

VEVA[®] 3

**MOVABLE CRASH BARRIER
WITH BUFFER ELEMENT**



VEVA® 3

keeps your traffic moving

Delay on motorways requires a lot of understanding from the road user and is an important theme for road managers. Through efficient traffic management, efficient traffic flow can be realized and safety risks reduced. SPIE Nederland develops innovative solutions for traffic management that fully meet the current requirements in terms of safety and fast flow in (major) maintenance and / or calamities on traffic routes. The VEVA® 3 is an automated movable crash barrier with a buffer element that gives road users even safer access to another road direction, lane or tunnel tube.

The VEVA® 3 marks a new generation of versions of the VEVA® concept. SPIE developed an innovative buffer element entirely in-house, that is mounted on the front part of the arm. In the event of a collision with the front of the arm, this buffer element ensures the energy absorption from the collision so that damage and injury remain limited. The VEVA® 3 was successfully tested with impact tests by TNO (the Netherlands Organization for Applied Scientific Research TNO).

The modular structure of the VEVA system has also been maintained at VEVA® 3. With modules of up to 6 meters, the total length of the system can vary up to a maximum of 150 meters per passage. In closed position, the VEVA® 3 forms an uninterrupted central reservation barrier. The reliable VEVA® 3 system is easy to operate and requires minimal maintenance, while the modular construction ensures easy repair in case of calamities. In the event of a power failure, the installation can be moved manually.



VEVA® 3 - Buffer element

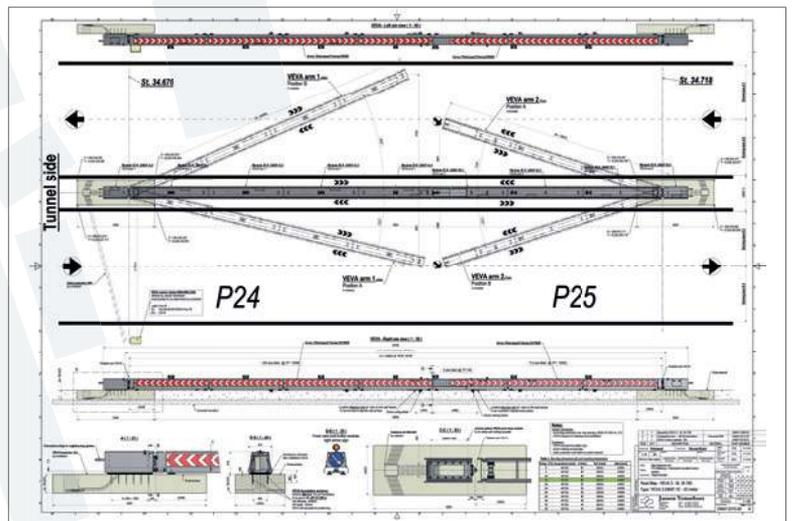


VEVA® 3 - Pneumatic installation

Technical specifications:

VEVA® 3

Plate thickness	5 mm		Drive	approx. 1.5 kW / pc
Material	S355JR according to NEN-EN 10025		Pneumatics	approx. 10 kW or
Protective finish	- internal/external: hot dip galvanised (EN-ISO1461) - option external: 200 mm coating		Lifting drive	approx. 1.8 kW / pc
Raising	approx. 2 min.	pneumatic 2 min.	electric 10 sec.	Module weight
Unlocking	approx. 20 sec.	20 sec.	5 sec.	without drive
Dropping	approx. 2 min.	2 min.	10 sec.	with drive
(Driving) speed	approx. 4.8 m / min	4.8 m / min	4.8 m / min	Wheel surface pressure
EN 1317-2	H2	H2	H2	(lifted position)
				approx. 60 N / cm ²
				Maximum slope in
				combination with
				transverse / longitudinal
				direction
				approx. 10%
				Opening angle
				20° *
				* larger opening angle on request



VEVA® 3 - Movable barrier with buffer element

VEVA[®] 3 KEEPS YOUR TRAFFIC MOVING



EXPERTISE. As the leading independent European provider of multi-technical services in energy and communications sectors, SPIE supports its customers in **designing, building, operating** and **maintaining** facilities that are energy-efficient and environmentally friendly. SPIE is committed to **offering innovative solutions** that provide customers with an opportunity to **rethink, optimise** and **upgrade** their daily environments.

ADAPTABILITY. In an ever-changing environment which requires **renewal, upgrading and maintenance** of infrastructure and facilities, **SPIE can offer a whole range of technical services** adapted to their customers needs. And thanks to their regional branch offices, SPIE can coordinate the most complex of projects.

COMMITMENT.

- **Guarantee** quality services which meet customers expectation.
- **Continuously** look to improve performance in order to offer a better service.
- **Protect** the environment by reducing natural resource consumption, preventing pollution and optimising waste recycling.



www.spie-nl.com

SPIE Nederland B.V.
Head office: Breda
THE NETHERLANDS

Smart city

Traffic & Transport
P.O. box 12
NL - 8130 AA WIJHE
+31 (0)570 52 25 25
wijhe@spie.com