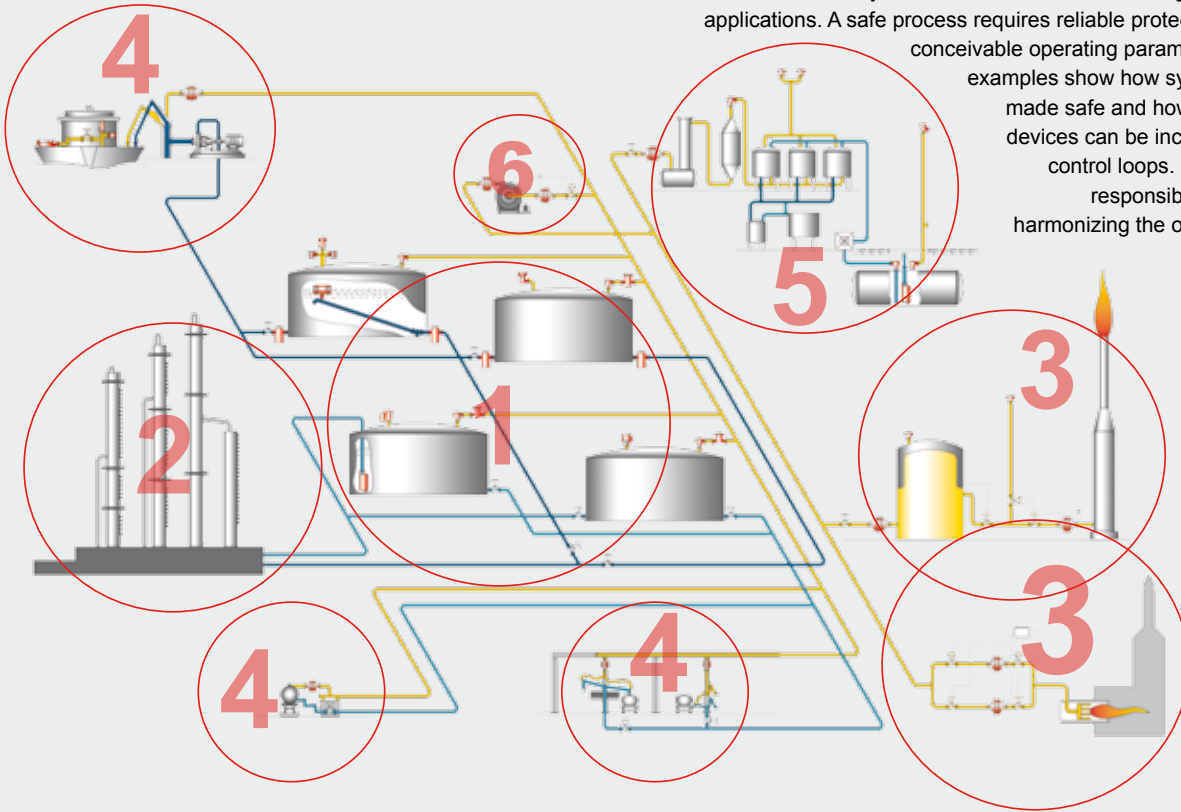


PROTEGO® Product Overview

For more product information please visit our website: www.protego.com

PROTEGO® Applications

PROTEGO® safety devices are used in a wide range of industrial applications. A safe process requires reliable protection for every conceivable operating parameter. Practical examples show how systems can be made safe and how PROTEGO® devices can be incorporated into control loops. Engineers are responsible for properly harmonizing the overall system.



PROTEGO® devices offer safety and environmental protection

- ① In Storage Tank Farms for Refineries and Chemical Plants
- ② In Processing Systems for Chemical and Pharmaceutical Industries
- ③ In Vapour Combustion Systems and Flares
- ④ In Ship Building and Loading Systems
- ⑤ In Vapour Recovery Units
- ⑥ As integrated Component of Equipment, Machines and Vessels

➡ **Valves** _____ page 2 - 5

➡ **Flame Arresters** _____ page 6 - 7

➡ **Tank Accessories** _____ page 8 - 9

➡ **Special Solutions** _____ page 10 - 11



for safety and environment

PROTEGO® Valves

with and without integrated flame arrester unit

PROTEGO® Pressure/Vacuum Relief Valves

in-line

Pressure / Vacuum Relief Valves

Advantages of PROTEGO® 10% technology

- Pressure conservation very close to the maximum allowable tank pressure
- Minimization of product losses
- Reduction of vapour emissions

Diaphragm Valves

Due to the flexible diaphragm, these valves are used in weather-related low temperatures and in sticky, polymerizing media.

PROTEGO® diaphragm valves are the only valves worldwide which are frostproof down to temperatures of -40°C (-40°F) (e.g. PROTEGO® UB/ ... series).

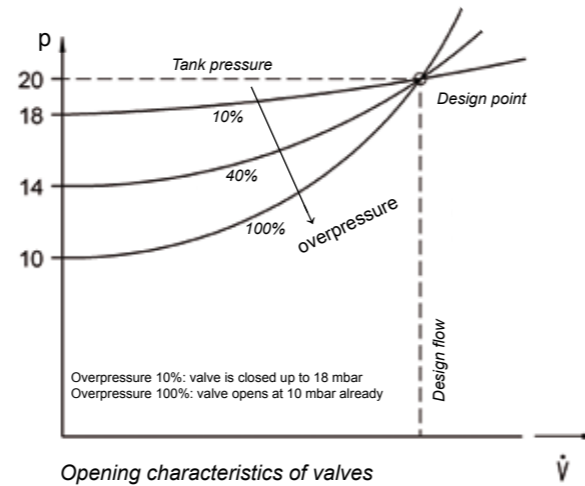
Pilot operated Valves

Special Features and Advantages

- in accordance with API 2000 recommendations
- increased set pressure up to 1034 mbar (15psig)
- blow down < 7%
- optimised flow performance

Emergency Relief Valves

- used where the overpressure relief valves designed for normal operation fail to satisfy suddenly occurring venting requirements
- used as an emergency pressure relief valve on storage tanks, vessels, silos, and process engineering equipment in the event of a fire



Opening characteristics of valves with different overpressure levels













	Type	Size	Pressure setting positive or negative setting range mbar / inch W.C.	○ = X =
Pressure or Vacuum Relief Valves				
	DZ/E	25 - 300 1" - 12"	±2.0 up to ±60 ±0.8 up to ±24	○
	DZ/E-F	25 - 300 1" - 12"	±60 up to ±500 ±24 up to ±200	X
	DZ/EA	50 - 150 2" - 6"	±5 up to ±50 ±2 up to ±20	○
	DZ/EA-F	50 - 150 2" - 6"	±60 up to ±500 ±24 up to ±200	X
	DZ/T	25 - 300 1" - 12"	±2.0 up to ±60 ±0.8 up to ±24	○
	DZ/T-F	25 - 300 1" - 12"	±60 up to ±500 ±24 up to ±200	X
	R/KSM	50 - 200 2" - 8"	±5 up to ±100 ±2 up to ±40	○










	Type	Size	Pressure setting positive setting range mbar / inch W.C.	Pressure setting negative setting range mbar / inch W.C.	○ = X =
Pressure and Vacuum Relief Valves					
	DV/ZT	40 - 150 1½" - 6"	upper valve pallet ±2.0 up to ±60 ±0.8 up to ±24	lower valve pallet ±3.5 up to ±50 ±1.4 up to ±20	○
	DV/ZT-F	40 - 150 1½" - 6"	+60 up to +500 +24 up to +200	-3.5 up to -50 -1.4 up to -20	X
	DV/ZU	40 - 150 1½" - 6"	+2.0 up to +60 +0.8 up to +24	-3.5 up to -50 -1.4 up to -20	○
	DV/ZU-F	40 - 150 1½" - 6"	+60 up to +500 +24 up to +200	-3.5 up to -50 -1.4 up to -20	X
	DV/ZW	40 - 150 1½" - 6"	+2.0 up to +60 +0.8 up to +24	-3.5 up to -50 -1.4 up to -20	○
	DV/ZW-F	40 - 150 1½" - 6"	+60 up to +500 +24 up to +200	-3.5 up to -50 -1.4 up to -20	X
Blanketing Valve					
	ZM-R	15 - 100 ½" - 4"	up to +500 up to +200	up to -200 up to -80	○












○: weight loaded
x: spring loaded











PROTEGO® Pressure/Vacuum Relief Valves
end-of-line

PROTEGO® Pressure/Vacuum Relief Valves
with Flame Arrester, end-of-line

Type	Size	pressure setting	
		positive setting range mbar / inch W.C.	negative setting range mbar / inch W.C.
Pressure Relief Valves, weight pallet type			
 P/EL	50 - 80 2" - 3"	+3.5 up to +210/ +1.4 up to +84	
 P/ELR	80 - 100 3" - 4"	+3.5 up to +210/ +1.4 up to +84	
 SD/BS-H	80-200 3" - 8"	+5 up to +210/ +2 up to +84	
 D/SVL	50-300 2" - 12"	+2.0 up to +60/ +0.8 up to +24	
 ER-V-LP	200-700 8" - 28"	+3.4 up to +15/ +1.36 up to +6	
 ER/V	200-700 8" - 28"	DN 200-350: +5 up to +40/ +2 up to +16 DN 400-700: +5 up to +25/ +2 up to +10	
 ER/VH	200-700 8" - 28"	DN 200-350: >+40 up to +60/ >+16 up to +24 DN 400-700: >+25 up to +60/ >+10 up to +24	
 ER/V-F	200-700 8" - 28"	>+60 up to +500/ >+24 up to +200	
 D/KSM	50-200 2" - 8"	+5.0 up to +100/ +2.0 up to +40	
Vacuum Relief Valves, weight pallet type			
 SV/E-1-0	50 - 300 2" - 12"		-2.0 up to -60 / -0.8 up to -24
 SV/T-0-H	80 - 250 3" - 10"		-7.0 up to -50 / -2.8 up to -20
 V/KSM	50-200 2" - 8"		-5.0 up to -100 / -2.0 up to -40

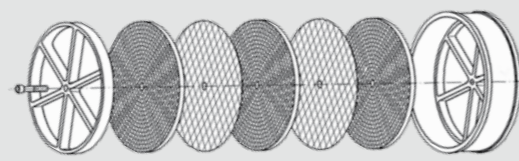
Type	Size	pressure setting	
		positive setting range mbar / inch W.C.	negative setting range mbar / inch W.C.
Pressure and Vacuum Relief Valves, weight pallet type			
 PV/EL	50 - 80 2" - 3"	+2.0 up to +210/ +0.8 up to +84	-3.5 up to -35 / -1.4 up to -14
 PV/ELR	80 - 100 3" - 4"	+2.0 up to +210/ +0.8 up to +84	-3.5 up to -50 / -1.4 up to -20
 VD/SV	40 - 300 1½" - 12"	+2.0 up to +60 / +0.8 up to +24	-2.0 up to -60 / -0.8 up to -24
 VD/SV-PA(L)	50 - 300 2" - 12"	+2.0 up to +60 / +0.8 up to +24	-2.0 up to -60 / -0.8 up to -24
 VD/KSM	50 - 200 2" - 8"	+5.0 up to +100 / +2.0 up to +40	-5.0 up to -100 / -2.0 up to -40
 VD/KSM-PA	50 - 200 2" - 8"	+5.0 up to +100 / +2.0 up to +40	-5.0 up to -100 / -2.0 up to -40
Pressure and Vacuum Relief Valves, pilot-operated			
 PM(D)S	80 - 300 3" - 12"	+10 up to +300 / +4.0 up to +120	-3.0 up to -7 / -1.2 up to -2.8
 PM-HF	80 - 300 3" - 12"	+10 up to +1034 / +4.0 up to +413.6	-2.2 up to -7 / -0.88 up to -2.8
 PM/F	replaced by PM-HF		

Type	Size	Pressure setting		Explosion group ATEX NEC	Approvals
		positive setting range mbar / inch W.C.	negative setting range mbar / inch W.C.		
Pressure Relief Valves, Pallet Type					
 P/EB	50 - 80 2" - 3"	+3.5 up to +210/ +1.4 up to +84		○ / X IIA	D ATEX
 P/EB-E	50 - 80 2" - 3"	+3.5 up to +210/ +1.4 up to +84		○ / X IIB1	- ATEX
 P/EBR	80 - 100 3" - 4"	+3.5 up to +210/ +1.4 up to +84		○ / X IIA, IIB3	D, C ATEX
 P/EBR-E	80 - 100 3" - 4"	+3.5 up to +210/ +1.4 up to +84		○ / X IIB1	- ATEX
 D-SVL-EB	200 10"	+2.0 up to +60/ +0.8 up to +24		○ / X IIA	D ATEX
 BE/HR-D	150-200 6" - 8"	+2.0 up to +35/ +0.8 up to +14		○ / X IIA	D ATEX
Vacuum Relief Valves, Pallet Type					
 SV/E	50 - 300 2" - 12"		-2.0 up to -60/ -0.8 up to -24	X IIB3	C ATEX IMO
Pressure/Vacuum Relief Valves, Pallet Type					
 PV/EB	50 - 80 2" - 3"	+2.0 up to +210/ +0.8 up to +84	-3.5 up to -35/ -1.4 up to -14	○ / X IIA	D ATEX
 PV/EB-E	50 - 80 2" - 3"	+2.0 up to +210/ +0.8 up to +84	-3.5 up to -35/ -1.4 up to -14	○ / X IIB1	- ATEX
 PV/EBR	80 - 100 3" - 4"	+2.0 up to +210/ +0.8 up to +84	-3.5 up to -50/ -1.4 up to -20	○ / X IIA, IIB3	D ATEX
 PV/EBR-E	80 - 100 3" - 4"	+2.0 up to +210/ +0.8 up to +84	-3.5 up to -50/ -1.4 up to -20	○ / X IIB1	- ATEX

Type	Size	Pressure setting		Explosion group ATEX NEC	Approvals
		positive setting range mbar / inch W.C.	negative setting range mbar / inch W.C.		
Pressure/Vacuum Relief Valves, Pallet Type (Continuation)					
 VD/SV-AD and VD/SV-ADL	80 - 150 3" - 6"	+3.5 up to +35/ +1.4 up to +14	-2.0 up to -35/ -0.8 up to -14	X IIB3	C ATEX
 VD/SV-HR	80 - 100 3" - 4"	+3.5 up to +35/ +1.4 up to +14	-2.0 up to -35/ -0.8 up to -14	○ / X IIA, IIB3	D, C ATEX
 VD/SV-HRL	100-150 4" - 6"	+3.5 up to +35/ +1.4 up to +14	-2.0 up to -35/ -0.8 up to -14	○ / X IIA	D ATEX
 VD-SV-EB	200 10"	+2.0 up to +60/ +0.8 up to +24	-2.0 up to -60/ -0.8 up to -24	○ / X IIA	D ATEX
 VD/TS	50 - 300 2" - 12"	+3.5 up to +50/ +1.4 up to +20	-2.0 up to -25/ -0.8 up to -10	X IIB3	C ATEX FM
Pressure/Vacuum Relief Valves, Diaphragm Valves					
 UB/SF	80 - 150 3" - 6"	+3.5 up to +140/ +1.4 up to +56	-3.5 up to -35/ -1.4 up to -16	○ / X IIB3	C ATEX
 UB/DF	80 - 150 3" - 6"	+3.5 up to +140/ +1.4 up to +56		○ / X IIB3	C ATEX
 UB/VF	80 - 150 3" - 6"		-3.5 up to -35/ -1.4 up to -16	X IIB3	C ATEX
Pressure Relief Valves, High Velocity Valve					
 DE/S	80 - 150 3" - 6"	+100 up to +500/ +40 up to +200		○ / X IIB3	C ATEX
 DE/S-MK VI	80 - 150 3" - 6"	+60 up to +350/ +24 up to +140		○ / X IIB3, IIC	C, B ATEX IMO

○ = endurance burning proof
X = prevent flashback in case of atmospheric deflagrations

PROTEGO® Flame Arresters



PROTEGO® flame arrester unit (modular design)

Special features and advantages of PROTEGO® Flame Arresters:

- modular flame arrester unit enables each individual FLAMEFILTER® discs to be replaced and cleaned
- service-friendly design
- minimum pressure loss and associated low operating and life-cycle cost

Depending on the location of installation, the flame arresters must fulfill various protective tasks:

At the opening of a system part to the atmosphere
→ **End-of-line flame arrester**

At the opening of an equipment onto a connecting pipe
→ **Pre-volume flame arrester**

In the pipe
→ **In-line flame arrester**

PROTEGO® Detonation Flame Arresters

Type	Size DN	Design cc = concentric ec = eccentric	Explosiongroup		Approvals	
			ATEX	NEC		
for stable detonation						
	DA-G	G ½ - G 2	straight through, cc	IIA, IIB3, IIC	D, C, B	ATEX
	DR/SV	G ½ - G ¾	straight through, cc	IIA	D	ATEX
	DA-E	25-300 1" - 12"	straight through, ec	IIA, IIB3	D, C	ATEX
	DA-SB	50-600 2" - 24"	straight through, cc	IIA, IIB3, IIC	D, C, B	ATEX
	DA-SB-PTFE	50-100 2" - 4"	straight through, cc	IIA	D	ATEX
	DR/ES	G ¼ - G ¾	90-degree	IIA, IIB3, IIC	D, C, B	ATEX
	DR/ES	25-200 1" - 8"	90-degree	IIA, IIB3	D, C	ATEX
	DR/ES series 2	50-100 2" - 4"	90-degree	IIA, IIB3	D, C	ATEX
	DR/ES-V	40-200 1 ½" - 8"	90-degree	IIA, IIB3	D, C	ATEX
	DR/ES-PTFE	40-150 1 ½" - 6"	90-degree	IIA	D	ATEX
	DR/SBW	50-400 2" - 16"	straight through, cc	IIA, IIB3	D, C	ATEX
	BR/TS	80 3"	90-degree	IIB3	C	CE

Type	Size DN	Design cc = concentric ec = eccentric	Explosiongroup		Approvals	
			ATEX	NEC		
for stable detonation / for liquid detonation						
	LDA-W	25-300 1" - 12"	straight through	IIA, IIB3	D, C	ATEX
	LDA-WF(W)	25-250 1" - 10"	straight through	IIA, IIB3	D, C	ATEX
	LDA	25-250 1" - 10"	vertical	IIA, IIB3	D, C	ATEX
	LDA-F	25-250 1" - 10"	vertical	IIA, IIB3	D, C	ATEX
	EF/V	25-250 1" - 10"	vertical	IIB3	C	ATEX
	TS/P TS/E TS/W		vertical	IIA, IIB3, IIC	D, C, B	ATEX
for unstable detonation						
	DA-UB	50-600 2" - 24"	straight through, cc	IIA, IIB3	D, C	ATEX
	DA-CG	50-600 2" - 24"	straight through, cc	IIA, IIB3	D, C	USCG
	DR/EU	25-150 1" - 6"	90-degree	IIA, IIB2, IIB3	D, C, C	ATEX

PROTEGO® Deflagration Flame Arresters, and Vent Caps, end-of-line

Type	Size DN	Explosiongroup		Approvals	
		ATEX	NEC		
Deflagration flame arrester, end-of-line					
	BE/AD	15 - 50 ½" - 2"	IIB3, IIC	C, B	ATEX
	LH/AD	50 - 800 2" - 32"	IIB3, IIC	C, B	ATEX FM
Deflagration flame arrester, short time burning proof, end-of-line					
	LH/AD-T	50 - 800 2" - 32"	IIB3, IIC	C, B	ATEX FM
Deflagration flame arrester, endurance burning proof, end-of-line					
	EB	25 - 800 1" - 32"	IIA, IIB	D, B	ATEX
	EB-DN/DN2	20 - 700 ¾" - 28"	IIA, IIB	D, B	ATEX
	BE/HZ	15 - 32 ½" - 1¼"	IIA	D	ATEX
	BE/HK	20 - 80 ¾" - 3" 20 - 32 ¾" - 1¼"	IIA, IIB3	D, C	ATEX FM
	BE/HK-E	20 - 80 ¾" - 3"	IIB1	-	ATEX
	BE/HR	80 - 100 3" - 4"	IIA, IIB3	D, C	ATEX FM
	BE/HR-E	80 - 100 3" - 4"	IIB1	-	ATEX
	BE/HR 400	150 - 200 6" - 8"	IIA	D	ATEX
	LH/EB	150 - 400 6" - 16"	IIA1 (I)	-	ATEX
Vent caps, end-of-line, without flame arrester unit					
	EH/O	20 - 80 ¾" - 3"			
	EH/OS	100 - 600 4" - 24"			
	E/KS	50 - 200 2" - 8"			

PROTEGO® Deflagration Flame Arresters, in-line

Type	Size DN	Design cc = concentric ec = eccentric	Explosiongroup		Approvals	
			ATEX	NEC		
In-line deflagration flame arrester						
	FA-E	25 - 300 1" - 12"	straight through, ec	IIA1 (I)	-	ATEX
	FA-E	25 - 300 1" - 12"	straight through, ec	IIA, IIB3, IIC	D, C, B	ATEX
	FA-CN	40 - 300 1½" - 12"	straight through, cc	IIA1 (I)	-	ATEX
	FA-CN	25 - 300 1" - 12"	straight through, cc	IIA, IIB3	D, C	ATEX
	FA-CN	40 - 300 1½" - 12"	straight through, cc	IIC	B	ATEX
	FA-G	G ½ - G 2	straight through, cc	IIA, IIB3, IIC	D, C, B	ATEX
	FA-I	50 - 1000 2" - 40"	straight through, cc	IIA, IIB3	D, C	ATEX
	FA-PTFE	50 - 150 2" - 6"	straight through, cc	IIA	D	ATEX

Tank Accessories and Special Equipment

Tanks in tank farms and large vessels not only need to be equipped with flame arresters or pressure and vacuum valves but; in addition they need special equipment, which similar meets high requirements to operate safely.

Special Valves with Safety Functions

For emergency shut-off or for extraordinary operating conditions it is necessary to provide internal safety valves so that product leakage can be prevented quickly after a pipe burst. Change-over valves facilitate trouble-free valve maintenance.

Gauging and Sampling Equipment

Gauge and sampling hatches allow the use of gauging and sampling devices in the tank. For horizontal tanks deflagration proof gauging pipes are available.

For sampling and local venting in tanks that store flammable liquids PROTEGO® has designed special sampling and air bleed valves with flame arrester elements.

Explosion-proof floor drains for heliports pass flammable liquids (such as Kerosene) into catch tanks and prevent ignition inside. If an outside ignition source ignites the explosive atmosphere there is no flame transmission.

Floating Suction Units and Skimming Systems

Floating Suction Units PROTEGO® SA/S are designed to ensure that product in a storage tank is drawn off just below the surface of the liquid where it is cleanest.

Fixed roof tanks that store liquids with different density, so-called slop tanks, are fitted with the Float-Operated Skimming System PROTEGO® SA/DA for separating the phases.

Together with the tank operator or tank contractor we develop the best way to ensure both economical and safe operation.

Floating Roof Tank Equipment

For floating roof tanks the drainage system for the floating roof must be designed very precisely. Every movement of the floating roof must be taken into account and the load on the joints must not affect the free moving space. In case of restricted movement the system will crack, the pipes will bend and the joints will be stuck. In order to prevent the water in the system from standing and freezing, ensure sufficient drain to the lateral tank nozzle. Many years of experience are incorporated in the supplied systems that

work without disruptions – starting from the roof drain valves to the systems with ball bearing joints or metal hose joints. With lowered floating roofs in maintenance positions the completely drained space below the floating roof must be vented through a lift-actuated vent valve. When storing flammable liquids in the tank venting is to be done through flame arresters.

Special Equipment

Hygroscopic products must be vented with dry air when stored. Air-drying devices with drying pearls prevent the air from saturating with humidity.

A special safety device is the hydraulic flame arrester. It is a collection device for large volume flows in pipelines collecting exhaust air from various plant areas, and it also functions as a backflow prevention device as it prevents the exchange of vapours. With extremely low pressure losses thanks to its relatively large drill holes in the sparge pipes the hydraulic flame arrester is unsusceptible to clogging and therefore provides high plant availability. It can be used as flame arrester with substances of all explosion groups and provides protection against all types of combustion. The hydraulic flame arrester has to be monitored and controlled by instrumentation. Early involvement of our engineers in plant design is necessary to make the right selection.

Selection

The special valves, systems and devices are designed together with the operator, engineering company and tank contractor. PROTEGO® prepares a quotation based on the detailed system specifications.



Floating Suction Unit PROTEGO® SA/S

	Type	Size	Description
Floating Suction Unit			
	SA/S		Floating Suction Unit
	SA/DA		Floating Skimmer System
Floating Roof Tank Equipment			
	SE/K	80 - 100 3" - 4"	Floating Roof Drainage System with Metal Hose Joint
	SE/CK	80 - 150 3" - 6"	Floating Roof Drainage System with Swivel Joints
	D/SR D/SR-W	80 - 150 3" - 6"	Roof Drain Valves
	AL/DK AL 200	200 8"	Vent Valve, Lift-actuated
Gauging and Sampling Equipment			
	PF/K PF/TK PS/KF	100 - 200 4" - 8"	Gauge Hatch with flange
	PS/K PS/TK	100 - 200 4" - 8"	Gauge Hatch with welded nozzle
	PU-IIA	25 - 50 1" - 2"	Gauging Pipe, deflagration proof
	PR/0	25 - 150 1" - 6"	Gauging and Sampling Pipe, verifiable
	VP/HK with PS/E und PG/H	100 - 150 4" - 6"	Gauging and Sampling Device with accessories

	Type	Size	Description
Deflagration proof Special Valves			
	ZE/WU	15 - 25 G½" - G1"	Sampling and Air Bleed Valve, deflagration proof
	ZE/TK	15 - 25 G½" - G1"	Condensate Drain Valve, deflagration proof
Air-Drying Devices			
	LA	50 - 150 2" - 6"	Air-Drying Device
	LA/V	50 - 150 2" - 6"	Air-Drying Device with Check Valve
Special Safety Valves			
	NB/AP	150 - 200 6" - 8"	Fast Action Bottom Drain Valve with pneumatic actuator
	SI/F	50 - 200 2" - 8"	Internal Safety Valve
	SI/DP	150 - 300 6" - 12"	Internal Safety Valve
	WV/T	80 - 250 3" - 10"	Change-Over Valve

Whatever complex and extreme your application, we will find a solution for you. We are specialists, not only specializing in what we have already developed, but also in developing the dedicated solutions you may require.

Tailored valves and devices are our day-to-day business. We will see to that, you can be sure:

- Venting of pipelines
- Internal safety valve
- Super-heated PROTEGO® valves and devices
- Applications for acetylene
- Applications for ethylene oxide
- Applications for alcohols
- Applications for polymers (e.g. acrylates and styrene)



Pipeline Venting: PROTEGO® BE/SRL - Gas Liquid Separator



Internal Safety Valve PROTEGO® SI/DP



DMT Applications: Superheated Valves and Flame Arresters



Acetylene Applications: PROTEGO® DA-SB-AC

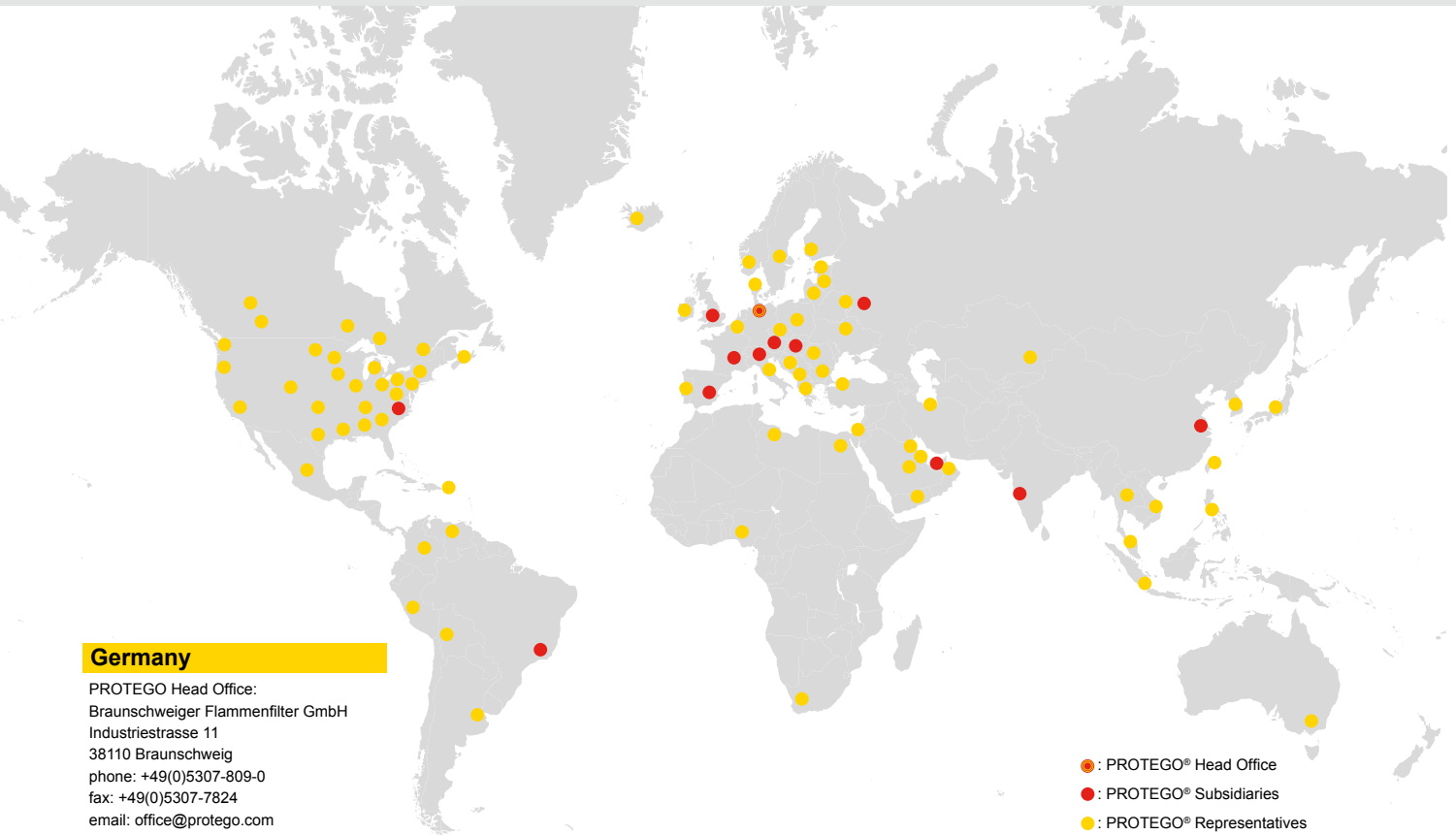


Ethylene Oxide Applications: PROTEGO® DA-SB-EO



Acrylate Applications: PROTEGO® UB/SF





Germany

PROTEGO Head Office:
 Braunschweiger Flammenfilter GmbH
 Industriestrasse 11
 38110 Braunschweig
 phone: +49(0)5307-809-0
 fax: +49(0)5307-7824
 email: office@protego.com

- : PROTEGO® Head Office
- : PROTEGO® Subsidiaries
- : PROTEGO® Representatives

Russia

PROTEGO RUS
 Teterinsky pereulok 4, building 1
 Moscow 109004
 Russian Federation
 phone: +7-49 56 63 36 69
 fax: +7-9 15 0 39 10 06
 email: russia-office@protego.com

USA

PROTEGO (USA) Inc.
 497 Jessen Lane
 Charleston, SC 29492
 phone: +1-843-284 03 00
 fax: +1-843-284 03 04
 email: us-office@protego.com

Spain

PROTEGO España
 Pintor Serra Santa, 19
 08860 Castelldefels
 phone: +34-93-6 34 21 65
 fax: +34-93-6 34 25 45
 email: es-office@protego.com

Great Britain

PROTEGO UK Ltd.
 Studio 1, Europa House Europa Way Britannia
 Enterprise Park
 Lichfield, Staffordshire, WS14 9TZ
 phone: +44-15 43-42 06 60
 fax: +44-15 43-42 06 63
 email: uk-office@protego.com

Switzerland

Ramseyer AG
 Industriestraße 32
 3175 Flamatt
 phone: +41-31-7 44 00 00
 fax: +41-31-7 41 25 55
 email: info@ramseyer.ch

Hungary

PROTEGO Ungarn Kft.
 3515 Miskolc
 Berzsényi D. u. 26.
 phone: +36-46-381 815
 fax: +36-46-381 816
 email: protego@t-online.hu

France

S.I.D. Steiblé Ingenierie et Distribution SARL
 4 avenue de Strasbourg
 ZAC des Collines
 68350 Didenheim
 phone: +33-3-89 60 62 70
 fax: +33-3-89 60 62 75
 email: info@sid-steible.fr

Austria

PROTEGO
 Armaturen- und Apparatechnik Ges.m.b.H
 Grossmarktstrasse 7C
 1230 Wien
 phone: +43-22 36-3 27 20
 fax: +43-22 36-3 27 21 12
 email: office@protego.co.at

Middle East

PROTEGO Middle East FZE
 FZSI BL05
 JAFZ, Dubai, U.A.E.
 P.O. Box 261505
 phone: +971-4-88 600 95
 fax: +971-4-88 600 96
 email: sanjiv.advani@protego.com

Brasil

PROTEGO Brasil
 Válvulas e Corta Chamas Ltda.
 Rua Montevidéu, 486 - Penha
 CEP 21020-290 Rio de Janeiro RJ
 phone: +55-21-2112 5700
 fax: +55-21-2112 5723
 email: protegobrasil@protego.com

China

PROTEGO (Nanjing) Safety Equipment LTD
 123 Linqi Road
 Dongshang International Business R&D Park
 211103 Nanjing
 phone: +86-25-8717 9277
 fax: +86-25-8717 9278
 email: yan.zhang@protego.cn

India

PROTEGO India Pvt. Ltd.
 R-665, TTC. Industrial Area MIDC, Rabale
 Navi Mumbai, 400 701
 phone: +91-22-27 69 11 56
 fax: +91-22-27 69 20 85
 email: sales@protego-india.com

www.protego.com



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