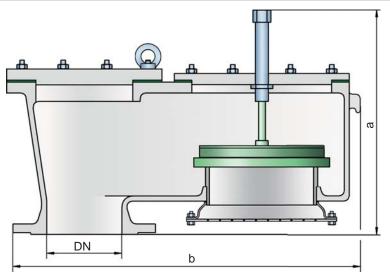


PROTEGO® V/SV-XXL



Settings:

Vacuum: -2.0 mbar up to -16 mbar -0.8 inch W.C. up to -6.4 inch W.C.

Higher vacuum settings upon request.

Function and Description

The V/SV-XXL type PROTEGO[®] valve is a highly developed optimized vacuum relief valve with excellent flow performance. It is primarily used as a safety device for relieving vacuum in tanks, containers and process engineering equipment.

When the set vacuum is reached, the valve starts to open and reaches full lift within a 100% vacuum increase. Up to the set vacuum, the tank vacuum is maintained with a seal that is far superior to the conventional standard due to the highly developed manufacturing technology. This feature is achieved by valve seats made of high quality stainless steel with precisely lapped valve pallets and a reinforced housing design. After the vacuum is relieved, the valve reseats and again provides a tight seal.

The optimized fluid dynamic design of the valve body and valve pallet is a result of intensive research and development activities, which allow a stable operation of the valve pallet and optimized performance resulting in reduction of product losses.

Special Features and Advantages

- excellent tightness and hence least possible product losses and reduced environmental pollution
- · very high optimized flow capacity
- the valve pallet is guided within the housing to protect against harsh weather conditions
- can be used in areas subject to explosion hazards
- self draining
- maintenance friendly design
- · best technology for API-tanks
- designed for use on cryogenic tanks

Design Types and Specifications

The valve pallets are weight-loaded. Higher vacuum can be achieved upon request with a special spring-loaded design.

There are two different designs:

Pressure/vacuum relief valve with

Pressure/vacuum valve in basic design

V/SV-XXL	-	-
V/SV-XXL	-	Η

heating jacket Additional special devices available upon request.

Table 1: Dimer	nsions	Dimensions in mm / inches
DN	300 / 12"	
a	649 / 25.55	
b	946 / 37.24	

Dimensions of pressure and vacuum relief valves with heating jacket upon request

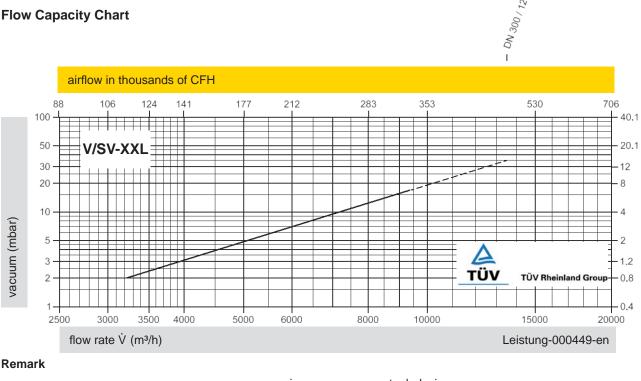
Table 2: Material selection for housing						
Design	А	В	С			
Housing Heating jacket (V/SV-XXL-H)	Aluminium –	Steel Steel	Stainless Steel Stainless Steel	Option: Housing ECTFE-coated		
Valve seat	Stainless Steel	Stainless Steel	Stainless Steel	Special materials upon request		
Sealing	PTFE	PTFE	PTFE			
Cover	Aluminium	Steel	Stainless Steel			

Table 3: Material selection for vacuum valve pallet							
Design	А	В	Special material as well as higher				
Vacuum range (mbar) (inch W.C.)	-2.0 up to -9.0 -0.8 up to -3.6	<-9.0 up to -16 <-3.6 up to -6.4					
Valve pallet	Aluminium	Stainless Steel	vacuum upor request				
Sealing	Metal to Metal	Metal to Metal					

Table 4 Flange connection type EN 1092-1; Form B1

ASME B16.5; 150 lbs RFSF

Flow Capacity Chart



opening pressure resp. tank design pressure set pressure = 2

Set pressure = the valve starts to open

Opening pressure = set pressure plus overpressure

Overpressure = pressure increase over the set pressure

The flow capacity chart has been determined with a calibrated and TÜV certified flow capacity test rig. Volume flow V in (m³/h) and CFH refer to the standard reference conditions of air ISO 6358 (20°C, 1bar). Conversion to other densities and temperatures refer to Vol. 1: "Technical Fundamentals".



for safety and environment

other types upon request

12"