



TECHNICAL PARAMETERS OF VMP TYPE D

VMP is an explosion relief device used to protect technologies where there is a risk of explosion. Under normal operating conditions, the relief opening on the technology is covered by a VMP device, which opens only when the opening pressure from the explosion is reached. This will alleviate the explosion into the surrounding space and reduce the pressure inside the protected technology below the value of its pressure resistance.

This data sheet describes the technical parameters of VMP type D. These VMPs have a single-layer construction and are convex. They are manufactured in rectangular design and are in accordance with EN 14797 and European Directive 2014/34 / EU.



DATA SHEET



CLASSIFICATION OF VMP	
Equipment group	II.
Explosive atmosphere	D
Equipment category	1D
Operating temperature	-40 to 100 °C (can be expanded to -40 to 180°C)
Storage temperature	10 to 40 °C

MATERIAL	
VMP	stainless-steel
VMP seal	EPDM

OPTIONAL ACCESSORIES	
Open indicator	Cable (type G1), magnetic (type G2) or additional (type G3)
Intrinsically safe relay	It is used to create the interface between the safe and dangerous zone
Flange seal	EPDM, SILIKON
Insulation	Synthetic rubber-based foam
Fasteners	Screws - (strength 8.8 or A2-70), Nuts ISO 4070, Washers ISO 7090 (all in galvanized finish or stainless-steel design)
Upper frame	Made of stainless steel

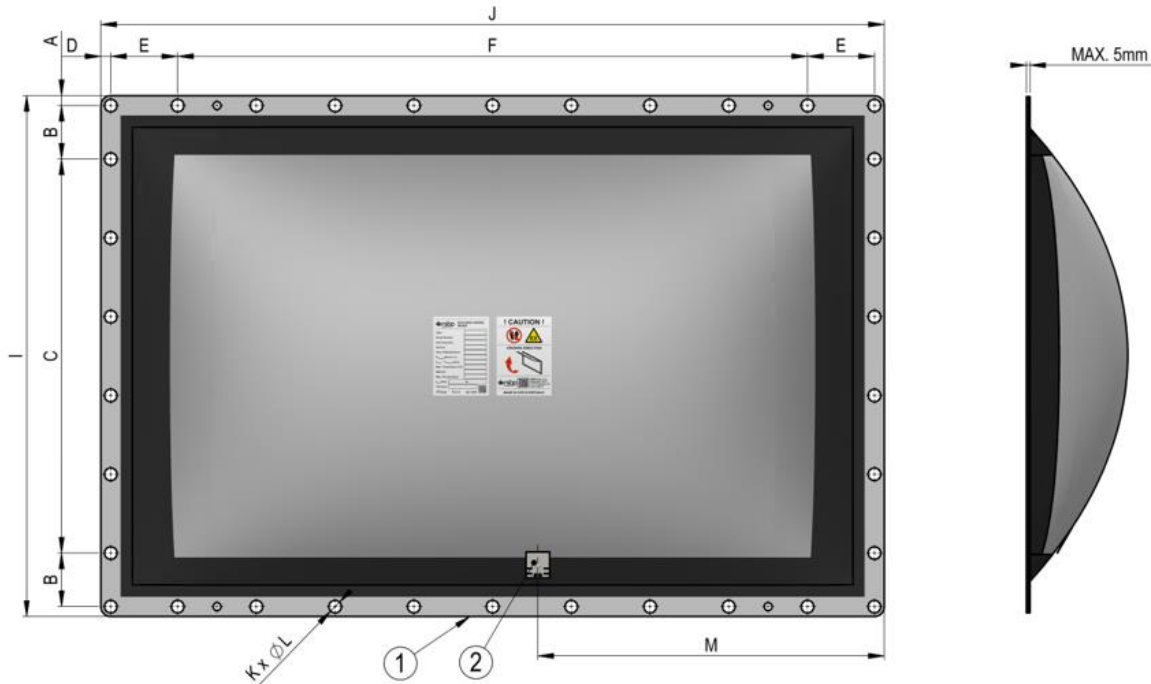


Fire and explosion protection

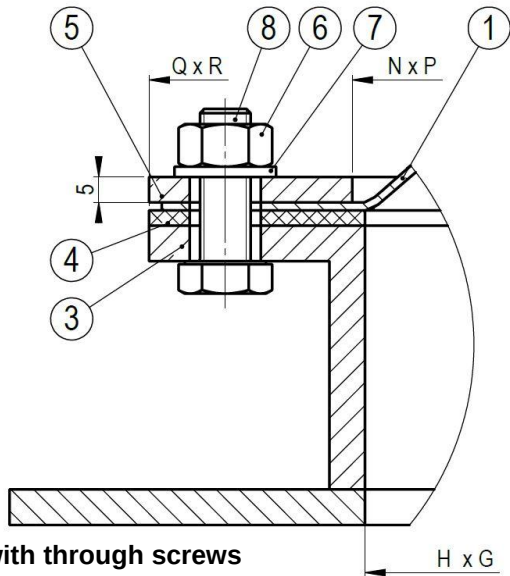
DATA SHEET



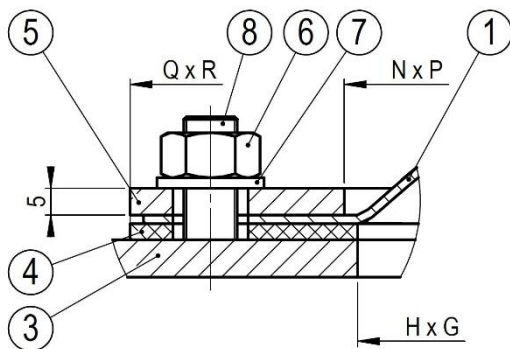
DIMENSIONAL DIAGRAM FOR VMP type D



INSTALLATION VARIANTS



Installation with through screws



Installation with welded screws

Position	Components	Number of pieces
1	VMP	1
2	Plate of position indicator	1
3	Protection equipment ¹⁾	1
4	Seal	1
5	Upper frame ²⁾	1
6	Nut ³⁾	viz ⁴⁾
7	Washer ³⁾	viz ⁴⁾
8	Screw ³⁾	viz ⁴⁾

¹⁾ The flange of the protected VMP mounting device must be absolutely rigid and flat. In case of mounting on insufficiently rigid technology, it is necessary to provide the flange with additional reinforcement

²⁾ The upper frame is made of 5 mm thick sheet metal, stainless steel or galvanized structural steel.

³⁾ material – galvanized steel or stainless steel (screws strength 8.8, or A2-70)

⁴⁾ number according to the table technical parameters





TECHNICAL PARAMETERS

Type	Relief surface	Dimension of hole in technology		External dimension of VMP		A [mm]	B [mm]	C [mm]			D [mm]	E [mm]	F [mm]			Screws/holes		Distance of the plate from the edge		Internal dimension of the frame	External dimension of the frame, seals and flanges of the protected technology	
		H x G [mm]	I x J [mm]	Number of holes	Pitch			Number of holes	Pitch	K			ØL [mm]	M [mm]	N x P [mm]	Q x R [mm]						
229x229	0,05	229x229	309x309	14,5	93	2	94	14,5	93	2	94	12	14	154,5	235x235			315x315				
260x260	0,06	260x260	340x340	16	103	2	102	16	103	2	102	12	14	155,5	265x265			345x345				
150x600	0,08	150x600	220x670	12,5	65	2	65	13	92	6	92	20	14	243	150x600			230x680				
220x540	0,11	220x540	300x620	16	90	2	88	16	98	5	98	18	14	261	225x545			305x625				
305x457	0,12	300x452	375x527	9,5	76	3	204	10	102	4	101	18	14	263,5	305x457			385x537				
610x290	0,16	605x285	365x685	11,5	114	2	114	12,5	110	4	110	18	14	397,5	610x290			370x690				
630x310	0,18	625x305	385x705	16	118	2	117	16,5	112	5	112	18	14	408,5	630x310			390x710				
490x590	0,27	485x585	565x665	17,5	90	5	1)	17,5	90	6	90	26	14	332,5	490x590			570x670				
2x610x290	0,32	2x605x285	1385x385	21,5	114	2	114	21,5	122	4	1)	34	14	1)	2x290x612,5			390x1390				
450x800	0,34	450x800	530x880	15	125	3	250	15	110	6	126	22	14	440	455x805			535x885				
2x630x310	0,35	2x625x305	385	16	118	2	117	16	123	5	1)	34	16	1)	2x630x310			410x1410				
586x920	0,51	581x915	661x995	12,5	68	6	100	12,5	85	9	100	34	16	447,5	586x920			666x1000				
920x920	0,81	916,5x916,5	995x995	12,5	85	9	100	12,5	85	9	100	40	16	447,5	920x920			1000x1000				
915x1118	0,98	910x1113	990x1193	12,5	82,5	9	100	12,5	111,5	10	105	42	16	596,5	915x1118			995x1198				
1020x1020	1	1015x1015	1095x1095	12,5	107	9	107	12,5	107	9	107	40	16	600	1020x1020			1100x1100				

1) Contact the manufacturer for more information

2) Use M10 screws, flat washers 10 (ISO 7090) and M10 nuts (ISO 7040) to secure the VMP. Observe a tightening torque of 21Nm