RGHVVCS100...

High voltage valve clamp system

OVERVIEW

-High reliability
-Even pressure distribution.
-Easy mounting.
-Isolation with high strength composite rods.
-Clamping range available from 600 Kgf to 2500 Kgf.
-Clamping force tolerances: -5% +10%
-Maximum semiconductor external diameter: Ø90 mm.
-Free space between rods: 76 mm.
-Maximum set of series semiconductor thickness: 1700 mm.



non-contractual image

GENERAL DESCRIPTION

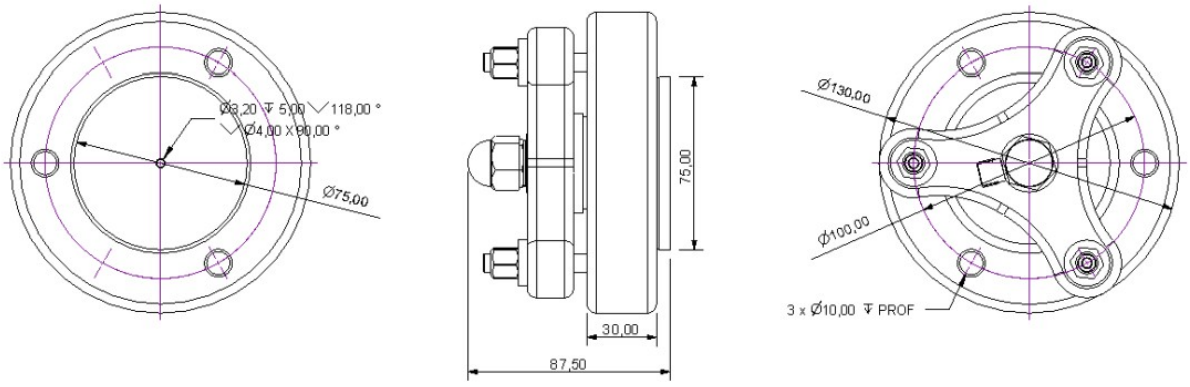
The system is composed of 2 clamp heads and a set of high strength composite threaded rods, the length of these rods defines the thickness "M" of the set of series semiconductors (see dimensions and ordering information).

Force are pre-calibrated and following the mounting recommendations it is not necessary to use special tools for tightening.

if an independent isolation of the heads is necessary, the interposition of an isolation system (not supplied because it depends on the design of the application) must be taken into account.

Insulating support kit is optional and is supplied separately with a standard range of 6kV. to 36kV., see “MOUNTING SUPPORT OPTIONS”

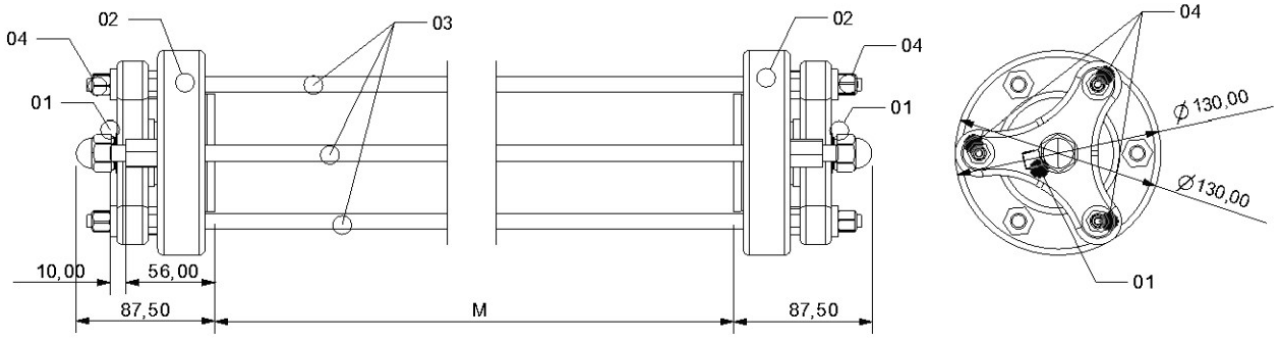
DIMENSIONS AND ORDERING INFORMATION



Clamp head detail

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01- Pressure indicator
It indicates the moment in which the adequate pressure is being performed during the assembly (this pressure is the correct one when you can move the indicator slightly).

02- Clamp head
It supports the series semiconductor and pressure set, it is manufactured in aluminium with rounded edges.

03-Mounting rod
Made by high strength composite M10 threaded rods and nuts, it ensures the necessary insulation between the 2 clamp heads for high voltage applications.

04-Tightening nuts
Clamp tightening nuts (M8) for apply the compression force.

Ordering information (example):

RGHVVCS100/1800/520

"**RGHVVCS100**": Type identification

"18**00**": Pre-calibrated force in Kgf (available from 600 to 2500 Kgf)

"52**0**": "M" dimension.

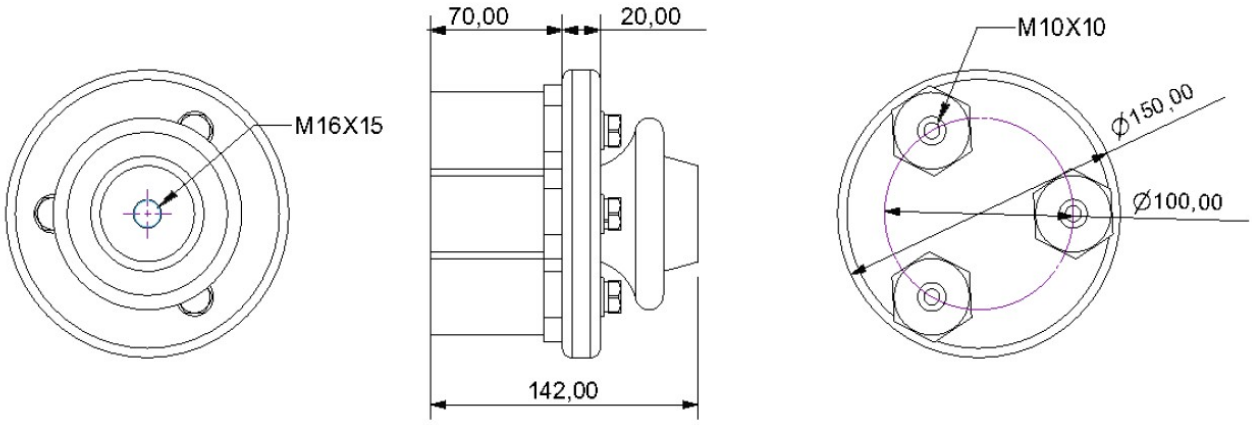
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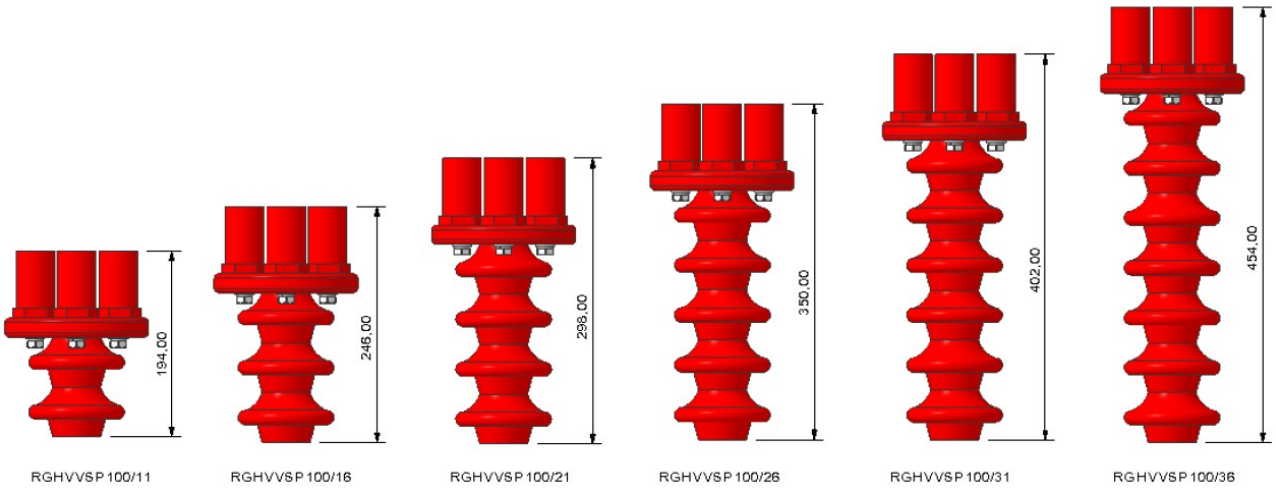
MOUNTING SUPPORT OPTIONS

Insulating support kit is optional and is supplied separately with a standard range of 6kV to 36kV.

Basic Dimensions (RGHVVSP100/06) for 6kV nominal AC voltage:



Standard extended range available (11kV to 36kV):



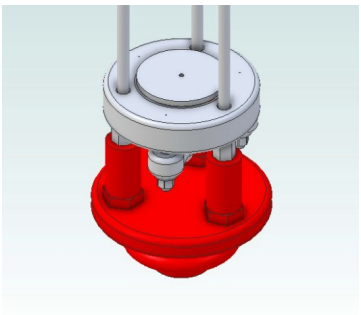
Application and ordering information (example):

RGHVVSP100/26

"**RGHVVSP100**": Type identification

"/**26**": Nominal AC voltage (kV)





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MOUNTING INSTRUCTIONS

For mounting the clamps RGHVVCS are used three threaded rods for the pressuring of (M8) with reinforced nuts (see position 4 in the drawing). It works by means of an elastic system that pressures the center of the device and doesn't require any special tool for correct mounting, This is because a precalibrated force indicator is included for safe and easy mounting in your power stack.

Please follow the next steps in order to avoid any problem while mounting it.

1-Clean carefully the contact surfaces of the heat sinks or bus-bars.

2-Arrange small amount of thermal conductive paste on a flat surface (glass or similar), TCZn-60 is recommended and available in our online power store, spread with the help of a foam roller.

3-With roller impregnated paste "paint" the contact surfaces of the semiconductor, must a thin layer (ideally 50µ to 100µ).

4-Place the devices onto the heat sinks.

5-Assemble the clamp connecting the series heat sinks and devices.

6-Tighten the composite bolts alternatively until the central spreader contact part is perfectly aligned with the assembly, apply only the force for maintain the assembly stable.

7-Tighten pressure nuts alternately by 1/8 turn, checking the pressure indicator tab each time until just turns free.

8-Check again the pressure indicator after 120 minutes. If necessary, tighten slightly.

WARNING

Do not over-tighten. If it occurs, completely loosen the clamp, allow the clamp spring washers to relax for 1/2 hour and proceed to re-tighten it. Make sure that the device is not damaged.

Do not move the centre nut of the head clamp, pre-calibrated be lost.

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