

BRISK RACING SILVER SPARK PLUGS

BRISK Silver spark plugs have special shape of spark gap which enables easier access of gases to flashover. The silver center electrode has a small diameter and electrode gap 0,55 mm, 0,7 mm and 0,9 mm. The voltage demand of the spark plug is considerably reduced by the silver centre electrode which has a small diameter along with reduced ground electrode.



LPG combustion has its unique problems. A lot of scientific studies proved already that the use of LPG as alternative fuel for internal combustion engines is advantageous from several points of view. The most important fact is, that engines which use LPG as fuel produce exhaust which is more environmentally friendly than exhaust produced by engines which combust petrol or diesel. At LPG combustion it is generated by 10% up to 25% less of carbon monoxide than at petrol combustion. Nevertheless carbon monoxide has a substantial effect on global warming.

With the view to ecology of operations the user are able to calculate the advantages of lower operating costs. LPG combustion has its unique problems, too. More difficult ignitability owing to inhomogeneous gas mixture in combustion chamber is one of them. Increased demand on ignition system voltage and more difficult starting-ability at low temperatures is the consequence. The spark plugs BRISK Silver which are designed specially for gas ignition in LPG-driven engines help to eliminate these problems.

Key Benefits and Applications

- Silver is the best Electric and Heat Conductor
- Superior Ignition Ability Increases Engine Power
- Lower Required Supplied Ignition Voltage
- Good Resistance to Fouling and Easier Starts
- Race Engines and Engines with Hard to Ignite Fuels
- Supercharged / Turbocharged / Nitrous engines
- Excellent for Total Loss Ignition Systems

- Excellent for High Mileage Vehicles

BRISK SILVER RACING SPARK PLUG Low Required Supplied Ignition Voltage – is achieved by utilization of optimized diameter Silver center electrode, along with tapered ground electrode. Silver is the best thermal and electrical conductor of all metals and provides far superior electron flow for best possible spark plug spark delivery. This spark plug feature is beneficial in forced induction applications, or applications where the ignition system is pushed to the limit in modified power applications, and applications with hard to ignite fuels such as alcohol, LPG, Nitromethane and other. Brisk Silver Racing Spark Plug Lower Required Supplied Ignition Voltage is also beneficial for easier cold starts and operation under partially fouled spark plug condition caused by A/F management problems, oil consumption and other. Small diameter of the spark plug center electrode allows for thicker ceramic insulator walls and increased distance between the spark plug center electrode and spark plug shell walls. Increased spark plug center el. to spark plug shell distance, and spark plug special thick design insulator provides exceptional spark plug dielectric strength, and keeps the spark plug from dielectric break down in the most extreme working environments.

BRISK SILVER RACING SPARK PLUGS – Technical information

Materials

Silver is the best thermal (heat) conductor of all metals

Allows for a wide spark plug heat range

Excellent heat dissipation under max. power

Excellent resistance to fouling under light load operation

Silver is the best electrical conductor of all metals

Most free electrons

Best power delivery

Most powerfull spark

Construction

1.5 mm Silver Fine Wire Center Electrode

Low ignition voltage requirements (easier for spark to jump over)

Reduces stress and wear on your coil and other ignition components

Fires properly even if partially fouled, where standard plugs will fail

Excellent for:

Standard and High compression engines

Forced induction applications

Nitrous applications

Methanol/ethanol injection

LPG

Any hard to ignite type of fuel applications

High RPM race engines where is a short time for the ignition coil

saturation

Beneficial even for old vehicles with a weak ignition systems and/or

excessive oil consumption

Tapered or Cut-Back Ground Electrode

Provides sharp edges for easy spark discharge

Excellent spark exposure to the air/fuel mixture

Faster flame front propagation in the initial stages of ignition due to reduced ground electrode obstruction

High dielectric strength

Fine wire center electrode (not just tip) increases the thickness of insulator between the center electrode and the spark plug shell for higher mechanical and dielectric strength.

Properties of Materials

| Material | Thermal Conductivity W/(m•K) | Electrical Conductivity MS/m |
|----------|---------------------------------|---------------------------------|
| Silver | 407 | 66 |
| Copper | 384 | 57 |
| Gold | 310 | 45 |
| Iridium | 147 | 18 |
| Platinum | 70 | 10 |
| Nickel | 59 | 10 |

| PART NUMBER | ELECTRODE GAP | PLUG SEAT | HEX SIZE | THREAD REACH | THREAD DIAMETER |
|-------------|------------------|-----------|--------------|---------------|--------------------|
| 1BR12S | 0.55 mm | GASKET | 16mm (5/8") | 15 mm (9/16") | 12 mm x 1.25 |
| A08S | 0.7 mm | GASKET | 16 mm (5/8") | 19 mm (3/4") | 10 mm x 1.00 |
| A10S | 0.7 mm | GASKET | 16 mm (5/8") | 19mm (3/4") | 10 mm x 1.00 |
| AR08S | 0.7 mm | GASKET | 16 mm (5/8") | 19 mm (3/4") | 10 mm x 1.00 |
| AR10S | 0.7 mm | GASKET | 16 mm (5/8") | 19 mm (3/4") | 10 mm x 1.00 |
| A12YS | 0.7 mm | GASKET | 16 mm (5/8") | 19 mm (3/4") | 10 mm x 1.00 |
| AR12YS | 0.7 mm | GASKET | 16mm (5/8") | 19 mm (3/4") | 10 mm x 1.00 |
| AR14YS | 0.7 mm | GASKET | 16mm (5/8") | 19 mm (3/4") | 10 mm x 1.00 |
| A14YS | 0.7 mm | GASKET | 16 mm (5/8") | 19 mm (3/4") | 10 mm x 1.00 |
| B08S | 0.7 mm | GASKET | 16 mm (5/8") | 19 mm (3/4") | 10 mm x 1.00 |
| B10S | 0.7 mm | GASKET | 16 mm (5/8") | 19 mm (3/4") | 12 mm x 1.25 |

| PART NUMBER | ELECTRODE GAP | PLUG SEAT | HEX SIZE | THREAD REACH | THREAD DIAMETER |
|-------------|---------------|-----------|---------------|-------------------|-----------------|
| B12S | 0.7 mm | GASKET | 16 mm (5/8") | 19 mm (3/4") | 12 mm x 1.25 |
| B14S | 0.7 mm | GASKET | 16 mm (5/8") | 19 mm (3/4") | 12 mm x 1.25 |
| BR10S | 0.7 mm | GASKET | 16 mm (5/8") | 19 mm (3/4") | 12 mm x 1.25 |
| BR12S | 0.7 mm | GASKET | 16 mm (5/8") | 19 mm (3/4") | 12 mm x 1.25 |
| BR14S | 0.7 mm | GASKET | 16mm (5/8") | 19 mm (3/4") | 12 mm x 1.25 |
| BR10YS | 0.7 mm | GASKET | 16 mm (5/8") | 19 mm (3/4") | 12 mm x 1.25 |
| BR10YS-9 | 0.9 mm | GASKET | 16 mm (5/8") | 19 mm (3/4") | 12 mm x 1.25 |
| BR14YS | 0.7 mm | GASKET | 16mm (5/8") | 19 mm (3/4") | 12 mm x 1.25 |
| CR10YS | 0.7 mm | GASKET | 14 mm (9/16") | 26.5 mm (1 1/16") | 10 mm x 1.00 |
| D08S | 0.7 mm | GASKET | 16 mm (5/8") | 19 mm (3/4") | 14 mm x 1.25 |
| D10S | 0.7 mm | GASKET | 16 mm (5/8") | 19 mm (3/4") | 14 mm x 1.25 |
| D12S | 0.7 mm | GASKET | 16 mm (5/8") | 19 mm (3/4") | 14 mm x 1.25 |
| DOR15YS | 0.7 mm | GASKET | 16mm (5/8") | 19 mm (3/4") | 14 mm x 1.25 |
| DOR15YS-1 | 1.0 mm | GASKET | 16mm (5/8") | 21 mm (13/16") | 14 mm x 1.25 |
| DOR12YS-1 | 1.0 mm | GASKET | 16 mm (5/8") | 19 mm (3/4") | 14 mm x 1.25 |
| DR08S | 0.7 mm | GASKET | 16 mm (5/8") | 19 mm (3/4") | 14 mm x 1.25 |
| DR10S | 0.7 mm | GASKET | 16 mm (5/8") | 19 mm (3/4") | 14 mm x 1.25 |
| DR12S | 0.7 mm | GASKET | 16 mm (5/8") | 19 mm (3/4") | 14 mm x 1.25 |
| DR14S | 0.7 mm | GASKET | 16mm (5/8") | 19 mm (3/4") | 14 mm x 1.25 |
| D12YS | 0.7 mm | GASKET | 16 mm (5/8") | 19 mm (3/4") | 14 mm x 1.25 |
| DR12YS | 0.7 mm | GASKET | 16 mm (5/8") | 19 mm (3/4") | 14 mm x 1.25 |
| DR14YS | 0.7 mm | GASKET | 16mm (5/8") | 19 mm (3/4") | 14 mm x 1.25 |
| DR14YS-9 | 0.9 mm | GASKET | 16 mm (5/8") | 19 mm (3/4") | 14 mm x 1.25 |
| DR15YS | 0.7 mm | GASKET | 16 mm (5/8") | 19 mm (3/4") | 14 mm x 1.25 |
| DR15YS-9 | 0.9 mm | GASKET | 16 mm (5/8") | 19 mm (3/4") | 14 mm x 1.25 |
| DR17YS | 0.7 mm | GASKET | 16 mm (5/8") | 19 mm (3/4") | 14 mm x 1.25 |
| DR17YS-9 | 0.9 mm | GASKET | 16 mm (5/8") | 19 mm (3/4") | 14 mm x 1.25 |
| ER10S | 0.7 mm | GASKET | 16 mm (5/8") | 26.5 mm (1 1/16") | 14 mm x 1.25 |
| ER12S | 0.75 mm | GASKET | 16 mm (5/8") | 26.5 mm (1 1/16") | 14 mm x 1.25 |
| ER14S | 0.7 mm | GASKET | 16 mm (5/8") | 26.5 mm (1 1/16") | 14 mm x 1.25 |
| ER15YS | 0.7 mm | GASKET | 16 mm (5/8") | 26.5 mm (1 1/16") | 14 mm x 1.25 |
| ER15YS-9 | 0.9 mm | GASKET | 16 mm (5/8") | 26.5 mm (1 1/16") | 14 mm x 1.25 |
| ER14YS | 0.7 mm | GASKET | 16 mm (5/8") | 26.5 mm (1 1/16") | 14 mm x 1.25 |
| G08S | 0.7 mm | TAPERED | 16 mm (5/8") | 17.5 mm (11/16") | 14 mm x 1.25 |
| G12S | 0.7 mm | TAPERED | 16 mm (5/8") | 17.5 mm (11/16") | 14 mm x 1.25 |
| GR08S | 0.7 mm | TAPERED | 16 mm (5/8") | 17.5 mm (11/16") | 14 mm x 1.25 |
| GR10S | 0.7 mm | GASKET | 16 mm (5/8") | 26.5 mm (1 1/16") | 14 mm x 1.25 |
| GR12S | 0.7 mm | TAPERED | 16 mm (5/8") | 17.5 mm (11/16") | 14 mm x 1.25 |
| GR14S | 0.7 mm | TAPERED | 16 mm (5/8") | 17.5 mm (11/16") | 14 mm x 1.25 |
| G14YS | 0.7 mm | TAPERED | 16 mm (5/8") | 17.5 mm (11/16") | 14 mm x 1.25 |
| GR14YS | 0.7 mm | TAPERED | 16 mm (5/8") | 17.5 mm (.708") | 14 mm x 1.25 |
| GR15YS | 0.7 mm | TAPERED | 16 mm (5/8") | 17.5 mm (.708") | 14 mm x 1.25 |
| GR15YS-9 | 0.9 mm | TAPERED | 16 mm (5/8") | 17.5 mm (.708") | 14 mm x 1.25 |
| GR17YS | 0.8 mm | TAPERED | 16 mm (5/8") | 17.5 mm (.708") | 14 mm x 1.25 |
| HR14YS | 0.8 mm | TAPERED | 16 mm (5/8") | 11.2 mm (7/16") | 14 mm x 1.25 |

| PART NUMBER | ELECTRODE GAP | PLUG SEAT | HEX SIZE | THREAD REACH | THREAD DIAMETER |
|-------------|---------------|-----------|----------------|-------------------|-----------------|
| HR15YS | 0.8 mm | TAPERED | 16 mm (5/8") | 11.2mm (7/16") | 14 mm x 1.25 |
| H08S | 0.7 mm | TAPERED | 16 mm (5/8") | 11.2 mm (7/16") | 14 mm x 1.25 |
| L08S | 0.6 mm | GASKET | 21 mm (13/16") | 19 mm (3/4") | 14 mm x 1.25 |
| L10S | 0.6 mm | GASKET | 21 mm (13/16") | 19 mm (3/4") | 14 mm x 1.25 |
| L11S | 0.6 mm | GASKET | 21 mm (13/16") | 19 mm (3/4") | 14 mm x 1.25 |
| L10SL | 0.6 mm | GASKET | 21 mm (13/16") | 19 mm (3/4") | 14 mm x 1.25 |
| L11SL | 0.6 mm | GASKET | 21 mm (13/16") | 19 mm (3/4") | 14 mm x 1.25 |
| LR10S | 0.6 mm | GASKET | 21 mm (13/16") | 19 mm (3/4") | 14 mm x 1.25 |
| LR11S | 0.6 mm | GASKET | 21 mm (13/16") | 19 mm (3/4") | 14 mm x 1.25 |
| LR14S | 0.7 mm | GASKET | 21 mm (13/16") | 19 mm (3/4") | 14 mm x 1.25 |
| LR15S | 0.7 mm | GASKET | 21 mm (13/16") | 19 mm (3/4") | 14 mm x 1.25 |
| LR10SL | 0.6 mm | GASKET | 21 mm (13/16") | 19 mm (3/4") | 14 mm x 1.25 |
| LR11SL | 0.6 mm | GASKET | 21 mm (13/16") | 19 mm (3/4") | 14 mm x 1.25 |
| LR12YS | 0.7 mm | GASKET | 21 mm (13/16") | 19 mm (3/4") | 14 mm x 1.25 |
| LR14YS | 0.7 mm | GASKET | 21 mm (13/16") | 19 mm (3/4") | 14 mm x 1.25 |
| LR15YS | 0.7 mm | GASKET | 21 mm (13/16") | 19 mm (3/4") | 14 mm x 1.25 |
| LR15YS-9 | 0.9 mm | GASKET | 21 mm (13/16") | 19 mm (3/4") | 14 mm x 1.25 |
| LR17YS | 0.7 mm | GASKET | 21 mm (13/16") | 19 mm (3/4") | 14 mm x 1.25 |
| LR17YS-9 | 0.9 mm | GASKET | 21 mm (13/16") | 19 mm (3/4") | 14 mm x 1.25 |
| LR12SL | 0.6 mm | GASKET | 21 mm (13/16") | 19 mm (3/4") | 14 mm x 1.25 |
| MR12LS | 0.9 mm | GASKET | 14 mm (9/16") | 26.5 mm (1 1/16") | 12 mm x 1.25 |
| MR10S | 0.7 mm | GASKET | 14 mm (9/16") | 26.5 mm (1 1/16") | 12 mm x 1.25 |
| MR12S | 0.7 mm | GASKET | 14 mm (9/16") | 26.5 mm (1 1/16") | 12 mm x 1.25 |
| MR12YS | 0.6 mm | GASKET | 14mm (9/16") | 26.5 mm (1 1/16") | 12 mm x 1.25 |
| MR12YS-6 | 0.6 mm | GASKET | 14 mm (9/16") | 26.5 mm (1 1/16") | 12 mm x 1.25 |
| MR12YS-9 | 0.9 mm | GASKET | 14 mm (9/16") | 26.5 mm (1 1/16") | 12 mm x 1.25 |
| N10S | 0.6 mm | GASKET | 21 mm (13/16") | 12.7 mm (1/2") | 14 mm x 1.25 |
| N11S | 0.6 mm | GASKET | 21 mm (13/16") | 12.7 mm (1/2") | 14 mm x 1.25 |
| NR12S | 0.55 mm | GASKET | 21 mm (13/16") | 12.7 mm (1/2") | 14 mm x 1.25 |
| NR14S | 0.55 mm | GASKET | 21 mm (13/16") | 12.7 mm (1/2") | 14 mm x 1.25 |
| NR15S | 0.55 mm | GASKET | 21 mm (13/16") | 12.7 mm (1/2") | 14 mm x 1.25 |
| NAR12YS | 0.7 mm | GASKET | 16 mm (5/8") | 12.7 mm (1/2") | 10 mm x 1.00 |
| NAR14YS | 0.7 mm | GASKET | 16 mm (5/8") | 12.7 mm (1/2") | 10 mm x 1.00 |
| NAR15YS | 0.7 mm | GASKET | 16 mm (5/8") | 12.7 mm (1/2") | 10 mm x 1.00 |
| QR08S | 0.55 mm | GASKET | 16 mm (5/8") | 26.5 mm (1 1/16") | 12 mm x 1.25 |
| QR10S | 0.55 mm | GASKET | 16 mm (5/8") | 26.5 mm (1 1/16") | 12 mm x 1.25 |
| QR12LS | 0.65 mm | GASKET | 16 mm (5/8") | 26.5 mm (1 1/16") | 12 mm x 1.25 |
| QR14LS | 0.65 mm | GASKET | 16 mm (5/8") | 26.5 mm (1 1/16") | 12 mm x 1.25 |
| QR15LS | 0.7 mm | GASKET | 16 mm (5/8") | 26.5 mm (1 1/16") | 12 mm x 1.25 |
| RR08S | 0.75 mm | TAPERED | 16 mm (5/8") | 25 mm (1") | 14 mm x 1.25 |
| RR10S | 0.75 mm | TAPERED | 16 mm (5/8") | 25 mm (1") | 14 mm x 1.25 |
| RR12S | 0.75 mm | TAPERED | 16 mm (5/8") | 25 mm (1") | 14 mm x 1.25 |
| RR12YS | 0.7 mm | TAPERED | 16 mm (5/8") | 25 mm (1") | 14 mm x 1.25 |
| RR14S | 0.75 mm | TAPERED | 16 mm (5/8") | 25 mm (1") | 14 mm x 1.25 |
| RR15S | 0.7 mm | TAPERED | 16 mm (5/8") | 25 mm (1") | 14 mm x 1.25 |

| PART NUMBER | ELECTRODE GAP | PLUG SEAT | HEX SIZE | THREAD REACH | THREAD DIAMETER |
|-------------|---------------|-----------|-----------------|------------------|-----------------|
| RR15YS | 0.7 mm | TAPERED | 16 mm (5/8") | 25 mm (1") | 14 mm x 1.25 |
| RR15YS-1 | 1.0 mm | TAPERED | 16 mm (5/8") | 25 mm (1") | 14 mm x 1.25 |
| RR17YS-1 | 1.0 mm | TAPERED | 16 mm (5/8") | 25 mm (1") | 14 mm x 1.25 |
| RR14YS | 0.7 mm | TAPERED | 16 mm (5/8") | 25 mm (1") | 14 mm x 1.25 |
| XOR12YS-1 | 1.0 mm | TAPERED | 14 mm (9/16") | 25.7 mm (1") | 12 mm x 1.25 |
| XOR14YS-1 | 1.0 mm | TAPERED | 14 mm (9/16") | 25.7 mm (1") | 12 mm x 1.25 |
| 3VR17YS | 0.8 mm | TAPERED | 14.2 mm (9/16") | 20.5 mm (13/16") | 16 mm x 1.5 |
| 3VR10S | 0.8 mm | TAPERED | 14.2 mm (9/16") | 20.5 mm (13/16") | 16 mm x 1.5 |
| 3VR12S | 0.8 mm | TAPERED | 14.2 mm (9/16") | 20.5 mm (13/16") | 16 mm x 1.5 |
| 3VR14S | 0.8 mm | TAPERED | 14.2 mm (9/16") | 20.5 mm (13/16") | 16 mm x 1.5 |

Rely only on high-grade performance ignition systems on our virtual shelves.