ARSD & ARVSD & VSD-AR

(Auto Reversible Safety Device & Auto Reversible Ventilation Safety Device & Ventilation Safety Device with Reversible Function)

The storage of Green Energy is becoming increasingly important for today's and future generations, especially for e-mobility applications. The challenge is to make electrical energy available wherever and whenever it is needed. Efficient and reliable storage systems are needed for this purpose.

Today's batteries consist mostly of stacks of Li-lon cells. Since lithium is a highly reactive element, charging and discharging batteries can result in overheating of a cell which might cause an explosion. To avoid injuries as the result of such an explosion, there are two possible options;

- 1. Use an explosion-proof casing
- 2. Use a valve which releases the pressure in the casing

The first option increases weight and costs of the battery; that's why it's not preferred in the battery industry. ARSD & ARVSD & VSD-AR are aimed at the second option.

These ARSD & ARVSD & VSD-AR (Auto Reversible Safety Device & Auto Reversible Ventilation Safety Device & Ventilation Safety Device with Auto Reversible Function) developed by Bimed optimizes the lifetime of Li-Ion batteries and provides safety in case of an explosion. It meets protection classes IP 66, IP 67, IP 68 and IP 69K.

ARSD & ARVSD & VSD-AR (Auto Reversible Safety Device & Auto Reversible Ventilation Safety Device & Ventilation Safety Device with Auto Reversible Function) can be used in electric vehicles with Li-lon batteries, electric trains and stationary batteries for energy storage.























ARSD & ARVSD & VSD-AR

(Auto Reversible Safety Device & Auto Reversible Ventilation Safety Device & Ventilation Safety Device with Auto Rversible Function)

ARSD, ARVSD and VSD-AR by Bimed optimizes lifetime of Li-Ion batteries by its ventilation and burst system and provides safety in case of an explosion.

- Available in two versions; burst function with ventilation (ARVSD & VSD-AR), burst function only (ARSD)
- Automatic reclosing after opening the lid in case of pressure increase.
- IP protection.
- Vibration resistance.

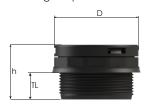
Technical I	Details					
	Body	PA 66 Glass Fiber Reinforced				
	Cap	PA 66 Glass Fiber Reinforced				
Material	Seals	VMQ				
	Vent Membrane	PTFE				
	Metal Parts	Stainless Steel				
Ingress Protection Rating		IP 66 IP 67 IP 68 IP 69K				
Flammabil	ity	V0 according to UL 94				
Operating	Temperature	-40 °C to +90 °C				
UL Environr	mental Rating	Type 4X, Type 12, Type 13 acc. to UL 50E				
Accessorie	es	Lock nut				
Remarks		Vibration test performed acc. to road vehicles standard ISO 16750. For metric version of product, lock nuts shall be used for non-threaded holes. Opening pressure value is adjustable according to reques Please contact with info@bimedteknik.com				



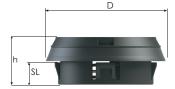


ARSD (Auto Reversible Safety Device)									
Size /Thread	Burst Case Gas Flow at 500 mbar l/sec	Water Intrusion Pressure bar	Opening Pressure mbar	Snap Length (SL) / Thread Length (TL) mm	Outer Ø (D) min - max. mm	Height (h) mm	max. Height (H) mm	Product Code	
Ø 50	250	≤ 5	100 ± 50	11,25	- 59.0 - 65.0	24	16,1	ARSD-Ø50(2MM)-100	
M50x1.5	250			13,25				ARSD-M50-100	

Enclosure wall thickness: 2.0 mm ± 0.1 mm (Snap-Fit version) Mounting torque value: 4.5 N.m ± 0.5 N.m (Metric Thread version)









ARVSD & VSD-AR (Auto Reversible Ventilation Safety Device & Ventilation Safety Device with Auto Reversible Function)									
Size /Thread	Pressure Balance Airflow at ΔP=70 mbar I/h	Burst Case Gas Flow at 500 mbar I/sec	Water Intrusion Pressure mbar		Snap Length (SL) / Thread Length (TL) mm			max. Height (H) mm	Product Code
Ø 50	400	250	≤200	100 ± 50	11,25	59.0 - 65.0	24	16,1	ARVSD-Ø50(2MM)-100
M50x1.5					13,25				ARVSD-M50-100
M40x1.5		135			16,50	47,5 - 50,0	29,2	23,7	VSD-AR-M40-100

Enclosure wall thickness: 2.0 mm \pm 0.1 mm (Snap-Fit version) Mounting torque value: 4.5 N.m \pm 0.5 N.m (Metric Thread version)

Industrial Applications