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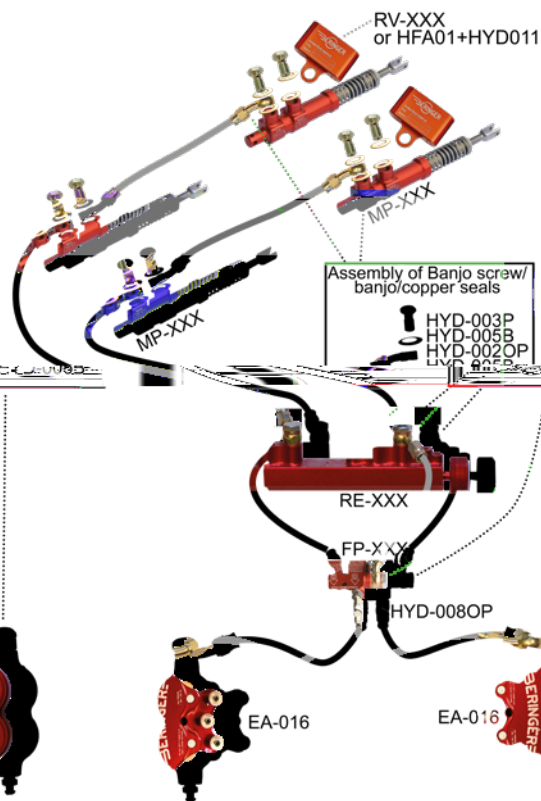
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Technology

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Differential braking circuit including the ALIR anti-lock and in-line braking



This configuration can be modified depending on the aircraft

Adjustable anti-lock pressure regulator ALIR

- Adjustable from 10 to 40 bar (or from 20 to 50 bar)
- Available for DOT4 or Minéral (MIL) brake fluid
- 2x inlets, 2x outlets (M10x1)
- Precise adjustment with low hysteresis
- CNC machined from billet aluminum
- Red anodized

Note :

Dual regulators are mounted in a differential braking circuit (each braker master cylinder actuates one wheel).

Single regulator are mounted in a symmetrical braking circuit (one master cylinder actuates both wheels).

Caution : You must never mix the brake fluid : seals are different

Regulator ALIR P/N	Description	Weight oz g		Brake fluid
RE-001E	Dual Regulator ALIR 10 - 40 bar	11.64	330	DOT4
RE-001N	Dual Regulator ALIR 20 - 50 bar	11.64	330	MIL
RE-002E	Single Regulator ALIR 10 - 40 bar	6.73	191	DOT4
RE-002N	Single Regulator ALIR 10 - 40 bar	6.73	191	MIL
RE-002.1N	Single Regulator ALIR 10 - 40 bar			MIL
RE-002.3N	Single Regulator ALIR 20 - 50 bar			MIL
AV-VANS-006	Fitting plate	-	-	-

Brake fluid indication

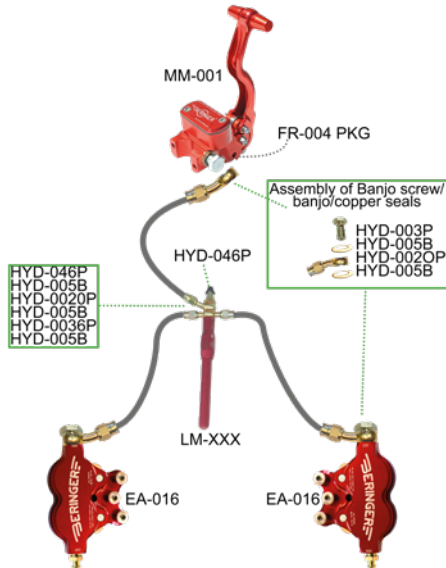
XX-XXXE



XX-XXXN



Ultralight Pressure Limiter



Non-adjustable pressure limiter for symmetrical braking

Its main feature is the anti-lock : the system reduces the ratio amount of pressure put in the system by the pilot / amount of pressure received at the brake.

Very useful at landing, it helps to prevent the wheel lock up and the nose over for taildraggers, in case of over-pressure on the master cylinder.

Therefore it reduces the stopping distances.

The limiter is included in most of the BERINGER Kits featuring a single braking circuit (symmetrical braking).

The pressure setpoint is fixed for each model. You can choose different models depending on the airplane MTOW, the tire diameter, braking torque,

They are available for DOT4 or MIL brake fluid.

Caution : You must never mix the brake fluid : seals are different

Pressure limiters

- Several types from 20 to 60 bar
- Available for DOT4 or MINERAL (MIL) brake fluid
- Connexion M10x1
- CNC machined from billet. Optimized for a long life, the body is red anodized.

Limitier ALIR P/N	Description	Weight oz	g	Brake fluid
LM-001	Ultralight pressure limiter 20 bar	2.40	68	DOT4 / MIL
LM-002	Ultralight pressure limiter 25 bar	2.43	69	DOT4 / MIL
LM-003	Ultralight pressure limiter 35 bar	2.47	70	DOT4 / MIL
LM-004	Ultralight pressure limiter 45 bar	2.50	71	DOT4 / MIL
LM-005	Ultralight pressure limiter 60 bar	2.54	72	DOT4 / MIL



Brake fluid indication

XX-XXXE

XX-XXXN


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Parking Brake Valve

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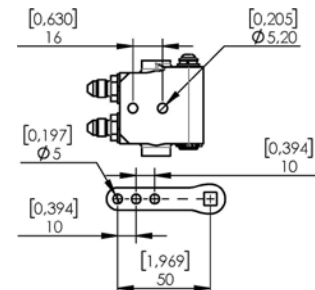
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Parking Brake Valve

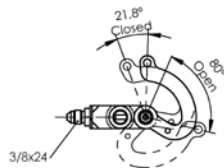
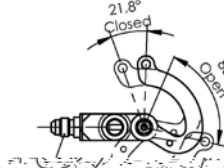
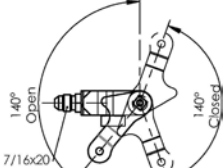
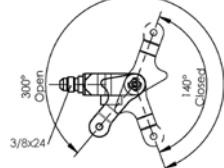
Open/close quarter turn lever operated
Max. input pressure: 1500PSI (100 bars)
CNC machined from billet. Optimized for a long life, the body is red anodized and the components made of stainless steel.
Available for DOT4 or MINERAL (MIL) brake fluid and delivered with hydraulic fittings.

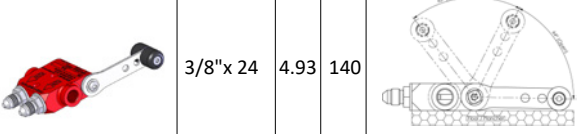
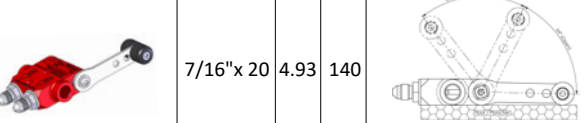
Remark : The parking brake valve is designed to be operated with a push-pull button and a cable except FP-005.1 and FP-005.2

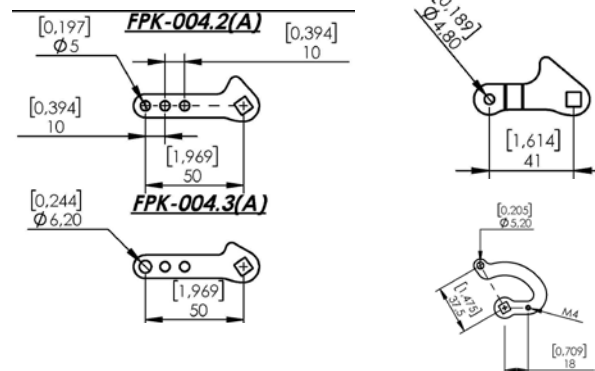


Park. valve P/N	Output	Weight oz	g	
FP-001	3/8"x 24	4.52	128	
FP-003.2	7/16"x 20	4.73	134	

Park. valve P/N	Output	Weight oz	g	
FP-001.2	7/16"x 20	4.67	132	
FP-001.3	3/8"x 24	4.53	128	

Park. Valve P/N	Output	Weight oz g		
FP-002	3/8"x 24	4.69	133	
FP-002.1	7/16"x 20	4.69	133	
FP-003	7/16"x 20	4.8	136	
FP-003.1	3/8"x 24	4.8	136	

Parking Valve P/N	Output	Weight oz g		
FP-005.1	3/8"x 24	4.93	140	
FP-005.2	7/16"x 20	4.93	140	



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Brake lines – Hydraulic fittings

The BERINGER brake line is stainless steel braided.

Thanks to its resistance to high pressures, it brings a strong braking feeling (not spongy).

Flexible, it follows the gear leg and prevents against leaks.

Max pressure 3000 psi – burst pressure 9000 psi

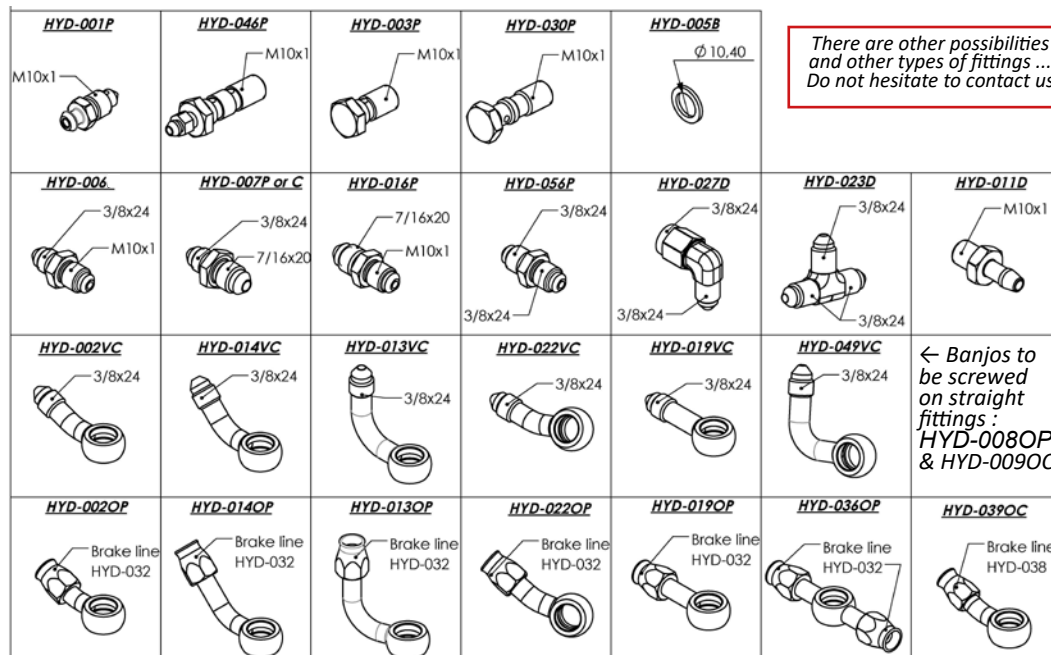
Note : these brake lines and banjo fittings are included in most of the wheel and brake kits.

Bleeding screws
Banjo screws
Seal →

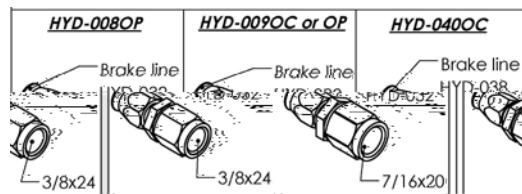
Adapters →

Banjos to
screw →

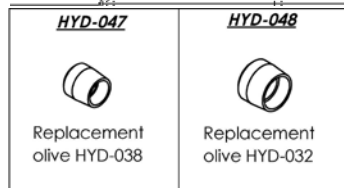
Olive Banjos →

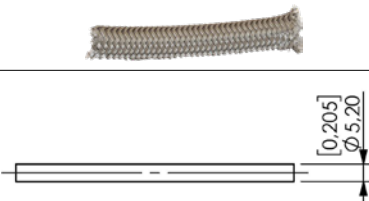
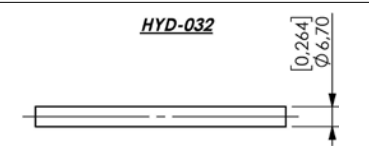
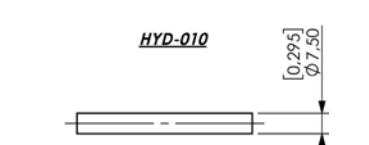


Female fittings →



Olives →



Brake line P/N	Description
HYD-038	
HYD-032	
HYD-010 + plastic braided	



→ [How to assemble brake lines and fittings](#)



→ [How to bleed your brakes](#)

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Spare parts : wheel O'ring - Valves

Please refer to the maintenance manual MM-02-001 on our website :

Caution : seals are available for old wheel P/N. Please contact us.

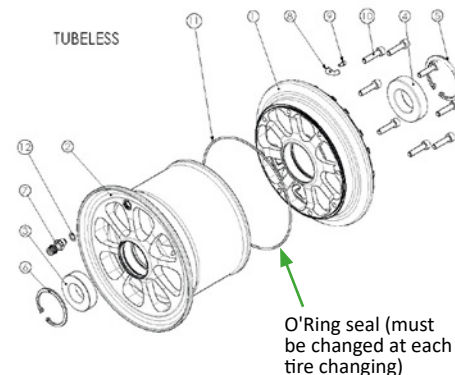
Wheels in 3 parts : please contact us



→ [How to remove a tubeless tire](#)



→ [How to mount a tubeless tire](#)



Spares parts : Brake discs / Brake pads

Please refer to the maintenance manual MM-01-001 on our website

Remark : the quantity of disc and pad per braking caliper is indicated the part numbers P/N are indicated on all parts



→ [How to change brake pads](#)



→ [How to do the maintenance of a caliper](#)

Brake pads



Brake disc



Silicon grease
P/N Q-CS-003
for piston seal

