



B **Bonalume**SM

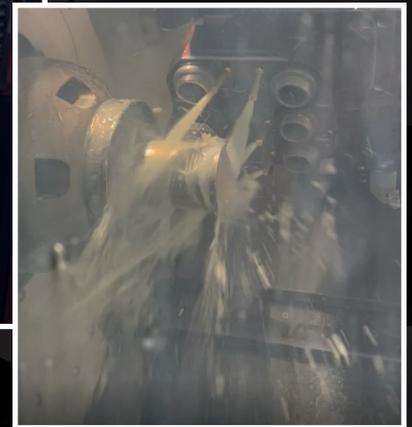
tuning accessories

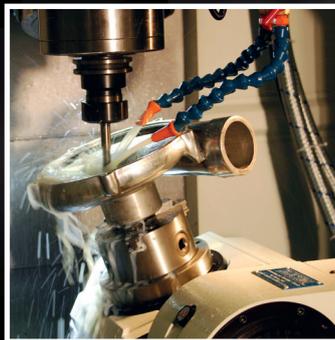
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EN/

BONALUME car repair since 1980





Since 1980 we have been working to design, manufacture and distribute all car components that replace the original ones, with the aim of improving the safety performance of the car.

We completely reproject the original piece by creating a perfectly compatible Plug-and-Play replacement, but of a much higher level. The finished product does not need to be replaced often, as is the case for many parts used in the field of processing.

We aim to look for an improved performance by containing the costs slightly higher than the original one, so that it is amortized by the durability of the product itself.

Thanks to the high-precision machines and of latest generation, and to expertise acquired over the years and also due to continuous technical and mechanical updates, we produce every part, within our structure without any external support.

This allows us to have complete control on the manufacturing cycle.

All our items are marked and numbered so that they are completely traceable.

All products are tested and installed before and after the sale, continuously verified through tests and state-of the art tools.

Thanks to the use of our Plug-and-Play products, we optimize the installation and adjustment times to the maximum, with the certainty that in case of assistance interventions our staff are aware of every little feature of the products, since it was created, developed and installed within our car workshop.



ELECTRONIC POP OFF



PNEUMATIC POP OFF



TURBINE VALVE SPACERS



TURBINE PRESSURE REGULATORS



FLUE PRESSURE REGULATORS



GEAR LEVERS



DRIVE SHAFT SUPPORT



WASTE GATE



MINI CATALYTIC CONVERTERS

High performance quality

E1R: valve POP-OFF for high temperatures

POP-OFF valve, that allows high performance and let us be able to push ourselves in the preparation of the car, beyond the limit of the classic one.

This high-performance valve allows you to handle engines with many horsepower, with compressions and highest temperatures. It manages engines up to 400 hp with a supercharging pressure beyond 2.5 bar.

The components used for parts subjected to stress due to high temperatures, allows it to work constantly at 280 °C with peaks up to 320°C.

The input air capacity is the same as normal version, that is oversized, and the mechanical and electrical connections always remain the same, completely Plug-and-Play.



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ES1

E1 SWITCH

Electronic POP-OFF valves

The need to design and manufacture this valve did not arise from the mere request for a Racing product, but rather from the actual problem that this valve creates, at the beginning installed as standard in all Tjet engines by Abarth group, Fiat, Alfa and Lancia.

This one, being a membrane, does not withstand the high peaks of pressure and temperature to which it is subjected, with the consequent breakage of the same and, at the same time, compromising the yield of the engine both in acceleration and at full speed (power drops during acceleration). Some problems also occur in presence of perfect membrane and with higher turbine pressures (after programming the control unit).

By developing the project and feeling the needs of the various customers, we have inserted a possibility , for same customers, to be able to choose between three types of air discharge (open-close-switch); therefore, at the time of purchase, you will be able to decide the desired and most suitable configuration.



The specifications of the valve are very high, in addition to being totally Plug-and-Play, in both mechanical and electrical and electronic parts, it has got highest performance characteristics compared to the original product, assembled as standard:

- No closing membrane but thermopolymer and thermoplastic piston suitable for highest temperatures and performances (beyond 270°C, therefore no chance for breaking);
- Low consumption and ultra-high efficiency electromagnet (20% reduced opening and closing times);
- Guaranteed and tested operation at 3 bar with 170°C incoming air temperature;
- Fully automotive aluminum at a very low lead content and anodized.
- It can be turned at 360° on the support bracket for better positioning during installation;
- IP67 airtight seal of the electrical connector and valve/solenoid casing;
- Black colouring like the original;
- Possibility and ease of installation also by the user customer as it is Plug-and-Play;
- Available for all the Tjet engines of the Abarth, Fiat, Alfa and Lancia group;
- 2 years warranty for all its parts.

designed for: GPA Abarth / 595 Abarth



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PCN: system for external air exhaust on original valve

Product born from the many request that have come to us, from our customers. Conceived and designed in detail to meet their needs for cars by Abarth, Fiat, Alfa and Lancia group.

Designing it, we took care to fully fulfil the functions for which it was designed/created, and we took care of both technical and aesthetic details. It can be mounted and replaced Plug-and-Play, directly form the customer.

At a very low price that rewards us and our professionalism and, at the same time, satisfies our customers both from the point of view of technical and economic details.

designed for: Tjet Abarth / Alfa / Fiat / Lancia

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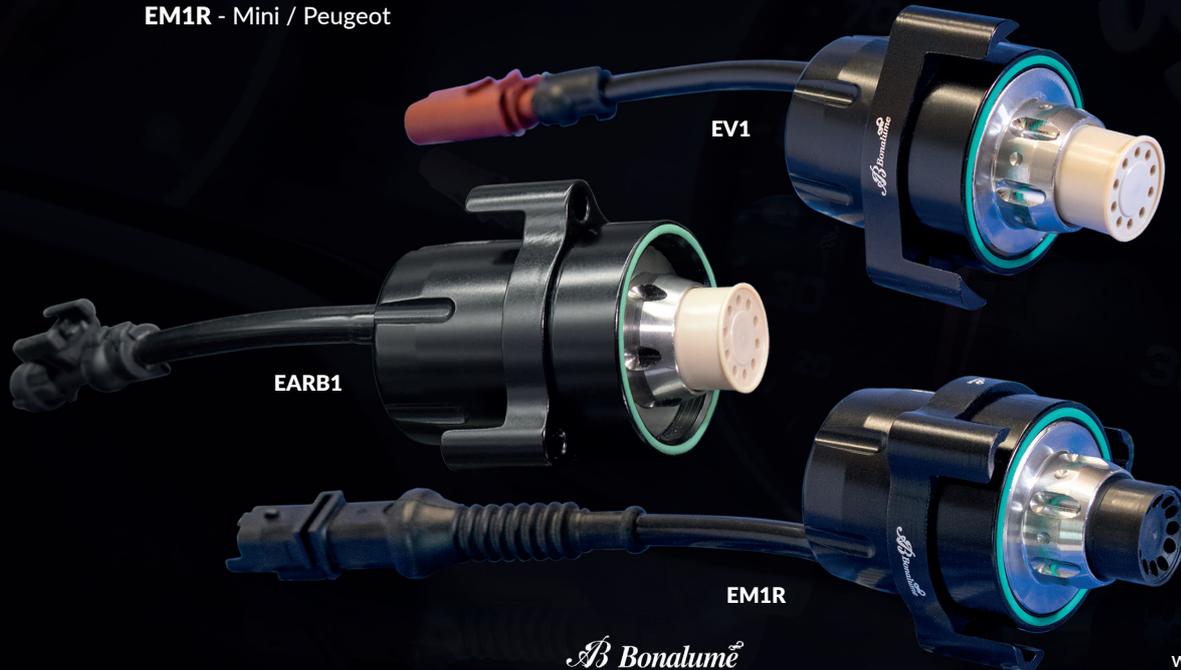
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POP-OFF electric valves

High performance valves and can withstand at very high temperatures. Due to their characteristics, they are suitable for use in race and on the track, where high temperatures would damage the standard ones. No membrane is subject to wear and breakage, no modification for installation. Electrical and mechanical connections are same as the original standard, tested at 3 bar and 200°C. Electrically powered and exactly as the standard original, it is perfectly capable of managing, even very fast automatic gearbox change times; no delay trouble about response. Opening and closing speed about 40% faster, than the standard original.

designed for: **EV1** - Audi / Seat / Skoda / Volkswagen
EARB1 - Motori multiair
EM1R - Mini / Peugeot



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POP-OFF electric valves

designed for:

EVAMG - Mercedes AMG
EFM1 - Mustang

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Turbine valve spacers

Spacers to be interposing between valve by-pass and turbine, designed to allow hot air to be discharged to the outside, by producing the classical sound so loved by motor enthusiasts.

Available for 70% of the circulating car fleet.

Available in an adjustable ON-OFF version.

designed for:

PPMAIR - Motori multiair

PPFSI - Volkswagen / Seat / Audi / Skoda

PPFG8 - Volkswagen Golf 8



PPMAIR



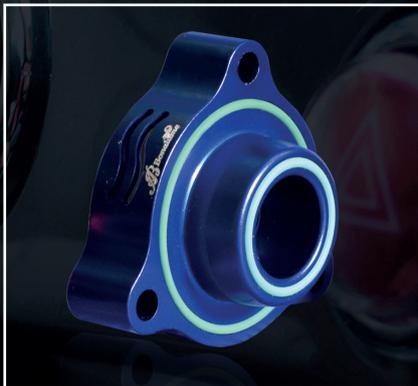
PPFSI 23



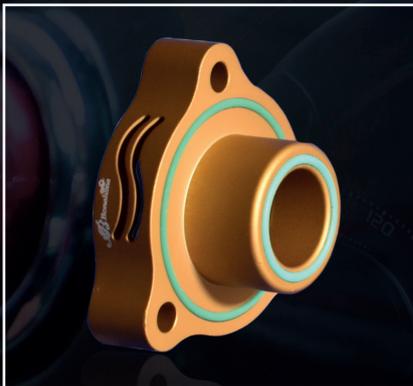
PPFG8

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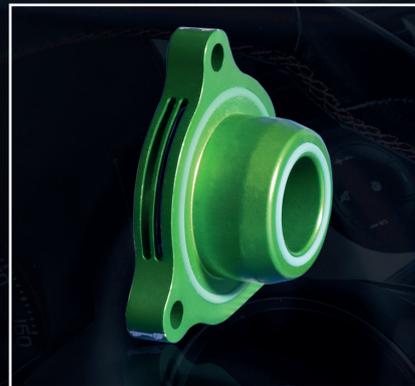
Turbine valve spacers



PPMF



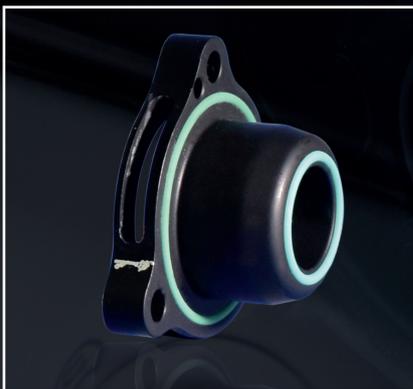
PPFM



P220



P453



PPFSI 9



2PPFSIQ

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B1EVON / S1: pneumatic valves

External (S1) and internal (B1EVON) exhaust valves, both useable in 90% of the historic cars fleet and in 30% on new generation cars. These valves are designed and manufactured by us and no longer use the membrane but pistons. The S1 external discharge version uses two pistons and does not require any adjustment and does not create any problem on the minimum management.



S1



B1EVON

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Gear levers with close travel ratio

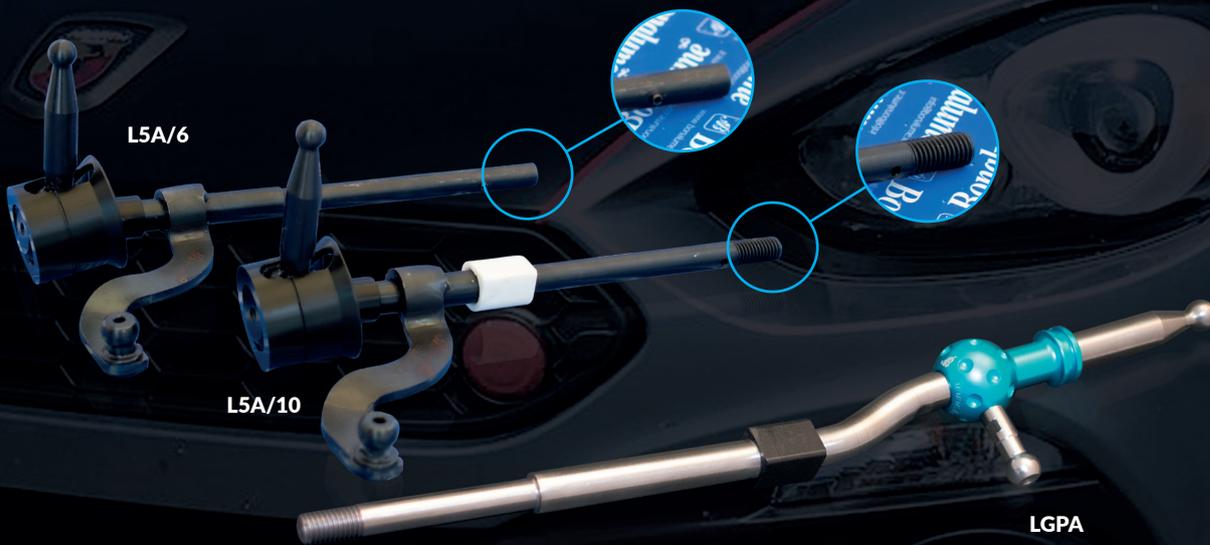
A problem that inflicts a lot of car models with a strong sporting vocation is the long excursion (maximum permitted displacement) of gear lever in the gear engagement.

Times of change between one gear and another one, are longer and more laborious than what is needed.

To optimize the times and minimize the movement, we have developed these geared levers that, without any transformation, make it possible to overcome the inconvenience by making the connections fast and precise reducing both vertical and horizontal excursion at 28%.

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Gear levers with close travel ratio



LP

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HKSL / HKSLE6: mini catalysts

After eliminating, emptied or replacing the standard catalyst with a sports one, we may realize indicator of "pollution anomaly" light on. In this case, it will be enough to apply on the second lambda probe, just one of two mini catalysts , that have the task of catalysing only the gases arriving at the second lambda probe.

The HKSL model is dedicated to EURO 5 version cars, while the HKSLE6 model is dedicate to EURO 6 version cars and subsequent models.

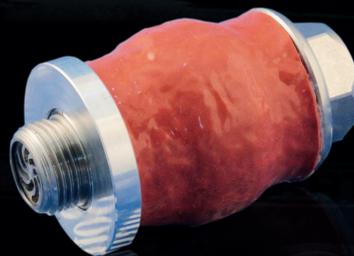
Both of them are using male/female threads, identical to the standard original ones.

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HKSL



KSLHE6

Serie RPB: flue pressure regulators

Carburization is the first cause of power failure and/or breakage of supercharged engines.

The application of an external regulator always involves the installation of additional pipes loaded with pressurized petrol, with the consequent risks and high costs. To avoid these risks (and reduce costs) we have designed a series of products that regulate the pressure of gasoline, Plug-and-Play regulators, that replace the standard originals with the ability to adjust the fuel supply pressure.

Our gasoline pressure regulators are of two types: the first one, adjustable, uses an increment ratio 1/1 such as the original version; the second one, also adjustable, uses an increment ratio equal to 1/1,4; this means that 1 bar of a turbine pressure inlet in the regulator, will not result in an increase of 1 bar in gasoline pressure but 1,4 bar, allowing us to keep a slightly dry carburization at low speeds and then increase it, as the overload pressure rises, leading us towards safe and high-performance carburizations.

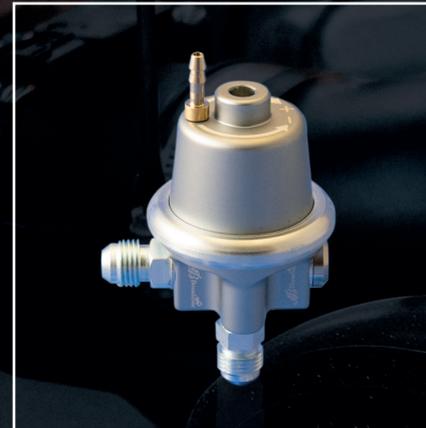
RPB



RPB FAL 1



RPB FAL 1 AERO



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Serie RPB: flue pressure regulators

R PBG



R PB S



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R PB UG 1300



R PB U 1300



WASTE GATE

Sometimes you find yourself in a position to not being able to achieve the set goal of the overfeed pressure, simply because the Waste Gate can't stand the counter pressures to which we have subjected it , or for other reasons known to insiders.

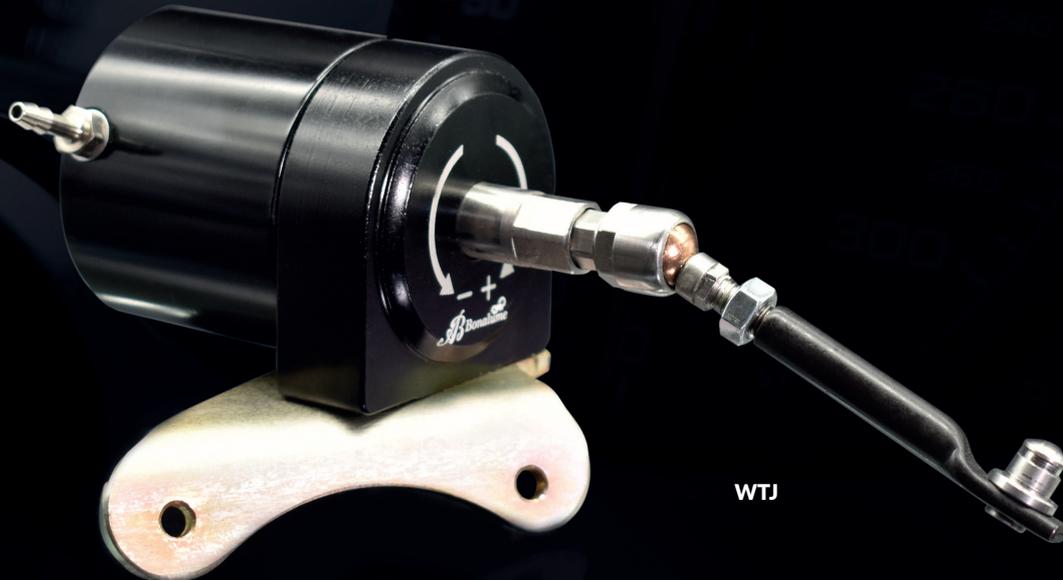
For these cases, we have specially designed and created three types of Waste Gate.

They were all realized with the possibility of external sealing spring adjustment, that allows you to fully control and manage the supercharging pressure.

All Waste Gate have the thread pitch and the fastening system identical to the original version.

Bonalume car workshop designs, manufactures, and installs Waste Gate valves for 90% of the circulating cars fleet.

For your every request, please contact us ; we will be ready to recommend the optimal and most efficient solution to meet your needs.



WTJ

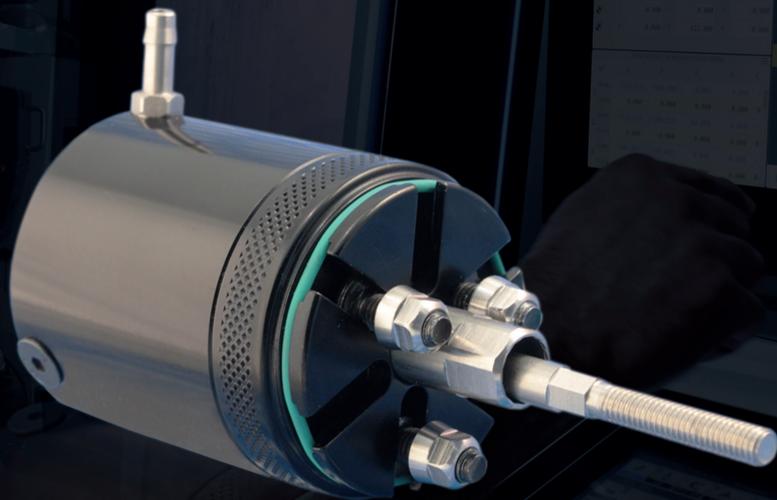
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WASTE GATE

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WG1446

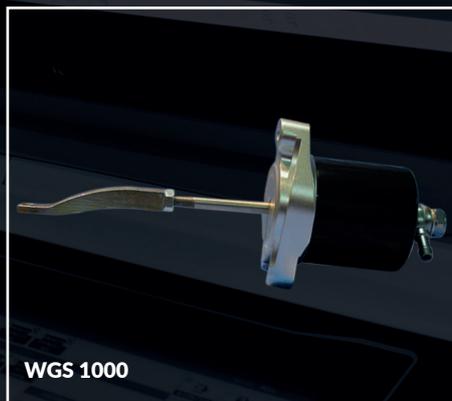
WASTE GATE



WGS



WGCD



WGS 1000

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RPT: turbine pressure regulator

Product designed and studied to increase and adjust the turbine pressure.

To increase the pressure, it will be enough to hold the blue part and rotate the red part, clockwise.

The red part contains a rotate tube holder that allows the tube not to be dragged during the adjustment phase, preventing it from working as an antagonist on the rotation made.

To decrease the pressure, it will be enough to rotate in the opposite direction (anticlockwise).

At this stage there is an end of labour.

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RPT

SAT / SAT-Racing: drive shaft support

Support specially designed and created for Integral Lancia Delta, 4WD, Evolution and Integral Dedra.

The rigidity of road version is identical to that of the standard one. The Racing version can withstand high and very violent twisting, to withstand continuous stresses and high temperatures beyond the 170°C.

The Racing version is 30% stiffer than the road version.

This particular feature, allows its use on cars engaged in races of all kinds, in all adverse weather conditions and with engines well beyond normal standard power more than doubled torque values.

Extreme weather conditions, on both road and track, and time (years of use), are the main reasons that lead to the deterioration of the original support.

The two versions of the drive shaft support, designed and manufactured by us, for their particular conformation allow the replacement of only the elastic pads or bearing, i.e. those parts subjected to higher wear stress.



SAT

SAT-Racing

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VPGT: aluminum flywheel for PUNTO GT

The aluminum flywheel Bonalume for Punto GT, also thanks to the material with which it was designed and studied, has a reduced weight of 45% compared to the original as standard, and the external inertial mass is reduced by 60% with support track and clutch work in steel.

The fixing of the track does not present holes outside, on the front, which can reduce the support surface of the disc in creating heat points on the surfaces that delimit the screws in the sub-plane, or created significant evolutions in presence of sintered clutches.

The track is secured by six threaded screws, in the same steel track.

The ante rotation is ensured by three chrome steel plugs, inserted between the aluminum part and the steel one (not visible from the outside), phase sign reported as standard original.

Balancing together with the starting crown and the clutch disc pusher is recommended, although the theory recommends doing everything, together with the crankshaft.

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VPGT



I20N: electric valve EH-Switch

High performances valves, capable of withstanding very high temperatures. For their own features, they are suitable for use in track races, where high temperatures would damage the standard ones.

No membrane prone to wear or breakage, no modification for installation. Electrical and mechanical coupling identical to original standard, tested at 3 bar and 200°C.

Unlike the original valve, piloted by solenoid valve with the task of switching two air passage pressures and controlled in turn by an electrical signal (with very long opening and closing times) our valve only uses the electrical signal to open and close.

This is to achieve a time reduction of more than 70%, that provides an immediate air exhaust gain and unparalleled sound.

In addition to that, it has got a sudden close, with the resulting faster response of the accelerator.

designed for: Hyundai



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I20N

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B Bonalume
tuning accessories



Car repair **BONALUME** guarantees its products for **2 YEARS** from the date of manufacture.

The warranty covers all possible manufacturing defects.

The warranty does not cover any defects and / or damage caused by incorrect use or installation and / or not in accordance with the intended use.

The warranty is totally void if the products are tampered with.

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