

Special Products

SB 90° Curved Elbow, Metric, Metal, Swivel

- For applications with high technical requirements, mainly in machine building
- Suitable for occasional rotation
- High-grade formulated polyamide 6, thread and integrated swivel adapter made from nickel-plated brass
- Very high impact resistance
- High thread and system connection strength
- Suitable for occasional rotation
- Round guidance within the connector
- Easy introduction of wires and cables
- Vibration-proof connection to PMAFLEX[®] conduits
- Very good chemical properties
- Free from halogens and cadmium
- Fits fine (T) and coarse (G) conduit profiles



Cat. No. IP68, Black	Thread Metric	Fits to Conduit Size		Thread Length (mm)	External Dimensions (mm)
		NW	Metric		
NSBV-M207-10	M20x1.5	17	20	10.0	62.5 x 74.5
NSBV-M253-11	M25x1.5	23	25	11.0	73.0 x 87.5
NSBV-M329-13	M32x1.5	29	32	13.0	86.5 x 98.0
NSBV-M406-13	M40x1.5	36	40	13.0	98.5 x 127.5
NSBV-M409-13	M40x1.5	29	32	13.0	86.5 x 98.0
NSBV-M508-14	M50x1.5	48	50	14.0	113.0 x 139.0
NSBV-M638-14	M63x1.5	48	50	14.0	110.0 x 139.0

Temperature range: -40° C to 105° C;
Short term to 160° C

Content of delivery:
Fitting with oval clips (OVN2),
conduit and thread seals (NVN3, SVN4 or OR)

SB 90° Curved Elbow, PG, Metal, Swivel

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Cat. No. IP68, Black	Thread Metric	Fits to Conduit Size		Thread Length (mm)	External Dimensions (mm)
		NW	Metric		
NSBV-P167-6.5	16	17	20	6.5	58.0 x 75.5
NSBV-P213-7	21	23	25	7.0	69.0 x 87.5
NSBV-P299-8	29	29	32	8.0	80.0 x 98.0
NSBV-P366-9	36	36	40	9.0	91.5 x 127.5
NSBV-P488-10	48	48	50	10.0	106.0 x 139.0

Temperature range: -40° C to 105° C;
Short term to 160° C

Content of delivery:
Fitting with oval clips (OVN2), conduit and thread seals (NVN3, SVN4 or OR)

SWA Swivel Adapters, Metric

- Allow PMA[®] connectors to swivel freely in applications where such movements is occasionally necessary
- Nickel-plated brass
- Connect to PMA[®] connectors with metal threads
- Include thread edge protection
- Include corresponding seals up to IP67/IP68



Cat. No. IP67	Thread Metric	Outside Diameter (mm)	Dimensions Length (mm)
SWA-M16-10	M16x1.5	23.0	37.5
SWA-M20-10	M20x1.5	27.0	38.5
SWA-M25-11	M25x1.5	32.0	41.0
SWA-M32-13	M32x1.5	45.0	46.5
SWA-M40-13	M40x1.5	55.0	47.5
SWA-M50-14	M50x1.5	59.0	49.5
SWA-M63-14	M63x1.5	75.0	52.0

Temperature range: -40° C to 105° C

Content of delivery:
Adapter, thread seal (SVN4 or OR)

Special Products

SWA Swivel Adapters, PG

- Allow PMA® connectors to swivel freely in applications where such movements is occasionally necessary
- Nickel-plated brass
- Connect to PMA® connectors with metal threads
- With thread edge protection
- With corresponding seals up to IP67/IP68



Temperature range: -40° C to 105° C

Content of delivery:
Adapter, thread seal (SVN4 or OR)

Cat. No. IP67	Thread Metric	Outside Diameter (mm)	Dimensions Length (mm)
SWA-P09	9	23.0	44.5
SWA-P11	11	27.0	45.5
SWA-P16	16	32.0	48.0
SWA-P21	21	40.0	51.0
SWA-P29	29	50.0	52.0
SWA-P36	36	59.0	55.0
SWA-P48	48	70.0	55.0

SCA Spin Couplers, Metric

- Allow the easy positioning of elbow connectors with metal threads
- Nickel-plated brass
- Connect to PMA® connectors with metal threads
- High fastening torque
- Include thread edge protection
- Up to IP68 (IEC 60529/EN 60529)



Temperature range: -40° C to 105° C

Content of delivery:
Adapter, thread seal (SVN4)

Cat. No. IP68	Thread Metric	Outside Diameter (mm)	Dimensions Length (mm)
SCA-M16-10	M16x1.5	22.0	32.0
SCA-M20-10	M20x1.5	26.0	33.0
SCA-M25-11	M25x1.5	32.0	35.0
SCA-M32-13	M32x1.5	39.0	39.5
SCA-M40-13	M40x1.5	50.0	41.0
SCA-M50-14	M50x1.5	59.0	43.5
SCA-M63-14	M63x1.5	75.0	45.5

SCA Spin Couplers, PG

- Allow the easy positioning of elbow connectors with metal threads
- Nickel-plated brass
- Connect to PMA® connectors with metal threads
- High fastening torque
- Include thread edge protection
- Up to IP68 (IEC 60529/EN 60529)



Temperature range: -40° C to 105° C

Content of delivery:
Adapter, thread seal (SVN4)

Cat. No. IP68	Thread PG	Outside Diameter (mm)	Dimensions Length (mm)
SCA-P09	9	22.0	35.0
SCA-P11	11	26.0	36.0
SCA-P16	16	29.0	38.0
SCA-P21	21	39.0	41.0
SCA-P29	29	44.0	42.5
SCA-P36	36	59.0	49.0
SCA-P48	48	69.0	50.5

Special Products

VN-REM Connection to Solid Tube, Metric

- Use in railway vehicle construction and other applications where metric metal tubes are to be connected with the flexible PMAFLEX[®] system
- High-grade, specially formulated polyamide 6; jubilee clip made of galvanized bright steel
- Very high impact resistance
- Quick connection of solid metal tubes with flexible PMA[®] conduits
- Available with or without jubilee clip
- High conduit pullout strength
- Very good chemical properties
- Free from halogens and cadmium
- Fits fine (T) and coarse (G) conduit profiles



Cat. No. IP68 Without Clamp ▲	Cat. No. IP68 With Clamp ▲	Fits to Conduit Size		Steel Tube Metric	Inside Diameter (mm)	Overall Length (mm)
		NW	Metric			
VNR-REM162	VNR-REM162-24	12	16	M16	16.0	54.0
VNR-REM207	VNR-REM207-28	17	20	M20	20.0	65.0
VNR-REM253	VNR-REM253-32	23	25	M25	26.0	71.0
VNR-REM329	VNR-REM329-44	29	32	M32	32.0	71.0
VNR-REM406	VNR-REM406-50	36	40	M40	40.0	90.0
VNR-REM508	VNR-REM508-65	48	50	M50	50.0	90.0

– Insert "B" to order black or "S" to order grey.

▲ IP68GT available. Please add "GT" to catalogue no. or insert before clamp size (e.g. BVNR-REM162GT, BVNR-REM162GT24). (Functional description PMAFIX IP68GT, pages E28–E29).

VNR: IP68 static/IP67 dynamic, conduit side

Temperature range: -40° C to 105° C;
Short term to 160° C

Content of delivery:

IP68: Fitting with oval clips (OVN2), conduit seal (NVN3); clamp according to catalogue number

IP68GT: Fitting with pre-assembled universal safety clips (AFN2) and conduit seal (NVN3-GT); clamp according to catalogue number

VN-RE Connection to Solid Tube, PG

- Use in railway vehicle with PG dimensions, construction and other applications where metal tubes are to be connected with the flexible PMAFLEX[®] system
- High-grade, specially formulated polyamide 6; jubilee clip made of galvanized bright steel
- Very high impact resistance
- Quick connection of solid metal tubes with flexible PMA[®] conduits
- Available with or without jubilee clip
- High conduit pullout strength
- Very good chemical properties
- Free from halogens and cadmium
- Fits fine (T) and coarse (G) conduit profiles



Cat. No. IP68 Without Clamp ▲	Cat. No. IP68 With Clamp ▲	Fits to Conduit Size		Steel Tube PG	Inside Diameter (mm)	Overall Length (mm)
		NW	Metric			
VNR-RE12	VNR-RE12-24	12	16	PG11	18.5	56.0
VNR-RE1317	VNR-RE1317-28	17	20	PG13	20.4	65.0
VNR-RE17	VNR-RE17-28	17	20	PG16	22.5	65.0
VNR-RE23	VNR-RE23-32	23	25	PG21	28.5	71.0
VNR-RE29	VNR-RE29-44	29	32	PG29	37.0	71.0
VNR-RE36	VNR-RE36-50	36	40	PG36	47.0	84.0
VNR-RE48	VNR-RE48-65	48	50	PG48	59.3	90.0

– Insert "B" to order black or "S" to order grey.

▲ IP68GT available. Please add "GT" to catalogue no. or insert before clamp size (e.g. BVNR-REM162GT, BVNR-REM162GT24). (Functional description PMAFIX IP68GT, pages E28–E29).

VNR: IP68 static/IP67 dynamic, conduit side

Temperature range: -40° C to 105° C;
Short term to 160° C

Content of delivery:

Fitting with oval clips (OVN2), conduit seal (NVN3); clamp according to catalogue number

Special Products

VSG Connection Splices for Flexible Conduits

- Use in railway vehicle construction and machine tooling
- High-grade formulated polyamide
- Self extinguishing
- Free from halogens and cadmium
- High pullout strength
- Fits fine (T) and coarse (G) conduit profiles



Cat. No. IP66	Cat. No. IP68	Fits to Conduit Size		Outside Diameter (mm)	Overall Length (mm)
		NW	Metric		
VSGD-1212GT	VSGR-1212	12	16	23.5	66.0
VSGD-1717GT	VSGR-1717	17	20	30.0	89.0
VSGD-2323GT	VSGR-2323	23	25	37.0	103.0
VSGD-2929GT	VSGR-2929	29	32	44.0	100.0
VSGD-3636GT	VSGR-3636	36	40	53.0	130.0
VSGD-4848GT	VSGR-4848	48	50	61.0	136.0

_ = Insert "B" to order black or "S" to order grey.

Temperature range: -40° C to 105° C;
Short term to 160° C

Content of delivery:

- IP66: Connection splice with pre-installed universal safety clips (AFN2)
- IP68: Connection splice with oval clips (OVN2), conduit seal (NVN3)

AV Conduit Adapters

- Use in connection with PMAFIX®/PMAFLEX® system
- High-grade, specially formulated polyamide 6
- Very high impact resistance
- Allows variable application of the PMAFIX® system, particularly of PMA® distribution pieces
- High conduit pullout strength
- Very good chemical properties
- Free from halogens and cadmium
- Fits fine (T) and coarse (G) conduit profiles



Cat. No. IP66, Black	Cat. No. IP68, Black	Fits to Conduit Size		Fits to Conduit Size		Overall Length (mm)
		NW	Metric	NW	Metric	
BAVD-10/07GT	BAVR-10/07	10	12	07	10	43.0
BAVD-12/10GT	BAVR-12/10	12	16	10	12	46.0
BAVD-17/10GT	BAVR-17/10	17	20	10	12	53.0
BAVD-17/12GT	BAVR-17/12	17	20	12	16	54.0
BAVD-23/10GT	BAVR-23/10	23	25	10	12	54.0
BAVD-23/12GT	BAVR-23/12	23	25	12	16	53.0
BAVD-23/17GT	BAVR-23/17	23	25	17	20	62.0
BAVD-29/10GT	BAVR-29/10	29	32	10	12	56.5
BAVD-29/12GT	BAVR-29/12	29	32	12	16	55.0
BAVD-29/17GT	BAVR-29/17	29	32	17	20	61.0
BAVD-29/23GT	BAVR-29/23	29	32	23	25	64.0
BAVD-36/29GT	BAVR-36/29	36	40	29	32	81.0
BAVD-48/36GT	BAVR-48/36	48	50	36	40	88.5

Temperature range: -40° C to 105° C;
Short term to 160° C

Content of delivery:

- IP66: Adapter with pre-assembled universal safety clips (AFN2)
- IP68: Adapter with oval clips (OVN2), conduit seal (NVN3)

Special Products

RKS Conduit Terminal Sleeves

- Used at the end of conduits where no connectors with threads are necessary
- Specially modified polyamide
- Self extinguishing
- Free from halogens and cadmium



Temperature range: -40° C to 105° C;
Short term 160° C

Cat. No.	Fits to Conduit Size NW	Fits to Conduit Size Metric	Inside Diameter (mm)	Outside Diameter (mm)	Dimensions Length (mm)
Black					
RKS-07	7	10	4.5	12.5	16.0
RKS-10	10	12	8.0	15.5	16.0
RKS-12	12	16	10.0	19.0	20.0
RKS-17	17	20	13.0	24.0	21.0
RKS-23	23	25	20.0	32.0	22.0
RKS-29	29	32	25.0	38.0	22.0
RKS-36	36	40	33.5	46.0	25.0
RKS-48	48	50	45.0	58.0	25.0
RKS-56	56	63	54.0	71.0	28.0

SS/SV Abrasion-Protection Sleeves

- Abrasion protection for corrugated conduits exposed to chafing
- High-grade, specially modified polyamide 6
- Increase the lifetime of moving conduits
- Excellent chafing characteristics
- Very good chemical properties
- Free from halogens and cadmium
- Fits fine (T) and coarse (G) conduit profiles



Temperature range: -40° C to 105° C;
Short term 160° C

Content of delivery:

Abrasion-protection sleeves with assembling screws

Cat. No.	Fits to Conduit Size NW	Fits to Conduit Size Metric	Outside Diameter (mm)	Dimensions Length (mm)
Black				
BSS-17	17	20	42.0	22.0
BSS-23	23	25	49.0	26.0
BSS-29	29	32	55.0	26.0
BSS-36	36	40	63.0	30.0
BSS-48	48	50	75.0	30.0
BSS-56G	56	—	90.0	33.0
BSV-70G	70	—	108.0	60.0