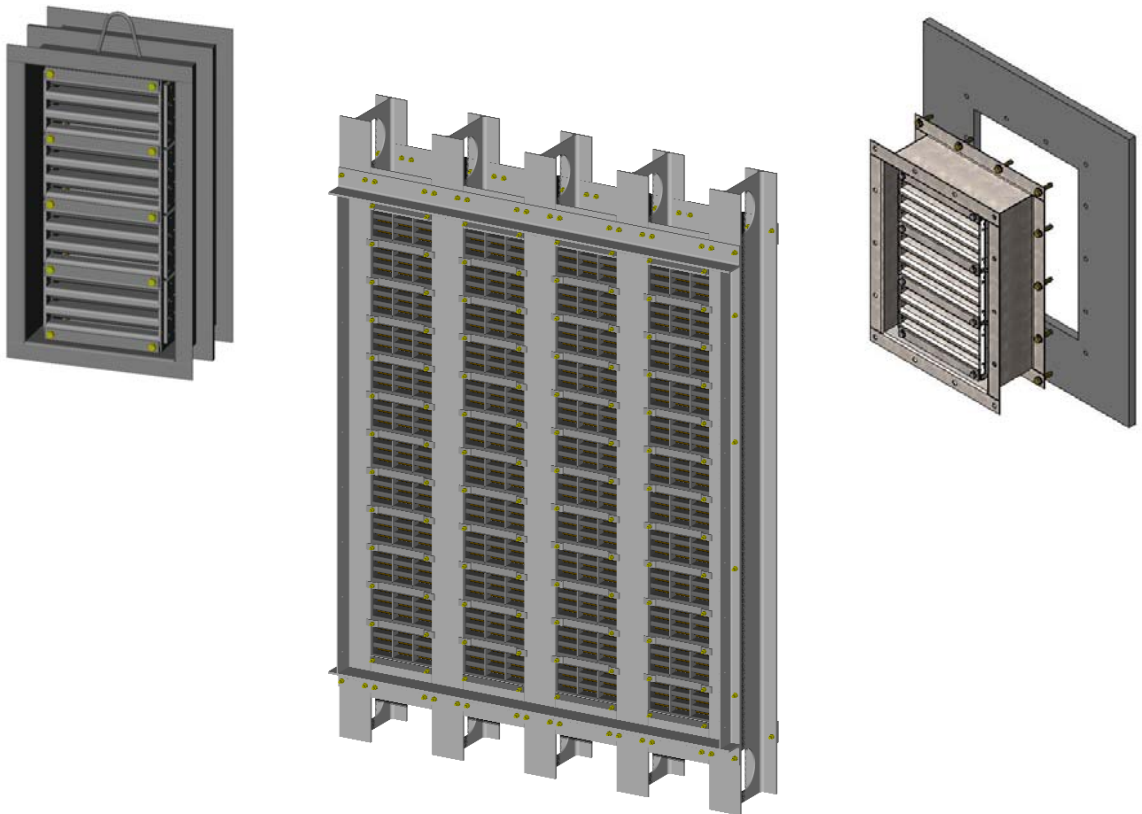


Protective solutions

SELECTION GUIDE



The PV-KK is a very versatile valve to protect air intake and outlet points against blasts in any kind of protected shelters and buildings. Typical applications are civil defence and military shelters, oil refineries, off-shore platforms and vessels.

The valves are modular in their structure consisting of one or more valve blocks. The valve block has its characteristic air flow capacity in normal operational state. The required number of valve blocks in a specific application is determined by dividing the total air flow by the air flow capacity of one valve block at desired pressure drop. Depending on the arrangement of the valve blocks the valves are called either single-column or multi-column versions.

Temet has developed several installation versions. When the highest protection is created by embedded valves, an acceptable protection is also achieved by surface mounted and other versions.

Corrosion resistance for very demanding environment is secured by acid-proof steel version.

Tables in next page are designed to help in choosing the right version based on key product characteristics. Each product version is described in separate documents.

As products may apply to various other cases, contact the manufacturer for further assistance.

Valve versions in the tables are indicated by product codes, where number = total number of valve blocks, columns = number of valve block vertical columns, rows = number of valve block horizontal rows.

APPLICATIONS, PROTECTION LEVEL AND CORROSION RESISTANCE

RECOMMENDED VERSION		Hardened shelters		Industrial applications	
		Up to 1100 kPa (11 bar) overpressure *)	Up to 100 kPa (1 bar) overpressure **)	Up to 100 kPa (1 bar) overpressure **)	
				Hot dip galvanized	Acid-proof steel
PV-KK-number	Single-column	●			
PV-KK-number (columns x rows)	Multi-column	●			
PV-KK-SM-number	Single-column		●	●	
PV-KK-SMX-number	Single-column				●
PV-KK-SM-number (columns x rows)	Multi-column		●	●	
PV-KK-SMX-number (columns x rows)	Multi-column				●
PV-KK-W-number	Single-column		●	●	

*) for multiple long duration (peak duration > 70 ms) blast loads having peak reflected overpressure of 1100 kPa (11 bar) and short duration (positive phase duration < 5.0 ms) blast loads having peak reflected overpressure of 1500 kPa (15 bar)

***) for a maximum long duration blast load with 100 kPa (1.0 bar) reflected peak pressure

INSTALLATION OPTIONS

RECOMMENDED VERSION		Cast in concrete wall	Surface mounted on blast side of wall			Onto shielded side of wall	Between ducts	To subframe in wall
			Concrete wall	Steel wall		Steel wall		
			Anchor bolted	Bolted	Welded	Welded	Bolted	Welded
PV-KK-number	Single-column	●						
PV-KK-number (columns x rows)	Multi-column	●						
PV-KK-SM-number	Single-column		●	●	●	●	●	
PV-KK-SMX-number	Single-column		●	●	●	●	●	
PV-KK-SM-number (columns x rows)	Multi-column		●	●	●			
PV-KK-SMX-number (columns x rows)	Multi-column		●	●	●			
PV-KK-W-number	Single-column							●

Design - Production – Installation – Maintenance - Consultation