
 TECHNICAL DATA SHEET

PMAFIX IP68 - NVAV-M - Fitting

45° elbow, metric thread

PMA



IP68, metal thread fitting for flexible non-metallic conduit



Applications:

- For applications with high technical requirements

Features & Benefits:

- Very high impact resistance
- High thread and system connection strength
- Vibration-proof connection to PMA conduits
- Easy installation
- High conduit pull-out strength
- Very good chemical properties
- Fits both conduit profiles - fine (T) and coarse (G)

Ingress protection:

- IP66, IP68 & IP69 (EN/IEC 60529)
- IP69, 100 bar with Water impact protection (WPS-ring)

Materials:

- Fitting body: high-grade, specially formulated polyamide 6
- Thread: nickel-plated brass

Compatible with:

- PMAFLEX Pro Conduits
- PMAFLEX Multilayer Conduits
- PMAFLEX Conduits
- PMA Smart Line Conduits

Conforms to:

- EN 45545-2 HL3 (R22 & R23)
- NFPA 130
- UL 94 (V0)
- UL 1696 (UL file E80294)
- CSA C22.2 No. 227.3-05 (CSA file LL 88703)

Weathering resistance:

- Very good UV resistance and weathering characteristics, particularly in black

Colour:

- Black
- Grey

Chemical properties:

- Please refer to www.pma.ch (Technical Information / Chemical Resistance)

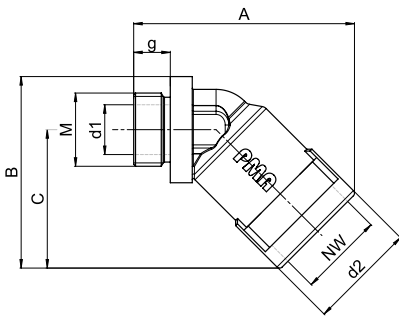
Environmental properties:

- Free from halogens and cadmium
- RoHS and REACH compliant

Product selection:

Part no.		Thread size	Conduit size	Dimensions in mm (nom.)						Weight	Packing unit
black	grey	metric	NW	g	d1	d2	A	B	C	kg/100 pcs	pcs/PU
NVAV-M120-10	MVAV-M120-10	M12x1.5	10	10.0	5.7	20.0	46.0	36.5	26.5	1.7	50
NVAV-M120-5	MVAV-M120-5	M12x1.5	10	5.0	5.7	20.0	43.5	37.0	27.0	1.5	50
NVAV-M162-10	MVAV-M162-10	M16x1.5	12	10.0	9.5	24.0	50.5	41.5	29.5	2.3	50
NVAV-M162-5	MVAV-M162-5	M16x1.5	12	5.0	9.7	24.0	48.0	40.5	28.5	2.0	50
NVAV-M207-10	MVAV-M207-10	M20x1.5	17	10.0	13.5	29.5	60.5	52.5	38.0	3.2	50
NVAV-M207-6	MVAV-M207-6	M20x1.5	17	6.0	13.7	30.0	56.5	51.5	37.0	3.0	50
NVAV-M253-11	MVAV-M253-11	M25x1.5	23	11.0	18.5	37.0	69.0	61.0	43.5	4.6	30
NVAV-M253-7	MVAV-M253-7	M25x1.5	23	7.0	18.6	37.0	66.0	60.5	43.0	4.2	30
NVAV-M257-11	MVAV-M257-11	M25x1.5	17	11.0	17.0	35.0	61.5	55.5	38.0	3.8	50
NVAV-M323-13	MVAV-M323-13	M32x1.5	23	13.0	23.0	43.0	71.0	65.0	43.5	5.9	30
NVAV-M329-13	MVAV-M329-13	M32x1.5	29	13.0	25.0	44.0	76.5	68.5	47.0	6.8	20
NVAV-M329-8	MVAV-M329-8	M32x1.5	29	8.0	25.7	44.0	72.0	68.0	46.5	6.2	20
NVAV-M406-13	MVAV-M406-13	M40x1.5	36	13.0	32.0	55.0	94.0	88.5	61.0	12.1	20
NVAV-M406-8	MVAV-M406-8	M40x1.5	36	8.0	33.0	55.0	89.0	87.5	60.0	11.2	20
NVAV-M409-13	MVAV-M409-13	M40x1.5	29	13.0	30.5	53.0	78.0	73.5	47.0	9.8	20
NVAV-M506-14	MVAV-M506-14	M50x1.5	36	14.0	37.5	65.0	95.0	93.5	61.0	15.4	20
NVAV-M508-14	MVAV-M508-14	M50x1.5	48	14.0	41.0	69.0	102.0	101.5	67.0	19.1	10
NVAV-M508-9	MVAV-M508-9	M50x1.5	48	9.0	42.3	69.0	97.0	101.0	66.5	17.7	10
NVAV-M638-14	MVAV-M638-14	M63x1.5	48	14.0	48.5	75.0	102.0	104.5	67.0	17.6	10
NVAV-M638-10	MVAV-M638-10	M63x1.5	48	10.0	52.0	75.0	98.0	104.0	66.5	16.2	10

Our customer service dept. or local distribution partner will be pleased to help you concerning product availability and lead time



Mechanical Properties:	Value:	Test parameters:	Test method:
Tensile modulus	1'200 ... 3'700 N/mm ²		ISO 527
Tensile strength	45 ... 65 N/mm ²		ISO 527
Notched bar impact test	4 ... 20 kJ/m ²		ISO 180/1C
Vibration and shock standard	Cat. 2		IEC 61373, IEC 60068-2-27 / -64

Thermal properties:	Value:	Test parameters:	Test method:
Continuous application temperature	-50 ... +105°C		PMA DO 9.21-4510
Upper application temperature	+120°C	(20'000 h)	PMA DO 9.21-4360
Short-term	+160°C	(168 h)	PMA DO 9.21-4360

Fire safety properties:	Value:	Test parameters:	Test method:
Fire performance	non flame-propagating		IEC EN 61386-1
Flame class	V0		UL 94

Fire hazard level	HL3		EN 45545-2 (R22)
Oxygen index	> 32 %		EN ISO 4589-2
Smoke density	< 150 Ds max.		EN ISO 5659-2 (25 kW/m ²)
Toxicity	< 0.75 CIT _{NLP}		NF X 70-100-1/-2: (600°C)

Fire hazard level	HL3		EN 45545-2 (R23)
Oxygen index	> 32 %		EN ISO 4589-2
Smoke density	< 300 Ds max.		EN ISO 5659-2 (25 kW/m ²)
Toxicity	< 1.5 CIT _{NLP}		NF X 70-100-1/-2: (600°C)

Fire performance NFPA 130:			NFPA 130
- Flammability	compliant		ASTM E 162
- Smoke density	compliant		ASTM E 662

Heat and visible smoke	26.00 MJ/kg		ASTM E 1354
Smoke emission toxicity	compliant		Bombardier SMP 800-C
Smoke emission toxicity	compliant		Boeing BSS 7239

Content of delivery:

- Fitting with conduit locking clip (OVN2)
- Conduit gasket (NVN3)
- Thread gasket (SVN4)
- O-ring

Assembly instructions:

- Please consider the appropriate assembly instructions on www.pma.ch
- O-ring or thread gasket, select the best solution for your application

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