

TECHNICAL DATA SHEET

PMAFIX IP68 - NVBV-M - Fitting

90° curved 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)

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)

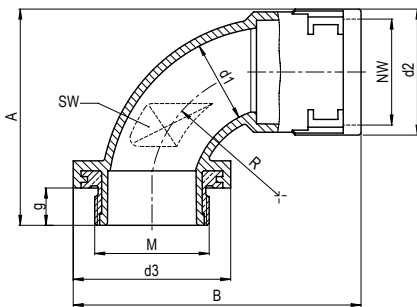
Environmental properties:

- 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			g	d1	d2	d3	SW	A	B	R		
NVBV-M207-10	MVBV-M207-10	M20x1.5	17	10.0	11.0	29.5	29.0	15	51.0	73.0	30.5	3.9	50
NVBV-M207-6	MVBV-M207-6	M20x1.5	17	6.0	11.0	29.5	29.0	15	47.0	73.0	30.5	3.6	50
NVBV-M257-11	MVBV-M257-11	M25x1.5	17	11.0	14.5	29.5	35.0	18	52.0	76.0	30.5	4.2	50
NVBV-M257-7	MVBV-M257-7	M25x1.5	17	7.0	14.5	29.5	35.0	18	48.0	76.0	30.5	3.6	50
NVBV-M253-11	MVBV-M253-11	M25x1.5	23	11.0	15.5	37.0	35.0	21	62.5	85.0	38.0	6.2	30
NVBV-M253-7	MVBV-M253-7	M25x1.5	23	7.0	15.5	37.0	35.0	21	58.5	85.0	38.0	5.5	30
NVBV-M323-13	MVBV-M323-13	M32x1.5	23	13.0	19.5	37.0	43.0	24	64.5	89.0	38.0	6.9	30
NVBV-M323-8	MVBV-M323-8	M32x1.5	23	8.0	19.5	37.0	43.0	24	59.5	89.0	38.0	6.2	30
NVBV-M329-13	MVBV-M329-13	M32x1.5	29	13.0	23.0	44.0	43.0	28	74.0	94.5	45.0	8.1	20
NVBV-M329-8	MVBV-M329-8	M32x1.5	29	8.0	23.0	44.0	43.0	28	69.0	94.5	45.0	7.5	20
NVBV-M409-13	MVBV-M409-13	M40x1.5	29	13.0	28.5	44.0	55.0	34	75.5	100.5	45.0	11.3	20
NVBV-M409-8	MVBV-M409-8	M40x1.5	29	8.0	28.5	44.0	55.0	34	70.5	100.5	45.0	10.3	20
NVBV-M406-13	MVBV-M406-13	M40x1.5	36	13.0	29.0	53.5	55.0	36	86.5	123.0	53.0	14.8	20
NVBV-M406-8	MVBV-M406-8	M40x1.5	36	8.0	29.0	53.5	55.0	36	81.5	123.0	53.0	12.8	20
NVBV-M506-14	MVBV-M506-14	M50x1.5	36	14.0	36.5	53.5	69.0	41	87.5	130.0	53.0	18.9	20
NVBV-M506-9	MVBV-M506-9	M50x1.5	36	9.0	36.5	53.5	69.0	41	82.5	130.0	53.0	15.8	20
NVBV-M508-14	MVBV-M508-14	M50x1.5	48	14.0	38.5	66.0	69.0	46	100.5	135.0	60.0	24.2	10
NVBV-M508-9	MVBV-M508-9	M50x1.5	48	9.0	38.5	66.0	69.0	46	95.5	135.0	60.0	20.4	10
NVBV-M638-14	MVBV-M638-14	M63x1.5	48	14.0	48.0	66.0	75.0	55	100.5	138.0	60.0	31.3	10
NVBV-M638-10	MVBV-M638-10	M63x1.5	48	10.0	48.0	66.0	75.0	55	96.5	138.0	60.0	27.6	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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