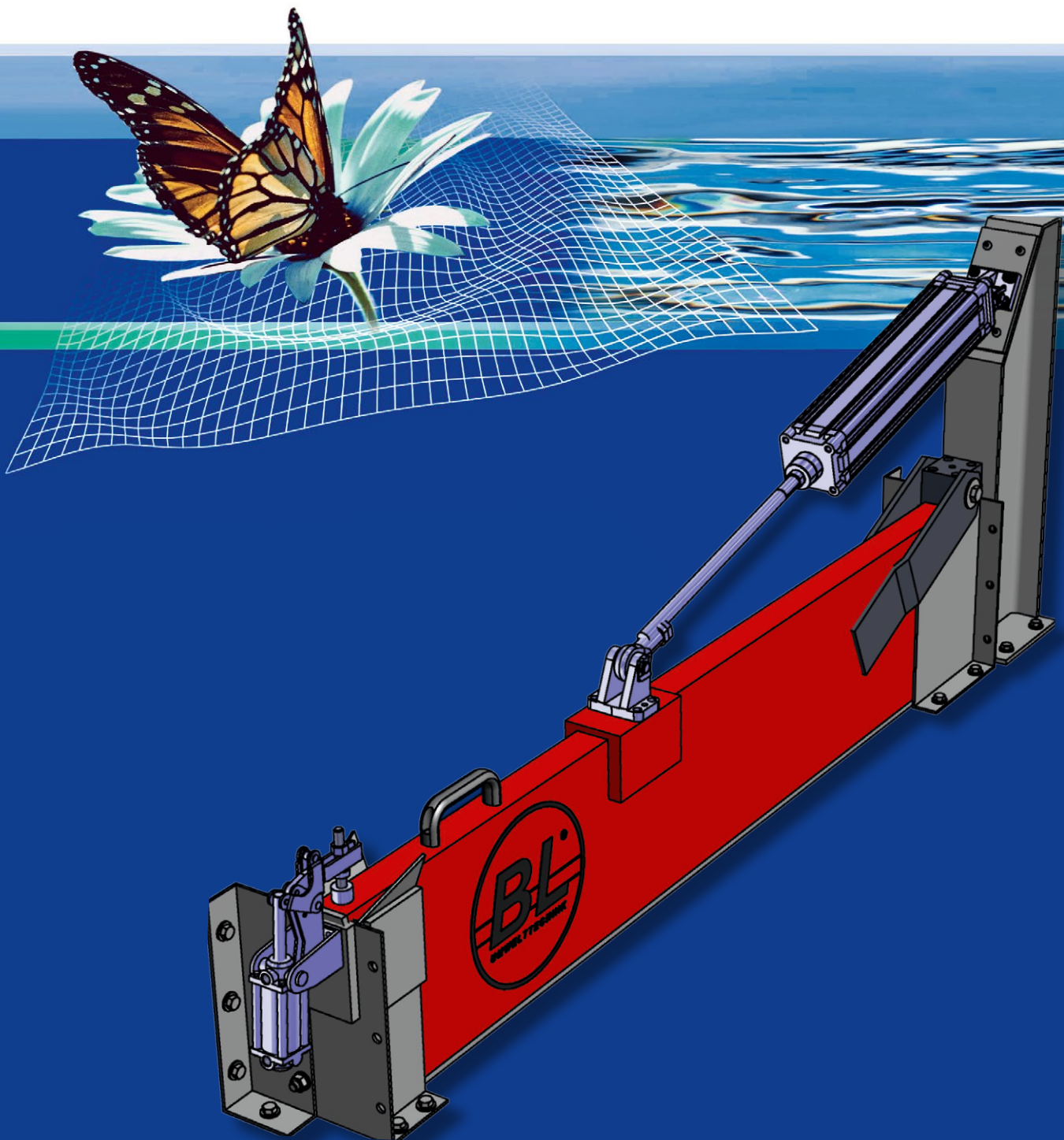


Spill / Retention Barrier BL/BED-PM

Recognised worldwide as one of the most robust
and safest automatic containment barriers



BED-PM: barrier rotates on one side, pneumatically controlled

Article index: 070, 071, 072

The automatic Spill Barrier BL/BED-PM is suitable for crack-free surfaces with up to 10 mm (± 5 mm) of floor/ground unevenness, e.g. concrete, corrugated sheet metal, tiles, stones, etc. The Containment Barrier features a trapezoidal, integral hollow aluminium profiled body. A compressible, highly adaptable, chemical resistant and fire retardant seal is affixed to the lower side and end faces. The rotating mount and tensioning device are securely mounted next to the opening to be secured and sealed.



The Spill Barrier body, firmly bolted in a hinge, is reinforced in the centre and includes a mounting eye for a pneumatic cylinder. The pneumatic cylinder is linked to a unique mount, which is likewise securely mounted to the floor/ground and sealed. The Spill Barrier BL/BED-PM is triggered by the push of a button or a 24 Volt DC signal which drops in the event of an emergency. Alternatively, in explosion proof atmospheres, the barrier is controlled via an air control signal. The Spill Barrier closes fully automatically or travels back into the standby position. Operating pressure 4-10 bar.

Depending on the requirements, the Containment Machine BL/BED-PM is triggered by the Fire Control Switchboard, Flow Meters, Leakage Detectors or any other Hazard detection systems. Key features of the Spill Barrier BL/BED-PM are that it can be operated independently by a push button system, which allows for immediate action by personnel. Spills or contaminants of low volumes and any foam material also trigger the Containment Barrier. The Spill Barrier is installed on the floor surface, usually no modifications to the floor surface are required. This has the advantage that no hazardous material such as resins will clog or harden in floor sumps and prevent the barrier from being triggered. Furthermore, small amounts of hazardous materials or vapours are not being collected or trapped which may pose an ignition danger.

The Containment Barrier BL/BED-PM is fitted with an acoustic warning signal. With an upgrade package, a closing stop and visual warning light, as per the German VDS Guideline 2564, can be integrated. Equipped with a solenoid for Ex - Atmospheres, according to ATEX 2014/34/EU and to USA NEC 500 and USA NEC 505, the Spill Barrier BL/BED-PM can be installed in the following Zones: 0, 1, 2, 20, 21, 22 classified by the EU or USA, Class 1 Division 1, Class 1 Division 2, Class 2 Division 1, Class 2 Division 2, Class 1 Zone 0, Class 1 Zone 1, Class 1 Zone 2.

The Spill Barrier body and mounting fixtures are powder coated, preferably in "signal red" RAL 3020. The remaining metal components are galvanized or aluminium.

A compressible, highly adaptable special seal has been applied to its underside and end faces. The seal is age and media-resistant.

Suitable for crack-free surfaces with minimal unevenness on the ground—such as concrete, DIN 59220 chequered plate, tiles and stone.

Dimensions

Standard height	100-1000 mm
Standard length	up to 6000 mm
Special situations	available on request
Width	50 mm



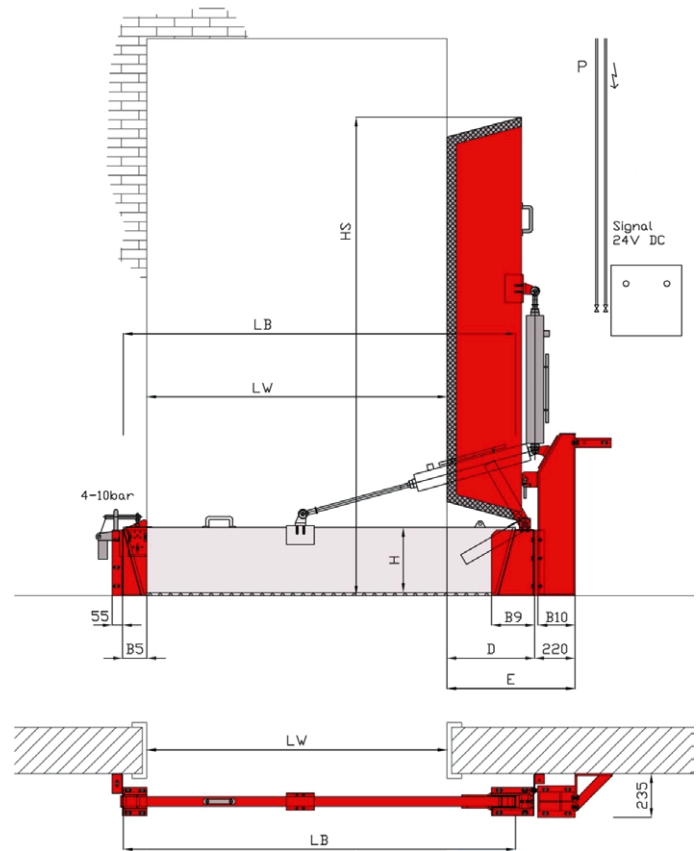
BL/BED-AS/PM (easily rotated, electro-pneumatically or entirely pneumatically controlled)

Measurement table for order size LB

LB = length of barrier LW = clear width ZED = addition LB = LW + ZED E = D + 220

Minimum clear height: HS = LB + H + 150 mm W = 105 mm

Retention height H	B5		B9		D		ZED		
	mm	inch	mm	inch	mm	inch	mm	inch	
100	3.94	120	4.72	158	6.22	220	8.66	195	7.68
150	5.91	120	4.72	171	6.73	270	10.63	245	9.65
200	7.87	120	4.72	185	7.28	320	12.60	295	11.61
250	9.84	120	4.72	198	7.80	370	14.57	355	13.98
300	11.81	130	5.12	211	8.31	420	16.54	405	15.94
350	13.78	150	5.91	225	8.86	470	18.50	465	18.31
400	15.75	155	6.10	238	9.37	520	20.47	530	20.87
450	17.72	170	6.69	252	9.92	570	22.44	595	23.43
500	19.69	185	7.28	265	10.43	620	24.41	655	25.79
550	21.65	195	7.68	278	10.94	670	26.38	720	28.35
600	23.62	210	8.27	292	11.50	720	28.35	785	30.91
650	25.59	225	8.86	305	12.01	770	30.31	845	33.27
700	27.56	240	9.45	319	12.56	820	32.28	910	35.83
750	29.53	250	9.84	332	13.07	870	34.25	975	38.39
800	31.50	260	10.24	345	13.58	920	36.22	1035	40.75
850	33.46	275	10.83	359	14.13	970	38.19	1100	43.31
900	35.43	290	11.42	372	14.65	1020	40.16	1165	45.87
950	37.40	305	12.01	386	15.20	1070	42.13	1225	48.23
1000	39.37	315	12.40	399	15.71	1120	44.09	1290	50.79



Key Features

- Operating pressure: standard 3 to 10 bar
- Safety low-pressure circuit: closure 3 to 5 bar
- High-pressure circuit: locking function, contact pressure, return to standby 4 to 10 bar
- Manual closure (entirely pneumatic) at the touch of a button in the switch cabinet
- Additional emergency function in the switch cabinet: manual closure
- Automatic closure through drop in signal strength
- Automatic closing and locking functions
- Opens only through continuous or connected control signal (at the touch of a button)
- Unlocking followed by automatic return to standby position
- Pressure reduced during closure to safeguard personnel and property
- Automatic switchover to high-pressure circuit when in the locked position
- Returns to standby in high-pressure range
- Automatically closed from any location (control stand, porter's lodge, etc.)
- Opened on-site only
- Requires connected control signal to open
- TUV leak-tight tested
- TUV heat tested

Fully Automatic Systems

Blobel's Premium Programme: a broad selection of functionality and design

- electro-pneumatic version: 24 V DC control signal + pneumatic mode of operation
- entirely pneumatic version: pneumatic control signal + pneumatic mode of operation

Electric control signal				Pneumatic control signal			
no emergency stop		with emergency stop		no emergency stop		with emergency stop	
1-circuit system	2-circuit system	1-circuit system	2-circuit system	1-circuit system	2-circuit system	1-circuit system	2-circuit system
PM/AS PM1	PM2	PM3	PM4	PM5	PM6	PM7	PM8
ATEX category: PM/AS-PM4 systems				ATEX category: PM5-PM8 systems			
Zone 0/20	Limited suitability, only as a customised design (encapsulated solenoid valve and without optical display in the switch cabinet), confirmation required from an independent testing institute			Zone 0/20	Limited suitability, only as a customised design, confirmation required from an independent testing institute		
Zone 1/21	Possible as a customised design (encapsulated solenoid valve and without optical display in the switch cabinet)			Zone 1/21	As a rule		
Zone 2/22	Possible with installation restrictions or a customised design			Zone 2/22	Normally possible without restrictions		

Note:

Special designs are required for zones 21 and 22 and the general conditions must be observed.

The optical display and acoustic warning signal are part of the product package. An optical closing signal (flashing light) is available in combination with an electro-control unit.

Customised designs that factor in the extended VdS guidelines are possible at all times.

You are welcome to contact us – the staff at our head office and subsidiaries are always glad to be of assistance.



BLOBEL Containment Systems

- 25 years experience
- More than 10,000 installations worldwide
- Manual and automatic containment barriers
- Proven sealing technology
- Accommodates many requirements
- TUV heat and leak-tightness tested and approved

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