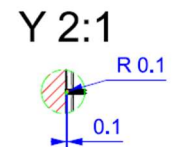
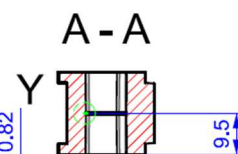
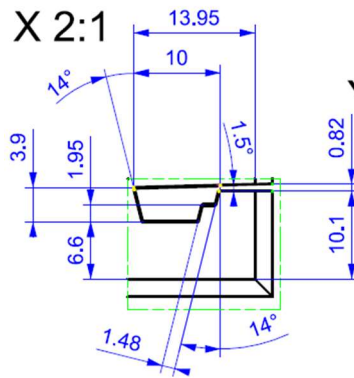
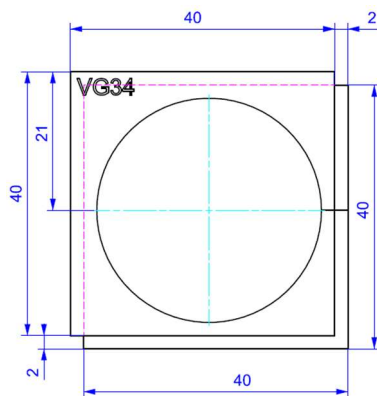
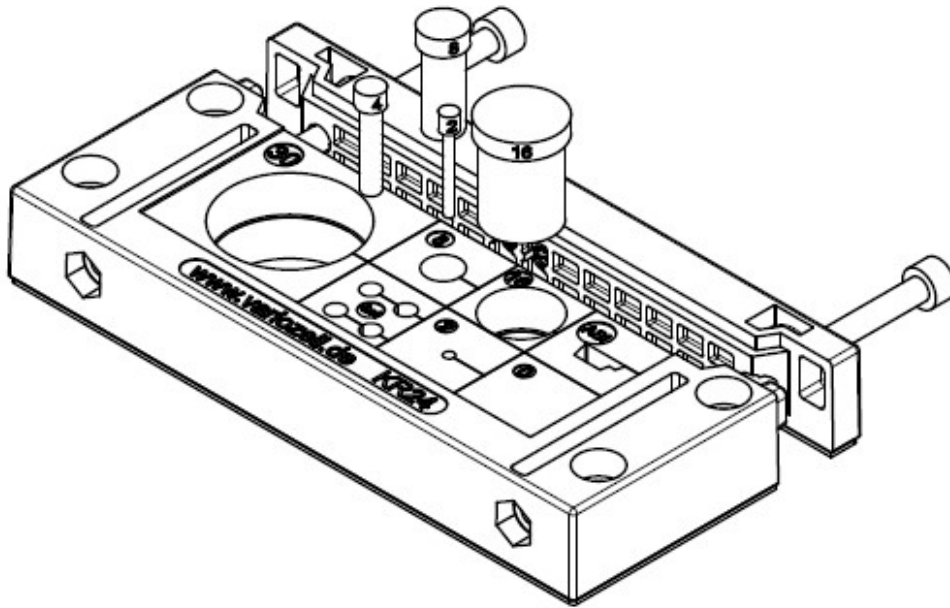


VARIOZELL®



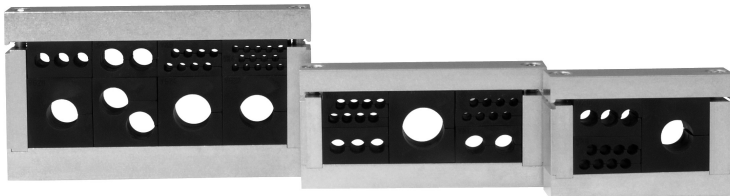
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Main Catalog

VARIOZELL is the provider of services and engineering for divisible cable bushings, cable entries and cable strain relief systems.



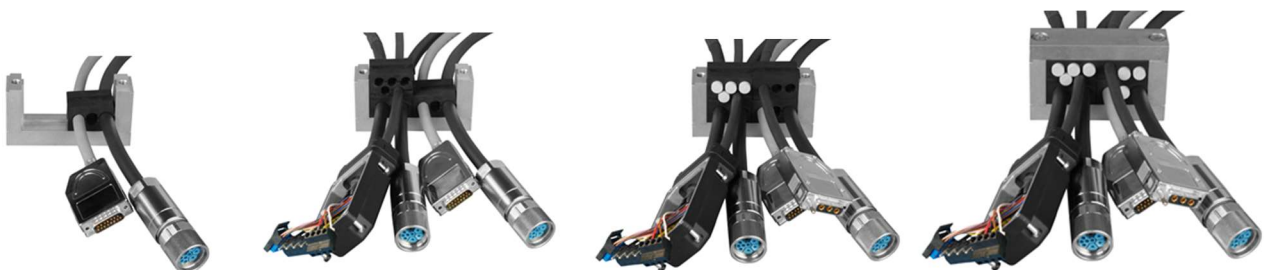
Because the system allows you to modify the composition of the rubber modules to meet the needs of the immediate situation, the system can be used for a multitude of purposes.



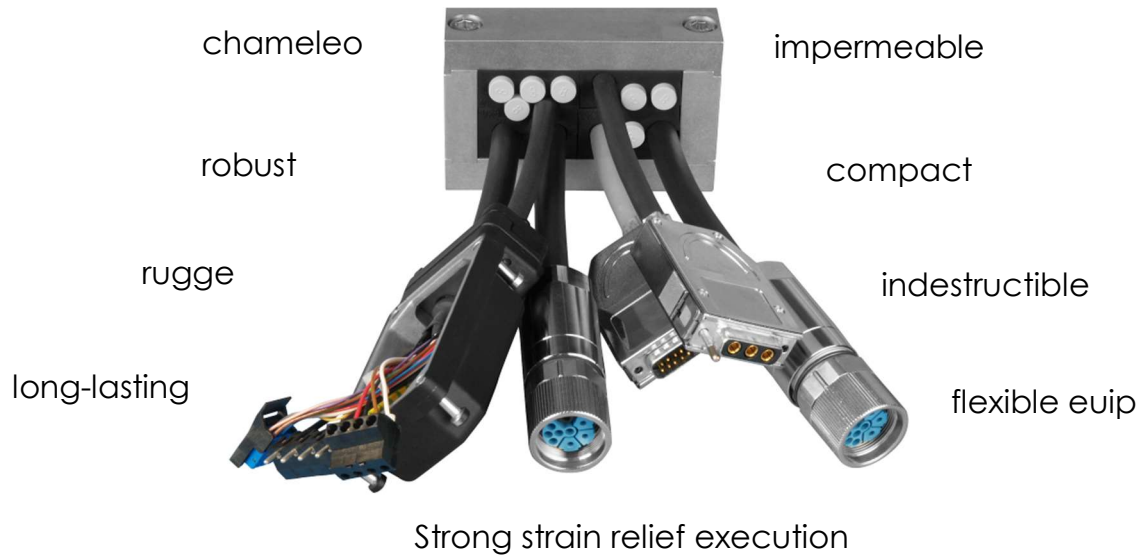
The patented rubber modules guarantee a quick and easily modifiable solution for routing and retrofitting cables.



The system can be assembled and mounted on-site after connectors are attached to cables, making it an adaptable solution for all challenges.



The advantages of using the **VARIOSOLID** system:



Is suited for a multitude of purposes like electro engineering, pneumatics, hydraulics, hose and tube-systems.

Highly adaptable to all situations as the system can be assembled and mounted on-site after construction or other installation.

Handling and storage costs are reduced by working with just one system. (Sizes for the frames and rubber modules for both the Cable entry and Strain-relief systems are the same.)

Pre-wired and pre-molded connector systems can be easily used in the Variozell system.

The easily modifiable system allows for cutting one-sized openings for cable entryways, thus reducing project costs.

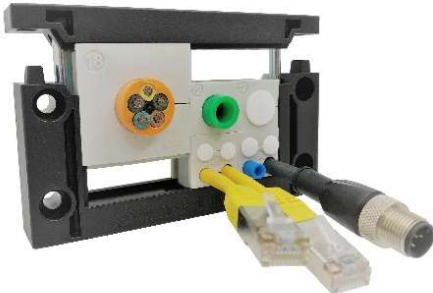
The system is especially suited for air hoses because equal pressure is applied around the entire frame as well as on the individual cables held within the modules, consequently eliminating diminution of the diameter of hoses.

Compact in design and requires less space.

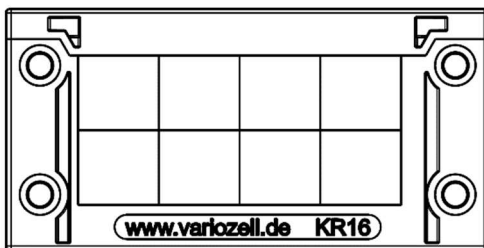
We use only stable, high quality materials with a long life-span.

The system is an ideal companion for use with cable carriers.

Clamp frame for cable entry system Type KR16 including flat seal



- A clamping frame for all equipment variants with rubber modules of the type GMK and GMG
- Compact design
- Leak tightness: IP 65



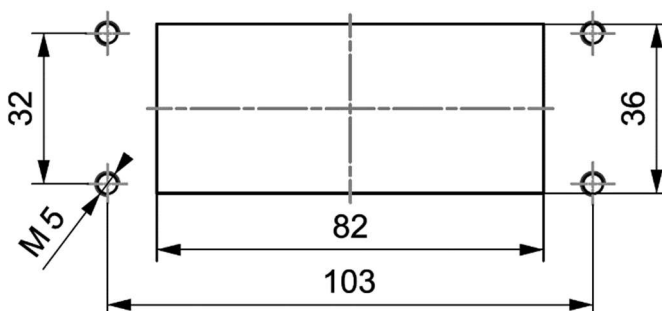
Properties plastic:

- Temperature resistance: - 40 ° C to 100 ° C
- Frame construction made of PA66-GF50 FR
- Flammability: UL94-V0 (self-extinguishing)
- Color: Black
- RoHS and REACH- compliant
- Silicone free

Technical data and ordering information

Grid unit	Dimensions in [mm]			PU	Type	Best.Nr.	
	L	H	T				
4x2	120	60	21	1	KR16	25216	Hole pattern of the 16-pin connector

Opening for clamping frame KR16



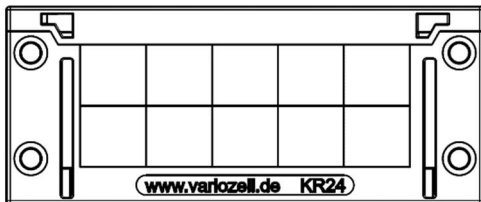
Clamp frame for cable entry system Type KR24 including flat seal



- A clamping frame for all equipment variants with rubber modules of the type GMK and GMG
- Compact design
- Leak tightness: IP 65

Properties plastic:

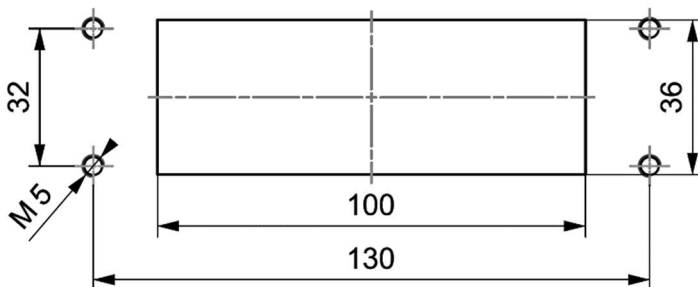
- Temperature resistance: - 40 ° C to 100° C
- Frame construction made of PA66-GF50 FR
- Flammability: UL94-V0 (self-extinguishing)
- Color: Black
- RoHS and REACH- compliant
- Silicone free



Technical data and ordering information

Grid unit	Dimensions in [mm]			PU	Type	Best.Nr.	
	L	H	T				
5x2	145	60	21	1	KR24	25224	Hole pattern of the 16-pin connector

Opening for clamping frame KR24



Rubber modules for cable entry system type GMK small UL94V0

- Simple, problem-free assembly thanks to the tongue and groove system
- Compact design
- Leak tightness: IP 65

Properties of the thermoplastic of the rubber modules:

- Temperature resistance: - 40 ° C to 100 ° C
- Good resistance to UV radiation, ozone, acids, alkalis, fuel, solvents and sea water
- Very good weather resistance
- RoHS and REACH compliant
- silicone free
- Material: TPE UL94-HB (black)
TPE UL94-V0 (gray) halogen-free, self-extinguishing



Technical data and ordering information

Type		Clamping range of the bushings [mm]	Number of openings	Order no.		PU
GMK0		solid	0	22001		10
GMK2		2-3	1	22002		10
GMK3		3-4	1	22003		10
GMK4		4-5	1	22004		10
GMK5		5-6	1	22005		10
GMK6		6-7	1	22006		10
GMK7		7-8	1	22007		10
GMK8		8-9	1	22008		10
GMK9		9-10	1	22009		10
GMK10		10-11	1	22010		10
GMK11		11-12	1	22011		10
GMK12		12-13	1	22012		10
GMK13		13-14	1	22013		10
GMK14		14-15	1	22014		10
GMK15		15-16	1	22015		10
GMK16		16-17	1	22016		10
GMK4x2		4 x 2-3	4	22017		10
GMK4x3		4 x 3-4	4	22018		10
GMK4x4		4 x 4-5	4	22019		10
GMK4x5		4 x 5-6	4	22020		10
GMK4x6		4 x 6-7	4	22021		10
GMKASI		A S I	1	22022		10

TIP:

Unnecessary bushings can simply be closed with blind plugs!

Rubber modules for cable entry system type GMG big UL94V0

- Simple, problem-free assembly thanks to the tongue and groove system
- Compact design
- Leak tightness: IP 65

Properties of the thermoplastic of the rubber modules:

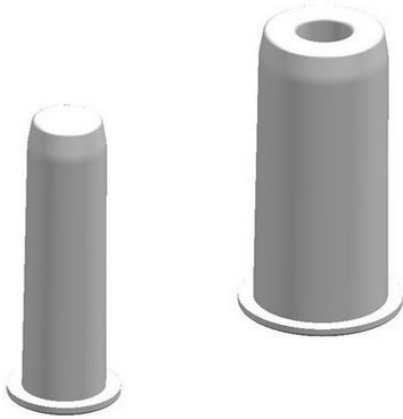
- Temperature resistance: - 40 ° C to 100 ° C
- Good resistance to UV radiation, ozone, acids, alkalis, fuel, solvents and sea water
- Very good weather resistance
- RoHS and REACH compliant
- silicone free
- Material: TPE UL94-HB (black)
TPE UL94-V0 (gray) halogen-free, self-extinguishing



Technical data and ordering information

Type		Clamping range of the bushings [mm]	Number of openings	Order no.		PU
GMG0		solid	0	22116		10
GMG17		17-18	1	22117		10
GMG18		18-19	1	22118		10
GMG19		19-20	1	22119		10
GMG20		20-21	1	22120		10
GMG21		21-22	1	22121		10
GMG22		22-23	1	22122		10
GMG23		23-24	1	22123		10
GMG24		24-25	1	22124		10
GMG25		25-26	1	22125		10
GMG26		26-27	1	22126		10
GMG27		27-28	1	22127		10
GMG28		28-29	1	22128		10
GMG29		29-30	1	22129		10
GMG30		30-31	1	22130		10
GMG31		31-32	1	22131		10
GMG32		32-33	1	22132		10

Blind plugs BV for rubber modules GMK UL94VO white



- Simple and problem-free closing of unused holes
- Material: PA6
- Temperature resistance: - 30 ° C to 100 ° C
- Flammability: UL94-V0 self-extinguishing
- RoHS and REACH compliant
- Silicone-free

Technical data and ordering information

Type	Diameter [mm]	Length [mm]	Order no.	PU	notes
BV2 (UL94V0)	2	19	24202	10	Suitable for rubber module GMK2 and GMK4x2
BV3 (UL94V0)	3	19	24203	10	Suitable for rubber module GMK3 and GMK4x3
BV4 (UL94V0)	4	19	24104	10	Suitable for rubber module GMK4 and GMK4x4
BV5 (UL94V0)	5	19	24205	10	Suitable for rubber module GMK5 and GMK4x5
BV6 (UL94V0)	6	19	24206	10	Suitable for rubber module GMK6 and GMK4x6
BV7 (UL94V0)	7	19	24207	10	Suitable for rubber module GMK7
BV8 (UL94V0)	8	19	24208	10	Suitable for rubber module GMK8
BV9 (UL94V0)	9	19	24209	10	Suitable for rubber module GMK9
BV10 (UL94V0)	10	19	24210	10	Suitable for rubber module GMK10
BV11 (UL94V0)	11	19	24211	10	Suitable for rubber module GMK11
BV12 (UL94V0)	12	19	24212	10	Suitable for rubber module GMK12
BV13 (UL94V0)	13	19	24213	10	Suitable for rubber module GMK13
BV14 (UL94V0)	14	19	24214	10	Suitable for rubber module GMK14
BV15 (UL94V0)	15	19	24215	10	Suitable for rubber module GMK15
BV16 (UL94V0)	16	19	24216	10	Suitable for rubber module GMK16
BVASI (UL94V0)	ASI	19	24235	10	Suitable for rubber module GMKASI

VARIOSOLID – Cable Entry Systems with Strain-relief



- Frame construction consists of high-quality, solid aluminum
- Standard construction: AlMgSi0,5 Aluminum barrel finished
- Simple, trouble free assembly of rubber modules through a specially designed tongue and groove system
- Patented rubber modules make it highly adaptable to all situations
- Compact design requires little space
- Both the Cable entry and Strain-relief system use the same sized frames and rubber modules which simplifies and accelerates handling
- IP 65 protection rating
- Rubber: UL94-V0
- Temperature resistance: - 30 ° C to 80 ° C (ATEX: - 20 ° C to 60 ° C)



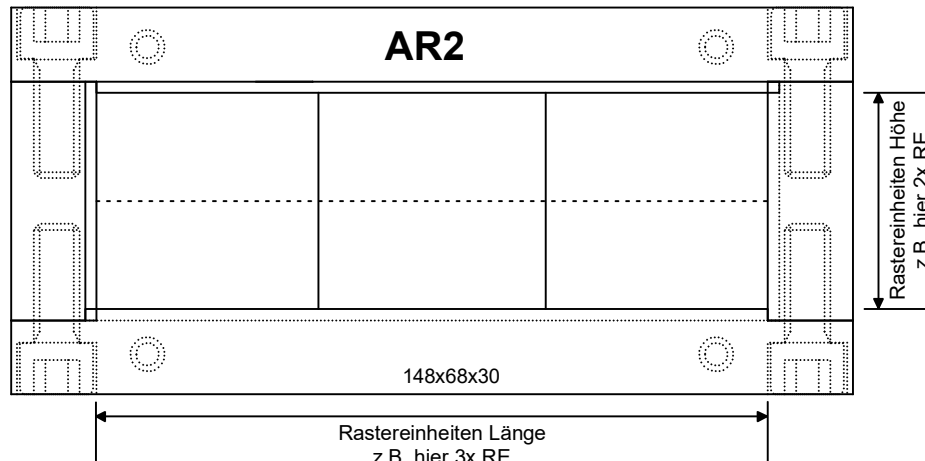
Technical data

Grid Unit	Dimensions [mm]			VE	Aluminum Mounting blind hole thread on the back		Aluminum UL + ATEX Mounting blind hole thread on the back		Aluminum Mounting through hole on the front		Aluminum UL + ATEX Mounting through hole on the front	
	L	H	T		Typ	Best.Nr.	Typ	Best.Nr.	Typ	Best.Nr.	Typ	Best.Nr.
2x2	108	68	30	1	AR1	25001	AR1UL-ATEX	25501	ER1	25601	ER1UL-ATEX	25701
3x2	148	68	30	1	AR2	25002	AR2UL-ATEX	25502	ER2	25602	ER2UL-ATEX	25702
3x3	148	88	30	1	AR3	25003	AR3UL-ATEX	25503	ER3	25603	ER3UL-ATEX	25703
3x4	148	108	30	1	AR4	25004	AR4UL-ATEX	25504	ER4	25604	ER4UL-ATEX	25704
4x2	188	78	30	1	AR5	25005	AR5UL-ATEX	25505	ER5	25605	ER5UL-ATEX	25705
4x3	188	98	30	1	AR6	25006	AR6UL-ATEX	25506	ER6	25606	ER6UL-ATEX	25706
4x4	188	118	30	1	AR7	25007	AR7UL-ATEX	25507	ER7	25607	ER7UL-ATEX	25707
2x3	108	88	30	1	AR8	25008	AR8UL	25508				
2x4	108	108	30	1	AR9	25009	AR9UL	25509				
2x5	108	128	30	1	AR10	25010	AR10UL	25510				
3x5	148	128	30	1	AR11	25011	AR11UL	25511				
4x5	188	138	30	1	AR12	25012	AR12UL	25512				
5x4	228	118	30	1	AR13	25013	AR13UL	25513				
5x5	228	138	30	1	AR14	25014	AR14UL	25514				
2x3	148	68	30	1	AS2	25022	AS2UL-ATEX	25522			Hole pattern of the 24-pin connector	

* On request, not on stock:

- Suitable for food
- Highest corrosion protection

Beispielhaft für Rahmen AR 2:



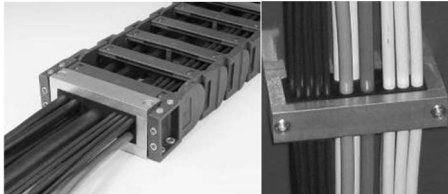
Note:

1x Rack Unit =
1x VK-Module

2x Rack Units high =
1x VG-Module

Additional cables can be inserted into the system at any time by simply loosening the tractable opening.

VARIOSOLID – Cable Strain-relief System

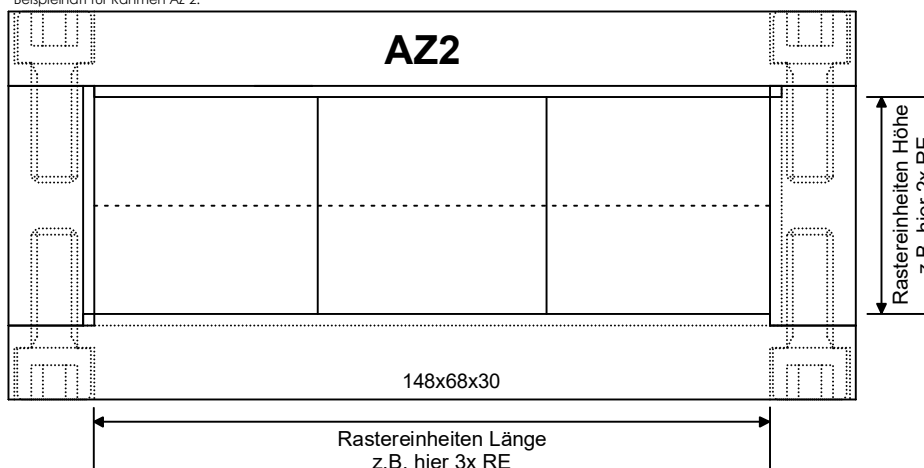


- Frame construction consists of high-quality, solid aluminum
- Standard construction: Aluminum AlMgSi0,5 barrel finished
- Simple, trouble free assembly of rubber modules through a specially designed tongue and groove system
- Patented rubber modules make it highly adaptable to all situations
- Compact design requires little space
- Both the Cable entry and Strain-relief system use the same sized frames and rubber modules which simplifies and accelerates handling

Technical data

Rack Units	Dimensions [mm]			Pkg. units	Aluminum	
	L	H	D		Type	Order No.
2x2	108	68	30	1	AZ1	26001
3x2	148	68	30	1	AZ2	26002
3x3	148	88	30	1	AZ3	26003
3x4	148	108	30	1	AZ4	26004
4x2	188	78	30	1	AZ5	26005
4x3	188	98	30	1	AZ6	26006
4x4	188	118	30	1	AZ7	26007
2x3	108	88	30	1	AZ8	26008
2x4	108	108	30	1	AZ9	26009
2x5	108	128	30	1	AZ10	26010
3x5	148	128	30	1	AZ11	26011
4x5	188	138	30	1	AZ12	26012
5x4	228	118	30	1	AZ13	26013
5x5	228	138	30	1	AZ14	26014
2x6	108	148	30	1	AZ15	26015
3x6	148	148	30	1	AZ16	26016
4x6	188	158	30	1	AZ17	26017
5x6	228	158	30	1	AZ18	26018

Beispielhaft für Rahmen AZ 2:



Note:

1x Rack Unit =
1x VK-Module

2x Rack Units high =
1x VG-Module

Additional cables
can be inserted into
the system at any
time by simply
loosening the
tractable opening.

VARIOSOLID – Plastic Cable Entry Systems and Strain-relief System



- Simple, trouble free assembly of rubber modules through a specially designed tongue and groove system
- Patented rubber modules make it highly adaptable to all situations
- Compact design requires little space
- One System for Cable Entry Systems and Strain-relief System
- all-purpose System
- assembly temperature: > 10°C
- IP 64 protection rating



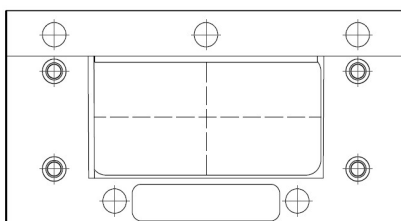
Characteristics of plastic:

- Thermal stability -40°C to 100°C
- Plastic PA6 GF50 with brass reinforcement
- Color: black
- Flammability: UL94-HB (UL94-V0 on demand)

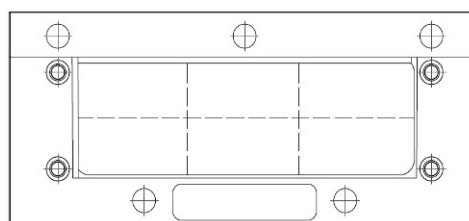
Technical data

Rack Units	Dimensions [mm]			Pkg. unit	Type	Order No.	
	L	H	D				
2x2	136	71	30	3	DS1	25321	Standard drilling pattern 16-PIN connector (103x32 mm)
3x2	164	71	30	2	DS2	25322	Standard drilling pattern 24-PIN connector (130x32 mm)

DS1



DS2



Note:

1x Rack Unit =
1x VK-Module

2x Rack Units high =
1x VG-Module

Additional cables
can be inserted into
the system at any
time by simply
loosening the
tractable opening

VARIOSOLID - Blind Plate



- Standard construction: AlMgSi0,5 Aluminum barrel finished
- Can also be supplied anodized or V4A-Stahl (1.4571)
- IP 65 protection rating
- Rubber: UL94-V0

Technical data

Dimensions [mm]			Pkg. unit	Aluminum		Suitable for gas hole pattern
L	H	D		Type	Order No.	
108	68	5	1	AB1	28001	AR1
148	68	5	1	AB2	28002	AR2 + AS2
148	88	5	1	AB3	28003	AR3
148	108	5	1	AB4	28004	AR4
188	78	5	1	AB5	28005	AR5
188	98	5	1	AB6	28006	AR6
188	118	5	1	AB7	28007	AR7
108	88	5	1	AB8*	28008	AR8
108	108	5	1	AB9*	28009	AR9
108	128	5	1	AB10*	28010	AR10
148	128	5	1	AB11*	28011	AR11
188	138	5	1	AB12*	28012	AR12
228	118	5	1	AB13*	28013	AR13
228	138	5	1	AB14*	28014	AR14

* On request, not in stock

VARIOSOLID - Rubber Modules – Small standard



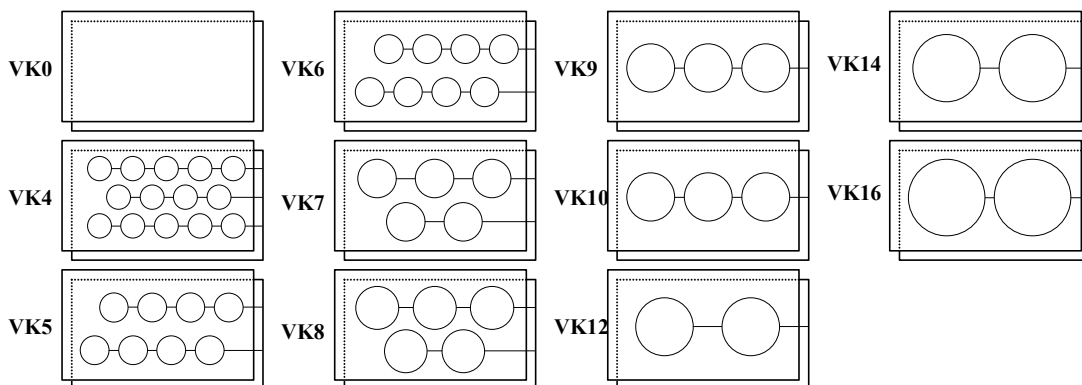
- Simple, trouble free assembly of rubber modules through a specially designed tongue and groove system eliminating the need for extra metal holders within the frame
- Cable passes easily through the lateral slit in each rubber module

Rubber modules are made of high quality, thermoplastic material:

- Material: TPE UL94-HB
- Withstand temperatures from -40°C to 100°C
- Flame resistant and resist UV radiation, ozone, acid, leach, petroleum, solvent and sea water
- Corrosion resistant
- Flammability: UL94-HB

Technical data

Type	Clamping Range [mm]			No. of Feed-throughs	Order No.	Pkg. units
VK 0	full material			0	20001	1
VK 2	2	-	3	14	20021	1
VK 3	3	-	4	14	20022	1
VK 4	4,0	-	4,5	14	20002	1
VK 5	4,5	-	5,5	8	20003	1
VK 6	5,5	-	6,5	8	20004	1
VK 7	6,5	-	7,5	5	20005	1
VK 8	7,5	-	8,5	5	20006	1
VK 9	8,5	-	9,5	3	20007	1
VK 10	9,5	-	10,5	3	20008	1
VK 12	10,5	-	12,5	2	20009	1
VK 14	12,5	-	14,5	2	20010	1
VK 16	14,5	-	16,5	2	20011	1
VK 12/14	10,5-	-	12,5-14,5	1x12 + 1x14	20016	1
VK 4/15fach	4	-	4,5	15	20017	1
VK 4/8	4-4,5	-	7,5-8,5	10x4 + 2x8	20018	1
VK 6/8	5,5-6,5	-	7,5-8,5	7x6 + 1x8	20019	1



Note:

Pre-wired and pre-molded connectors can be easily used with the VARIOZELL system.

Feed-throughs which are not used can be plugged with available blind plugs.

VARIOSOLID - Rubber Modules – Small UL94VO

UL- listing



- Simple, trouble free assembly of rubber modules through a specially designed tongue and groove system eliminating the need for extra metal holders within the frame
- Cable passes easily through the lateral slit in each rubber module

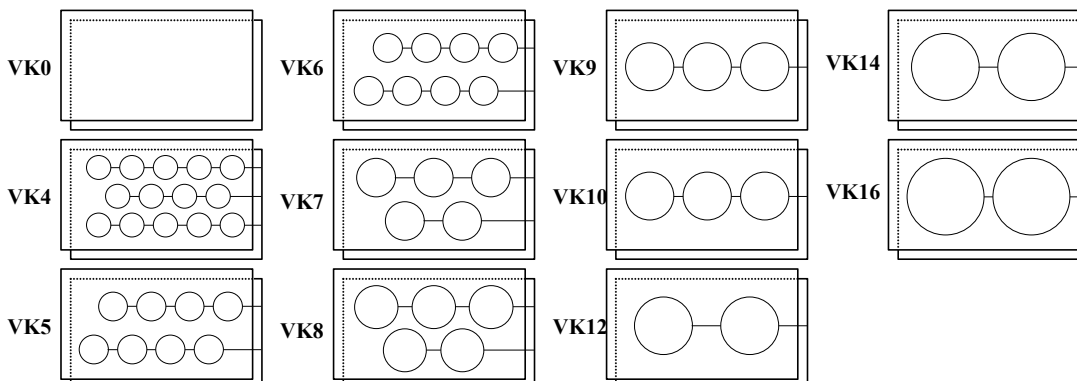
Rubber modules are made of high quality, thermoplastic material:

- Material: TPE UL94-V0 Halogen-free
- Withstand temperatures from -30°C to 80°C (ATEX: - 20°C to 60°C)
- Flame resistant and resist UV radiation, ozone, acid, leach, petroleum, solvent and sea water
- Corrosion resistant
- Flammability: UL94-V0



Technical data

Type	Clamping Range [mm]			No. of Feed-throughs	Order No.	Pkg. units
VK 0 UL94V0	full material			0	20101	1
VK 2 UL94V0	2	-	3	14	20121	1
VK 3 UL94V0	3	-	4	14	20122	1
VK 4 UL94V0	4	-	5	14	20102	1
VK 5 UL94V0	5	-	6	8	20103	1
VK 6 UL94V0	6	-	7	8	20104	1
VK 7 UL94V0	7	-	8	5	20105	1
VK 8 UL94V0	8	-	9	5	20106	1
VK 9 UL94V0	9	-	10	3	20107	1
VK 10 UL94V0	10	-	11	3	20108	1
VK 12 UL94V0	11	-	13	2	20109	1
VK 14 UL94V0	13	-	15	2	20110	1
VK 16 UL94V0	15	-	17	2	20111	1
VK 12/14 UL94V0	10-13	-	13-15	1x12 + 1x14	20116	1
VK 4/15fach UL94V0	4	-	5	15	20117	1
VK 4/8UL94V0	4-5	-	8-9	10x4 + 2x8	20118	1
VK 6/8UL94V0	6-7	-	8-9	7x6 + 1x8	20119	1

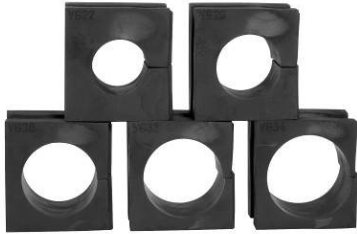


Note:

Pre-wired and pre-molded connectors can be easily used with the VARIOZELL system.

Feed-throughs which are not used can be plugged with available blind plugs.

VARIOSOLID – Rubber Modules – Large



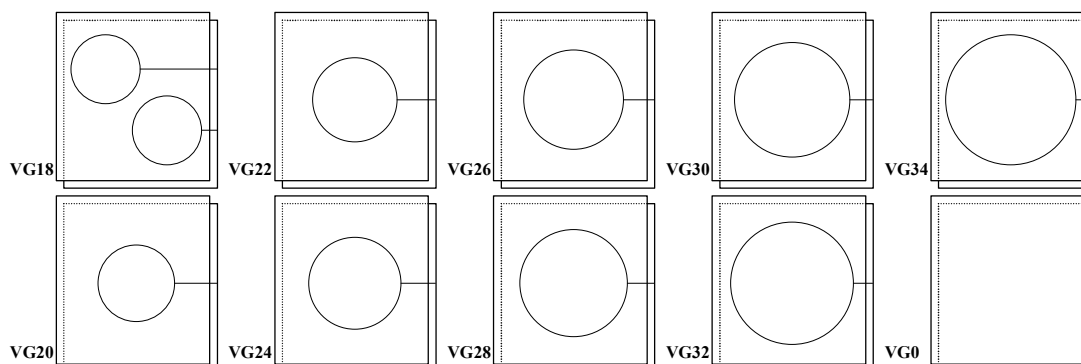
- Simple, trouble free assembly of rubber modules through a specially designed tongue and groove system eliminating the need for extra metal holders within the frame
- Cable passes easily through the lateral slit in each rubber module

Rubber modules are made of high quality, thermoplastic material:

- Material: TPE UL94-HB
- Withstand temperatures from -40°C to 100°C
- Flame resistant and resist UV radiation, ozone, acid, leach, petroleum, solvent and sea water
- Corrosion resistant

Technical data

Type	Clamping Range [mm]			No. of Feed-throughs	Order No.	Pkg. units
VG 0	full material			0	21001	1
VG 18	16,5	-	18,5	2	21002	1
VG 20	18,5	-	20,5	1	21003	1
VG 22	20,5	-	22,5	1	21004	1
VG 24	22,5	-	24,5	1	21005	1
VG 26	24,5	-	26,5	1	21006	1
VG 28	26,5	-	28,5	1	21007	1
VG 30	28,5	-	30,5	1	21008	1
VG 32	30,5	-	32,5	1	21009	1
VG 34	32,5	-	34,5	1	21010	1



Note:

Pre-wired and pre-molded connectors can be easily used with the VARIOZELL system.

Feed-throughs which are not used can be plugged with available blind plugs.

VARIOSOLID – Rubber Modules – Large UL94VO UL- listing



- Simple, trouble free assembly of rubber modules through a specially designed tongue and groove system eliminating the need for extra metal holders within the frame
- Cable passes easily through the lateral slit in each rubber module

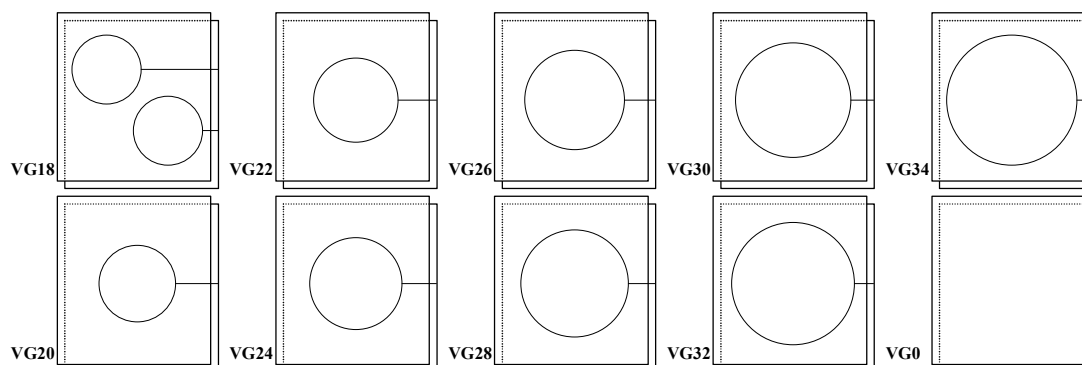
Rubber modules are made of high quality, thermoplastic material:

- Material: TPE UL94-V0 Halogen-free
- Withstand temperatures from -30°C to 80°C (ATEX: - 20°C to 60°C)
- Flame resistant and resist UV radiation, ozone, acid, leach, petroleum, solvent and sea water
- Corrosion resistant



Technical data

Type	Clamping Range [mm]		No. of Feed-throughs	Order No.	Pkg. units
VG 0 UL94V0	full material		0	21101	1
VG 18 UL94V0	17	- 19	2	21102	1
VG 20 UL94V0	19	- 21	1	21103	1
VG 22 UL94V0	21	- 23	1	21104	1
VG 24 UL94V0	23	- 25	1	21105	1
VG 26 UL94V0	25	- 27	1	21106	1
VG 28 UL94V0	27	- 29	1	21107	1
VG 30 UL94V0	29	- 31	1	21108	1
VG 32 UL94V0	31	- 33	1	21109	1
VG 34 UL94V0	33	- 34,5	1	21110	1



Note:

Pre-wired and pre-molded connectors can be easily used with the VARIOZELL system.

Feed-throughs which are not used can be plugged with available blind plugs.

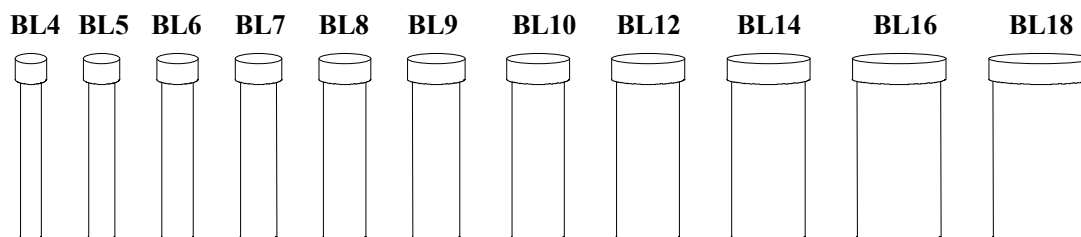
VARIOSOLID – Blind Plugs for Rubber Modules standard grey



- Feed-throughs which are not used can be plugged with a simple blind plug.
- Material: PA6GF15 / UL94-HB

Technical data

Type	Diameter [mm]	Length [mm]	Order No.	Pkg. units	
BL 2	2	30	24012	1	correspond to rubber modul VK 2
BL 3	3	30	24013	1	correspond to rubber modul VK 3
BL 4	4	30	24001	1	correspond to rubber modul VK 4
BL 5	5	30	24002	1	correspond to rubber modul VK 5
BL 6	6	30	24003	1	correspond to rubber modul VK 6
BL 7	7	30	24004	1	correspond to rubber modul VK 7
BL 8	8	30	24005	1	correspond to rubber modul VK 8
BL 9	9	30	24006	1	correspond to rubber modul VK 9
BL 10	10	30	24007	1	correspond to rubber modul VK 10
BL 12	12	30	24008	1	correspond to rubber modul VK 12
BL 14	14	30	24009	1	correspond to rubber modul VK 14
BL 16	16	30	24010	1	correspond to rubber modul VK 16
BL 18	18	30	24011	1	correspond to rubber modul VK 18



VARIOSOLID – Blind Plugs for Rubber Modules UL94-V0 black UL- listing

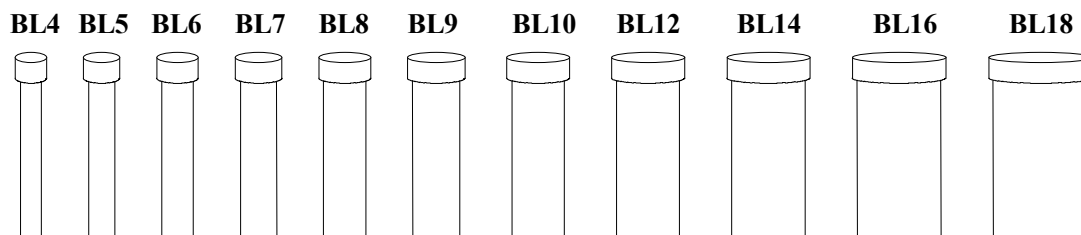


- Feed-throughs which are not used can be plugged with a simple blind plug.
- Material: PA6GF30FR4 / UL94-V0
- Flammability: UL94-V0 self-extinguishing



Technical data

Type	Diameter [mm]	Length [mm]	Order No.	Pkg. units	
BL 2UL94V0	2	30	24112	1	correspond to rubber modul VK 2 UL94V0
BL 3UL94V0	3	30	24113	1	correspond to rubber modul VK 3 UL94V0
BL 4UL94V0	4	30	24101	1	correspond to rubber modul VK 4 UL94V0
BL 5 UL94V0	5	30	24102	1	correspond to rubber modul VK 5 UL94V0
BL 6 UL94V0	6	30	24103	1	correspond to rubber modul VK 6 UL94V0
BL 7 UL94V0	7	30	24104	1	correspond to rubber modul VK 7 UL94V0
BL 8 UL94V0	8	30	24105	1	correspond to rubber modul VK 8 UL94V0
BL 9 UL94V0	9	30	24106	1	correspond to rubber modul VK 9 UL94V0
BL 10 UL94V0	10	30	24107	1	correspond to rubber modul VK 10 UL94V0
BL 12 UL94V0	12	30	24108	1	correspond to rubber modul VK 12 UL94V0
BL 14 UL94V0	14	30	24109	1	correspond to rubber modul VK 14 UL94V0
BL 16 UL94V0	16	30	24110	1	correspond to rubber modul VK 16 UL94V0
BL 18 UL94V0	18	30	24111	1	correspond to rubber modul VK 18 UL94V0



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Do you have questions, a spezial request or a particular purpose?

We would be pleased to receive your call. Our Team assists you to find a solution.

