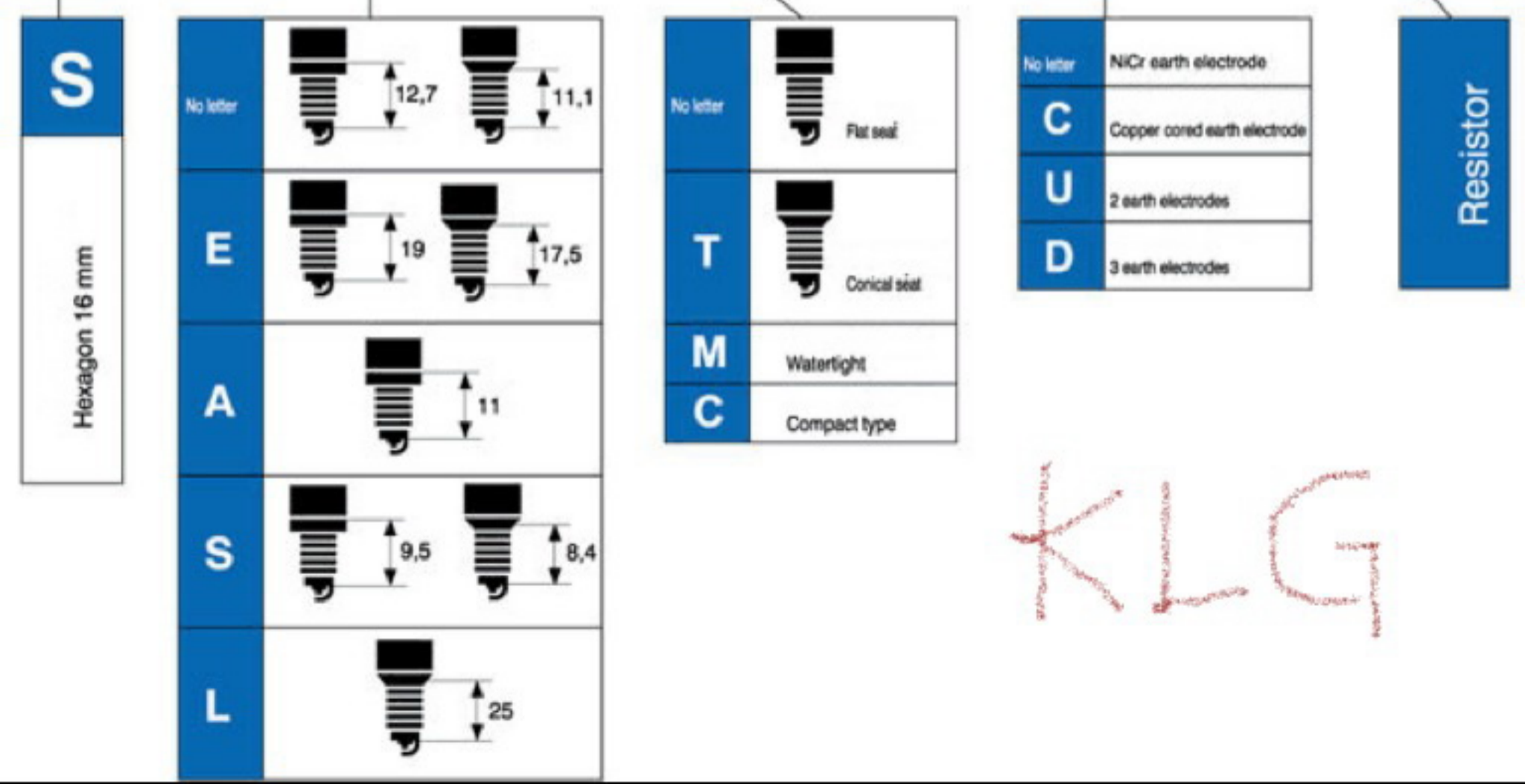


S F E T 65 C P D R 10



DESIGN SYMBOLS: SPARK PLUGS

Thread Size / Hex Size

- A:** 18 mm / 1" (25.4 mm)
- B:** 14 mm / 13/16" (20.8 mm)
- C:** 10 mm / 5/8" (16.0 mm)
- D:** 12 mm / 5/8" (18.0 mm)
- E:** 8 mm / 13.0 mm
- J:** 12 mm / 5/8" (18.0 mm)
- AB:** 18 mm / 13/16" (20.8 mm)
- BC:** 14 mm / 5/8" (16.0 mm)
JIS Type
- BK:** 14 mm / 5/8" (16.0 mm)
ISO Type
- DC:** 12 mm / 5/8" (16.0 mm)

Construction

(ONE OR MORE LETTERS MAY BE COMBINED)

- K:** Hex Size 5/8" Projected Tip (ISO)
- L:** Compact Type (Shorty)
- M:** Compact Type (Bantam)
- P:** Projected Insulator Type
- R:** Resistor Type
- U:** Surface or Semi-Surface Discharge Type
- Z:** Inductive Resistor

Thread Reach

- E:** 19 mm (3/4")
- EF:** Tapered Seat
17.5 mm (.708" Reach)
- FS:** Tapered Seat
10.9 mm (.460")
- H:** 12.07 mm (1/2")
- EH:** Partial Thread
19 mm (3/4" Total Reach)
12.7 mm (1/2" Total Thread)
- L:** 11.2 mm (7/16")
- S:** 9.5 mm (3/8") Reach
- Z:** 21 mm

NO SYMBOL:

18mm = 12 mm Reach

14mm = 9.5 mm (3/8") Reach

Thread Reach

- A:** Special Design
- B:** Special Design
- C:** Low Angle Ground Electrode
- CM:** Compact Type, Low Angle Ground Electrode
- E:** V-Grooved Center Electrode (14 mm only)
1/5 mm Insulator
- ES:** Standard 3/4" Thread Reach (2.5 mm) Center Electrode
- F:** Tapered Seat
- G:** Fine Wire Nickel Alloy Center Electrode
- G-G:** Copper Core Ground Electrode
- GP:** Platinum Firewire (6 mm)
- GV:** Gold-Palladium Center Electrode Special Construction of V-Type. Racing Use
- IX:** High Performance Iridium
- K:** 2-Ground Electrodes
- L:** Half Heat Range, (See spec. chart)
- LM:** Compact Type for Lawn Mower
- M:** 2-Ground Electrodes for Mazda Rotary Eng.
- N:** Special Side Electrode
- P:** Premium Platinum
- Q:** 4-Ground Electrode
- R:** Special Ground Electrode
- S:** Standard 2.5 mm Center Electrode
- T:** 3-Ground Electrode
- U:** Semi-Surface Discharge
- V:** Fine Wire Gold Palladium Center Electrode
- VX:** High Performance Platinum
- W:** Tungsten Electrode
- X:** Booster Gap
- Y:** V-Grooved Center Electrode (14 mm only)
2.5 mm Insulator
- Z:** Thick 2.9 mm Center Electrode

B C P R 6 E S - 11

Plug Type

- I:** Iridium Platinum
- IZ:** Iridium Electrodes and Extended Gap
- L:** Thread Reach 26.5 mm
- P:** Premium Platinum
- PL:** Platinum Electrodes and Thread Reach 26.5 mm
- PZ:** Platinum Electrodes and Extended Gap
- Z:** Extended Gap

Heat Rating Numbers

2 Hot



12 Cold



Firing End Construction

A,B,C ... : Special Design
J: Special Design

- WIDE GAP -

- 8** 0.8 mm (.032")
- 9** 0.9 mm (.036")
- 10** 1.0 mm (.040")
- 11** 1.1 mm (.044")
- 13** 1.3 mm (.052")
- 14** 1.4 mm (.055")
- 15** 1.5 mm (.060")
- 20** 2.0 mm (.080")

P F R 6 A - 11 A

NGK

Construction

- F:** ø 14, 19 mm (3/4") Reach, 16 mm (5/8") Hex.
- G:** ø 14, 19 mm (3/4") Reach, 20.6 mm (13/16") Hex.
- J:** ø 12, 19 mm (3/4") Reach, 19 mm Hex.
- M:** ø 10, 19 mm (3/4") Reach, 16 mm (5/8") Hex.
- T:** Tapered Seat ø 14, 17.5 mm Reach, 16 mm (5/8") Hex.
- PTR5A-13:** ø 14, 25 mm Reach, 16 mm (5/8") Hex.

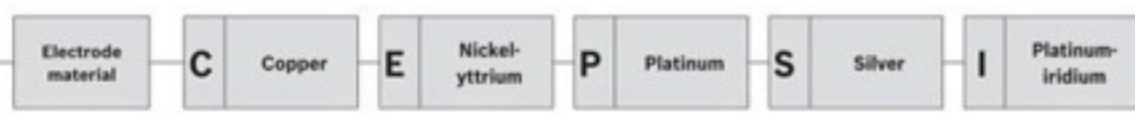
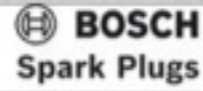
Construction

- R:** Resistor

Feature

- A:** No Gasket Type
- B:** Special Design
- C:** Special Design
- D:** Special Design

Numbering System



0 Differences from basic design

- PO design with Ni ground electrode
- Binary ground electrode
- Special length thread
- Extended insulator nose
- PSA design

	Center electrode with welded-on platinum water Diameter 0.8 or 1.1 mm possible	Center electrode with welded-on platinum water Diameter 0.8 or 1.1 mm possible	Ground electrode Mono nickel-yttrium	Ground electrode Binary nickel-yttrium	Ground electrode Mono nickel-yttrium with laser-alloyed platinum inlay	Ground electrode Binary nickel-yttrium with laser-alloyed platinum inlay
10	?	-	?	-	-	-
15	?	-	?	-	-	-
22	?	-	-	-	?	-
222	?	-	-	-	-	?
23	-	?	-	-	?	-
232	-	?	-	-	-	?
30	-	?	?	-	-	-
302	-	?	-	?	-	-
33	-	?	-	-	?	-
332	-	?	-	-	-	?





CHAMPION

R

V

15

Y

C

4

RESISTOR

Letter	Description
B	Standard Height
C	Bantam Height
D	Bantam Height
E	Shielded 5/8"–24
G	1"–20 Female Connector
H	Shielded 3/4"–20
K	Resistor
M	Shielded 5/8"–24 Ordnance
Q	Resistor—CDI
R	Resistor
S	Shielded 11/16"–24 Whitworth
T	13/16"–20 Thread Above Hexagon
U	Auxiliary Gap Resistor
X	

SHELL DESIGN

Letter	Thread Size	Reach	Hex
A	12mm	3/4"	11/16" or 18mm
B	18mm	13/16"	7/8"
C	14mm	3/4"	5/8"
D	18mm	1/2"	7/8"
E	14mm	1.0" Taper Seat	5/8"
F	18mm	.460" Taper Seat	13/16"
G	10mm	.750"	5/8"
GC*	7/8"-18	All	7/8"
GM*	18mm	All	7/8"
H	14mm	7/16"	13/16"
J	14mm	3/8"	13/16"
K	18mm	All	1"
L	14mm	1/2" or .472"	13/16"
M	18mm	1/2"	7/8" or 11/16"
N	14mm	3/4"	13/16"
P	12mm	.492"	11/16"
R	12mm	3/4"	3/4" or 11/16"
S	14mm	.708" Taper Seat	5/8"
S	1-1/8"	5/8"	1"
U	18mm	1-1/8"	7/8"
V	14mm	.460" Taper Seat	5/8"
W	7/8"-18	All	15/16" or 1"
X	14mm	.500"	5/8"
Y	10mm	1/4"	5/8"
Z	10mm	.492"	5/8"

*1"-20 Female Connector

**HEAT RANGE/
APPLICATION**

Ref.#	Description
1-25	Automotive, Small Engine & Ordnance
26-50	Aviation
51-75	Hi-Performance
75-99	Industrial & Special Applications

FIRING END DESIGN

Letter	Description
None or A	Conventional
B	Two Ground Electrodes
C	Copper Plus Design
D	Protruding Nose, Round Ground Electrode
E	.290" Core Nose Projection
F	Three Ground Electrode
G	Fine Wire—Semi-Precious Electrode
H	.030" Core Nose Projection
J	Cutback Ground Electrode, Includes Modified Gap
L	Skirted Shell Firing End .200" Core Nose
M	Projected Core Nose
N	Four Ground Electrode
P	Platinum Electrode
R	Push Wire
S	Single Ground Electrode at Side of Center Electrode
V	Surface Gap
X	Fine Wire
Y	Standard Projected Core Nose
Z	Skirted Shell
CC	Double Copper
*PP	Double Platinum
PEP	Double Platinum Projected
PLP	Double Platinum Extended Electrode
PMP	Double Platinum Projected
PYC	Single Platinum Projected
*PYP	Projected Double Platinum
WPC	Iridium/Platinum/Copper
WPCC	Iridium/Platinum/ Double Copper

*Includes Copper Plus Design

**WIDE GAP
DESIGNATION**

No.	Description
4	Wide gaps required
5	to meet Federal
6	and California
8	requirements.

Letter	Thread Size	Reach	Hex
BL or V	14mm	.460" Taper Seat	5/8"
BN or S	14mm	.708" Taper Seat	5/8"
CJ	14mm	3/8"	3/4" or 13/16"
DJ	14mm	.325" Taper Seat	5/8"
DZ	10mm	.500" Taper Seat	5/8"
FN or C	14mm	.750" w/gasket	5/8"

Letter	Description	Reach	Hex
BY	Multiple Ground Electrode w/Projected Core Nose		
CM	14mm (Special for Mopeds)	.472"	13/16"
GY	Fine Wire (Semi-precious Electrode) w/Projected Core Nose		
LM	14mm (Special for Lawn Mowers)	3/8"	13/16"
LY/E	Extended Electrode Gap & Core Nose Projection		

The sales symbol on a spark plug is composed of a basic "Heat Range" number with letters and numbers to indicate major features of the plug design. The charts above contain a detailed example of the Champion Sales Symbol.