VEVA®

Automated Movable Barrier System

VEVA®

Keeps your traffic moving

SPIE Nederland B.V. provides innovative traffic management solutions. Safety on our roads is priority number 1 and for that we have developed our VEVA® movable barrier, next to the CADO® emergency barrier and our BarrierGuard 800® steel barriers. All systems providing added safety for road users and maintenance staff and helping to ensure the consistency of traffic flows in a swift way.

VEVA® **main applications:**

Continuing traffic in case of accidents
In many places there is no alternative route available if an accident has occurred. The VEVA® can be activated within 10 minutes, so that traffic can continue at a reduced speed. The positions of the VEVA® can be chosen in such a way that emergency services always have free access.

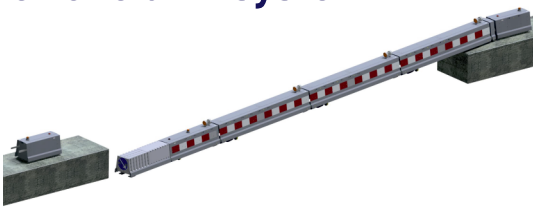
Reverse flow - related to peak/rush hour on daily basis
The VEVA® provides a more efficient, cost saving and preventive road solution to reduce traffic congestion on the motorway. By moving the VEVA® crash rated movable highway barrier, redundant traffic lanes can be utilized as an extra lane for the contra traffic flow.

Safe working zone for maintenance
By using the VEVA®, impassable traffic lanes or tunnel tubes can be quickly closed so that the scene is completely protected from traffic. This way, no maintenance workers or rescue teams are in danger. Moreover, since the VEVA® is fully automated and controlled remotely, it contributes even more to a safe working zone on the highway.

Redirecting traffic flow
VEVA® the movable motorway barrier can be used to create flexible traffic lanes so that accumulating vehicles can be easily rerouted. By a one button push on site or through the Traffic Management Center (TMC) the VEVA® is activated and available road space is used efficiently. Consequently, a quick redirection of traffic flow and lane release is ensured.

VEVA® Movable crash barrier one arm system

The one arm VEVA® system is a movable crash barrier element that leads drivers to another part of the road, road lane, or road tunnel in the safest way possible. It can be fitted with or without a special buffer element (crash cushion). With a one arm VEVA® system you create a cross over in the median for redirecting your traffic.



VEVA® Movable crash barrier two arm system

The two arm system also guides road users through the median to the opposite side of the road or into an alternative lane in a safe and simple manner. The extra benefit you have with a two arm system is that the second arm guides your traffic back to their own lane after the redirection finishes.

VEVA® main benefits:

- Fully automated - electro mechanically driven
- CE-certified according EN 1317 (full scale crash tested)
- Containment level up to H3
- Easy and quick to operate, remote or local control
- Modular system of 6 m elements upto maximum length of 150 m
- Integrated crash cushion according EN 317-2
- Easy replacement in case of damage
- Highest quality - low maintenance
- Reduction of carbon dioxide emissions thanks to minimizing traffic congestion

VEVA® main features:

Standard version for both systems:

- Wheel units mounted inside
- Locking unit and Pivot module
- Emergency buttons
- Manual control
- Sensor techniques
- Acoustic signal

VEVA® options:

- Running lights on every module
- Reflection tape
- Interface with central traffic control
- Tracing
- Coating: 2 µm/additional coating to reach C5 protection class

VEVA® control/operation options:

- Via Local Control Cabinet through HMI screen
- Via parent system (hardwired or bus communication, i.e. Profisafe for optimal safety purposes)
- Additional Local Control Panel
- Remote assistance via SLA (Service Level Agreement) in combination with built in modem

VEVA® technical data:

Plate thickness	5 mm
Material	S255JR according to NEN-EN 10025
Protective finish	internal/external: hot dip galvanised (EN-ISO1461)
Lifting	electric 10 sec.
Unlocking	5 sec.
Lowering	10 sec.
(Driving) speed	approx. 4.8 m / min
EN 1317-5	H2/H3; ASI B: W6/W8

* Larger opening angle on request

Drive **Lifting drive**	approx. 1.5 kW / pc approx. 1.8 kW / pc
Module weight **without drive** **with drive**	 approx. 2,000 kg approx. 2,400 kg
Wheel surface pressure (lifted position)	approx. 60 N / cm²
Maximum slope in combination with transverse/longitudinal direction	approx. 10%
Opening angle	20° *
Step-barrier	(H): 900 mm (W) top: 658 mm (W) down: 1000 mm

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