

ABERTAX® GRS GAS RELEASE SYSTEM

*essential for Gel Batteries and for
higher quality AGM Batteries*



DESCRIPTION

The ABERTAX® Technologies GRS has been specially developed for installing in Gel & AGM batteries. The ABERTAX® GRS releases the pressure build-up of gas in a battery, and also prevents air from entering into the cell which may ruin the plates. This patented device incorporates a unique diaphragm system which makes this valve a completely reliable, safe and extremely efficient unit. The device, due to its exceptional design, lends itself to additional specific customer requirements.

PRODUCT AND SAFETY FEATURES

- Patented design featuring a minimum number of parts
- Choice of specially selected materials to withstand the harsh battery acid environment, temperature and corrosive gases
- The valve prevents air from entering – even if there is a negative pressure in the battery cell – for example during recombination
- Excellent gas flow release (patented feature – making this valve superior to others on the market)
- Not affected by normal high or low operating temperatures
- Meets IATA requirements
- Acts as a fire barrier to the inside of the cell
- All ABERTAX® GRS supplied are 100% individually function tested and guaranteed
- Special labyrinth design to create turbulent gas flow and eliminate transport of solid particles from the cell to the valve; also facilitating the return of liquid electrolyte to minimize drying of Gel or AGM
- No welding features incorporated in the ABERTAX® GRS construction – eliminating any possible distortion, warping, shrinkage, etc. – which negatively affect performance
- Improved and patented design provides for optional add-ons – such as flame arrestor and a further additional labyrinth obstacle to the gas flow path for very heavy duty applications
- All individual parts are produced in-house – thus providing strict and excellent quality control on the individual single parts before and after assembly
- Accurate opening and closing pressure parameters according to customer demand (patented)
- Short profile design to allow the maximum usage of cell available space for the plates to obtain maximum battery capacity (Ah)

AVAILABLE MODELS – other Models on Customer Request

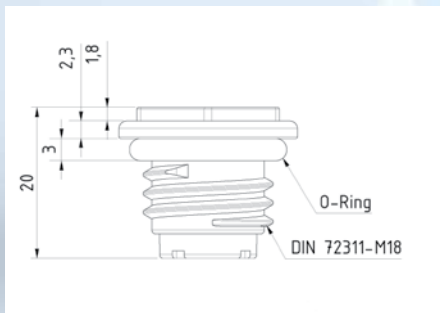
ABERTAX® GRS M18S	21 00 03 08 00A
ABERTAX® GRS M27	21 00 03 27 00J
ABERTAX® GRS Bayonet	21 00 03 15 004
ABERTAX® GRS Push-In	21 00 03 50 008
ABERTAX® GRS M18 Central Degassing	21 00 03 67 008

Int. Patent Protection on all Products. Product made in the European Union.

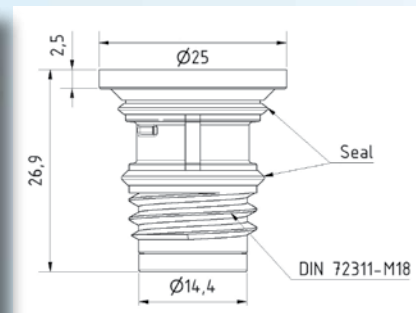
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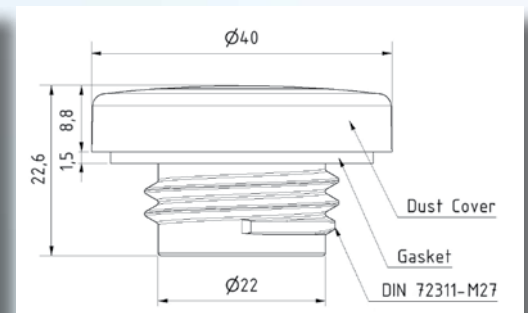
DIMENSIONS



ABERTAX® GRS M18S



ABERTAX® GRS M18 Central Degassing



ABERTAX® GRS M27

MECHANICAL CONSTRUCTION

ABERTAX® Technologies together with its in-house R & D Department have done profound research to ensure that only the best choice of materials, that guarantee performance throughout the life-time of the GRS and batteries, are utilised. Fatigue and endurance testing of all materials selected, together with rigid tests on the completely assembled product, confirm the ABERTAX® GRS to be the best and most reliable product of its kind available on the market. The simplified construction, coupled with its efficient and very stable performance, ensure better gassing equalisation between the cells and fewer cell failures.

The ABERTAX® GRS is protected by worldwide patents and its robust construction and design makes it not only an ideal control valve for release of gases in Gel and AGM batteries, but also an important safety feature by acting as a fire barrier to the inside of the cell.

Special options, such as the versions for use in very heavy duty applications, are available. Another attribute to the design, is the possibility (upon request) to fit a clip on the upper side of the ABERTAX® GRS for systems like central-degassing, alarm and control system, additional flame arrester, dust protection, etc.. All these potential and patented options positively add to make the ABERTAX® GRS superior to any other comparable system.

TECHNICAL SPECIFICATIONS

Standard valve opening pressure	150 to 200 mbar
Other opening pressures upon request	
Closing pressure	> 80 mbar
Maximum operating temperature	80°C
Valve materials suitable for temperature range	-30°C to +80°C
Tightening torque in the battery lid	90 (+/-20) Newton-cm

In the interest of product development, the manufacturer reserves the right to modify specifications. Reference is made to our terms & conditions – see www.abertax.com

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