Ø 5.10 Ø 5.10 B B MCP-003(A) AV-JONK-004(A) [7.445 min.] 189.10 min. [7.689 max.] 195.30 max. MB	7.45	189	7.69	195	1/2	12.2	4.33	123
MP-003.11	CHP-002	COUPE B-B PGT-004 [0.512] Ø 13 [0.201] Ø 5.10 [0.315] Ø 8 B B PGT-004(A) CHP-002(A) [8.075 min.] 205.10 min. [8.319 max.] 211.30 max. A A COUPE A-A CHP-002 [0.201] Ø 12.45 [0.508] Ø 12.45 [0.274] 7 MB	8.07	205	8.32	211	1/2	12.2	4.73	134



Master cylinder for rudder pedal MP-001

Allows to actuate following brake calipers :

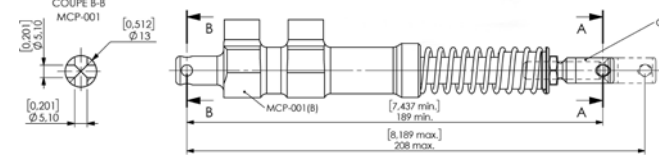
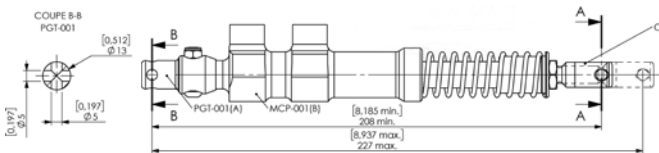
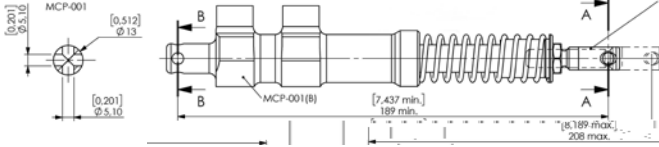
- 2 calipers : EA-003.4/3.5/3.9 - EA-004.1/4.2/4.3
- 1 caliper : EA-008.1 /8.2
- 1 caliper : EA-001

Available for MIL brake fluids only

Notes : the table shows the attachments for each type of master cylinder. Other configurations are available with extenders (see following tables).

Several types of reservoirs available (see table at the end of master cylinder pages)



Master cylinder P/N	attachment included	Description	Min Dimension Inch mm		Max Dimension Inch mm		Bore Inch mm		Weight oz g	
MP-001	- CHP-001		7.441	189	8.189	208	9/16	14.5	5.89	167
MP-001.1	CHP-001 - PGT-002		8.189	208	8.937	227	9/16	14.5	6.38	181
MP-001.2	- CHP-007		7.441	189	8.189	208	9/16	14.5	5.82	165

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Master cylinder P/N		attachment included		Description										Min Dimension Inch		mm		Max Dimension Inch		mm		Bore Inch		mm		Weight oz		g													
MP-001.3		- CHP-007		COUPE B-B MCP-001.1 [0,197] Ø 5 [0,512] Ø 13 [0,315] 8 [7,437 min.] 189 min. [8,189 max.] 208 max. MCP-001.1(A) A CHP-007(A)										7.441		189		8.189		208		9/16		14.5		5.78		164													
MP-001.4		- CHP-009		COUPE B-B MCP-001.2 [0,240] Ø 6,10 [0,197] Ø 5 [0,512] Ø 13 [7,417 min.] 188 min. [8,189 max.] 208 max. MCP-001.2(A) A CHP-009(A)										7.402		188		8.189		208		9/16		14.5		5.89		167													
MP-001.5		- CHP-010		COUPE B-B MCP-001.3 [0,240] Ø 6,10 [0,315] 6 [0,512] Ø 13 [6,905 min.] 175 min. [7,854 max.] 200 max. MCP-001.3(A) A CHP-010(A)										6.89		175		7.874		200		9/16		14.5		5.18		147													
MP-001.6		CHP-010.1		COUPE B-B MCP-001.3 [0,240] 6,10 [0,315] B [0,512] Ø 13 [6,853 min.] 174,1 min. [7,137 max.] 181,3 max. MCP-001.3(A) A CHP-010.1(A)										6.85		174		7.14		181		9/16		14.5		5.18		147													

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Master cylinder for rudder pedal MP-007

Allows to actuate following brake calipers : Dual calipers EA-008.7 - EA-011.2
Available for DOT4 and MIL brake fluid



Notes : the table shows the attachments for each type of master cylinder. Other configurations are available with extenders (see following tables).
Several types of reservoirs available (see table at the end of master cylinder pages)

Master cylinder P/N	attachment included	Description	Min Dimension Inch mm		Max Dimension Inch mm		Bore Inch mm		Weight oz g	
MP-007	CHP-007		7.56	192	8.33	211	0.65	16.5	6.17	175

Attachments/Extenders for brake master cylinders

Attachment P/N	Description	Weight oz g	
CHP-001		0.83	24
CHP-002		0.23	6

Attachment P/N	Description	Weight oz g	
CHP-002.1		0.35	10
CHP-003		0.4	11

Attachment P/N	Description	Weight oz g	
CHP-004		0.39	11
CHP-005		0.32	9
CHP-005.1		0.37	11
CHP-006		0.43	12
CHP-007		0.79	22
CHP-008		0.27	8
CHP-009		0.8	23

Attachment P/N	Description	Weight oz g	
CHP-010		0.77	22
CHP-010.1		0.58	16.5
CHP-011		0.27	8
AV-JONK-004		0.32	9,1
AV-APRK-009		0.65	18,5
ZM-001		0.78	22
BGE-011		0.16	4.5

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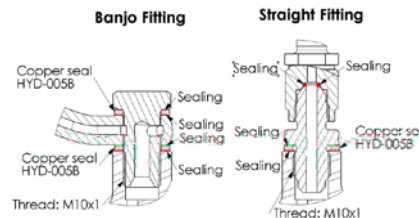
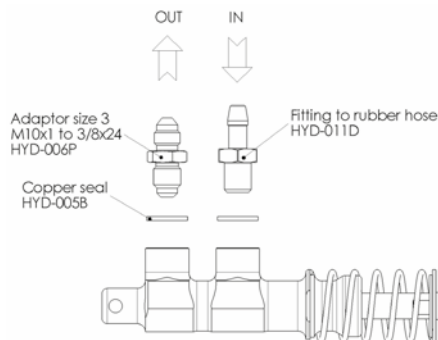
Attachments/Extenders for brake master cylinders

Extender P/N	Description	Weight oz g	
PGT-002		0.3	8.5
PGT-003		0.37	10.5

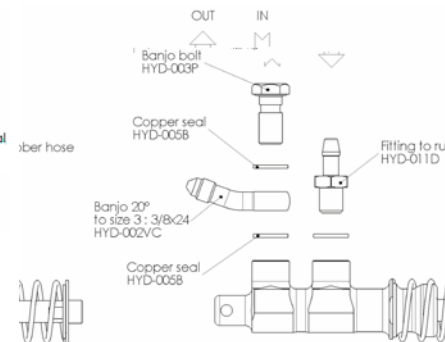
Extender P/N	Description	Weight oz g	
PGT-003.1		0.5	14.2
PGT-004		0.28	8
PGT-005		0.36	10.2

Hydraulic fittings for master cylinders

Only few examples of hydraulic fittings and adaptors are shown. Many other combinations are available. The banjo screw is delivered. Please contact us.



Banjo screw



Levers for master cylinders (hand/heel actuated)

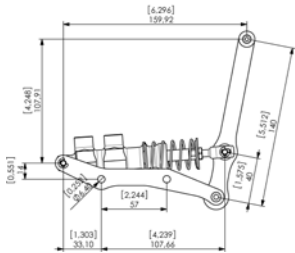
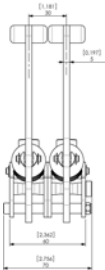
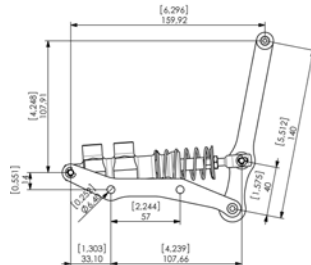
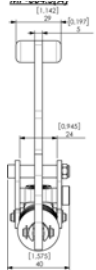
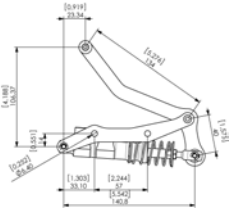
The MP-XXX brake master cylinders can be installed in the different levers described. They are hand actuated (close to the seats) or heel actuated (levers on the floor).

Using ball bearings for perfect control of the braking power.

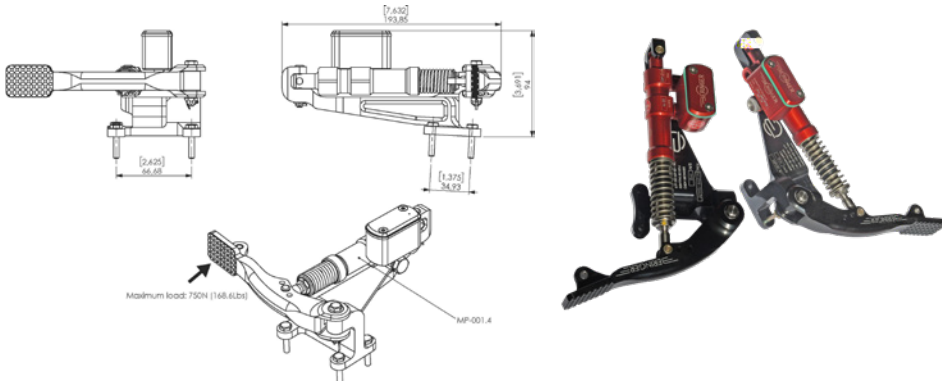
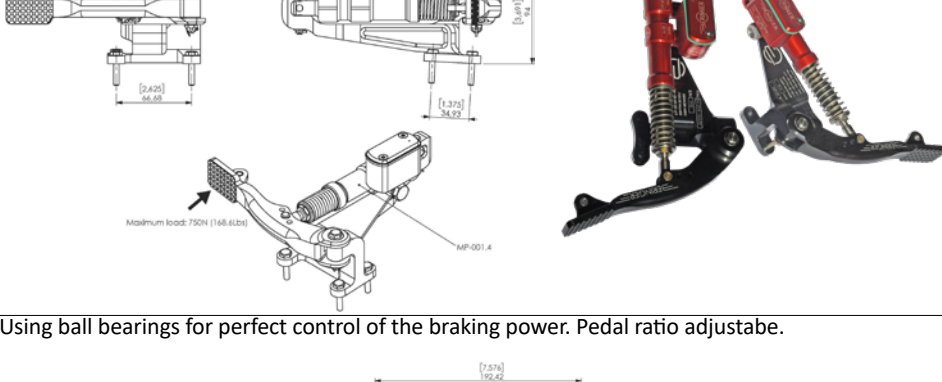
Notes :

- Weights indicated are lever's weight only and do not include the master cylinders (except specifications).
- The master cylinders that can be mounted in each lever are indicated but not included in the lever P/N.

Lever only P/N	M. Cylinder (non included)	Description	Lever weight Lb	g
MP-004.1	MP-002.2		8.77	249
MP-004.2	MP-002.2		16.06	455

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	MP-004.3	MP-002.8	  	9.3	264
	MP-004.4	MP-002.8	  	17.11	485
	MP-004.5	MP-002.8	  	9.58	272

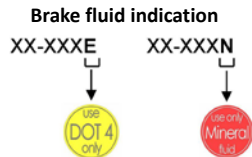
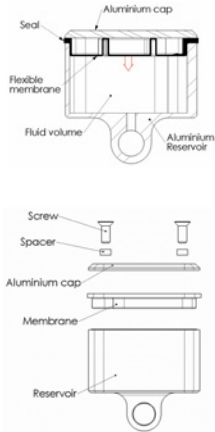
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Webshop	AV-CUB-122	MP-001.4	Using ball bearings for perfect control of the braking power. Pedal ratio adjustable.	1.26	568
Amotte Patents			 Technical drawings of the MP-001.4 lever showing side, top, and perspective views. Dimensions include: [7.430] 193.86, [3.491] 89.4, [1.375] 34.93, [2.425] 61.65, and [1.375] 34.93. A note indicates 'Maximum load: 750N (168.6lbs)'. A photo shows the lever with a red master cylinder.		
History/ Values	AV-CUB-120	MP-003.2	Using ball bearings for perfect control of the braking power. Pedal ratio adjustable.	1.14	518
Certified kits /STCs			 Technical drawings of the MP-003.2 lever showing side, top, and perspective views. Dimensions include: [7.576] 192.42, [3.491] 89.4, [1.375] 34.93, [2.425] 61.65, and [1.375] 34.93. A note indicates 'Maximum load: 750N (168.6lbs)'. A photo shows the lever with a red master cylinder.		
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Integral Reservoirs (Brake fluid)

Red aluminum reservoirs

To be mounted directly on the master cylinders. Vertical or horizontal mounting, 180° rotatable. The reservoirs are 100% tight, without any risk of leak. Available for DOT4 or Minéral brake fluid. Perfect for Aerobatic use.



Reservoir P/N	Description		Weight		Brake Fluid
			oz	g	
RV-001E/N	Aluminum Reservoir		1.94	55	DOT4/MIL
RV-002 E/N			2.01	57	DOT4/MIL
RV-003E/N	Aluminum Reservoir (Van's type)		1.59	45	DOT4/MIL
RV-004E/N	Aluminum Reservoir - Threaded port		1.27	36	DOT4/MIL
RV-004.1E/N	Aluminum Reservoir - unthreaded port (for hand lever)				

Caution : Brake fluid reservoirs must not be installed close to the engine. They must be installed only inside the cockpit.

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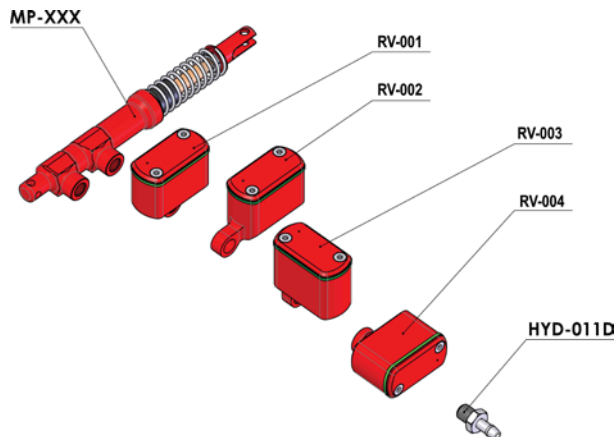
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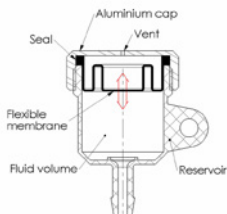
Reservoirs (Brake Fluid)

Several ways of mounting the reservoirs on the master cylinders



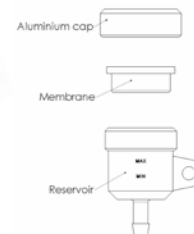
Remote Brake Fluid Reservoir

Remote Reservoir Kit



Transparent reservoir with CNC aluminium cover
Visible fluid level
Delivered with mounting kit and 0.50m of EPDM tube
Available for DOT4 or mineral brake fluid

Reservoir P/N	Description	Weight oz	g	Brake fluid
HFA01E	Remote Reservoir	1.38	39	DOT4
HFA01N	Remote Reservoir	1.38	39	MIL
RV-007N	Remote Reservoir			MIL



Caution : Brake fluid reservoirs must not be installed close to the engine. They must be installed only inside the cockpit.

Hand Master Cylinders



Allows to actuate the following calipers : 1x 1P27 EA-009/9.1 - 2x 2P27 calipers EA-006/6.2 - 1x 2P32 EA-002

- For $\varnothing 7/8"$ (22mm) stick or 1" (25mm) stick
- Can be installed also on a flat support with 2x M6 screws
- Built-in reservoir or without reservoir for installation in serie (co-pilot hand brake)
- CNC machined from aluminum billet - red anodized
- Three ball bearings for smooth and precise operation
- Available for DOT4 only

XX-XXXE



Option : parking brake FP-004

Master cylinder P/N	Description		Scheme	Weight oz	Weight g	Brake fluid
MM-001	Master cylinder + built-in reservoir			10.41	295	DOT4
MM-001+PKP01	Master cylinder + built-in reservoir + parking brake			10.41	295	DOT4
MM-003	Additional master cylinder (mounting in serie : co-pilot brake). To be used with MM-001 or MM-001			10.02	284	DOT4
MM-001.5	Master cylinder + built-in reservoir Yankee lever (for Y control stick)			-	-	-
LEV-001.1	Yankee lever for MM-001 or MM-001					
PKP01	Parking brake for MM-001 and MM-003			0,1	3	-
MM-004	Lever bushing kit			-	-	-

Contacts

Webshop

Amoite Patents

History/ Values

Certified kits /STCs

Exp. Kits

SensAIR®

Landing Gears
ALG/B'Flex
Shock Wheel

Wheels/Brakes

Nose-Tailwheels

Tires

Wheel Axles

Brake Controls
Rudd'Air Pedals

Regulators
Anti-skid

Parking Valves

Hoses/Fittings

Spare Parts

Tools

FAQs

BERINGERAero
Technology

They trust us

Master Cylinder cable actuated



Allows to actuate following calipers : 1x 1P27 EA-009/9.1 - 2x 2P27 calipers EA-006/6.2 - 1x 2P32 EA-002

- Actuated by cable
- Reservoir included
- Delivered with aluminum bracket
- CNC machined from billet aluminum - red anodised
- Three ball bearings for smooth and precise operation
- Available for DOT4 only



Master cylinder P/N (old / new P/N)	Description	Weight oz g		Brake fluid
HAC01/MM-002	Master cylinder + reservoir cable actuated	10.41	295	DOT4
AV-SCHE-208	Bracket 	-	-	-

Master Cylinder hand actuated



Allows to actuate following calipers : 1x 1P27 EA-009/9.1 - 2x 2P27 calipers EA-006/6.2 - 1x 2P32 EA-002

- All in one : lever, brake master cylinder, reservoir with seal
- To be installed on a 7/8" stick or on a flat support with 2x M6 screws
- CNC machined from aluminum billet - red anodized
- Three ball bearings for smooth and precise operation
- Available for DOT4 only



Master cylinder P/N (old / new P/N)	Description	Weight oz g		Brake fluid
HAB04/MM-001	Master cylinder + reservoir hand actuated	10.41	295	DOT4
MM-004	Lever ends	-	-	-