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Catalogue indice A 11/06/2008

**Quality
and performance
since 1985**

2008
**WHEELS
&
BRAKES**



www.madeinrespect.org



following TRA2007 (tire and rim association)

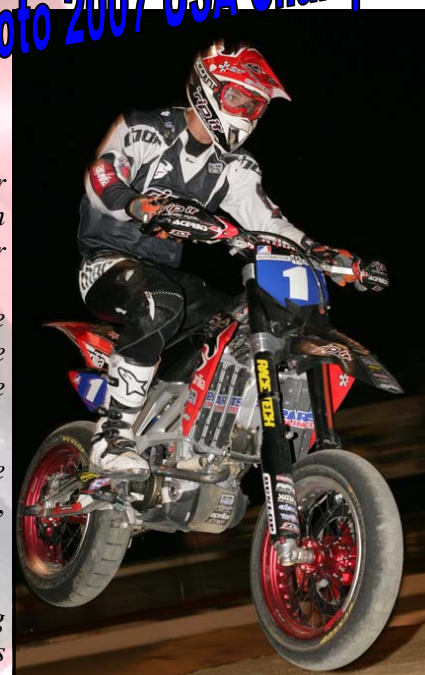
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**Endurance World Champion
2000, 2002, 2003**

BERINGER® has been manufacturing brakes for motorcycles in the same spirit of quality and performance for 17 years. After only a short time, BERINGER® braking products have been accepted by the well-known racing teams for their exceptional reliability, allowing BERINGER® to be used by 15 teams in the World Endurance Championships over a period of 10 years. BERINGER® was used by the 2000 and 2003 World Champion Team Phase One, 2002 with the Team ZONGSHEN, 2nd in 2005 and 3rd in 2006 with BOLLIGER Team.

Supermoto 2007 USA Champion



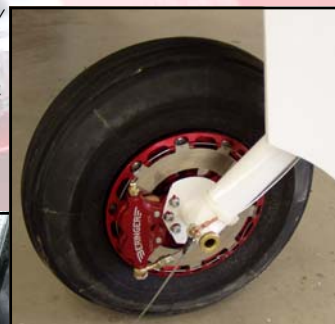
BERINGER® brakes for cars have also been showered with praise in Supertourismo races with a title in 2002, 2003 and 2005 French Champion. BERINGER® also supplied the brakes for the 2003 RENAULT FRV6.

This was all made possible by a team of exceptional Mechanical Engineers who have studied and developed new products for each specific use. These innovations are covered by many patents and have allowed BERINGER® brakes to take a decisive technological lead.

Of course BERINGER® controls product quality to ensure total reliability to the users of brakes. This is evidenced by the following certifications : ISO 9001, UTAC, TÜV.

BERINGER® wheels and brakes for airplanes are using this innovating technology as well as the patents developed for car and motorcycles competition. They have allowed the creation of a product whose ratio weight/performance is without precedent.

A new standard in safety and efficiency is now available in Aircraft Brake Systems.



WHEEL 5"

- Dimension : 5.00-5 and 4.00-5
- Static load 1432 Lbs Limit load : 5731 Lbs
- TUBELESS in three parts with O-rings and rigid valve.
- Aluminum alloy : 2017 machined from solid on CNC
- Following TRA 2007
- ISO standards bearings for optimized durability 25mm (1") for outer rim and 30mm (1.18") for inner rim (sealed ball bearings)

CALIPER AEROTEC® 2P for 5" wheel

- 2 austenitic stainless steel polished pistons
- Body made of aeronautic alloy which can withstand high temperatures (>200Mpa at 390°F)
- To be used with DOT 4, 2 input M10x1
- Covered with Aerotec® patents
- Maximum operating pressure: 870 psi, tested limit pressure: 1740 psi.
- Brake torque of 4230 in-lb (at maximum operating pressure)
- Use a floating stainless steel disc (patent 4D AEROTEC®)
- Sintered brake pads: allows very high friction temperature (> 1100°F) and very long life

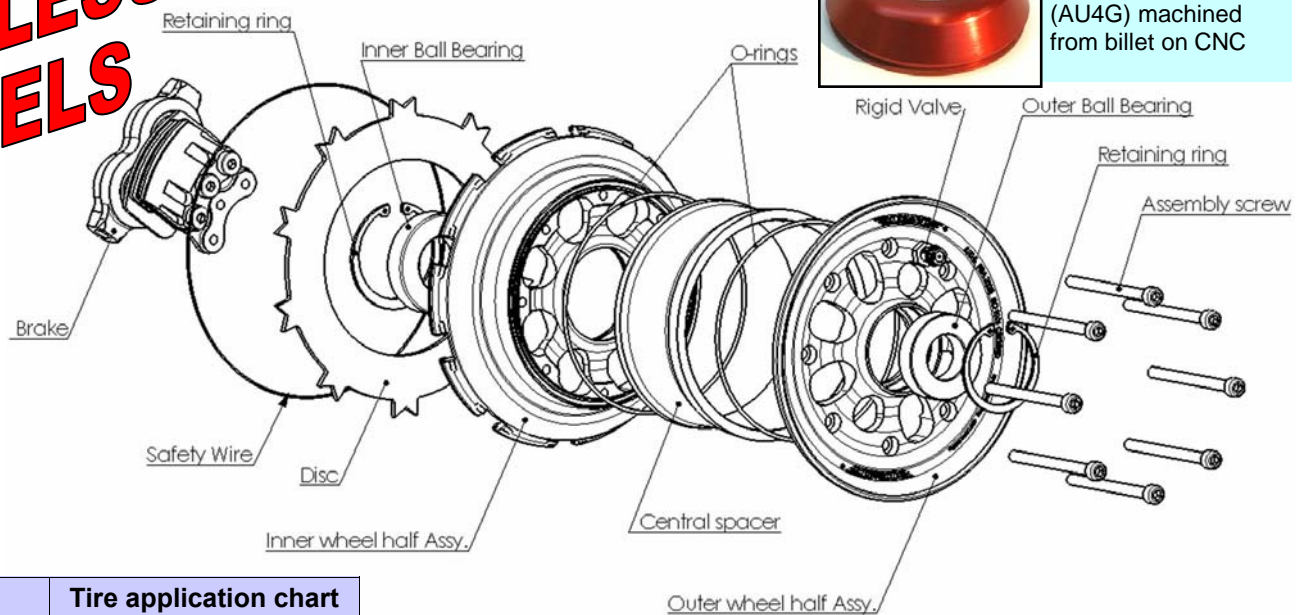


WHEEL CAP



- Anodized cap for wheel
- Alloy: 2017 (AU4G) machined from billet on CNC

**TUBELESS
WHEELS**



Wheel	Tire application chart
JA-01, JA-31, JB-01	5.00-5" 15x6.00-5"
JA-02, JA-32, JB 02	11x4.00-5"

	Part#	DESCRIPTION	weight	Static load	Brake torque	Max RTO Energy	Price (each)
Wheel with brake	JA-01	5.00-5" Wheel with Aerotec® Caliper 2 pistons EA-01 and stainless steel Disc DSC-006.	4.25 lbs	1432 lbs	4230 in-lb	144,000 ft-lb	\$554 USD
	JA-02	4.00-5" Wheel with Aerotec® Caliper 2 pistons EA-01 and stainless steel Disc DSC-006.	4.03 lbs	1432 lbs	4230 in-lb	144,000 ft-lb	\$554 USD
	JA-31	5.00-5" Wheel with reinforced Aerotec® Caliper 2 pistons EA-03 and stainless steel Disc DSC-005	4.25 lbs	1432 lbs	4230 in-lb	198.000 ft-lb	\$598 USD
	JA-32	4.00-5" Wheel with reinforced Aerotec® Caliper 2 pistons EA-03 and stainless steel Disc DSC-005	4.03 lbs	1432 lbs	4230 in-lb	198.000 ft-lb	\$598 USD
Nose wheel	JB-01	5.00-5" Nose wheel	2.69 lbs	1432 lbs			\$398 USD
	JB-02	4.00-5" Nose wheel	2.47 lbs	1432 lbs			\$398 USD
Cap	ZJB01	Cap for 5" wheel	2 oz				\$68 USD

WHEEL 6"

- Static load: 2094 Lbs Limit load: 8377 Lbs
- In three parts with rigid valve
- Alloy : 2017 (AU4G) machined from solid on CNC
- Following TRA 2007
- ISO standards bearings for optimised durability: 35mm (1.38") for outer rim and 45mm (1.77") for inner rim (sealed ball bearings)

CALIPER AEROTEC® 3P for 6" wheel

- 3 austenitic stainless steel polished pistons
- Body made of aeronautic alloy which can withstand high temperatures
- (>200Mpa at 390°F)
- Machined from solid on CNC
- To be used with DOT 4, 2 input M10x1
- Covered with Aerotec® patents
- Maximum operating pressure: 870 PSI tested limit pressure: 1740 PSI.
- Brake torque of 7720 in-lb (at maximum operating pressure)
- Normal Kinetic Energy: 340,000 in-lb
- Maximum R.T.O Kinetic Energy: 405,000 ft-lb
- Fixed caliper with a floating disc (patent 4D AEROTEC®)
- Sintered brake pads: allows very high friction temperature



3 piston AEROTEC® Caliper with sintered metal pads

	Part#	DESCRIPTION	weight	Static load	Brake torque	Max RTO Energy	Price (each)
Wheel with brake	JAB01	6.00-6" wheel (CNC machined - tubeless mounting) with Aerotec® Caliper 3 pistons EA-02 and stainless steel Disc DSC-001	8.38 lbs	2094 lbs	7720 in-lb	405,000 ft-lb	\$863 USD
Cap	ZJB03	Cap for wheel 6", aluminium CNC machined, anodized	2 oz				\$78 USD

TUBELESS WHEELS

Wheel	Tire application chart	
JAB01	6.00-6"	15x6.00-6"
	7.00-6"	8.00-6" 8.50-6"

CAP FOR WHEEL

- Anodized cap for wheel
- Alloy: 2017 (AU4G) machined from billet on CNC



FINISH: Red anodizing is standard color for wheels, brakes and master cylinders. Other colors are available on special order at an additional cost of **\$96 USD** per batch of parts: **silver, blue, black, yellow, titanium grey**. Polishing is also available for the wheels with a lead time and an extra cost of **\$142 USD**.

WE RECOMMEND FIRST MOUNTING OF TIRES ON WHEELS IN OUR PLANT. This service, free of charge, includes a pressure test, ensuring maximum security of the assembly.

WHEEL 6" light

- Static load: 881 Lbs Limit load: 3526 Lbs
- In three parts with rigid valve
- Alloy : 2017 (AU4G) machined from billet on CNC
- Following TRA 2007
- ISO standards bearings for optimized durability: 25mm (1") for outer rim and 30mm (1.18") for inner rim (sealed ball bearings)

CALIPER AEROTEC® 2P for wheel 6" light

- 2 austenitic stainless steel polished pistons
- Body made of aeronautic alloy which can withstand high temperatures (>200Mpa at 390°F)
- To be used with DOT 4, 2 input M10x1
- Covered with Aerotec® patents
- Maximum operating pressure: 870 psi
- Tested limit pressure: 1740 psi.
- Brake torque of 4230 in-lb (at maximum operating pressure)
- Normal Kinetic Energy: 120,000 ft-lb Maximum R.T.O Kinetic Energy: 144,000 ft-lb
- Caliper is fixed with a floating disc (patent 4D AEROTEC®)
- Sintered brake pads: allows very high friction temperature (> 1100°F) and very long life

PATENTED



2 piston AEROTEC® Caliper with sintered metal pads

TUBELESS WHEELS

	Part #	DESCRIPTION	weight	Static load	Brake torque	Max RTO Energy	Price (each)
Wheel with brake	JAA01	6.00-6 light Wheel with Aerotec® Caliper 2 pistons EA-01 and stainless steel Disc ZJA02	4.63 lbs	881lbs	4230 in-lb	144,000 ft-lb	\$598 USD
	JAA02	4.00-5 light Wheel with Aerotec® Caliper 2 pistons EA-01 and stainless steel Disc ZJA02	4.25 lbs	881lbs	4230 in-lb	144,000 ft-lb	\$598 USD
Nose wheel	JBA01	6.00-6 light Nose wheel (CNC machined - tubeless mounting)	3.10 lbs	881lbs			\$449 USD
	JBA02	4.00-6 light Nose wheel (CNC machined - tubeless mounting)	2.73 lbs	881lbs			\$449 USD
Cap	ZJB02	Cap for 6" light Wheel aluminium CNC machined, anodized	2 oz				\$68 USD

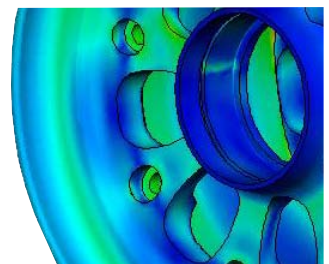
Wheel	Tire	Application Chart
JAA01	600-6"	7.00-6" 800-6"
JBA01	15x600-6"	
JAA02	4.00-6"	15x6.00-6"
JBA02	13x5.00-6"	

CAUTION: static load valid only with appropriate tire

FEM calculated and checked

CAP FOR WHEEL

- Anodized cap for wheel
- Alloy: 2017 (AU4G) machined from billet on CNC



FINISH: Red anodizing is standard color for wheels, brakes and master cylinders. Other colors are available on special order at an additional cost of **\$96 USD** per batch of parts: **silver, blue, black, yellow, titanium grey**. Polishing is also available for the wheels with a lead time and an extra cost of **\$142 USD**.

WE RECOMMEND FIRST MOUNTING OF TIRES ON WHEELS IN OUR PLANT. This service, free of charge, includes a pressure test, ensuring maximum security of the assembly.

Lightweight parking brake valve, aluminum anodized, fully CNC machined. Available for mineral-based fluid or DOT4 brake fluid.

- Lightweight parking brake valve, Aluminium anodized
- Available for mineral-based fluid like MIL-5606 or synthetic DOT4 brake fluid.
- Machined from billet on CNC.
- Max. input pressure: 1450 PSI

Part #	DESCRIPTION	weight	Price
HVA01	BERINGER Parking brake valve for DOT4 brake fluid (red anodizing color)	5 oz	\$298 USD
HVA02	BERINGER Parking brake valve for mineral-based fluid (green anodizing color)	5 oz	\$298 USD

Brake Master Cylinder

MASTER CYLINDER AEROTEC® for hand brake *part # HAA01*

- Utilizes a three ball bearing system
- Covered with the world-wide AEROTEC® patents, it brings exceptional brake feeling
- Machined from billet on CNC
- Weight: 10 oz
- To fix on 22 mm (0.86") axle or directly on flat surface with 2 screws
- Works in all position

PATENTED



RESERVOIR kit for master cylinder *part # HFA01*

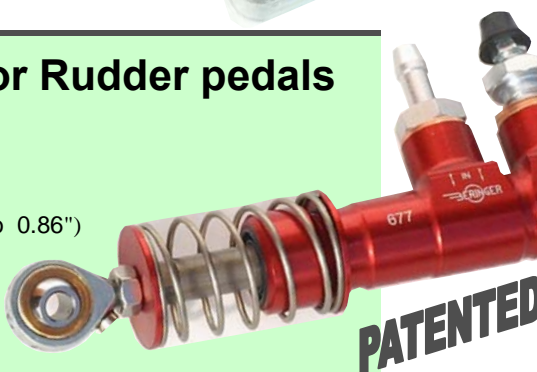
- Translucent reservoir with aluminium cover machined on CNC
- Visible brake fluid level
- Weight: 1 oz
- With bellows for sealing
- Needs to be used with HAA01 or HBA01



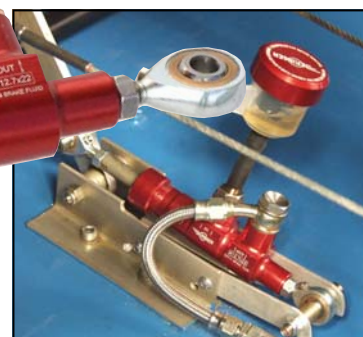
MASTER CYLINDER for Rudder pedals

part # HBA01

- Weight without ball ends : 3 oz
- Diameter of the piston: 12.7 mm (0.5 ")
- Piston maximum travel : 20 to 22mm (0.75 to 0.86")
- Generated volume : 1.5 cubic inch
- Thread type of the connections: M10x1
- Ball end rods: M6x1 (male).
- Machined from solid on CNC
- Allows the mounting of 2 master cylinders in series (for right and left seat)



PATENTED

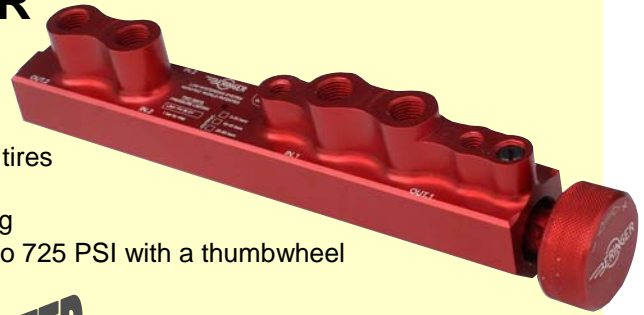


Part #	DESCRIPTION	weight	Price
HAA01	Master cylinder for hand brake brake fluid DOT4	10 oz	\$332 USD
HAA02	Master cylinder for hand brake with parking brake pin brake fluid DOT4	10 oz	\$360 USD
HBA01	Master cylinder for rudder pedal brake fluid DOT4	3 oz	\$288 USD
HFA01	Reservoir kit brake fluid DOT4	1 oz	\$65 USD

BALANCED ANTI-LOCK REGULATOR

part # HCA02 and HCA12

- Low hysteresis anti-lock regulator
- For aircraft with differential braking system (left and right)
- This system avoids problems of brake locking and increases life of tires and brake systems (linings, disc, inner rim)
- Allows braking perfectly straightaway, in case of emergency braking
- Can be adjusted at every 15 PSI from 145 to 580 PSI or from 290 to 725 PSI with a thumbwheel
- 2 feeding and 2 output (thread : M10x1)
- For DOT4 brake fluid
- Machined from solid on CNC
- Weight: 270g (10 oz)



PATENTED

Ultralight PRESSURE LIMITER

part #HZA01, HZA02, HZA03, HZA04

- Can progressively limit the pressure in the braking system at 360, 500, 650 or 870 Psi
- Highly recommended to avoid over pressure and damage on the brake system
- Thread type of connection: M10x1
- Machined from solid on CNC
- For DOT4 brake fluid
- Weight: 3 oz



PATENTED

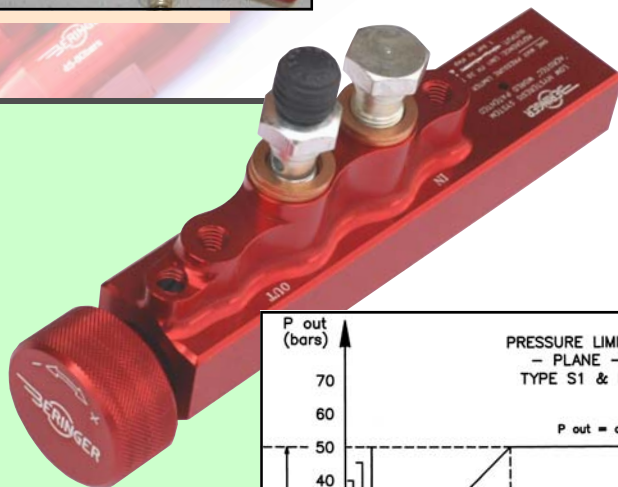


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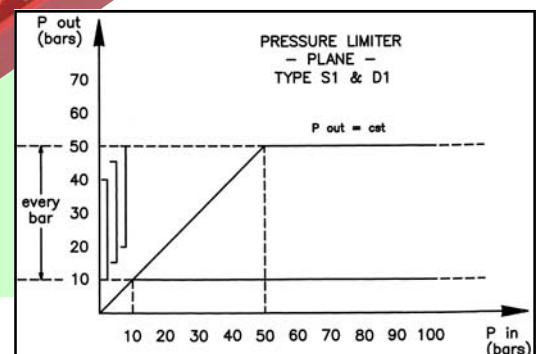
ANTI-LOCK REGULATOR

part # HCA01 and HCA11

- Low hysteresis anti-lock regulator
- For aircraft with symmetrical braking system
- This system avoids problems of brake blocking and increases life of tires and brake systems (linings, disc, inner rim)
- Can be adjusted from 145 to 580 psi or from 290 to 725 psi with a thumbwheel
- thread type of connection: M10x1
- For DOT4 brake fluid
- Machined from solid on CNC
- Weight: 8 oz



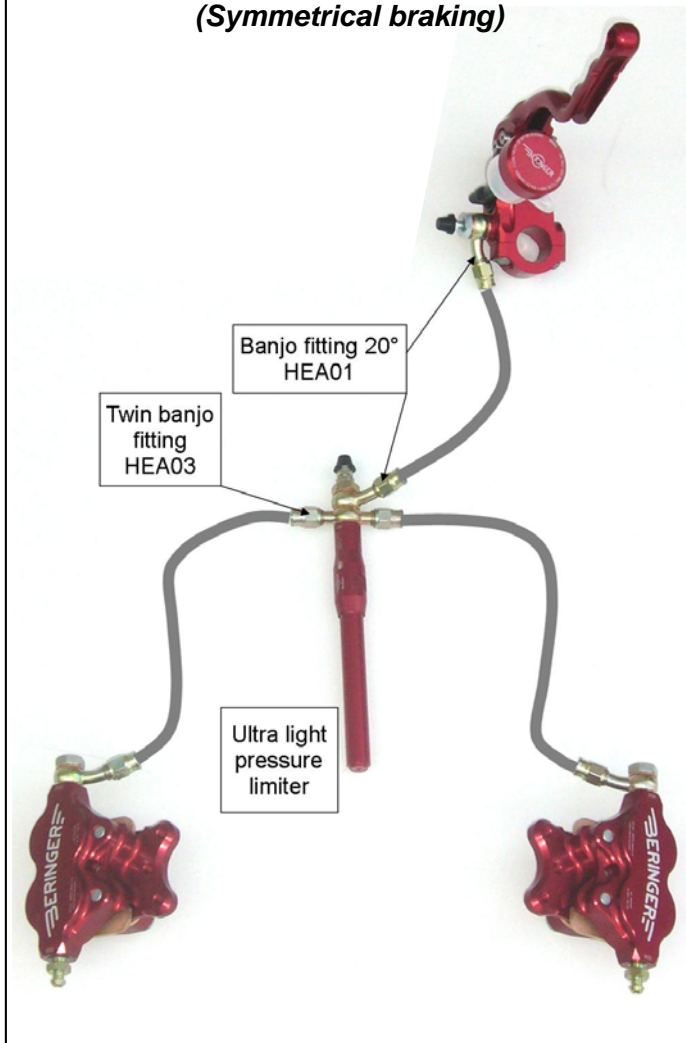
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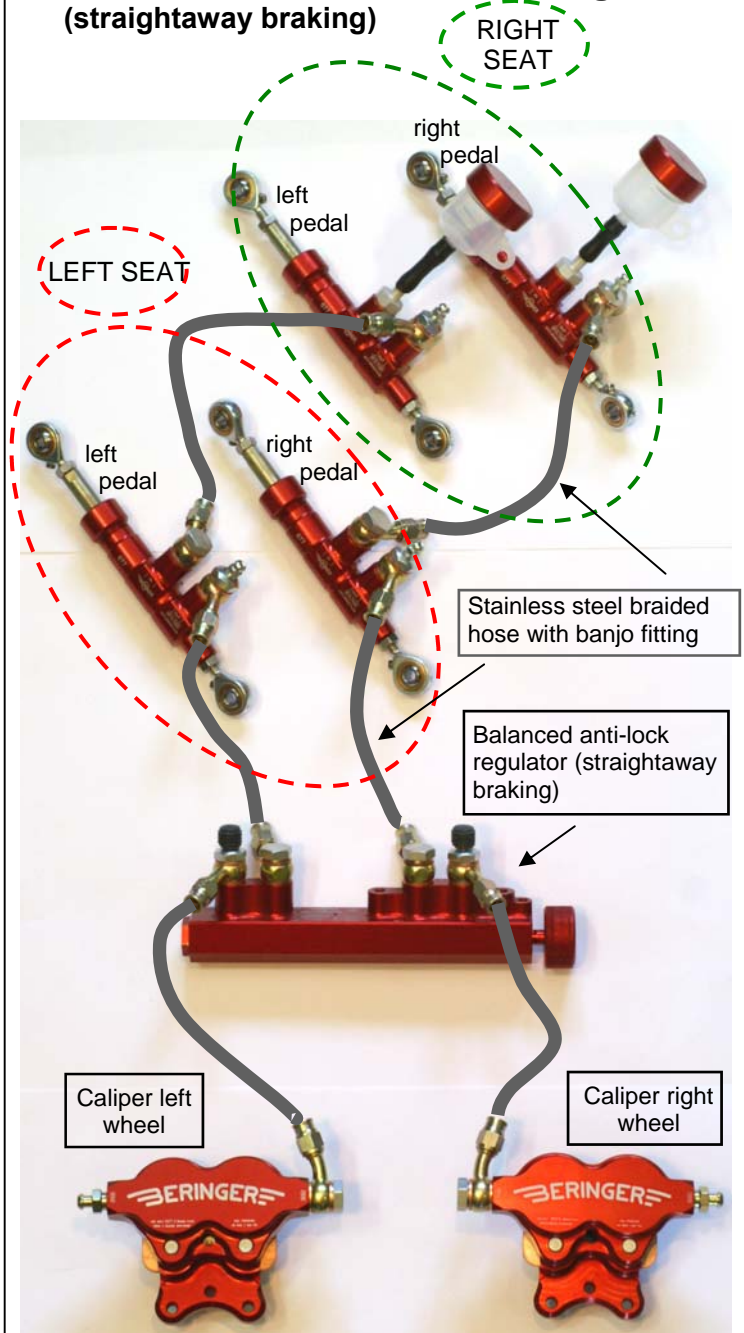
1 bar ↔ 14.5 psi
1 psi ↔ 0.069 bar

Part #	DESCRIPTION		weight	Price
HCA01	Anti-lock regulator 10 to 40 bars	brake fluid DOT4	8 oz	\$209 USD
HCA11	Anti-lock regulator 20 to 50 bars	brake fluid DOT4	8 oz	\$209 USD
HCA02	Balanced anti-lock regulator 10 to 40 bars	brake fluid DOT4	10 oz	\$209 USD
HCA12	Balanced anti-lock regulator 20 to 50 bars	brake fluid DOT4	10 oz	\$209 USD
HZA04	Ultralight pressure limiter 25 bars	brake fluid DOT4	3 oz	\$129 USD
HZA01	Ultralight pressure limiter 35 bars	brake fluid DOT4	3 oz	\$129 USD
HZA02	Ultralight pressure limiter 45 bars	brake fluid DOT4	3 oz	\$129 USD
HZA03	Ultralight pressure limiter 60 bars	brake fluid DOT4	3 oz	\$129 USD

BRAKE SCHEMA with ultra light regulator (Symmetrical braking)



Differential braking system with balanced anti-lock regulator (straightaway braking)



In the above mounting master cylinders
P/N: HBA01 are mounted in series

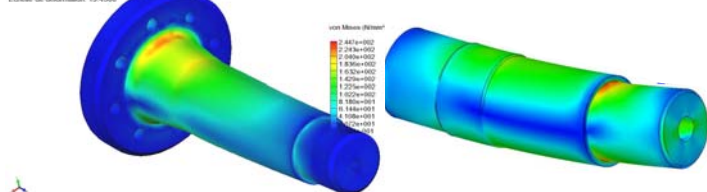
CAUTION: BERINGER® and AEROTEC® are registered trademarks. BERINGER® owns 9 different world patents protecting its unique technology on master cylinders, calipers, discs, brake regulators and aircraft wheels.

INFRINGERS WILL BE PROSECUTED

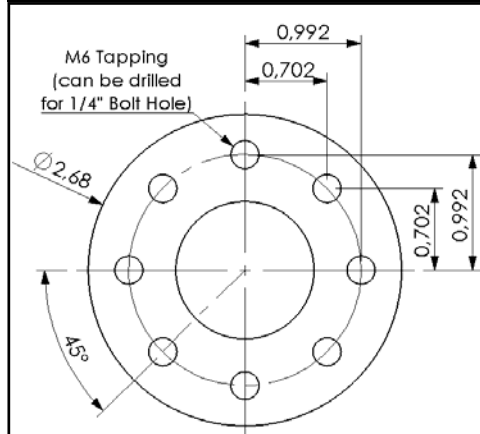
WHEEL AXLES

- Material: aluminium anodized or high strength steel with thin nickel coating
- Different types of axle available:
 - for wheel fork
 - for cantilever installation
- FEM calculated and checked for better stress distribution

Neuro de modelle: Axon dms
Neuro de Fildes: 1
Type de Model: Diagramme Contrainte de von Mises
Echelle de deformation: 13.4566

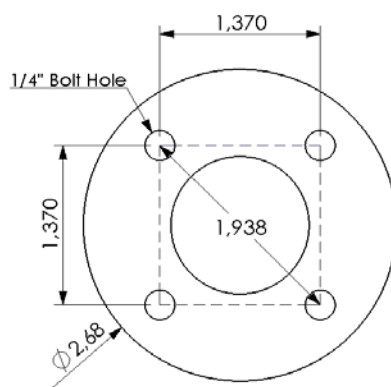


AXLE BOLT HOLE TEMPLATES (dimensions are inches)



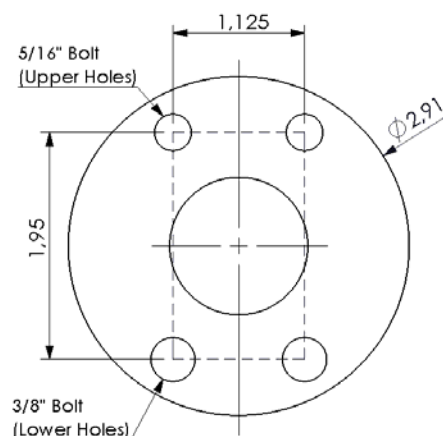
TYPE 1 hole pattern

Matches axle part# AA-01
AA-02 AB-01



TYPE 2 hole pattern

Matches axle part# AA-01
AA-02 AB-01



TYPE 3 hole pattern

Matches axle part# AA-04



Axle nut and
cotter pin

Part #	DESCRIPTION	weight	Max Static load per axle	Limit load	Price
AA-01	Aluminium Axle for 5.00-5" and 4.00-6" light wheel	9 oz	750 Lbs	2600 Lbs	\$110 USD
AA-02	Aluminium Axle for 4.00-5" wheel (anodized)	8 oz	950 Lbs	3400 Lbs	\$110 USD
AA-04	Aluminium Axle for 6.00-6" wheel (anodized)	1.4 lbs	1800 Lbs	6300 Lbs	\$179 USD
AB-01	Steel Axle for 5.00-5" wheel (nickel coated)	1.37lbs	1400 Lbs	4900 Lbs	\$168 USD
ZSA01	Aluminium nut M25x1,5	0.3 oz	For axle AA-01, AA-02, AB-01		\$19 USD
ZSB01	Aluminium nut M35x1,5	0.5 oz	For axle AA-04		\$37 USD



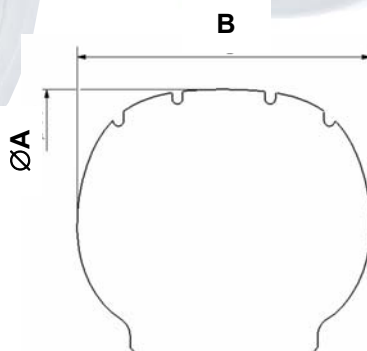
BERINGER TIRE CHANGING TOOL

- Specific tire change tool for BERINGER wheels with conical aluminum spacer to insert tire on wheel half.
- Plywood flanges maintain tire while positioning second wheel half with the O-ring.
- Includes: Plywood flanges, bolts with butterfly nut and conical aluminum spacer

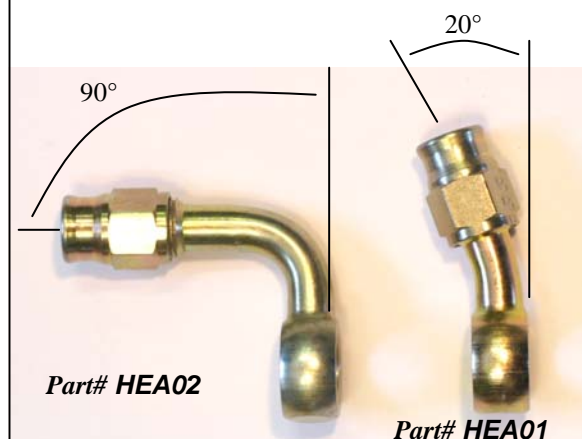
Part#	DESCRIPTION	Price
OPA01	Tire change tool for 5" wheels	\$158 USD
OPA02	Tire change tool for 6" wheels	\$189 USD

TIRES

Part#	DESCRIPTION		ØA (inch)	B (inch)	weight	Price
PAA02	Michelin Aviator 5.00-5", 10 ply TUBELESS	Static load 2150 lbs	14.2	4.65	5.9 lbs	\$174 USD
PAB01	Michelin Air 380x150-5", 6 ply,	Static load 1598 lbs	14.96	5.5	6.7 lbs	\$166 USD
PAB02	Michelin Aviator 15x6.00-6", 6 ply,	Static load 1950 lbs	14.96	6.3	7 lbs	\$144 USD
PAB03	Michelin Aviator 6.00-6", 8 ply TUBELESS	Static load 2350 lbs	17.5	6.3	8.9 lbs	\$174 USD
PAB03	Michelin Aviator 8.00-6", 6 ply	Static load 2050 lbs	18.9	7.8	12.9Lbs	\$190 USD
PAC01	Tire 11x4.00-5", 8 ply	(non certified)	11.6	3.78	2.9 lbs	\$56 USD
PAC02	Deli Tire 15x6.00-6", 6 ply	(non certified)	14.75	5.1	4.7 lbs	\$56 USD
PAC03	Deli Tire 13x5.00-6", 4 ply	(non certified)	13.4	4.65	3.1 lbs	\$56 USD
PAE01	Carlisle 8.00-6", 4ply	(non certified)	17.7	7.1	6.6 lbs	\$106 USD



A fitting is required at each end of stainless steel hose.



Part# HDB01



CHOOSE your fittings, length and ORDER YOUR BRAKE LINE READY TO USE

See special brake line ORDER FORM at the end of the catalogue

Part #	DESCRIPTION	Price
HDA01	EPDM hose for reservoir, specific for DOT4 brake fluid	per foot \$3 USD
HJA01	High performance Brake fluid DOT4	(30 cu.in) \$39 USD
HJA02	High performance Brake fluid DOT5 Silicone base (longer life time). DOT5 cannot be mixed with DOT4.	(20 cu.in) \$49 USD
HDB01	Stainless steel hose, braided, PTFE high temperature inner tube	per foot \$6 USD
HEA01	Banjo fitting 20°	\$16 USD
HEA02	Banjo fitting 90°	\$23 USD
HEA04	Straight fitting, male M10x1	\$20 USD
HEA05	Brake adaptor Metric M10x1 to JIC 7/16x20	\$13 USD
HEA08	Straight fitting, female concave seat 7/16x20 (stainless)	\$49 USD
HEA09	Straight fitting, female concave seat 3/8x24 (stainless)	\$35 USD
ZGA01	Cushioned tube clamps for stainless steel hose	(batch of 10) \$10 USD

BRAKE LINES for RV's

Retrofit your RV with stainless brake lines :

- BERINGER® Brake hose is stainless steel braided with PTFE inner tube and stainless steel fittings. It provides consistent brake pedal pressure without spongy feeling. The flexibility allows landing gear leg movements and avoids leakage that appears with hardline tube. Each brake line connect brake caliper to fuselage connector: straight fittings, female concave seat 7/16x20.
- Each brake line is pressure tested and delivered with certificate.



Part #	DESCRIPTION	price
HED01	Set of 2 Brake lines for RV6, 7, 9	\$198 USD
HED02	Set of 2 Brake lines for RV6A, 7A, 9A	\$198 USD

Save 2 to 3 Lbs on your experimental aircraft with lightweight BERINGER nose wheel. Nose Wheels are aluminum red anodized, machined from billet on CNC, with O-rings for Tubeless mounting.

- Static capacity: 1440 Lbs (with appropriate tire).
- Aluminum axle for 5/16 bolt diameter.

The 5" NOSE WHEEL KIT includes:

- 1 nose wheel
- 1 tire (mounted on rim, pressure tested)
- 1 aluminum axle with bearing spacer

TUBELESS WHEEL



Aircraft Type	DESCRIPTION	weight	BERINGER® Part Nr.	Price
Lancair 320, 360 (retractable LG)	Nose wheel kit as described above, with Tire 11x4.00-5", 8ply	5.9 Lbs	SLC02A	\$558 USD
Lancair legacy (retractable LG)	Nose wheel kit as described above, with Tire 11x4.00-5", 8ply	5.9 Lbs	SLC01A	\$558 USD
Glasair III (retractable LG)	Nose wheel kit as described above, with Tire 11x4.00-5", 8ply	5.9 Lbs	SGL01A	\$558 USD
Van's RV6A, 7A, 9A	Nose wheel kit as described above, with tire 11x4.00-5" 8ply	5.9 lbs	SRV02A	\$558 USD
Zenair CH601	Nose wheel kit as described above, with Michelin Aviator 5.00-5" 10ply Tubeless	9 lbs	SZH01A	\$720 USD

BERINGER Wheels & brake SET



Wheel & brake SET for Van's RV6/6A - 7/7A - 8/8A - 9/9A p.13

Upgrade your experimental aircraft and save 6 to 10 Lbs with high performances BERINGER® wheels and brakes. These complete wheels and brake sets are designed to mount directly, replacing original equipment. Wheels are aluminum red anodized, fully CNC machined, with O-rings for Tubeless mounting. Brake calipers use sintered metallic pads and stainless steel pistons for increased life time.

Wheel & brake set includes:

- 2 wheels 5" with reinforced calipers and stainless steel discs
- 2 tires (mounted on rims and pressure tested)
- 2 axles or 2 sets of adaptation parts
- 4 master cylinders & 2 fluid reservoirs
- 1 parking brake valve
- 1 anti-lock regulator
- stainless steel brake lines
- detailed mounting procedure.

PATENTED

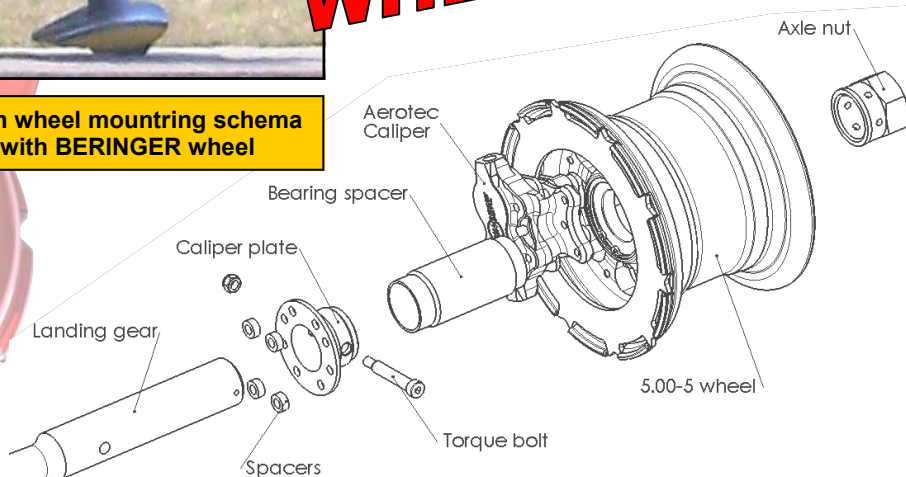


Aircraft Type	DESCRIPTION	Brake fluid	BERINGER® Part#	Price
Van's RV6, 7, 9	Complete package as described above, with Michelin Aviator Tires 5,00-5", 10ply Tubeless and 4 master cylinders	DOT4	SRV01	\$3,875 USD
Van's RV6, 7, 9	Same as SRV01 with only 2 Master cylinders and no parking brake valve	DOT4	SRV06	\$3,219 USD
Van's RV6A, 7A, 9A	Complete package as described above, with Michelin Aviator Tires 5,00-5", 10ply Tubeless and 4 master cylinders	DOT4	SRV02	\$3,875 USD
Van's RV6A, 7A, 9A	Same as SRV02 with only 2 Master cylinders and no parking brake valve	DOT4	SRV05	\$3,219 USD
Van's RV8	Complete package as described above, with Michelin Aviator Tires 5,00-5", 10ply Tubeless and 2 master cylinders	DOT4	SRV03	\$3,249 USD
Van's RV8A	Complete package as described above, with Michelin Aviator tires 5,00-5", 10ply Tubeless and 2 master cylinders	DOT4	SRV04	\$3,321 USD



TUBELESS WHEELS

Main wheel mountring schema with BERINGER wheel



Wheel & brake SET for Lancair 320/360/Legacy & Glasair III p.14

Upgrade your experimental aircraft and save 6 to 10 Lbs with high performances BERINGER® wheels and brakes. These complete wheels and brake sets are designed to mount directly, replacing original equipment. Wheels are aluminum red anodized, fully CNC machined, with O-rings for Tubeless mounting. Brake calipers use sintered metallic pads and stainless steel pistons for increased life time.

The wheel & brake set includes:

- 2 wheels 5" with brake and stainless steel discs
- 2 tires (mounted on rims and pressure tested)
- 2 axles
- 4 master cylinders & 2 fluid reservoirs
- 1 parking brake valve
- 1 anti-lock regulator
- stainless steel brake lines
- detailed mounting procedure.



Aircraft Type	DESCRIPTION	Brake fluid	BERINGER® Part Nr.	Price
Lancair 320/360 (retractable LG)	Complete package as described above, with 4.00-5 wheels and Tires 11x4.00-5", 8ply	DOT4	SLC02	\$3,349 USD
Lancair 320/360 (retractable LG)	Same as SLC02 with only 2 Master cylinders and no parking brake valve	DOT4	SLC04	\$2,706 USD
Lancair legacy (retractable LG)	Complete package as described above, with Michelin Aviator Tires 5,00-5", 10ply Tubeless	DOT4	SLC01	\$3,889 USD
Lancair legacy (retractable LG)	Same as SLC01 with only 2 Master cylinders and no parking brake valve	DOT4	SLC03	\$3,178 USD
Glasair III (retractable LG)	Complete package as described above, with Michelin Aviator Tires 5,00-5", 10ply Tubeless	DOT4	SGL01	\$3,814 USD
Glasair III (retractable LG)	Same as SGL01 with only 2 Master cylinders and no parking brake valve	DOT4	SGL02	\$3,179 USD

TUBELESS WHEELS

BERINGER Wheels and brakes mounted on Race GLASAIR III landing gear



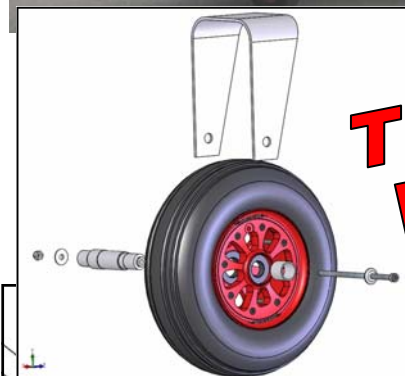
Upgrade your experimental aircraft and save 6 to 10 Lbs with high performances BERINGER® wheels and brakes. These complete wheels and brake sets are designed to mount directly, replacing original equipment. Wheels are aluminum red anodized, fully CNC machined, with O-rings for Tubeless mounting. Brake calipers use sintered metallic pads and stainless steel pistons for increased life time.

The wheel & brake set includes:

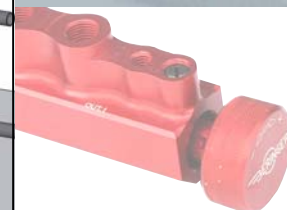
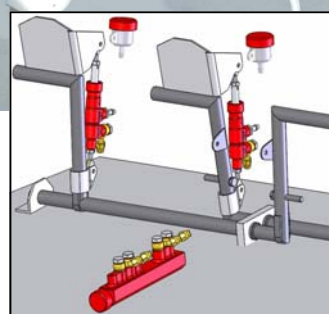
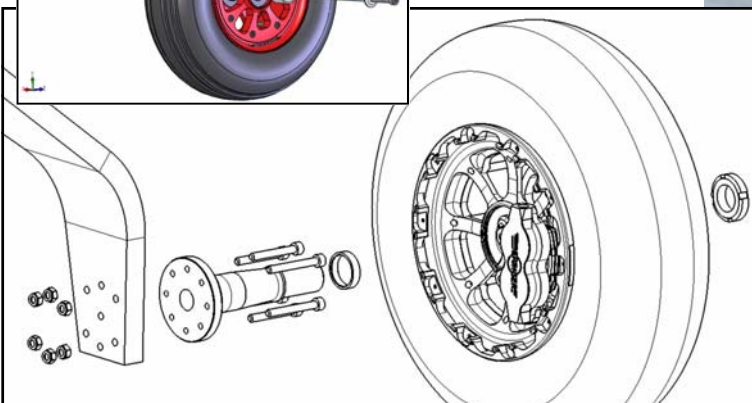
- 2 wheels 5.00-5 with caliper 2P and stainless steel discs
- 2 Michelin Aviator Tires 5,00-5", 10ply Tubeless
- 2 axles
- 4 master cylinders
- 2 fluid reservoirs
- 1 parking brake valve
- 1 anti-lock regulator
- stainless steel brake lines
- detailed mounting procedure.



Aircraft Type	DESCRIPTION	Brake fluid	BERINGER® Part#	Price
Zenair CH601	2 wheels & brake set as described above	DOT4	SZH01	\$3,647 USD
Zenair CH601	Same as SZH01 with only 2 Master cylinders and no parking brake valve	DOT4	SZH04	\$2,989 USD
Jabiru J400/J430	2 wheels & brake set as described above only 2 master cylinders and no parking brake valve	DOT4	SJU01	\$3,174 USD
Jabiru J170	2 wheels & brake set as described above with only 2 master cylinders and no parking brake valve	DOT4	SJU02	\$3,064 USD



**TUBELESS
WHEELS**



Stainless steel DISC

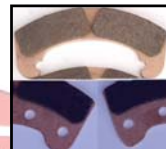
- In stainless. Steel with specific heat treatment and grinding
- Floating mount in order to absorb dilatations and deformations when heated
- For 5" and 6" light wheel: 6" **part # ZJA01** for 6" wheel : 7" **part# ZJA02**



PADS

- Friction material: sintered metal
- High coefficient of friction
- Very long life time
- Withstand very high temperatures : 1100°F

PATENTED



USE ONLY
DOT 4
OR BERINGER
BRAKE FLUID

REPAIR KITS

Repair kits are available for BERINGER® parts:

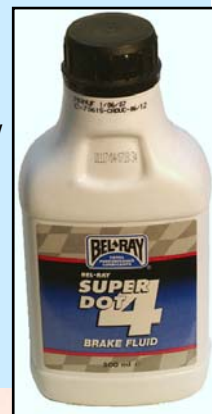
- Hand master cylinder **part# KAA01**
- Rudder pedal master cylinder **part# KAB01**
- 2 piston caliper **part# KBA01**
- 3 piston caliper **part# KBA02**



DOT4 brake fluid

High performance DOT4 brake fluid with dry boiling point at 440°F minimum meets FMVSS 116/DOT4 specifications.

DOT4 is yellow colored and it is not compatible with brake system designed for mineral base fluids.



SPARE CLIPS

Stainless steel clips between wheel rim and disc.
Includes: 10 left and 10 right (set for 1 wheel), procedure



FLUID RESERVOIR

Lightweight translucent plastic reservoir with aluminum anodized cover and brake fluid level indication. No leakage of fluid with flexible diaphragm. Use only DOT4 brake fluid in this reservoir.

Working capacity: 0.3 cu in, total capacity: 0.67 cu



Part#	DESCRIPTION	Price
DSC-001	Stainless steel brake disc for Aerotec caliper 3P EA-02	\$149 USD
DSC-005	Stainless steel brake disc for reinforced Aerotec caliper 2P EA-03	\$89 USD
DSC-006	Stainless steel brake disc for Aerotec caliper 2P EA-01	\$79 USD
ZEA01	OEM pads for BERINGER® 2 piston caliper EA-01 and EA-03 (incl. 2 pads for 1 caliper, screws & procedure)	\$69 USD
ZEB01	OEM pads for BERINGER® 3 piston caliper EA-02 (incl. 2 pads for 1 caliper, screws & procedure)	\$87 USD
KCA01	Spare CLIPS for one 5" wheel (10 left and 10 right)	\$39 USD
KCA02	Spare CLIPS for one 6" Light wheel (10 pieces)	\$39 USD
HJA01	High performance Brake fluid DOT4	\$39 USD
HJA02	High performance Brake fluid DOT5 Silicone base (longer life time). Do not mix with DOT4.	\$45 USD
HFA01	Reservoir kit for BERINGER master cylinders (Incl. 1 reservoir, EPDM hose 1.5 ft, stainless steel clamp)	\$65 USD
KAB01	Repair kit for rudder pedal master cylinder HBA01: all piston seals, specific grease, ball bearings, copper seals, instructions	\$128 USD
KBA01	Repair kit for 2 piston caliper EA-01 and EA-03: piston seals, pistons, specific grease, copper washer	\$84 USD
KBA02	Repair kit for 3 piston caliper EA-02: piston seals, pistons, specific grease, copper washer	\$108 USD
KDF01	O-rings to be replaced at each tyre changing for 5" wheel (set for one wheel)	\$14 USD
KDF02	O-rings to be replaced at each tyre changing for 6" and 6" light wheel (set for one wheel)	\$14 USD
ZPA01	Stainless steel safety lock wire (roll of 1Lbs)	\$29 USD



WHEELS & BRAKES

High performances for aircraft

BERINGER SA

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France

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Email: contact@beringer.fr

Website: www.beringer.fr

01/07/2008

BRAKE LINE ORDER FORM

Date:.....Your Customer#:.....P.O.:.....

Type of aircraft:.....

Bill to Name:..... **Ship to** Name:.....

Address:..... Address:.....

City/Zip Code:..... City/Zip Code:.....

Country:..... Country:.....

HOME PHONE: (.....).....-..... WORK PHONE: (.....).....-.....

METHOD OF PAYMENT

e-mail: Fax:

☐ Visa ☐ MasterCard Card number:

Expiration date (MM/DD/YYYY):..... Cardholder's name:.....

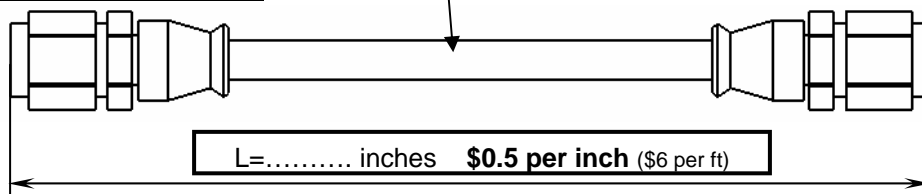
3 Numbers:..... Cardholder's signature:.....

Straight fitting, female concave seat (stainless)		
* HEA08	7/16x20	\$49
* HEA09	3/8x24	\$35

HDB01 Stainless steel

Straight fitting, female concave seat (stainless)		
* HEA08	7/16x20	\$49
* HEA09	3/8x24	\$35

Brake line #1	Price
1 st fitting	\$.....USD
2 nd fitting	\$.....USD
Hose	\$.....USD
Mounting and testing	\$ 15 USD
Total 1	\$.....USD

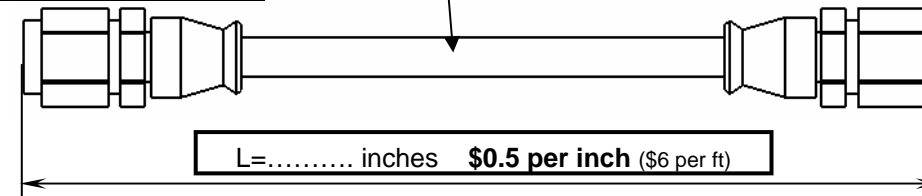


Straight fitting, female concave seat (stainless)		
* HEA08	7/16x20	\$49
* HEA09	3/8x24	\$35

HDB01 Stainless steel hose, teflon inner tube

Straight fitting, female concave seat (stainless)		
* HEA08	7/16x20	\$49
* HEA09	3/8x24	\$35

Brake line #2	Price
1 st fitting	\$.....USD
2 nd fitting	\$.....USD
Hose	\$.....USD
Mounting and testing	\$ 15 USD
Total 2	\$.....USD



BERINGER Brake hose is stainless steel braided with PTFE inner tube and stainless fittings. It provides consistent brake pedal pressure without spongy feeling. The flexibility allows landing gear leg movements and avoids leakage that appears with hardline tube.

Ends are straight fittings, female concave seat: 7/16x20 or 3/8x24 (stainless steel).

- Max pressure allowed: 3000 PSI
- Each brake line is pressure tested and delivered with certificate.

Brake line #	Unit price	Qty	Price
1	\$.....USD		\$.....USD
2	\$.....USD		\$.....USD
Order total			\$.....USD
Sales tax			\$.....USD
Estimated postage			\$.....USD
Amt. Applied to previous balance			\$.....USD
Amount enclosed			\$.....USD

* Delete as appropriate